

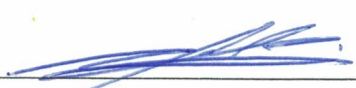
ANEXO II

Declaração de ELABORAÇÃO INDEPENDENTE DE PROPOSTA

ANDRÉ LUIZ ALVES DE OLIVEIRA, portador da Cédula de Identidade RG nº 1685233 SSP/DF e do CPF nº 705.590.401-30, como representante devidamente constituído de ARVVO TECNOLOGIA, CONSULTORIA E SERVIÇOS LTDA, inscrita no CNPJ nº 25.359.140/0001-81, doravante denominado Licitante, para fins do disposto no Edital da presente Licitação, declara, sob as penas da lei, em especial o art. 299 do Código Penal Brasileiro, que:

- (a) a proposta apresentada para participar da presente Licitação foi elaborada de maneira independente pelo Licitante, e o conteúdo da proposta não foi, no todo ou em parte, direta ou indiretamente, informado, discutido ou recebido de qualquer outro participante potencial ou de fato da presente Licitação, por qualquer meio ou por qualquer pessoa;
- (b) a intenção de apresentar a proposta elaborada para participar da presente Licitação não foi informada, discutida ou recebida de qualquer outro participante potencial ou de fato da presente Licitação, por qualquer meio ou por qualquer pessoa;
- (c) que não tentou, por qualquer meio ou por qualquer pessoa, influir na decisão de qualquer outro participante potencial ou de fato da presente Licitação quanto a participar ou não da referida licitação;
- (d) que o conteúdo da proposta apresentada para participar da presente Licitação não será, no todo ou em parte, direta ou indiretamente, comunicado ou discutido com qualquer outro participante potencial ou de fato da presente Licitação antes da adjudicação do objeto da referida licitação;
- (e) que o conteúdo da proposta apresentada para participar da presente Licitação não foi, no todo ou em parte, direta ou indiretamente, informado, discutido ou recebido de qualquer integrante do órgão licitante antes da abertura oficial das propostas; e
- (f) que está plenamente ciente do teor e da extensão desta declaração e que detém plenos poderes e informações para firmá-la.

Brasília/DF, em 21 de março de 2019.


ANDRÉ LUIZ ALVES DE OLIVEIRA
DIRETOR

André Luiz Alves de Oliveira
Diretor
ARVVO TECNOLOGIA



ANEXO III

DECLARAÇÃO DE INEXISTÊNCIA DE FATO IMPEDITIVO

E

DECLARAÇÃO PARA FINS DO DISPOSTO NO INCISO V DO ARTIGO 27 DA LEI Nº 8.666/93, ACRESCIDO PELA LEI Nº 9.854/99.

A empresa ARVVO TECNOLOGIA, CONSULTORIA E SERVIÇOS LTDA, CNPJ nº. 25.359.140/0001-81, sediada SHN QUADRA 01 BLOCO A SALA 1114/1115, por intermédio de seu representante legal, o Sr. ANDRÉ LUIZ ALVES DE OLIVEIRA, portador da Carteira de Identidade nº 1685233 SSP/DF e do CPF nº 705.590.401-30, declara, sob as penas da Lei, que até a presente data inexistem fatos impeditivos para sua habilitação neste certame licitatório e que se encontra ciente da obrigatoriedade de declarar ocorrências posteriores.

DECLARA, ainda que, para fins do disposto no inciso V, do art. 27 da Lei nº 8.666, de 21 de junho de 1993, acrescido pela Lei nº 9.854, de 27 de outubro de 1999, não emprega menor de dezoito anos em trabalho noturno, perigoso ou insalubre e (assinalar com “X”, conforme o caso):

☒ (X) não emprega menor de dezesseis anos.

☐ () emprega menor, a partir de quatorze anos, na condição de aprendiz.

Brasília/DF, em 21 de março de 2019.


ANDRÉ LUIZ ALVES DE OLIVEIRA

DIRETOR

André Luiz Alves de Oliveira
Diretor
ARVVO TECNOLOGIA



ANEXO IV

DECLARAÇÃO

A empresa ARVVO TECNOLOGIA, CONSULTORIA E SERVIÇOS LTDA, CNPJ nº 25.359.140/0001-81, sediada SHN Quadra 01 Bloco A Sala 1114/1115 – Le Quartier, Asa Norte, Brasília/DF - CEP:70.701-010, declara, de que não incide nas práticas de nepotismo vedadas pelas Resoluções do Conselho Nacional de Justiça números 156, de 8 de agosto de 2012, e 7, de 18 de outubro de 2005, com as alterações promovidas pela Resolução nº 229, de 22 de junho de 2016, do Conselho Nacional de Justiça – CNJ.

Brasília/DF, em 21 de março de 2019.

A handwritten signature in blue ink, reading 'André Luiz Alves de Oliveira', positioned above a horizontal line.

ANDRÉ LUIZ ALVES DE OLIVEIRA

DIRETOR

André Luiz Alves de Oliveira
Diretor
ARVVO TECNOLOGIA



REPÚBLICA FEDERATIVA DO BRASIL
CADASTRO NACIONAL DA PESSOA JURÍDICA

NÚMERO DE INSCRIÇÃO 25.359.140/0001-81 MATRIZ	COMPROVANTE DE INSCRIÇÃO E DE SITUAÇÃO CADASTRAL	DATA DE ABERTURA 03/08/2016
NOME EMPRESARIAL ARVVO TECNOLOGIA, CONSULTORIA E SERVICOS LTDA		
TÍTULO DO ESTABELECIMENTO (NOME DE FANTASIA) ARVVO TECNOLOGIA		PORTE DEMAIS
CÓDIGO E DESCRIÇÃO DA ATIVIDADE ECONÔMICA PRINCIPAL 47.51-2-01 - Comércio varejista especializado de equipamentos e suprimentos de informática		
CÓDIGO E DESCRIÇÃO DAS ATIVIDADES ECONÔMICAS SECUNDÁRIAS 62.04-0-00 - Consultoria em tecnologia da informação 62.09-1-00 - Suporte técnico, manutenção e outros serviços em tecnologia da informação 77.33-1-00 - Aluguel de máquinas e equipamentos para escritórios 78.20-5-00 - Locação de mão-de-obra temporária 85.99-6-03 - Treinamento em informática		
CÓDIGO E DESCRIÇÃO DA NATUREZA JURÍDICA 206-2 - Sociedade Empresária Limitada		
LOGRADOURO ST SHN QUADRA 01 CONJUNTO A BLOCO A ENTRADA A	NÚMERO S/N	COMPLEMENTO SALA 1114 1115 1116 E 1117 EDIFICIO LE QUARTIER
CEP 70.701-010	BAIRRO/DISTRITO ASA NORTE	MUNICÍPIO BRASILIA
UF DF		
ENDEREÇO ELETRÔNICO P.CONTATO@ARVVO.COM.BR		TELEFONE (61) 3553-9006
ENTE FEDERATIVO RESPONSÁVEL (EFR) *****		
SITUAÇÃO CADASTRAL ATIVA		DATA DA SITUAÇÃO CADASTRAL 03/08/2016
MOTIVO DE SITUAÇÃO CADASTRAL		
SITUAÇÃO ESPECIAL *****		DATA DA SITUAÇÃO ESPECIAL *****

Aprovado pela Instrução Normativa RFB nº 1.634, de 06 de maio de 2016.

Emitido no dia **21/03/2019** às **15:48:01** (data e hora de Brasília).

Página: **1/1**



DISTRITO FEDERAL
SECRETARIA DE ESTADO DE FAZENDA
SUBSECRETARIA DA RECEITA

CERTIDÃO NEGATIVA DE DÉBITOS

CERTIDÃO Nº : 104-00.441.927/2019
NOME : ARVVO TECNOLOGIA, CONSULTORIA E SERVICOS LTDA
ENDEREÇO : SHN, QD. 01 CONJ. A BLOCO A ENTRADA A SALAS 1114, 1115, 1116 E 1117
CIDADE : ASA NORTE
CPF :
CNPJ : 25.359.140/0001-81
CF/DF : 0777834700193 - ATIVA
FINALIDADE : LICITACAO

_____ CERTIFICAMOS QUE _____

Até esta data não constam débitos de tributos de competência do Distrito Federal, inclusive os relativos à Dívida Ativa, para o contribuinte acima.

Fica ressalvado o direito de a Fazenda Pública do Distrito Federal cobrar, a qualquer tempo, débitos que venham a ser apurados.

Certidão expedida conforme Decreto Distrital nº 23.873 de 04/07/2003, gratuitamente.

Válida até 19 de Junho de 2019.

Brasília, 21 de Março de 2019.

Certidão emitida via internet às 16:07:23 e deve ser validada no endereço www.fazenda.df.gov.br



DISTRITO FEDERAL
SECRETARIA DE ESTADO DE FAZENDA
SUBSECRETARIA DA RECEITA

CERTIDÃO NEGATIVA DE DÉBITOS

CERTIDÃO Nº : 104-00.441.922/2019
NOME : ARVVO TECNOLOGIA, CONSULTORIA E SERVICOS LTDA
ENDEREÇO : SHN, QD. 01 CONJ. A BLOCO A ENTRADA A SALAS 1114, 1115, 1116 E 1117
CIDADE : ASA NORTE
CPF :
CNPJ : 25.359.140/0001-81
CF/DF : 0777834700193 - ATIVA
FINALIDADE : JUNTO AO GDF

_____ CERTIFICAMOS QUE _____

Até esta data não constam débitos de tributos de competência do Distrito Federal, inclusive os relativos à Dívida Ativa, para o contribuinte acima.

Fica ressalvado o direito de a Fazenda Pública do Distrito Federal cobrar, a qualquer tempo, débitos que venham a ser apurados.

Certidão expedida conforme Decreto Distrital nº 23.873 de 04/07/2003, gratuitamente.

Válida até 19 de Junho de 2019.

Brasília, 21 de Março de 2019.

Certidão emitida via internet às 16:06:48 e deve ser validada no endereço www.fazenda.df.gov.br

**TJDFT**

Poder Judiciário da União

TRIBUNAL DE JUSTIÇA DO DISTRITO FEDERAL E DOS TERRITÓRIOS

**CERTIDÃO NEGATIVA DE DISTRIBUIÇÃO(AÇÕES DE FALÊNCIAS E RECUPERAÇÕES JUDICIAIS)
1ª e 2ª Instâncias**

CERTIFICAMOS que, após consulta aos registros eletrônicos de distribuição de ações de falências e recuperações judiciais disponíveis até 20/03/2019, **NADA CONSTA** contra o nome por extenso e CPF/CNPJ de:

ARVVO TECNOLOGIA, CONSULTORIA E SERVICOS LTDA
25.359.140/0001-81

OBSERVAÇÕES:

- a) Os dados de identificação são de responsabilidade do solicitante da certidão, devendo a titularidade ser conferida pelo interessado e pelo destinatário.
- b) A autenticidade deverá ser confirmada no site do TJDFT (www.tjdft.jus.br), informando-se o número do selo digital de segurança impresso.
- c) A certidão será emitida de acordo com as informações inseridas no banco de dados. Em caso de exibição de processos com dados desatualizados, o interessado deverá requerer a atualização junto ao juízo ou órgão julgador.
- d) A certidão será negativa quando não for possível a individualização dos processos por carência de dados do Poder Judiciário. (artigo 8º, § 2º da Resolução 121/CNJ).
- e) A certidão cível contempla ações cíveis, execuções fiscais, execuções e insolvências civis, falências, recuperações judiciais, recuperações extrajudiciais, inventários, interdições, tutelas e curatelas. A certidão criminal compreende os processos criminais, os processos criminais militares e as execuções penais. Demais informações sobre o conteúdo das certidões, consultar em www.tjdft.jus.br, Cidadãos, Certidão de Nada Consta, Tipos de Certidão.
- f) A certidão cível atende ao disposto no inciso II do artigo 31 da Lei 8.666/1993.
- g) Medida prevista no artigo 26 do Código Penal, sentença não transitada em julgado.

Emitida gratuitamente pela internet em: 21/03/2019

Data da última atualização do banco de dados: 20/03/2019

Selo digital de segurança: **2019.CTD.HWJZ.339A.N791.NYYN.KU2F**

*** VÁLIDA POR 30(TRINTA) DIAS ***



Certificado de Regularidade do FGTS - CRF

Inscrição: 25359140/0001-81
Razão Social: ARVVO TECNOLOGIA CONSULTORIA E SERVICOS LTDA
Nome Fantasia: ARVVO TECNOLOGIA
Endereço: Q SHN QD 1 BL A CONJ A ENT A SLS 1114 A 1117 SN ED LE QUARTIER / ASA
NORTE / BRASILIA / DF / 70701-010

A Caixa Econômica Federal, no uso da atribuição que lhe confere o Art. 7, da Lei 8.036, de 11 de maio de 1990, certifica que, nesta data, a empresa acima identificada encontra-se em situação regular perante o Fundo de Garantia do Tempo de Serviço - FGTS.

O presente Certificado não servirá de prova contra cobrança de quaisquer débitos referentes a contribuições e/ou encargos devidos, decorrentes das obrigações com o FGTS.

Validade: 20/03/2019 a 18/04/2019

Certificação Número: 2019032005014704304081

Informação obtida em 21/03/2019, às 16:02:53.

A utilização deste Certificado para os fins previstos em Lei está condicionada à verificação de autenticidade no site da Caixa: **www.caixa.gov.br**



MINISTÉRIO DA FAZENDA
Secretaria da Receita Federal do Brasil
Procuradoria-Geral da Fazenda Nacional

CERTIDÃO NEGATIVA DE DÉBITOS RELATIVOS AOS TRIBUTOS FEDERAIS E À DÍVIDA ATIVA DA UNIÃO

Nome: ARVVO TECNOLOGIA, CONSULTORIA E SERVICOS LTDA
CNPJ: 25.359.140/0001-81

Ressalvado o direito de a Fazenda Nacional cobrar e inscrever quaisquer dívidas de responsabilidade do sujeito passivo acima identificado que vierem a ser apuradas, é certificado que não constam pendências em seu nome, relativas a créditos tributários administrados pela Secretaria da Receita Federal do Brasil (RFB) e a inscrições em Dívida Ativa da União (DAU) junto à Procuradoria-Geral da Fazenda Nacional (PGFN).

Esta certidão é válida para o estabelecimento matriz e suas filiais e, no caso de ente federativo, para todos os órgãos e fundos públicos da administração direta a ele vinculados. Refere-se à situação do sujeito passivo no âmbito da RFB e da PGFN e abrange inclusive as contribuições sociais previstas nas alíneas 'a' a 'd' do parágrafo único do art. 11 da Lei nº 8.212, de 24 de julho de 1991.

A aceitação desta certidão está condicionada à verificação de sua autenticidade na Internet, nos endereços <<http://rfb.gov.br>> ou <<http://www.pgfn.gov.br>>.

Certidão emitida gratuitamente com base na Portaria Conjunta RFB/PGFN nº 1.751, de 2/10/2014.

Emitida às 21:26:43 do dia 02/02/2019 <hora e data de Brasília>.

Válida até 01/08/2019.

Código de controle da certidão: **5D17.7557.9518.0CF4**

Qualquer rasura ou emenda invalidará este documento.



Ministério da Economia
Secretaria Especial de Desburocratização, Gestão e Governo Digital
Secretaria de Gestão

Sistema de Cadastramento Unificado de Fornecedores - SICAF

Declaração

Declaramos para os fins previstos na Lei nº 8.666, de 1993, conforme documentação registrada no SICAF, que a situação do fornecedor no momento é a seguinte:

Dados do Fornecedor

CNPJ: 25.359.140/0001-81
Razão Social: ARVVO TECNOLOGIA, CONSULTORIA E SERVICOS LTDA
Nome Fantasia: ARVVO TECNOLOGIA
Situação do Fornecedor: Credenciado Data de Vencimento do Cadastro: 28/11/2019

Ocorrências e Impedimentos

Ocorrência: Nada Consta
Impedimento de Licitar: Nada Consta

Níveis cadastrados:

Documento(s) assinalado(s) com "*" está(ão) com prazo(s) vencido(s).

I - Credenciamento

II - Habilitação Jurídica

III - Regularidade Fiscal e Trabalhista Federal

Receita Federal e PGFN	Validade:	01/08/2019
FGTS	Validade:	18/04/2019
Trabalhista (http://www.tst.jus.br/certidao)	Validade:	17/09/2019

IV - Regularidade Fiscal Estadual/Distrital e Municipal

Receita Estadual/Distrital	Validade:	10/06/2019
Receita Municipal (Isento)		

VI - Qualificação Econômico-Financeira

Validade: 31/05/2019

Esta declaração é uma simples consulta e não tem efeito legal

Emitido em: 22/03/2019 12:05

CPF: 705.590.401-30 Nome: ANDRE LUIZ ALVES DE OLIVEIRA

Ass: _____



PODER JUDICIÁRIO
JUSTIÇA DO TRABALHO

CERTIDÃO NEGATIVA DE DÉBITOS TRABALHISTAS

Nome: ARVVO TECNOLOGIA, CONSULTORIA E SERVICOS LTDA

(MATRIZ E FILIAIS) CNPJ: 25.359.140/0001-81

Certidão nº: 169569154/2019

Expedição: 21/03/2019, às 16:08:10

Validade: 16/09/2019 - 180 (cento e oitenta) dias, contados da data de sua expedição.

Certifica-se que **ARVVO TECNOLOGIA, CONSULTORIA E SERVICOS LTDA (MATRIZ E FILIAIS)**, inscrito(a) no CNPJ sob o nº **25.359.140/0001-81**, **NÃO CONSTA** do Banco Nacional de Devedores Trabalhistas.

Certidão emitida com base no art. 642-A da Consolidação das Leis do Trabalho, acrescentado pela Lei nº 12.440, de 7 de julho de 2011, e na Resolução Administrativa nº 1470/2011 do Tribunal Superior do Trabalho, de 24 de agosto de 2011.

Os dados constantes desta Certidão são de responsabilidade dos Tribunais do Trabalho e estão atualizados até 2 (dois) dias anteriores à data da sua expedição.

No caso de pessoa jurídica, a Certidão atesta a empresa em relação a todos os seus estabelecimentos, agências ou filiais.

A aceitação desta certidão condiciona-se à verificação de sua autenticidade no portal do Tribunal Superior do Trabalho na Internet (<http://www.tst.jus.br>).

Certidão emitida gratuitamente.

INFORMAÇÃO IMPORTANTE

Do Banco Nacional de Devedores Trabalhistas constam os dados necessários à identificação das pessoas naturais e jurídicas inadimplentes perante a Justiça do Trabalho quanto às obrigações estabelecidas em sentença condenatória transitada em julgado ou em acordos judiciais trabalhistas, inclusive no concernente aos recolhimentos previdenciários, a honorários, a custas, a emolumentos ou a recolhimentos determinados em lei; ou decorrentes de execução de acordos firmados perante o Ministério Público do Trabalho ou Comissão de Conciliação Prévia.

Ministério da Indústria, Comércio Exterior e Serviços Secretaria Especial da Micro e Pequena Empresa Departamento de Registro Empresarial e Integração			Nº DO _____
NIRE (da sede ou filial, quando a sede for em outra UF) 53202085027	Código da Natureza Jurídica 2062	JCDF - SEDE SEDE - JCDF 18 ABR 2018 18/124.838-7	

1 - REQUERIMENTO

ILMO(A). SR.(A) PRESIDENTE DA Junta Comercial do Distrito Federal

Nome: **ARVVO TECNOLOGIA, CONSULTORIA E SERVICOS LTDA**
 (da Empresa ou do Agente Auxiliar do Comércio)

Nº FCN/REMP

DF2201800027747

requer a V.Sª o deferimento do seguinte ato:

Nº DE VIAS	CÓDIGO DO ATO	CÓDIGO DO QTDE	DESCRIÇÃO DO ATO / EVENTO
1	002		ALTERACAO
	021	1	ALTERACAO DE DADOS (EXCETO NOME EMPRESARIAL)
	051	1	CONSOLIDACAO DE CONTRATO/ESTATUTO
	2211	1	ALTERACAO DE ENDERECO DENTRO DO MESMO MUNICIPIO
	2003	1	ALTERACAO DE SOCIO/TITULAR / ADMINISTRADOR

BRASILIA
Local

20 Março 2018
Data

Representante Legal da Empresa / Agente Auxiliar do

Nome: **ANDRÉ LUIZ ALVES DE OLIVEIRA**

Assinatura:

Telefone de Contato: **3321-1101**

Ismael
 OFICINA DE NOTAS DO DF

2 - USO DA JUNTA COMERCIAL

☐ **DECISÃO SINGULAR**

☐ **DECISÃO COLEGIADA**

Nome(s) Empresarial(ais) igual(ais) ou semelhante(s):

☐ **SIM**

☐ **SIM**

☐ **NÃO**

☐ **NÃO**

Processo em Ordem
À decisão

____/____/____
Data

Responsável

DECISÃO SINGULAR

☐ Processo em exigência. (Vide despacho em folha anexa)

2ª Exigência

3ª Exigência

4ª Exigência

5ª Exigência

☒ Processo deferido. Publique-se e arquite-se.

☐

☐

☐

☐

☐ Processo indeferido. Publique-se.

☐

☐

☐

☐

DECISÃO COLEGIADA

☐ Processo em exigência. (Vide despacho em folha anexa)

2ª Exigência

3ª Exigência

4ª Exigência

5ª Exigência

☐ Processo deferido. Publique-se e arquite-se.

☐

☐

☐

☐

☐ Processo indeferido. Publique-se.

☐

☐

☐

☐

____/____/____
Data

Vogal

Presidente da _____ Turma

OBSERVAÇÕES

JUNTA COMERCIAL DO DISTRITO FEDERAL
 CERTIFICADO O REGISTRO SOB O NRO: 1060923
 EM 20/04/2018 DA EMPRESA: 5320208502-7.

#ARVVO TECNOLOGIA, CONSULTORIA E SERVICOS LTDA#

Protocolo: 18/124.838-7 EM 18/04/2018

SAULO IZIDORIO VIEIRA
 SECRETÁRIO GERAL

SAULO IZIDORIO VIEIRA
 SECRETÁRIO GERAL



Junta Comercial do Distrito Federal

Certifico registro sob o nº 1060923 em 20/04/2018 da Empresa ARVVO TECNOLOGIA, CONSULTORIA E SERVICOS LTDA, Nire 53202085027 e protocolo 181248387 - 18/04/2018. Autenticação: 6A2D51CD6FF7919DB4D6231FC470FA768281EDFC. Saulo Izidorio Vieira - Secretário-Geral. Para validar este documento, acesse <http://jcdf.mdic.gov.br> e informe nº do protocolo 18/124.838-7 e o código de segurança SSYX Esta cópia foi autenticada digitalmente e assinada em 26/04/2018 por Saulo Izidorio Vieira – Secretário-Geral.

SAULO IZIDORIO VIEIRA
 SECRETÁRIO GERAL

4º OFÍCIO DE NOTAS - DF
 SEPN QD 504, ED. MARIANNA, LOJA 108/114 - BRASÍLIA / DF
 FONE: (61) 3326-5234/3038-2500/3702-7474
 4oficiodenotas@gmail.com

PREMIO DE QUALIDADE TOTAL
 CATEGORIA 5000

RECONHECO e dou fe por SEMELHANÇA a(s) firma(s) de:
 [0305957] - ANDRE LUIZ ALVES DE OLIVEIRA

Selo TJDF 20180090299753TBTA
 BSE 23/03/2018 - 16:09:21 - Consultar selo: www.tjdft.jus.br
 IMDS - Tabela: Evaldo Feitosa dos Santos

LEONIDAS FABIANO RODRIGUES CRUZ

QUALQUER EMENDA OU RASURA ANULA O DOCUMENTO

Leônidas Fabiano R. Cruz
 4º Ofício de Notas de Brasília DF
 Escrevente Autorizado

AAB484835




Junta Comercial do Distrito Federal

Certifico registro sob o nº 1060923 em 20/04/2018 da Empresa ARVVO TECNOLOGIA, CONSULTORIA E SERVICOS LTDA, Nire 53202085027 e protocolo 181248387 - 18/04/2018. Autenticação: 6A2D51CD6FF7919DB4D6231FC470FA768281EDFC. Saulo Izidorio Vieira - Secretário-Geral. Para validar este documento, acesse <http://jcdf.mdic.gov.br> e informe nº do protocolo 18/124.838-7 e o código de segurança SSYX Esta cópia foi autenticada digitalmente e assinada em 26/04/2018 por Saulo Izidorio Vieira – Secretário-Geral.

Saulo Izidorio Vieira
 SAULO IZIDORIO VIEIRA
 SECRETÁRIO GERAL



ARVVO TECNOLOGIA, CONSULTORIA E SERVIÇOS LTDA

3ª Alteração Contratual Consolidada

CNPJ-MF: 25.359.140/0001-81

NIRE-JCDF: 532.0208502-7

ANDRÉ LUIZ ALVES DE OLIVEIRA, brasileiro, empresário, casado sob o regime de comunhão parcial de bens, natural de Brasília-DF, nascido em 25/03/1980, portador da CNH nº 00362719178 expedida pelo DETRAN-DF, inscrito no CPF/MF nº 705.590.401-30, residente e domiciliado na SQSW 105, Bloco F, Aptº 211, Sudoeste, Brasília-DF, CEP: 70670-426;

ANDRÉ GONÇALVES BELLO, brasileiro, empresário, casado sob o regime de comunhão parcial de bens, natural de Brasília-DF, nascido em 06/02/1982, portador da Carteira de Identidade nº 1.841.582 expedida pela SSP-DF em 23/02/2015, inscrito no CPF/MF nº 699.678.141-87, residente e domiciliado na SHN QI 14, Conjunto 06, Casa 11, Lago Norte, Brasília-DF, CEP: 71530-060.

Únicos sócios da sociedade empresária limitada denominada **ARVVO TECNOLOGIA, CONSULTORIA E SERVIÇOS LTDA**, estabelecida a SHN, Quadra 01, Conjunto A, Bloco A, Entrada A, Salas 1114 e 1115, Edifício Le Quartier, Asa Norte, Brasília-DF, CEP: 70701-010, registrada na Junta Comercial do Distrito Federal sob o NIRE nº 532.0208502-7 por despacho em 03/08/2016 e inscrita no CNPJ-MF sob nº 25.359.140/0001-81, resolvem de comum acordo e na melhor forma de direito, alterar e consolidar seus atos constitutivos, conforme cláusulas e condições seguintes:

ALTERAÇÕES

CLÁUSULA PRIMEIRA

A sociedade resolve alterar seu endereço que passa a ser: SHN, Quadra 01, Conjunto A, Bloco A, Entrada A, Salas 1114, 1115, 1116 e 1117, Edifício Le Quartier, Asa Norte, Brasília-DF, CEP: 70701-010.

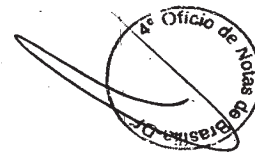
CLÁUSULA SEGUNDA

Com concordância e anuência dos sócios, é admitido na sociedade **HEBERT MATHEUS DE MOURA**, brasileiro, empresário, casado sob o regime de comunhão parcial de bens, natural de Brasília-DF, nascido em 29/01/1977, filho de Marcos Antonio Pereira Moura e Maria Aparecida de Moura, portador da Carteira de Identidade nº 1.529.891 expedida pela SSP-DF, CNH nº 00037103748 expedida pelo DETRAN-DF, inscrito no CPF/MF nº 691.641.851-68, residente e domiciliado na CCSW Quadra 01, Lote 01, Bloco A, Aptº 101, Sudoeste, Brasília-DF, CEP: 70680-150.

CLÁUSULA TERCEIRA

Com concordância e anuência dos sócios, o sócio **ANDRÉ LUIZ ALVES DE OLIVEIRA**, já qualificado, cede e transfere, 8.800 (oito mil e oitocentas) quotas de capital, no valor de R\$8.800,00 (oito mil e oitocentos reais) ao sócio ora admitido **HEBERT MATHEUS DE MOURA**. O sócio **ANDRÉ GONÇALVES BELLO**, já qualificado, cede e transfere, 26.400 (vinte e seis mil e quatrocentas) quotas de capital, no valor de R\$26.400,00 (vinte e seis mil e quatrocentos reais) ao sócio ora admitido **HEBERT MATHEUS DE MOURA**.





Parágrafo único: Os sócios cedentes dão total e rasa quitação pelas cotas ora transferidas.

CLÁUSULA QUARTA

O capital social que é de R\$88.000,00 (oitenta e oito mil reais) dividido em 88.000 (oitenta e oito mil) quotas de capital no valor unitário de R\$1,00 (um real), totalmente integralizado pelos sócios em moeda corrente nacional, ficando assim a distribuição da participação societária:

Sócios	Qtd. de quotas	R\$	%
ANDRÉ LUIZ ALVES DE OLIVEIRA	35.200	35.200,00	40
HEBERT MATHEUS DE MOURA	35.200	35.200,00	40
ANDRÉ GONÇALVES BELLO	17.600	17.600,00	20
Total	88.000	88.000,00	100

Parágrafo único: A responsabilidade de cada sócio é restrita ao valor de suas quotas, mas todos respondem solidariamente pela integralização do capital social. (art. 1.052, CC/2002).

CLÁUSULA QUINTA

A administração da sociedade caberá aos sócios, **ANDRÉ LUIZ ALVES DE OLIVEIRA** e **HEBERT MATHEUS DE MOURA**, com os poderes e atribuições de sócios administradores, autorizado o uso do nome empresarial em conjunto ou separadamente, vedado, no entanto, em atividades estranhas ao interesse social ou assumir obrigações seja em favor de qualquer dos cotistas ou de terceiros, bem como onerar ou alienar bens imóveis da sociedade, sem autorização do outro sócio. (arts. 997, VI; 1.013, 1.015, 1.064, CC/2002).

Parágrafo primeiro: Nas transações financeiras de contratação de empréstimos, financiamentos, ou transações que aliene ou onere bens imóveis da sociedade, será necessário a assinatura de todos os sócios.

Parágrafo segundo: Nos termos dos artigos 1.060 a 1.064 da Lei 10.406/02, a sociedade poderá nomear administrador não sócio, que será determinado em contrato ou por ato em separado, através de Ata de Reunião ou Assembléia, e, levado ao registro competente.

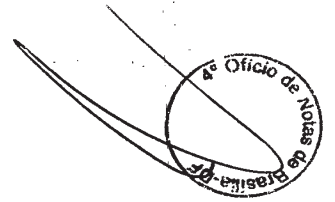
Parágrafo terceiro: Os sócios administradores em conjunto ou separadamente poderão nomear procurador(es), através de instrumento público ou particular (arts. 654 e 655 – Código Civil), com finalidade específica, para representá-lo(s) perante terceiros, com exceção para poderes de administração da sociedade.

Parágrafo quarto: Fica estabelecido que, na abertura, movimentação, fechamento de contas bancárias, nos contratos comerciais, tanto como contratante como contratada e participação em licitações, concorrências, tomadas de preços a sociedade poderá ser representada por qualquer dos sócios, em conjunto ou separadamente.

CLÁUSULA SEXTA

Os Administradores declaram sob as penas da lei, de que não estão impedidos de exercerem a administração da sociedade, por lei especial, ou em virtude de condenação criminal, ou por se encontrar sob os efeitos dela, a pena que vede, ainda que temporariamente, o acesso a cargos públicos; ou por crime falimentar, de prevaricação, peita ou suborno, concussão, peculato, ou contra a economia popular, contra o sistema financeiro nacional, contra normas de defesa da concorrência, contra as relações de consumo, fé pública, ou a propriedade. (art. 1.011, § 1º, CC/2002).





CLÁUSULA SÉTIMA

Permanecem inalteradas e válidas todas as demais cláusulas e condições que não colidem com as disposições do presente instrumento que consolida seus atos constitutivos, substituindo os demais anteriores.

CONSOLIDAÇÃO

ANDRÉ LUIZ ALVES DE OLIVEIRA, brasileiro, empresário, casado sob o regime de comunhão parcial de bens, natural de Brasília-DF, nascido em 25/03/1980, portador da CNH nº 00362719178 expedida pelo DETRAN-DF, inscrito no CPF/MF nº 705.590.401-30, residente e domiciliado na SQSW 105, Bloco F, Aptº 211, Sudoeste, Brasília-DF, CEP: 70670-426;

ANDRÉ GONÇALVES BELLO, brasileiro, empresário, casado sob o regime de comunhão parcial de bens, natural de Brasília-DF, nascido em 06/02/1982, portador da Carteira de Identidade nº 1.841.582 expedida pela SSP-DF em 23/02/2015, inscrito no CPF/MF nº 699.678.141-87, residente e domiciliado na SHIN QI 14, Conjunto 06, Casa 11, Lago Norte, Brasília-DF, CEP: 71530-060;

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Únicos sócios da sociedade empresária limitada denominada **ARVVO TECNOLOGIA, CONSULTORIA E SERVIÇOS LTDA**, estabelecida a SHN, Quadra 01, Conjunto A, Bloco A, Entrada A, Salas 1114, 1115, 1116 e 1117, Edifício Le Quartier, Asa Norte, Brasília-DF, CEP: 70701-010, registrada na Junta Comercial do Distrito Federal sob o NIRE nº 532.0208502-7 por despacho em 03/08/2016 e inscrita no CNPJ-MF sob nº 25.359.140/0001-81, resolvem de comum acordo e na melhor forma de direito, consolidar seus atos constitutivos, conforme cláusulas e condições seguintes:

CLÁUSULA PRIMEIRA

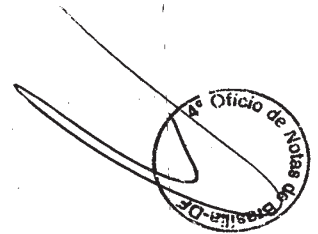
A sociedade gira sob o nome empresarial de: **ARVVO TECNOLOGIA, CONSULTORIA E SERVIÇOS LTDA**, e tem sede no SHN, Quadra 01, Conjunto A, Bloco A, Entrada A, Salas 1114, 1115, 1116 e 1117, Edifício Le Quartier, Asa Norte, Brasília-DF, CEP: 70701-010.

Parágrafo único: A sociedade poderá a qualquer tempo, abrir ou fechar filial ou outra dependência, mediante alteração contratual assinada por todos os sócios.

CLÁUSULA SEGUNDA

A sociedade tem como atividade: Comércio varejista especializado de equipamentos e suprimentos de informática; Consultoria em tecnologia da informação; Locação de mão de obra temporária; Suporte técnico, manutenção e outros serviços em tecnologia da informação; Aluguel de máquinas e equipamentos para escritório; e, treinamento em informática.





CLÁUSULA TERCEIRA

A sociedade iniciou suas atividades em 18 de julho de 2016, e o prazo de duração é por tempo indeterminado.

CLÁUSULA QUARTA

O capital social é de R\$88.000,00 (oitenta e oito mil reais) dividido em 88.000 (oitenta e oito mil) quotas de capital no valor unitário de R\$1,00 (um real), totalmente integralizado pelos sócios em moeda corrente nacional, ficando assim a distribuição da participação societária:

Sócios	Qtde. de quotas	R\$	%
ANDRÉ LUIZ ALVES DE OLIVEIRA	35.200	35.200,00	40
HEBERT MATHEUS DE MOURA	35.200	35.200,00	40
ANDRÉ GONÇALVES BELLO	17.600	17.600,00	20
Total	88.000	88.000,00	100

Parágrafo único: A responsabilidade de cada sócio é restrita ao valor de suas quotas, mas todos respondem solidariamente pela integralização do capital social. (art. 1.052, CC/2002).

CLÁUSULA QUINTA

As quotas são indivisíveis e não poderão ser cedidas ou transferidas a terceiros sem o consentimento do outro sócio, a quem fica assegurado, em igualdade de condições e preço direito de preferência para a sua aquisição se postas à venda, formalizando, se realizada a cessão delas, a alteração contratual pertinente. (arts. 1.056 e 1.057, CC/2002).

CLÁUSULA SEXTA

A administração da sociedade caberá aos sócios, **ANDRÉ LUIZ ALVES DE OLIVEIRA** e **HEBERT MATHEUS DE MOURA**, com os poderes e atribuições de sócios administradores, autorizado o uso do nome empresarial em conjunto ou separadamente, vedado, no entanto, em atividades estranhas ao interesse social ou assumir obrigações seja em favor de qualquer dos cotistas ou de terceiros, bem como onerar ou alienar bens imóveis da sociedade, sem autorização do outro sócio. (arts. 997, VI; 1.013, 1.015, 1.064, CC/2002).

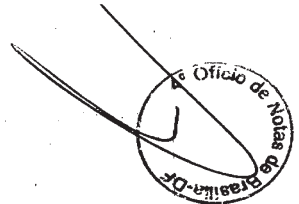
Parágrafo primeiro: Nas transações financeiras de contratação de empréstimos, financiamentos, ou transações que aliene ou onere bens imóveis da sociedade, será necessário a assinatura de todos os sócios.

Parágrafo segundo: Nos termos dos artigos 1.060 a 1.064 da Lei 10.406/02, a sociedade poderá nomear administrador não sócio, que será determinado em contrato ou por ato em separado, através de Ata de Reunião ou Assembléia, e, levado ao registro competente.

Parágrafo terceiro: Os sócios administradores em conjunto ou separadamente poderão nomear procurador(es), através de instrumento público ou particular (arts. 654 e 655 – Código Civil), com finalidade específica, para representá-lo(s) perante terceiros, com exceção para poderes de administração da sociedade.

Parágrafo quarto: Fica estabelecido que, na abertura, movimentação, fechamento de contas bancárias, nos contratos comerciais, tanto como contratante como contratada e participação em licitações, concorrências, tomadas de preços a sociedade poderá ser representada por qualquer dos sócios, em conjunto ou separadamente.





CLÁUSULA SÉTIMA

Ao término de cada exercício social, em 31 de dezembro, o administrador prestará contas justificadas de sua administração, procedendo à elaboração do inventário, do balanço patrimonial e do balanço de resultado econômico, cabendo aos sócios, na proporção de suas cotas, os lucros ou perdas apurados. (art. 1.065, CC/2002).

Parágrafo primeiro: Os lucros ou prejuízos apurados poderão ser distribuídos ou suportados pelos sócios, ou ter outra destinação que será determinada por simples opção através de lançamentos contábeis. Com base em levantamento de balanço ou balancete no curso do exercício, podem os sócios promover distribuição de lucros, desde que haja disponibilidade financeira, promovendo os ajustes no encerramento do exercício.

Parágrafo segundo: Poderá ser efetuada a distribuição de lucros aos sócios em percentual diferente da participação societária no capital, de acordo com a decisão dos sócios. (Arts. 1.007, 1.008, 1.053 CC/2002).

Parágrafo terceiro: Nos quatro meses seguintes ao término do exercício social, os sócios deliberarão sobre as contas e designarão administrador(es) quando for o caso. (arts. 1.071 e 1.072, § 2º e art. 1.078, CC/2002).

Parágrafo quarto: Fica dispensada a reunião dos sócios, quando estas decidirem por escrito sobre as matérias objeto de deliberação, nos termos do § 3º, do art. 1.072 da Lei nº 10.406/2002.

Parágrafo quinto: A reunião dos sócios ocorrerá nos termos previstos em lei, ordinariamente, nos quatro primeiros meses depois de findo o exercício social, de acordo com o artigo 1.078 da Lei nº 10.406/2002 e extraordinariamente sempre que os interesses sociais exigirem o pronunciamento dos sócios, salvo se todos os sócios estiverem presentes e decidirem por escrito acerca da matéria em pauta.

CLÁUSULA OITAVA

Os sócios que prestarem serviços à sociedade, mesmo que cotistas, poderão receber uma retirada mensal, a título de "pro labore", observadas as disposições regulamentares pertinentes.

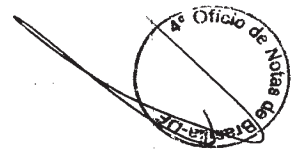
CLÁUSULA NONA

Em caso de falecimento, interdição, inabilitação e retirada de qualquer um dos sócios, não se constituirá causa para dissolução da sociedade, cabendo aos sócios remanescentes procederem no prazo de 40 (quarenta) dias, ao levantamento de um inventário, seguido de Balanço Patrimonial e Demonstração de Resultado da sociedade.

Parágrafo primeiro: Os valores serão pagos ao sócio retirante, interdito, inabilitado ou aos herdeiros legais do sócio falecido, com base na situação patrimonial da sociedade, à data da resolução, verificada em balanço especialmente levantado, da seguinte forma: 30% (trinta por cento) como o prazo de 40 (quarenta) dias após a elaboração do Balanço Patrimonial e outros 70% (setenta por cento) restantes, em 10 (dez) parcelas mensais, iguais e sucessivas, vencendo-se a primeira, 30 (trinta) dias após o pagamento da parcela inicial.

Parágrafo segundo: O mesmo procedimento será adotado em outros casos em que a sociedade se resolva em relação a seu sócio. (arts. 1.028 e 1.031, CC/2002).





Parágrafo terceiro: Não serão admitidos como sócios pessoas que participem, na qualidade de sócio ou administrador, de outras sociedades personificadas ou individuais de responsabilidade limitada. Os sócios que ingressarem no quadro societário ou na qualidade de administrador não sócio em outras sociedades personificadas.

Parágrafo quarto: Serão automaticamente excluídos da sociedade os sócios ou administradores que deixarem de cumprir com as regras de compliance e governança corporativa estabelecidas para a empresa, sem prejuízo de sua responsabilização civil e criminal perante a sociedade, seus sócios e terceiros eventualmente lesados.

CLÁUSULA DÉCIMA

O sócio que por ventura desejar se retirar da sociedade deverá comunicar aos outros, a sua intenção, por escrito, com o prazo mínimo de antecedência de 60 (sessenta) dias, devendo seus haveres serem pagos conforme previsto neste contrato social ou em acordo de sócios.

CLÁUSULA DÉCIMA PRIMEIRA

Os Administradores declaram sob as penas da lei, de que não estão impedidos de exercerem a administração da sociedade, por lei especial, ou em virtude de condenação criminal, ou por se encontrar sob os efeitos dela, a pena que vede, ainda que temporariamente, o acesso a cargos públicos; ou por crime falimentar, de prevaricação, peita ou suborno, concussão, peculato, ou contra a economia popular, contra o sistema financeiro nacional, contra normas de defesa da concorrência, contra as relações de consumo, fé pública, ou a propriedade. (art. 1.011, § 1º, CC/2002).

CLÁUSULA DÉCIMA SEGUNDA

Nas omissões deste contrato, a sociedade será regida supletivamente pelas regras das sociedades simples. (Art. 1.053 – CC/2002 – Lei 10.406/02).

Fica eleito o foro de Brasília-DF, para o exercício e o cumprimento dos direitos e obrigações resultantes deste contrato.

E, estando os sócios justos e contratados, assinam o presente instrumento.

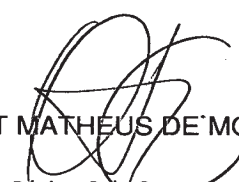
Brasília-DF, 20 de Março de 2018


ANDRÉ LUIZ ALVES DE OLIVEIRA


4º OFÍCIO DE NOTAS DO DF


ANDRÉ GONÇALVES BELLO


4º OFÍCIO DE NOTAS DO DF


HEBERT MATHEUS DE MOURA


4º OFÍCIO DE NOTAS DO DF

Página 6 de 6

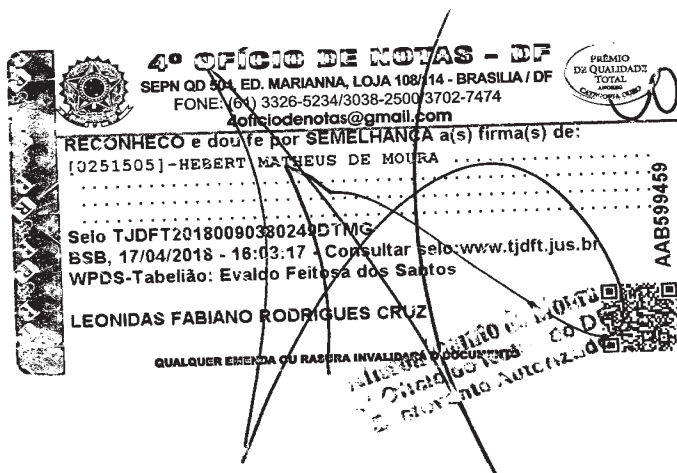


Junta Comercial do Distrito Federal

Certifico registro sob o nº 1060923 em 20/04/2018 da Empresa ARVVO TECNOLOGIA, CONSULTORIA E SERVICOS LTDA, Nire 53202085027 e protocolo 181248387 - 18/04/2018. Autenticação: 6A2D51CD6FF7919DB4D6231FC470FA768281EDFC. Saulo Izidorio Vieira - Secretário-Geral. Para validar este documento, acesse <http://jcdf.mdic.gov.br> e informe nº do protocolo 18/124.838-7 e o código de segurança SSYX Esta cópia foi autenticada digitalmente e assinada em 26/04/2018 por Saulo Izidorio Vieira – Secretário-Geral.


SAULO IZIDORIO VIEIRA
SECRETÁRIO GERAL

pág. 8/9



Junta Comercial do Distrito Federal

Certifico registro sob o nº 1060923 em 20/04/2018 da Empresa ARVVO TECNOLOGIA, CONSULTORIA E SERVICOS LTDA, Nire 53202085027 e protocolo 181248387 - 18/04/2018. Autenticação: 6A2D51CD6FF7919DB4D6231FC470FA768281EDFC. Saulo Izidorio Vieira - Secretário-Geral. Para validar este documento, acesse <http://jcdf.mdic.gov.br> e informe nº do protocolo 18/124.838-7 e o código de segurança SSYX Esta cópia foi autenticada digitalmente e assinada em 26/04/2018 por Saulo Izidorio Vieira – Secretário-Geral.

Saulo Izidorio Vieira
SAULO IZIDORIO VIEIRA
SECRETÁRIO GERAL



4º OFÍCIO DE NOTAS - DF

SEPN QD 504, ED. MARIANA, LOJA 108/114 - BRASÍLIA / DF
FONE: (61) 3326-5234/3038-2500/3702-7474

4oficiodenotas@gmail.com

AUTENTICAÇÃO

Confere com o original. (Lei n. 8.935/94)
Tabelião: Evairdo Feitosa dos Santos
Brasília-DF, 16 de Maio de 2018
AROLDO DE SOUZA ARAUJO
ESCREVENTE AUTORIZADO
137-Consultar selos: www.tjdft.jus.br
Selo: TJDFT20180090480373DHQU

QUALQUER EMENDA OU RASURA INVALIDARÁ O DOCUMENTO



PREMIO
DE QUALIDADE
TOTAL
CERTIFICADO

Letras Fabiano R. Cruz
4º Ofício de Notas de Brasília DF
Escritório Autorizado



REPUBLICA FEDERATIVA DO BRASIL

DISTRITO FEDERAL
SECRETARIA DE ESTADO DE SEGURANÇA PÚBLICA
POLÍCIA CIVIL
DPT - INSTITUTO DE IDENTIFICAÇÃO

Polígono Direito

ASSINATURA DO TITULAR

CARTEIRA DE IDENTIDADE

CONFIRMAR

VÁLIDA EM TODO O TERRITÓRIO NACIONAL

REGISTRO
GERAL
NOME

1.841.582

23/02/2015

ANDRÉ GONÇALVES BELLO

IDENTICAÇÃO
FERNANDO RUDINI BELLO
ROSELENE MARIA GONÇALVES BELLO
NATURALIDADE
BRASÍLIA / DF

DATA DE NASCIMENTO
06/02/1982

C.O.A.S./AV.DIV. 021253.01.55.2009.2.00075.087.00022189.31 (05/11/2013)
BRASÍLIA - DF

699.678.141-87

43524875

NH 04

LEI Nº 7.116 DE 29/08/83

CONFIRMAR

REPUBLICA FEDERATIVA DO BRASIL
MINISTÉRIO DAS CIDADES
DEPARTAMENTO NACIONAL DE TRÂNSITO
CARTEIRA NACIONAL DE HABILITAÇÃO

DF

VALIDA EM TODO O TERRITÓRIO NACIONAL
1798643945

PROIBIDO PLASTIFICAR
1798643945

NOME
ANDRE LUIZ ALVES DE OLIVEIRA

DOC. IDENTIDADE / ÓRG. EMISSOR / UF
1685233 SSP DF

CPF
705.590.401-30

DATA NASCIMENTO
25/03/1980

FILIAÇÃO
EDSON ALVES DE OLIVEIRA
MARIA ZENITE ALVES DE OLIVEIRA

PERMISSÃO
ACC
CAT. HAB.
B

Nº REGISTRO
00362719178

VALIDADE
02/01/2024

1ª HABILITAÇÃO
26/08/1998

OBSERVAÇÕES

ASSINATURA DO PORTADOR

LOCAL
BRASILIA-DISTRITO FEDERAL, DF

DATA EMISSÃO
18/01/2019

ASSINATURA DO EMISSOR
20342864778
DF757505414

DISTRITO FEDERAL

4º OFÍCIO DE NOTAS - DF

SEPN QD 504, ED. MARIANNA, LOJA 108/114 - BRASILIA / DF
FONE: (61) 3326-5234/3038-2500/3702-7474
4oficiodenotas@gmail.com

PREMIO DE QUALIDADE TOTAL
ANOS 2019
CATEGORIA FOM

AUTENTICAÇÃO

Confere com o original. (Lei n. 8.935/94)
Tabelião: Evaldo Feitosa dos Santos
Brasília-DF, 11 de Fevereiro de 2019
ALISSON JACINTO DE MOURA
ESCREVENTE AUTORIZADO
159-Consultar selos: www.tjdft.jus.br
Selo: TJDFT20190090123101XFEC

QUALQUER EMENDA OU RASURA INVALIDARÁ O DOCUMENTO

Ofício de Notas de Brasília-DF
DOCUMENTO AUTENTICADO



REPÚBLICA FEDERATIVA DO BRASIL
MINISTÉRIO DAS CIDADES
DEPARTAMENTO NACIONAL DE TRANSITO
CARTEIRA NACIONAL DE HABILITAÇÃO

VALIDA EM TODO O TERRITÓRIO NACIONAL
1070998107

NOME
HERBERT MATHEUS DE MOURA

DOC. IDENTIDADE / ÓRG. EMISSOR / UF
1529891 SSP DF

CPF
691.641.851-68

DATA NASCIMENTO
29/01/1977

FILIAÇÃO
MARCOS ANTONIO PEREIRA
MOURA
MARIA APARECIDA DE
MOURA

PERMISSÃO
ACC
CAT. HAB.
B

Nº REGISTRO
00037103748

VALIDADE
02/04/2020

1ª HABILITAÇÃO
10/06/1995

OBSERVAÇÕES

ASSINATURA DO PORTADOR

LOCAL
BRASILIA-DISTRITO FEDERAL, DF

DATA EMISSÃO
13/04/2015

Jayme Amorim de Sousa
Diretor Geral do EMISSOR

42066260351
DF741138310

DETRAN-DF (DISTRITO FEDERAL)

PROIBIDO PLASTIFICAR
1070998107

4º OFÍCIO DE NOTAS - DF
SEPN QD 504, ED. MARIANNA, LOJA 108/114 - BRASILIA / DF
FONE: (61) 3326-5234/3038-2500/3702-7474
4oficiodenotas@gmail.com

PRÊMIO DE QUALIDADE TOTAL
Selo de Qualidade

AUTENTICAÇÃO

Confere com o original. (Lei n. 8.935/94)
Tabelião: Evaldo Feitosa dos Santos
Brasília-DF, 12 de Abril de 2018
LUIZ SOARES FEITOSA
ESCREVENTE AUTORIZADO
155-Consultar selos: www.tjdft.jus.br
Selo: TJDFT20180090365757KVNJ

QUALQUER EMENDA OU RASURA INVALIDARÁ O DOCUMENTO

Luiz Soares Feitosa
Ofício de Notas de Brasília DF
Escritório Autorizado

AAB52145



ATESTADO DE CAPACIDADE TÉCNICA

Atestamos para os devidos fins que a empresa **ARVVO TECNOLOGIA, CONSULTORIA E SERVIÇOS LTDA**, CNPJ 25.359.140/0001-81 estabelecida à SHN Quadra 1, Conjunto A, Bloco A, Salas 1.114 e 1.115, forneceu para este TRIBUNAL DE CONTAS DO ESTADO DE GOIÁS – TCE-GO, CNPJ 02.291.730/0001-14 sediado na Avenida Ubirajara Berocan Leite, nº 640, Setor Jaó, Goiânia/GO, solução integrada de backup com equipamentos e garantia evolutiva, contendo:

- Fornecimento de solução integrada de backup com Appliance (módulo Principal de Armazenamento da Solução Integrada de Backup) com uso de sistema de armazenamento de backup em disco (4 Terabytes), com processamento e armazenamento integrado e console de gerenciamento, possuindo deduplicação dos dados e sistema duo processado.
- Fornecimento de solução integrada de backup, com arquitetura baseada em múltiplas camadas, incluindo deduplicação dos dados na origem e/ou destino, possuindo catálogo centralizado, com gerenciamento de múltiplos dispositivos de backup e de sistemas operacionais.
- Solução integrada de backup com proteção dos dados do Tribunal para 4 Terabytes, 96 sockets e 25 clientes.
- Garantia evolutiva da solução por 12 meses, quando necessário o fornecimento de novas versões e/ou releases corretivos de softwares/hardwares lançados, atualização a cada nova liberação de versão e release incluindo instalações e configurações de novas funcionalidades relativas à solução.

Atestamos ainda, que tais fornecimentos foram executados de acordo com os parâmetros técnicos de qualidade exigidos, no prazo pactuado, não existindo, em nossos registros, até a presente data, fatos que desabonem sua conduta e responsabilidade com as obrigações assumidas.

PROCESSO DE REFERÊNCIA: 201700047000838

Goiânia, 05 de outubro de 2017



Marcelo Augusto Pedreira Xavier

Marcelo Augusto Pedreira Xavier
Gerente de TI

informatica@tce.go.gov.br
(62) 3228-2035

50

TABELIONATO DE NOTAS DE GOIÂNIA - GOIÁS

RUA 115 - Nº 1498 - Qd. F-41 LT 192 / 194 - Setor Sul - Goiânia - GO - CEP: 74085-325

FONE: (62) 3223-1814

02051708221630094608957 - Consulte em <http://extrajudicial.tgo.jus.br/selo>

Reconheço por verdadeira a assinatura de **MARCELO AUGUSTO PEDREIRA XAVIER**. Dou fé Em Teste da Verdade.

Goiânia-GO, 06/10/2017 - 13:27:03h cs804454 *0027

Thiago Mauricio de Souza Assis-Escritor



ATESTADO DE CAPACIDADE TÉCNICA

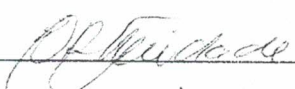
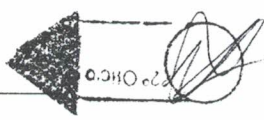
Atestamos para os devidos fins que a empresa **ARVVO TECNOLOGIA, CONSULTORIA E SERVIÇOS LTDA**, CNPJ 25.359.140/0001-81 estabelecida à SHN Quadra 1, Conjunto A, Bloco A, Salas 1.114 e 1.115, forneceu para a **FUNDAÇÃO ASSISTENCIAL DOS SERVIDORES DO MINISTÉRIO DA FAZENDA - ASSEFAZ**, CNPJ 00.628.107/0001-89 sediado no Bloco A - Nº 161, SHCS – Distrito Federal, solução integrada de proteção de dados, compreendendo ainda os serviços de instalação, configuração, manutenção, garantia evolutiva, operação assistida, suporte técnico e treinamento especializado conforme abaixo:



1. Solução integrada do **VERITAS - NETBACKUP** para a proteção de dados considerando volumetria de 70 TB e 12 sockets, com arquitetura baseada em múltiplas camadas, incluindo deduplicação dos dados na origem e/ou destino, possuindo catálogo centralizado, com gerenciamento de múltiplos dispositivos de backup e de sistemas operacionais.
2. Solução integrada de visibilidade, controle e compliance dos dados – **VERITAS INFORMATION MAP**, considerando a volumetria de 70 TB.
3. A solução de arquivamento **VERITAS - ENTERPRISE VAULT FILE SYSTEM ARCHIVING E EXCHANGE**, considerando volumetria de 70 TB e 400 usuários de e-mail.
4. Para utilização sob demanda 350 horas para operação assistida, contemplando os serviços de implementação e pós implementação, configuração, auxílio na criação e ou modificações de políticas, serviço de customização da ferramenta, migração e upgrade.
5. Suporte técnico “corretivo” ou “reativo” e “preventivo” ou “proativo” especializado para manutenção preventiva e corretiva do conjunto de softwares e hardware, sendo uma execução de serviço que ocorre à distância, no caso de suporte telefônico ou e-mail, e local no caso do o suporte presencial, contemplando as manutenções corretivas e evolutivas para a solução contratada prestados conforme níveis de serviços.
6. Treinamento especializado, contemplando instalação, configuração e troubleshooting das soluções citadas anteriormente.
7. Garantia das soluções por 24 meses, quando necessário o fornecimento de novas versões e/ou releases corretivos de softwares/hardwares lançados, atualização a cada nova liberação de versão e release incluindo instalações e configurações de novas funcionalidades relativas à solução.

Atestamos ainda, que tais fornecimentos foram executados de acordo com os parâmetros técnicos de qualidade exigidos, no prazo pactuado, não existindo, em nossos registros, até a presente data, fatos que desabonem sua conduta e responsabilidade com as obrigações assumidas

Brasília, 08 de fevereiro de 2019.

Eduardo Roberto de Souza Trindade

Coordenador de Infraestrutura e Suporte Técnico

Gerência de Tecnologia da Informação (GETI)

**2º TABELÃO DE NOTAS E PROTESTO**
BRASILIA - DISTRITO FEDERAL
TABELÃO BORGES TEIXEIRA
RANKO SIMÃO CORREIA - TABELÃO INTERINO - LUIZ SCHONARTH - TABELÃO SUBSTITUTO
ESTV. SUL - Q. 701 - CÔNCL. L. BL. 01 - LOJA 2A - ANDAR TERREO - CENTRO EMPRESARIAL ASSIS CHATEAUBRIAND
FONE: (61) 3225-2769 - FAX: (61) 3225-7222 / 3225-4713 - E-mail: ofico2@tjdft.jus.br - CEP 70345-900 - BRASILIA - DF

RECONHEÇO e dou/fe por SEMELHANÇA a(s) firma(s) de:
[3fRYct0] - EDUARDO ROBERTO DE SOUZA TRINDADE

TJDFT20190020DS6206EINS
Para consultar acesse: www.tjdft.jus.br
Em testemunho da verdade:
BRASILIA, 08 de Fevereiro de 2019
045 - RITA OLIDES BAIAO PERSIRA
ESCREVENTE NOTARIAL



QUALQUER EMENDA OU RASURA INVALIDARÁ O DOCUMENTO

**4º OFÍCIO DE NOTAS - DF**
SEPN QD 504, ED. MARIANNA, LOJA 108/114 - BRASILIA / DF
FONE: (61) 3326-5234/3038-2500/3702-7474
4oficiodenotas@gmail.com



AUTENTICAÇÃO

Confere com o original (Lei n. 8.935/94)
Tabelião: Evaldo Feitosa dos Santos
Brasília-DF, 11 de Fevereiro de 2019
ALISSON JACINTO DE MOURA
ESCREVENTE AUTORIZADO
159-Consultar selos: www.tjdft.jus.br
Seio: TJDFT20190090122680EQWE



QUALQUER EMENDA OU RASURA INVALIDARÁ O DOCUMENTO

ATESTADO DE CAPACIDADE TÉCNICA

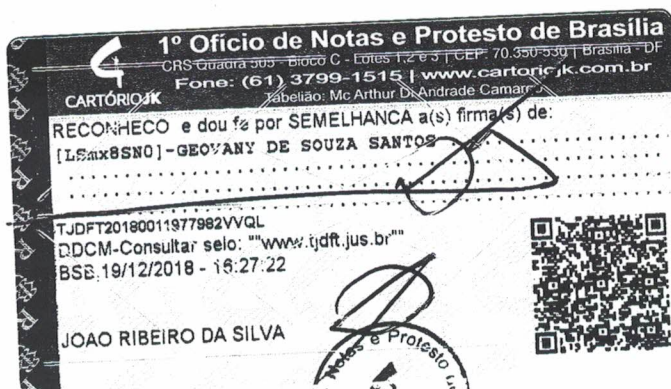
Declaramos para os devidos fins que a empresa **ARVVO TECNOLOGIA, CONSULTORIA E SERVIÇOS LTDA**, CNPJ Nº 25.359.140/0001-81, sediada no SHN Quadra 01, Bloco A, Sala 1114, Edifício Le Quartier, Asa Norte, Brasília – DF, CEP. 70.701-010; forneceu satisfatoriamente ao **Centro Brasiliense de Nefrologia**, sediada na SGAS 610, Sn, Conjunto F bloco 02 Salas de S01 a S07 e T11 a T18, Brasília-DF, inscrita no CNPJ/MF sob o nº 06.537.642/0001-00, a solução Backup Exec, do Fabricante Veritas, bem como serviços de planejamento, instalação, configuração e treinamento.

Atestamos que os Produtos e os Serviços aqui descritos, foram entregues e executados satisfatoriamente, com qualidade e com cumprimento dos prazos e cronogramas acordados, não havendo em nossos registros, fatos desabonadores à sua conduta operacional, administrativa ou capacidade técnica.

Brasília, 18 de dezembro de 2018.



Geovany de Souza Santos
Gerente de TI
Centro Brasiliense de Nefrologia
(61) 3445-1544
geovany@cbnefro.com.br



COOPERATIVA DE ECONOMIA E CRÉDITO MUTUO DOS FUNCIONÁRIOS DE INSTITUIÇÕES
FINANCEIRAS PÚBLICAS FEDERAIS LTDA
Setor Comercial Sul, Quadra 9, Torre C, 9º Andar, Ed. Parque Cidade Corporate CEP 70.308-200 – Brasília/DF

ATESTADO DE CAPACIDADE TÉCNICA

Atestamos para os devidos fins que a empresa **ARVVO TECNOLOGIA, CONSULTORIA E SERVIÇOS LTDA**, CNPJ 25.359.140/0001-81 estabelecida à SHN Quadra 1, Conjunto A, Bloco A, Salas 1.114 e 1.115, forneceu para **COOPERATIVA DE ECONOMIA E CRÉDITO MUTUO DOS FUNCIONÁRIOS DE INSTITUIÇÕES FINANCEIRAS PÚBLICAS FEDERAIS LTDA**, CNPJ 01.658.426/0001-08 sediado no Setor Comercial Sul, Quadra 9, Torre C, 9º Andar, Ed. Parque Cidade Corporate, solução integrada de backup, compreendendo ainda os serviços de instalação, configuração, manutenção, garantia e suporte técnico especializado, conforme detalhamento abaixo:

- Fornecimento de solução integrada de backup, com arquitetura baseada em múltiplas camadas, incluindo desduplicação dos dados na origem e/ou destino, possuindo catálogo centralizado, com gerenciamento de múltiplos dispositivos de backup e de sistemas operacionais.
- Prestação de serviço, instalação, configuração, sustentação, suporte, repasse de conhecimento, upgrade e/ou garantia do(s) software(s) e da solução de backup VERITAS.
- Suporte técnico “corretivo” ou “reativo” e “preventivo” ou “proativo” especializado para manutenção preventiva e corretiva do conjunto de softwares.

CONTRATO: 011/2017 DE 15/09/2017

Atestamos ainda, que tais fornecimentos foram executados de acordo com os parâmetros técnicos de qualidade exigidos, no prazo pactuado, não existindo, em nossos registros, até a presente data, fatos que desabonem sua conduta e responsabilidade com as obrigações assumidas.

Brasília, 22 de dezembro de 2017




Rui Martins Vieira Barbosa
Gerente de Sistemas e Infraestrutura





INSTITUTO BRASILEIRO DO MEIO AMBIENTE E DOS RECURSOS NATURAIS
RENOVÁVEIS

ATESTADO DE CAPACIDADE TÉCNICA Nº 1/2019

Brasília, 12 de fevereiro de 2019

Atestamos para os devidos fins que a empresa ARVVO TECNOLOGIA, CONSULTORIA E SERVIÇOS LTDA, CNPJ 25.359.140/0001-81 estabelecida à SHN Quadra 1, Conjunto A, Bloco A, Salas 1.114 e 1.115, forneceu para o INSTITUTO BRASILEIRO DO MEIO AMBIENTE E DOS RECURSOS NATURAIS RENOVÁVEIS, CNPJ 03.659.166/0001-02 sediado no SCEN - Setor de clubes ESP Norte Trecho 2 Bloco B Edifício Sede – Distrito Federal, a expansão, aquisição, sustentação de software e equipamentos do tipo appliance de Solução Integrada de proteção de dados do fabricante VERITAS, compreendendo os serviços de instalação, configuração, migração, treinamento, manutenção, garantia e suporte técnico especializado destinado à Proteção da Informação conforme abaixo:

1. Solução integrada do VERITAS - NETBACKUP para a proteção de dados considerando volumetria de 40 TB e 32 sockets, com arquitetura baseada em múltiplas camadas, incluindo deduplicação dos dados na origem e/ou destino, possuindo catálogo centralizado, com gerenciamento de múltiplos dispositivos de backup e de sistemas operacionais.
2. Solução de proteção de dados baseada em Appliance (Netbackup Appliance e Shelf de Expansão), com capacidade de 150 TB.
3. Solução integrada de visibilidade, controle e compliance dos dados – VERITAS INFORMATION MAP, considerando volumetria de 60 TB.
4. Solução de arquivamento VERITAS - ENTERPRISE VAULT FILE SYSTEM ARCHIVING E EXCHANGE, considerando volumetria de 60 TB e 1.000 usuários de e-mail.
5. Para utilização sob demanda, 250 horas para operação assistida, contemplando os serviços de implementação e pós implementação, configuração, auxílio na criação e ou modificações de políticas, serviço de customização da ferramenta, migração e upgrade.
6. Treinamento especializado, contemplando instalação, configuração e troubleshooting das soluções citadas anteriormente.
7. Suporte técnico especializado da contratada, contemplando resolução de problemas referente a softwares/hardwares, aplicativos, sistemas de informações, equipamentos e aparelhos em geral envolvidos na solução objeto da contratação.

8. Suporte Técnico especializado do fabricante, contemplando especialistas técnicos nas soluções, em regime 24x7 para todas as soluções escopo deste fornecimento.

9. Garantia das soluções citadas por 12 meses, quando necessário o fornecimento de novas versões e/ou releases corretivos de softwares/hardwares lançados, atualização a cada nova liberação de versão e release incluindo instalações e configurações de novas funcionalidades relativas à solução.



Documento assinado eletronicamente por **MARCUS THADEU DE OLIVEIRA SILVA, Coordenador-Geral**, em 12/02/2019, às 09:51, conforme horário oficial de Brasília, com fundamento no art. 6º, § 1º, do [Decreto nº 8.539, de 8 de outubro de 2015](#).



Documento assinado eletronicamente por **LUIZ EDUARDO LEAL DE CASTRO NUNES, Diretor**, em 13/02/2019, às 09:15, conforme horário oficial de Brasília, com fundamento no art. 6º, § 1º, do [Decreto nº 8.539, de 8 de outubro de 2015](#).



A autenticidade deste documento pode ser conferida no site <https://sei.ibama.gov.br/autenticidade>, informando o código verificador **4358568** e o código CRC **546EED8B**.



TRIBUNAL DE JUSTIÇA DO ESTADO DE RONDÔNIA
Rua José Camacho, 585 - Bairro Olaria - CEP 76801-330 - Porto Velho - RO - www.tjro.jus.br

ATESTADO DE CAPACIDADE TÉCNICA

Atestamos para os devidos fins que a empresa **ARVVO TECNOLOGIA, CONSULTORIA E SERVIÇOS LTDA**, CNPJ 25.359.140/0001-81 estabelecida à SHN Quadra 1, Conjunto A, Bloco A, Salas 1.114 e 1.115, forneceu ao Tribunal de Justiça do Estado de Rondônia (CNPJ n. 04.293-700/0001-72), este por intermédio do Fundo de Informatização, Edificação e Aperfeiçoamento dos Serviços Judiciários – FUJU (CNPJ n. 10.466.386/0001-85), a solução integrada de backup, compreendendo ainda os serviços de instalação, configuração, manutenção, garantia, suporte técnico especializado por meio do Contrato Simplificado nº 072/2017:

Item da Ata	Especificação	Quantidade	Valor Unitário	Valor Total
5	NetBackup Appliance 5240 4 TB. VERITAS/16509-M3	01	R\$ 285.000,00	R\$ 285.000,00
6	Garantia evolutiva do Veritas NetBackup Appliance 5240 4 TB por 12 meses. VERITAS/16509-M3-30	01	R\$ 13.830,00	R\$ 13.830,00
7	NetBackup Appliance Gaveta 5240 49 TB. VERITAS/16476-M3	03	R\$ 276.992,00	R\$ 830.976,00
8	Garantia evolutiva de licenciamento do Veritas NetBackup Appliance Gaveta 5240 49 TB por 12 meses. VERITAS/16476-M3-30	03	R\$ 16.276,00	R\$ 48.828,00
13	Garantia especializada do fabricante do conjunto de softwares Veritas NetBackup por 12 meses. VERITAS/10651-M0010	01	R\$ 210.000,00	R\$ 210.000,00
Total				R\$1.388.634,00

Informamos, ainda, de acordo com a referida prestação, que a empresa supramencionada forneceu satisfatoriamente o objeto conforme pactuado, e que, até esta data, não há no cadastro de fornecedores deste Poder registro de qualquer fato que desabone sua conduta e responsabilidade com as obrigações assumidas.

Porto Velho/RO, 16 de janeiro de 2018.


Sidnei Roberto Feliciano da Silva

Secretário de TIC



Documento assinado eletronicamente por **SIDNEI ROBERTO FELICIANO DA SILVA**, Secretário (a) de TIC, em 16/01/2018, às 17:38, conforme art. 1º, III, "b", da Lei 11.419/2006.



A autenticidade do documento pode ser conferida no site http://sei.tjro.jus.br/sei/controlador_externo.php?acao=documento_conferir&id_orgao_acesso_externo=1 informando o código verificador **0523755** e o código CRC **C2E3CE36**.



TRIBUNAL DE JUSTIÇA DO ESTADO DE RONDÔNIA
Rua José Camacho - Bairro Olaria - CEP 76800-000 - Porto Velho - RO - www.tjro.jus.br

ATESTADO DE CAPACIDADE TÉCNICA

Atestamos para os devidos fins que a empresa **ARVVO TECNOLOGIA, CONSULTORIA E SERVIÇOS LTDA**, CNPJ 25.359.140/0001-81 estabelecida à SHN Quadra 1, Conjunto A, Bloco A, Salas 1.114 e 1.115, forneceu para este **TRIBUNAL DE JUSTIÇA DO ESTADO DE RONDÔNIA**, CNPJ 04.293.700/0001-72 sediado na Rua José Camacho, n. 585, Bairro Olaria, Porto Velho/RO, solução integrada de backup, compreendendo ainda os serviços de instalação, configuração, manutenção, garantia e suporte técnico especializado, conforme detalhamento abaixo:

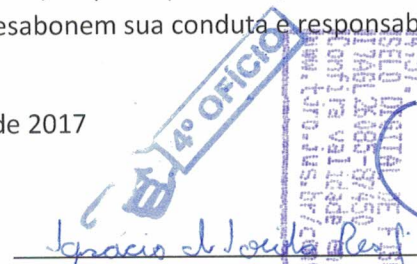
- Fornecimento de solução integrada de backup, com arquitetura baseada em múltiplas camadas, incluindo deduplicação dos dados na origem e/ou destino, possuindo catálogo centralizado, com gerenciamento de múltiplos dispositivos de backup e de sistemas operacionais.
- A solução integrada de backup fornece proteção dos dados do Tribunal para 60 Terabytes, 64 sockets e 9 clientes.
- Garantia evolutiva da solução por 12 meses, quando necessário o fornecimento de novas versões e/ou releases corretivos de softwares/hardwares lançados, atualização a cada nova liberação de versão e release incluindo instalações e configurações de novas funcionalidades relativas à solução.
- Suporte técnico “corretivo” ou “reativo” e “preventivo” ou “proativo” especializado para manutenção preventiva e corretiva do conjunto de softwares, sendo uma execução de serviço que ocorre à distância, no caso de suporte telefônico ou e-mail, e local no caso do suporte presencial, contemplando as manutenções corretivas e evolutivas para a solução contratada prestados conforme níveis de serviços.

CONTRATO: 036/2017 DE 15/05/2017

PROCESSO: 0007182-17.2017.8.22.8000

Atestamos ainda, que tais fornecimentos foram executados de acordo com os parâmetros técnicos de qualidade exigidos, no prazo pactuado, não existindo, em nossos registros, até a presente data, fatos que desabonem sua conduta e responsabilidade com as obrigações assumidas.

Rondônia, 05 de outubro de 2017


Ignácio de Loiola Reis Júnior
Analista Judiciário
Gestor do Contrato

4. OFÍCIO DE NOTAS E REGISTRO CIVIL
AV. D. PEDRO II, 1039, 2º ANDAR, CAMPO NOVO
PORTO VELHO - RO

Reconhecimento e (s) firma(s) por autenticidade
sem valor econômico

10171633-10MARCOS DE LOIOLA REIS JÚNIOR
Em testemunha da verdade:
PORTO VELHO, 05 de outubro de 2017.

043-14134-10MARCOS DE LOIOLA REIS JÚNIOR
ANALISTA JUDICIÁRIO

U. Unit: R\$ 748,940 R\$ 1,02 (100)
R\$ 0,30. FUNDEP: R\$ 0,19. FUNDEP:
R\$ 0,19. FUNDEP: R\$ 0,19. TOTAL: R\$ 1,57.

SELO DATA DE FISCALIZAÇÃO
17/08/2018-07450
Comfins vai 123456
www.tjro.jus.br/cg/suporte

Veritas NetBackup [™] 8.0 - 8.x.x Database and Application Agent Compatibility List

Created on June 05, 2018

Introduction

This Software Compatibility List (SCL) document describes the supported database and application agents for Veritas NetBackup 8.0 through 8.x

For all other NetBackup compatibility lists, refer to [<http://www.veritas.com/docs/000033647>](http://www.veritas.com/docs/000033647)

IPv6 and Dual Stack environments are supported from NetBackup 8.1.1 onwards with few limitations, refer technote for additional information [<http://www.veritas.com/docs/100041420>](http://www.veritas.com/docs/100041420)

Database and application patch support: Major versions of database software have been qualified in Veritas Labs and are listed in the tables below. NetBackup supports minor versions, service packs, and patches of database software unless otherwise noted, with the exception of Microsoft Exchange, Microsoft SharePoint and Microsoft SQL Server.

Linux support: For Linux distributions shown in the tables below, NetBackup is supported on all "editions" and on all vendor GA updates (n.1, n.2, etc.) or service packs (SP1, SP2, etc.) unless otherwise noted in this document or in the NetBackup OS Compatibility List, [<http://www.veritas.com/docs/000040842.>](http://www.veritas.com/docs/000040842)

Database Appliances: 3rd party database hardware appliances are supported if the appliance OS/architecture and database software are listed in the Veritas NetBackup OS compatibility list [<http://www.veritas.com/docs/000040842>](http://www.veritas.com/docs/000040842) and in the Database and Application Agent compatibility list (this document). For example, some Oracle Exadata and Exalogic models are supported based upon this support statement. Please consult the vendor documentation to identify the embedded software versions.

End of life information: More information is available about certain NetBackup features, functionality, 3rd-party product integration, Veritas product integration, applications, databases, and OS platforms that Veritas intends to replace with newer and improved functionality, or in some cases, discontinue without replacement. Please see the SORT widget titled "NetBackup Future Platform and Feature Plans" at [<https://sort.veritas.com/netbackup.>](https://sort.veritas.com/netbackup.>)

8.0 - 8.x.x Database and Application Agent Software Compatibility List Updates

Update Information

Description of Change	Date	NetBackup Version Start of Support
Added support for Apache HBase	2018-4-30	NetBackup 8.1.1
Added support for SQLite	2018-1-26	NetBackup 8.1
Added support for MariaDB	2017-12-22	NetBackup 8.1
Added support for PostgreSQL	2017-11-17	NetBackup 8.1
Added support for MySQL 5	2017-10-25	NetBackup 8.1
Added support for Apache Hadoop	2017-10-25	NetBackup 8.1
Added support for SAP ASE 16 SP2	2017-09-22	NetBackup 8.1
Added support for IBM DB2 11.1	2017-02-01	NetBackup 8.0
Added support for Enterprise Vault 12	2016-12-05	NetBackup 8.0
NetBackup GA	2016-12-05	NetBackup 8.0

Database Agents

The sections below contain information that is related to specific database agents and OS platforms.

SAP

The NetBackup SAP Agent protects SAP Oracle environments by integrating with SAP BR*Tools. SAP BR*Tools may have a separate version from the SAP Kernel. Reference Technical Solution 51094 for details <<http://www.veritas.com/docs/000033132>>

SAP environments based on Microsoft SQL or DB2 databases are supported via the NetBackup Microsoft SQL and DB2 agents respectively.

SAP supports Oracle and MAX-DB base environments.

Windows Server 2008

When using a 32-bit OS on a x64 CPU the DB Agent is supported if the x86 CPU is listed in this compatibility list.

Apache Hadoop

The supported Hadoop Versions listed below refer to native Apache Software Foundation open source releases of the Apache Hadoop Project. Only software officially released by the Apache Hadoop Project can be called Apache Hadoop or Distributions of Apache Hadoop. Any modifications or derivations to these original distribution releases is not officially supported.

Apache Hadoop - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
Hadoop	2.8.1	64	Red Hat Enterprise Linux 7	x86-64	64	8.1
Hadoop	2.8.1	64	Red Hat Enterprise Linux 6	x86-64	64	8.1
Hadoop	2.8.1	64	SUSE Linux Enterprise Server 12	x86-64	64	8.1
Hadoop	2.8.1	64	SUSE Linux Enterprise Server 11	x86-64	64	8.1
Hadoop	2.7.4	64	Red Hat Enterprise Linux 7	x86-64	64	8.1
Hadoop	2.7.4	64	Red Hat Enterprise Linux 6	x86-64	64	8.1
Hadoop	2.7.4	64	SUSE Linux Enterprise Server 12	x86-64	64	8.1
Hadoop	2.7.4	64	SUSE Linux Enterprise Server 11	x86-64	64	8.1
Hadoop	2.7.3	64	Red Hat Enterprise Linux 7	x86-64	64	8.1
Hadoop	2.7.3	64	Red Hat Enterprise Linux 6	x86-64	64	8.1
Hadoop	2.7.3	64	SUSE Linux Enterprise Server 12	x86-64	64	8.1
Hadoop	2.7.3	64	SUSE Linux Enterprise Server 11	x86-64	64	8.1
Hadoop	2.6.5	64	Red Hat Enterprise Linux 7	x86-64	64	8.1
Hadoop	2.6.5	64	Red Hat Enterprise Linux 6	x86-64	64	8.1
Hadoop	2.6.5	64	SUSE Linux Enterprise Server 12	x86-64	64	8.1
Hadoop	2.6.5	64	SUSE Linux Enterprise Server 11	x86-64	64	8.1
Hadoop	2.5.2	64	Red Hat Enterprise Linux 7	x86-64	64	8.1
Hadoop	2.5.2	64	Red Hat Enterprise Linux 6	x86-64	64	8.1
Hadoop	2.5.2	64	SUSE Linux Enterprise Server 12	x86-64	64	8.1
Hadoop	2.5.2	64	SUSE Linux Enterprise Server 11	x86-64	64	8.1

Note the following:

- NetBackup 8.1 does not capture Extended Attributes (xattrs) or Access Control Lists (ACLs) of an object during backup and hence these are not set on the restored files or folders.
- If the Access Control Lists (ACLs) are enabled and set on any of the files or directories that is backed up then, you have to explicitly set the ACLs on the restored data.
- The backup host can be a NetBackup 8.1 client or a 8.1 media server or a 8.1 master server. Hadoop Plugin needs to be installed on the NetBackup client or a media server or a master server to make it a Backup Host. Veritas recommends that you have media server as a backup host.
- NetBackup supports installation of the backup host in a virtual machine. The guest operating systems that NetBackup supports are same as the above.
- For a Hadoop cluster that uses Kerberos, Ensure that the Kerberos client (krb5_workstation package) is present on all the backup hosts with kdcserver details.
- NetBackup 8.1 does not support Hadoop cluster that uses Delegation token authentication

Apache HBase

The supported HBase Versions listed below refer to native Apache Software Foundation open source releases of the Apache HBase Project. Only software officially released by the Apache HBase Project can be called Apache HBase. Any modifications or derivations to these original distribution releases is not officially supported. Please refer official HBase documentation for HDFS and Operating System support.

Apache HBase - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
HBase	2.0	64	Red Hat Enterprise Linux 7	x86-64	64	8.1.1
HBase	2.0	64	Red Hat Enterprise Linux 6	x86-64	64	8.1.1
HBase	2.0	64	SUSE Linux Enterprise Server 12	x86-64	64	8.1.1
HBase	2.0	64	SUSE Linux Enterprise Server 11	x86-64	64	8.1.1
HBase	1.3	64	Red Hat Enterprise Linux 7	x86-64	64	8.1.1
HBase	1.3	64	Red Hat Enterprise Linux 6	x86-64	64	8.1.1
HBase	1.3	64	SUSE Linux Enterprise Server 12	x86-64	64	8.1.1
HBase	1.3	64	SUSE Linux Enterprise Server 11	x86-64	64	8.1.1
HBase	1.2	64	Red Hat Enterprise Linux 7	x86-64	64	8.1.1
HBase	1.2	64	Red Hat Enterprise Linux 6	x86-64	64	8.1.1
HBase	1.2	64	SUSE Linux Enterprise Server 12	x86-64	64	8.1.1
HBase	1.2	64	SUSE Linux Enterprise Server 11	x86-64	64	8.1.1

Enterprise Vault

Note: All SQL versions supported by Enterprise Vault are supported in cluster configurations unless specifically noted in the table below. Enterprise Vault agent does not support Enterprise Vault and SQL Server in VCS environment.

Enterprise Vault Compatibility - Reference Article TECH38537: Enterprise Vault Compatability List:
<<http://www.veritas.com/docs/000097605>>

Enterprise Vault - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
Enterprise Vault	12.3 [1]	64	Windows Server 2012	x86-64	64	8.1.1
Enterprise Vault	12.3 [1]	64	Windows Server 2012 R2	x86-64	64	8.1.1
Enterprise Vault	12.3 [1]	64	Windows Server 2016	x86-64	64	8.1.1
Enterprise Vault	12.2 [2]	64	Windows Server 2012	x86-64	64	8.1
Enterprise Vault	12.2 [2]	64	Windows Server 2012 R2	x86-64	64	8.1
Enterprise Vault	12.2 [2]	64	Windows Server 2016	x86-64	64	8.1
Enterprise Vault	12.1	64	Windows Server 2012	x86-64	64	8.0
Enterprise Vault	12.1	64	Windows Server 2012 R2	x86-64	64	8.0
Enterprise Vault	12.0	64	Windows Server 2012	x86-64	64	8.0
Enterprise Vault	12.0	64	Windows Server 2012 R2	x86-64	64	8.0
Enterprise Vault	11.0 [3] [4]	64	Windows Server 2008 R2	x86-64	64	8.0
Enterprise Vault	11.0 [3] [5]	64	Windows Server 2012	x86-64	64	8.0
Enterprise Vault	11.0 [3] [4]	64	Windows Server 2012 R2	x86-64	64	8.0
Enterprise Vault	10.0 [6] [7]	32	Windows Server 2008 R2	x86-64	64	8.0
Enterprise Vault	10.0 [6] [8]	32	Windows Server 2012	x86-64	64	8.0

1. Refer article <<http://www.veritas.com/docs/100042794>> for support of Enterprise Vault 12.3
2. Refer article <<http://www.veritas.com/docs/100040487>> for support of Enterprise Vault 12.2 on this platform.
3. Enterprise Vault 11.0.1 is supported on SQL Server 2012 and SQL Server 2014.
4. Supported on SQL Server 2008 SP1, SP2, and R2 (64-bit), SQL Server 2012 (64-bit), and SQL Server 2014.

5. Supported on SQL Server 2008 SP1, SP2, and R2 (64-bit), SQL Server 2012 (64-bit), and SQL Server 2014.
6. Enterprise Vault 10.0 does not support a SQL Server in a VCS environment.
7. Supported on SQL Server 2008 SP1, SP2, and R2 (64-bit).
8. Supported on SQL Server 2012(64-bit).

IBM DB2

Minor versions, Service Packs (SP), and patches released subsequent are supported by default, unless noted otherwise. Refer to Database/Application vendor for specific Operating System requirements.

Recommend using the latest DB2 FixPaks or these minimum revisions, DB2 V8.1 FixPak 3 or later.

IBM PureScale environments are not supported.

IBM DB2 - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
DB2 UDB - EE/DPF	11.1	64	AIX 7.2	POWER	64	8.0
DB2 UDB - EE/DPF	11.1	64	AIX 7.1	POWER	64	8.0
DB2 UDB - EE/DPF	11.1	64	Red Hat Enterprise Linux 7	x86-64	64	8.0
DB2 UDB - EE/DPF	11.1	64	Red Hat Enterprise Linux 6	x86-64	64	8.0
DB2 UDB - EE/DPF	11.1	64	SUSE Linux Enterprise Server 12	x86-64	64	8.0
DB2 UDB - EE/DPF	11.1	64	SUSE Linux Enterprise Server 11	x86-64	64	8.0
DB2 UDB - EE/DPF	11.1	64	Windows Server 2012	x86-64	64	8.0
DB2 UDB - EE/DPF	11.1	64	Windows Server 2012 R2	x86-64	64	8.0
DB2 UDB - EE/DPF	10.5	64	AIX 7.1	POWER	64	8.0
DB2 UDB - EE/DPF	10.5	64	AIX 6.1	POWER	64	8.0
DB2 UDB - EE/DPF	10.5	64	HP-UX 11.31	IA64	64	8.0
DB2 UDB - EE/DPF	10.5	64	Red Hat Enterprise Linux 7	x86-64	64	8.0
DB2 UDB - EE/DPF	10.5	64	Red Hat Enterprise Linux 7	z/Architecture	64	8.0
DB2 UDB - EE/DPF	10.5	64	Red Hat Enterprise Linux 6	x86-64	64	8.0
DB2 UDB - EE/DPF	10.5	64	Red Hat Enterprise Linux 6	z/Architecture	64	8.0
DB2 UDB - EE/DPF	10.5	64	Solaris 10	SPARC	64	8.0
DB2 UDB - EE/DPF	10.5	64	Solaris 10	x86-64	64	8.0
DB2 UDB - EE/DPF	10.5	64	SUSE Linux Enterprise Server 12	x86-64	64	8.0

IBM DB2 - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
DB2 UDB - EE/DPF	10.5	64	SUSE Linux Enterprise Server 12	z/Architecture	64	8.0
DB2 UDB - EE/DPF	10.5	64	SUSE Linux Enterprise Server 11	x86-64	64	8.0
DB2 UDB - EE/DPF	10.5	64	SUSE Linux Enterprise Server 11	z/Architecture	64	8.0
DB2 UDB - EE/DPF	10.5	64	Windows Server 2008 R2	x86-64	64	8.0
DB2 UDB - EE/DPF	10.5	64	Windows Server 2012	x86-64	64	8.0
DB2 UDB - EE/DPF	10.5	64	Windows Server 2012 R2	x86-64	64	8.0
DB2 UDB - EE/DPF	10.1 [1]	64	AIX 7.1	POWER	64	8.0
DB2 UDB - EE/DPF	10.1 [1]	64	AIX 6.1	POWER	64	8.0
DB2 UDB - EE/DPF	10.1 [1]	64	HP-UX 11.31	IA64	64	8.0
DB2 UDB - EE/DPF	10.1 [1]	64	Red Hat Enterprise Linux 6	x86-64	64	8.0
DB2 UDB - EE/DPF	10.1 [1]	64	Red Hat Enterprise Linux 6	z/Architecture	64	8.0
DB2 UDB - EE/DPF	10.1 [1]	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
DB2 UDB - EE/DPF	10.1 [1]	64	Red Hat Enterprise Linux 5	z/Architecture	64	8.0
DB2 UDB - EE/DPF	10.1 [1]	64	Solaris 10	SPARC	64	8.0
DB2 UDB - EE/DPF	10.1 [1]	64	Solaris 10	x86-64	64	8.0
DB2 UDB - EE/DPF	10.1 [1]	64	SUSE Linux Enterprise Server 11	x86-64	64	8.0
DB2 UDB - EE/DPF	10.1 [1]	64	SUSE Linux Enterprise Server 11	z/Architecture	64	8.0
DB2 UDB - EE/DPF	10.1 [1]	64	Windows Server 2008	x86-64	64	8.0
DB2 UDB - EE/DPF	10.1 [1]	64	Windows Server 2008 R2	x86-64	64	8.0
DB2 UDB - EE/DPF	10.1 [1]	64	Windows Server 2012	x86-64	64	8.0
DB2 UDB - EE/DPF	9.7 [1]	64	AIX 7.1	POWER	64	8.0
DB2 UDB - EE/DPF	9.7 [1]	64	AIX 6.1	POWER	64	8.0
DB2 UDB - EE/DPF	9.7 [1]	64	HP-UX 11.31	IA64	64	8.0
DB2 UDB - EE/DPF	9.7 [1]	64	Red Hat Enterprise Linux 6	x86-64	64	8.0
DB2 UDB - EE/DPF	9.7 [1]	64	Red Hat Enterprise Linux 6	z/Architecture	64	8.0
DB2 UDB - EE/DPF	9.7 [1]	64	Red Hat Enterprise Linux 5	x86-64	64	8.0

IBM DB2 - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
DB2 UDB - EE/DPF	9.7 [1]	64	Red Hat Enterprise Linux 5	z/Architecture	64	8.0
DB2 UDB - EE/DPF	9.7 [1]	64	Solaris 10	SPARC	64	8.0
DB2 UDB - EE/DPF	9.7 [1]	64	SUSE Linux Enterprise Server 11	x86-64	64	8.0
DB2 UDB - EE/DPF	9.7 [1]	64	SUSE Linux Enterprise Server 11	z/Architecture	64	8.0
DB2 UDB - EE/DPF	9.7 [1]	32	Windows Server 2008	x86-32	32	8.0
DB2 UDB - EE/DPF	9.7 [1]	64	Windows Server 2008	x86-64	64	8.0
DB2 UDB - EE/DPF	9.7 [1]	64	Windows Server 2008 R2	x86-64	64	8.0
DB2 UDB - EE/DPF	9.5 [1]	64	Red Hat Enterprise Linux 6	z/Architecture	64	8.0
DB2 UDB - EE/DPF	9.5 [1]	64	Red Hat Enterprise Linux 5	z/Architecture	64	8.0
DB2 UDB - EE/DPF	9.5 [1]	64	SUSE Linux Enterprise Server 11	z/Architecture	64	8.0
DB2 UDB - EE/EEE	9.5 [1]	64	AIX 7.1	POWER	64	8.0
DB2 UDB - EE/EEE	9.5 [1]	64	AIX 6.1	POWER	64	8.0
DB2 UDB - EE/EEE	9.5 [1]	64	HP-UX 11.31	IA64	64	8.0
DB2 UDB - EE/EEE	9.5 [1]	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
DB2 UDB - EE/EEE	9.5 [1]	64	Solaris 10	SPARC	64	8.0
DB2 UDB - EE/EEE	9.5 [1]	64	Solaris 10	x86-64	64	8.0
DB2 UDB - EE/EEE	9.5 [1]	64	SUSE Linux Enterprise Server 11	x86-64	64	8.0
DB2 UDB - EE/EEE	9.5 [1]	32	Windows Server 2008	x86-32	32	8.0
DB2 UDB - EE/EEE	9.5 [1]	64	Windows Server 2008	x86-64	64	8.0
DB2 UDB - EE/EEE	9.1 [1]	64	AIX 6.1	POWER	64	8.0
DB2 UDB - EE/EEE	9.1 [1]	64	HP-UX 11.31	IA64	64	8.0
DB2 UDB - EE/EEE	9.1 [1]	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
DB2 UDB - EE/EEE	9.1 [1]	64	Solaris 10	SPARC	64	8.0
DB2 UDB - EE/EEE	9.1 [1]	64	SUSE Linux Enterprise Server 11	x86-64	64	8.0
DB2 UDB - EE/EEE	9.1 [1]	32	Windows Server 2008	x86-32	32	8.0
DB2 UDB - EE/EEE	9.1 [1]	64	Windows Server 2008	x86-64	32	8.0

1. NetBackup 8.1 and later does not support this version of DB2.

IBM Informix

Minor versions, Service Packs (SP), and patches released subsequent are supported by default, unless noted otherwise. Refer to Database/Application vendor for specific Operating System requirements.

IBM Informix - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
Informix IDS	12.1 [1]	64	AIX 7.2	POWER	64	8.0
Informix IDS	12.1	64	AIX 7.1	POWER	64	8.0
Informix IDS	12.1	64	AIX 6.1	POWER	64	8.0
Informix IDS	12.1	64	HP-UX 11.31	IA64	64	8.0
Informix IDS	12.1 [2]	64	Red Hat Enterprise Linux 7	x86-64	64	8.0
Informix IDS	12.1	64	Red Hat Enterprise Linux 6	x86-64	64	8.0
Informix IDS	12.1	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
Informix IDS	12.1	64	Solaris 11	SPARC	64	8.0
Informix IDS	12.1	64	Solaris 11	x86-64	64	8.0
Informix IDS	12.1	64	Solaris 10	SPARC	64	8.0
Informix IDS	12.1	64	Solaris 10	x86-64	64	8.0
Informix IDS	12.1 [2]	64	SUSE Linux Enterprise Server 12	x86-64	64	8.0
Informix IDS	12.1	64	SUSE Linux Enterprise Server 11	x86-64	64	8.0
Informix IDS	11.7	64	AIX 7.1	POWER	64	8.0
Informix IDS	11.7	64	AIX 6.1	POWER	64	8.0
Informix IDS	11.7	64	HP-UX 11.31	IA64	64	8.0
Informix IDS	11.7	64	Red Hat Enterprise Linux 6	x86-64	64	8.0
Informix IDS	11.7	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
Informix IDS	11.7	64	Solaris 11	SPARC	64	8.0
Informix IDS	11.7	64	Solaris 11	x86-64	64	8.0

IBM Informix - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
Informix IDS	11.7	64	Solaris 10	SPARC	64	8.0
Informix IDS	11.7	64	Solaris 10	x86-64	64	8.0
Informix IDS	11.5	64	AIX 6.1	POWER	64	8.0
Informix IDS	11.5	64	HP-UX 11.31	IA64	64	8.0
Informix IDS	11.5	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
Informix IDS	11.5	64	Solaris 10	SPARC	64	8.0
Informix IDS	11.5	64	Solaris 10	x86-64	64	8.0
Informix IDS	11.1	64	AIX 6.1	POWER	64	8.0
Informix IDS	11.1	64	HP-UX 11.31	IA64	64	8.0
Informix IDS	11.1	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
Informix IDS	11.1	64	Solaris 10	SPARC	64	8.0
Informix IDS	10	64	AIX 6.1	POWER	64	8.0
Informix IDS	10	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
Informix IDS	10	64	Solaris 10	SPARC	64	8.0
Informix IDS	9.4	64	Solaris 10	SPARC	64	8.0
Informix IDS	7.31	64	Solaris 10	SPARC	64	8.0
Informix XPS	8.51	64	Solaris 10	SPARC	64	8.0
Informix XPS	8.5	64	HP-UX 11.31	IA64	64	8.0
Informix XPS	8.5	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
Informix XPS	8.5	64	Solaris 10	SPARC	64	8.0

1. Informix 12.1 FC8 and above is supported from NetBackup 7.7.3.

2. Informix 12.1 FC1 to FC5 and FC7 is supported.

IBM Lotus Domino

Minor versions, Service Packs (SP), and patches released subsequent are supported by default, unless noted otherwise. Refer to Database/Application vendor for specific Operating System requirements.

IBM Lotus Domino - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
Domino	9.0 [1]	64	AIX 7.2	POWER	64	8.0
Domino	9.0	64	AIX 7.1	POWER	64	8.0
Domino	9.0 [2]	64	Red Hat Enterprise Linux 7	x86-64	64	8.0
Domino	9.0	64	Red Hat Enterprise Linux 6	x86-64	64	8.0
Domino	9.0 [3]	64	SUSE Linux Enterprise Server 12	x86-64	64	8.0
Domino	9.0	64	SUSE Linux Enterprise Server 11	x86-64	64	8.0
Domino	9.0	64	Windows Server 2008 R2	x86-64	64	8.0
Domino	9.0	64	Windows Server 2012	x86-64	64	8.0
Domino	9.0 [4]	64	Windows Server 2012 R2	x86-64	64	8.0
Lotus Domino	8.5	64	AIX 7.1	POWER	64	8.0
Lotus Domino	8.5 [5]	64	AIX 6.1	POWER	64	8.0
Lotus Domino	8.5 [5]	32	Windows Server 2008	x86-32	32	8.0
Lotus Domino	8.5 [5]	32	Windows Server 2008	x86-64	64	8.0
Lotus Domino	8.5 [5]	64	Windows Server 2008	x86-64	64	8.0
Lotus Domino	8.5 [5]	64	Windows Server 2008 R2	x86-64	64	8.0
Lotus Domino	8.0	64	AIX 6.1	POWER	64	8.0

1. Domino patch version 9.0.1 FP6 is required.
2. Domino patch version 9.0.1 FP2 is required.
3. Domino patch version 9.0.1 FP3 IF1 is required.
4. Domino patch version 9.0.1 is required.

5. Reference Article <<http://www.veritas.com/docs/000038147>> Using NetBackup to Protect Lotus Domino Servers that are configured to use the Domino Attachment and Object Services (DAOS)

MariaDB

Customers that have a license for the NetBackup for MariaDB agent can download the install package at:

[<https://my.veritas.com>](https://my.veritas.com)

MariaDB - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
MariaDB	10	64	Red Hat Enterprise Linux 7	x86-64	64	8.1
MariaDB	10	64	Red Hat Enterprise Linux 6	x86-64	64	8.1
MariaDB	10	64	SUSE Linux Enterprise Server 12	x86-64	64	8.1
MariaDB	10	64	SUSE Linux Enterprise Server 11	x86-64	64	8.1
MariaDB	10	64	Windows 8.1	x86-64	64	8.1
MariaDB	10	64	Windows 10	x86-64	64	8.1
MariaDB	10	64	Windows Server 2008 R2	x86-64	64	8.1
MariaDB	10	64	Windows Server 2012 R2	x86-64	64	8.1
MariaDB	10	64	Windows Server 2016	x86-64	64	8.1
MariaDB	5	64	Red Hat Enterprise Linux 6	x86-64	64	8.1
MariaDB	5	64	SUSE Linux Enterprise Server 11	x86-64	64	8.1
MariaDB	5	64	Windows Server 2008 R2	x86-64	64	8.1
MariaDB	5	64	Windows Server 2012 R2	x86-64	64	8.1

Microsoft Exchange

It is the best practice of NetBackup Quality Engineering to test the latest service packs and updates for Exchange. For any Exchange service pack (SP) supported by NetBackup, each update rollup (RU) is also supported unless otherwise noted.

Exchange Granular Recovery For Exchange GRT operations, the OS of the granular proxy host must be a version of Windows that is supported for that version of Exchange.

- **Example:** For Exchange 2010, the OS of the granular proxy host must be Windows 2008 SP2, Windows 2008 R2, or Windows 2012.
- Please refer to the Database/Application vendor for specific Operating System requirements.

Microsoft Exchange - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
Exchange	2016 CU9 [1]	64	Windows Server 2012	x86-64	64	8.0
Exchange	2016 CU9 [1]	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2016 CU9 [1]	64	Windows Server 2016	x86-64	64	8.0
Exchange	2016 CU8 [1]	64	Windows Server 2012	x86-64	64	8.0
Exchange	2016 CU8 [1]	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2016 CU8 [1]	64	Windows Server 2016	x86-64	64	8.0
Exchange	2016 CU7 [1]	64	Windows Server 2012	x86-64	64	8.0
Exchange	2016 CU7 [1]	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2016 CU7 [1]	64	Windows Server 2016	x86-64	64	8.0
Exchange	2016 CU6 [1]	64	Windows Server 2012	x86-64	64	8.0
Exchange	2016 CU6 [1]	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2016 CU6 [1]	64	Windows Server 2016	x86-64	64	8.0
Exchange	2016 CU5 [1]	64	Windows Server 2012	x86-64	64	8.0
Exchange	2016 CU5 [1]	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2016 CU5 [1]	64	Windows Server 2016	x86-64	64	8.0
Exchange	2016 CU4	64	Windows Server 2012	x86-64	64	8.0

Microsoft Exchange - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
Exchange	2016 CU4	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2016 CU4	64	Windows Server 2016	x86-64	64	8.0
Exchange	2016 CU3	64	Windows Server 2012	x86-64	64	8.0
Exchange	2016 CU3	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2016 CU2	64	Windows Server 2012	x86-64	64	8.0
Exchange	2016 CU2	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2016 CU1	64	Windows Server 2012	x86-64	64	8.0
Exchange	2016 CU1	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2016	64	Windows Server 2012	x86-64	64	8.0
Exchange	2016	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2013 SP1	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013 SP1	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013 SP1	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2013 CU20 [1]	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013 CU20 [1]	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013 CU20 [1]	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2013 CU19 [1]	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013 CU19 [1]	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013 CU19 [1]	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2013 CU18 [1]	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013 CU18 [1]	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013 CU18 [1]	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2013 CU17 [1]	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013 CU17 [1]	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013 CU17 [1]	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2013 CU16	64	Windows Server 2008 R2	x86-64	64	8.0

Microsoft Exchange - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
Exchange	2013 CU16	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013 CU16	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2013 CU15	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013 CU15	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013 CU15	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2013 CU14	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013 CU14	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013 CU14	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2013 CU13	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013 CU13	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013 CU13	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2013 CU12	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013 CU12	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013 CU12	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2013 CU11 [2]	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013 CU11 [2]	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013 CU11 [2]	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2013 CU10	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013 CU10	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013 CU10	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2013 CU9	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013 CU9	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013 CU9	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2013 CU8	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013 CU8	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013 CU8	64	Windows Server 2012 R2	x86-64	64	8.0

Microsoft Exchange - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
Exchange	2013 CU7	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013 CU7	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013 CU7	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2013 CU6	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013 CU6	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013 CU6	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2013 CU5	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013 CU5	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013 CU5	64	Windows Server 2012 R2	x86-64	64	8.0
Exchange	2013 CU3	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013 CU3	64	Windows Server 2012	x86-64	64	8.0
Exchange	2013	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2013	64	Windows Server 2012	x86-64	64	8.0
Exchange	2010 SP3	64	Windows Server 2008 SP2	x86-64	64	8.0
Exchange	2010 SP3	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2010 SP3	64	Windows Server 2012	x86-64	64	8.0
Exchange	2010 SP2	64	Windows Server 2008 SP2	x86-64	64	8.0
Exchange	2010 SP2	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2010 SP1	64	Windows Server 2008 SP2	x86-64	64	8.0
Exchange	2010 SP1	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2010	64	Windows Server 2008 SP2	x86-64	64	8.0
Exchange	2010	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2007 SP3 [3]	64	Windows Server 2008	x86-64	64	8.0
Exchange	2007 SP3 [3]	64	Windows Server 2008 R2	x86-64	64	8.0
Exchange	2007 SP2 [3]	64	Windows Server 2008	x86-64	64	8.0
Exchange	2007 SP1 [3]	64	Windows Server 2008	x86-64	64	8.0

1. Please refer to Technote <<https://www.veritas.com/docs/000126742>> for workaround.
2. Please refer to Technote <<http://www.veritas.com/docs/000107463>> for workaround.
3. NetBackup 8.1 and later does not support this operating system on this CPU architecture.

Microsoft SharePoint

It is the best practice of NetBackup Quality Engineering to test the latest Service Pack for SharePoint. Supported Service Packs are listed in the table below.

SharePoint Granular Recovery

All of the configurations are supported for SharePoint Server Granular Recovery unless otherwise noted.

All Microsoft SQL Server Service Packs (SP) are not explicitly qualified and are supported by default, unless noted.

AlwaysOn Availability Groups (AGs) are not supported at this time.

Refer to the Database/Application vendor for specific Operating System requirements.

Microsoft SharePoint - Supported Configurations

Database Software	Version	DB Bit	SQL Server Version	OS	CPU Architecture	OS Bit	Start of Support
SharePoint	2016 [1]	64	2014, 2016	Windows Server 2012 R2	x86-64	64	8.0
SharePoint	2016	64	2014, 2016	Windows Server 2016	x86-64	64	8.0
SharePoint	2013 SP1	64	2008 R2, 2012, 2014	Windows Server 2008 R2	x86-64	64	8.0
SharePoint	2013 SP1	64	2008 R2, 2012, 2014	Windows Server 2012	x86-64	64	8.0
SharePoint	2013 SP1	64	2008 R2, 2012, 2014	Windows Server 2012 R2	x86-64	64	8.0
SharePoint	2013	64	2008 R2, 2012, 2014	Windows Server 2008 R2 SP2	x86-64	64	8.0
SharePoint	2013	64	2008 R2, 2012, 2014	Windows Server 2012	x86-64	64	8.0
SharePoint	2010 SP2	64	2008 R2, 2012	Windows Server 2008 R2	x86-64	64	8.0
SharePoint	2010 SP2	64	2008 R2, 2012	Windows Server 2012	x86-64	64	8.0
SharePoint	2010 SP1	64	2008, 2008 R2	Windows Server 2008 SP2	x86-64	64	8.0
SharePoint	2010 SP1	64	2008, 2008 R2, 2012	Windows Server 2008 R2	x86-64	64	8.0
SharePoint	2010	64	2008, 2008 R2	Windows Server 2008 SP2	x86-64	64	8.0
SharePoint	2010	64	2008, 2008 R2	Windows Server 2008 R2	x86-64	64	8.0
SharePoint	2007 SP3 [2]	32	2008, Express	Windows Server 2008	x86-32	32	8.0
SharePoint	2007 SP3 [2]	64	2008, Express	Windows Server 2008	x86-64	64	8.0
SharePoint	2007 SP3 [2]	64	2008, Express	Windows Server 2008 R2	x86-64	64	8.0

Microsoft SharePoint - Supported Configurations

Database Software	Version	DB Bit	SQL Server Version	OS	CPU Architecture	OS Bit	Start of Support
SharePoint	2007 SP2 [2]	32	2008, Express	Windows Server 2008	x86-32	32	8.0
SharePoint	2007 SP2 [2]	64	2008, Express	Windows Server 2008	x86-64	64	8.0
SharePoint	2007 SP2 [2]	64	2008, Express	Windows Server 2008 R2	x86-64	64	8.0
SharePoint	2007 SP1 [2]	32	2008, Express	Windows Server 2008	x86-32	32	8.0
SharePoint	2007 SP1 [2]	64	2008, Express	Windows Server 2008	x86-64	64	8.0
SharePoint	2007 SP1 [2]	64	2008, Express	Windows Server 2008 R2	x86-64	64	8.0
SharePoint	2007 [2]	32	2008, Express	Windows Server 2008	x86-32	32	8.0
SharePoint	2007 [2]	64	2008, Express	Windows Server 2008	x86-64	64	8.0
SharePoint	2007 [2]	64	2008, Express	Windows Server 2008 R2	x86-64	64	8.0

1. SharePoint 2016 with SQL Server 2014 SP1 is supported..
2. NetBackup 8.1 and later does not support this operating system on this CPU architecture.

Microsoft SQL Server

NetBackup supports the following SQL Server versions and editions:

- SQL Server 2017: Enterprise, Standard, Express, Developer
- SQL Server 2016: Enterprise, Standard, Express, Developer
- SQL Server 2014: Enterprise, Standard, Express, Developer, Web, BI
- SQL Server 2012: Enterprise, Standard, Express, Business, Web
- SQL Server 2008/2008 R2: Enterprise, Standard, Express, Datacenter, Web, Workgroup

Beginning with NetBackup 7.7.2, SQL Server Intelligent Policies support SQL Server cluster environments. For information on the HA solutions that SQL Server supports, refer to your SQL Server documentation.

All Microsoft SQL Server Service Packs (SPs) are not explicitly qualified and are supported by default, unless noted.

Windows Service Packs (SPs) are supported by default, unless noted.

For any SQL Service Pack (SPs) supported by NetBackup, its Cumulative Updates (CU) are also supported, unless otherwise noted.

SQL Server on Linux is **NOT** supported at this time.

All SQL Server versions listed below are start of support. Refer to the Database/Application vendor for specific Operating System requirements.

Microsoft SQL Server - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
SQL Server	2017 [1] [2]	64	Windows Server 2012	x86-64	64	8.1.1
SQL Server	2017 [1] [2]	64	Windows Server 2012 R2	x86-64	64	8.1.1
SQL Server	2017 [1] [2]	64	Windows Server 2016	x86-64	64	8.1.1
SQL Server	2016 SP2 [1] [2]	64	Windows Server 2012	x86-64	64	8.0
SQL Server	2016 SP2 [1] [2]	64	Windows Server 2012 R2	x86-64	64	8.0
SQL Server	2016 SP2 [1] [2]	64	Windows Server 2016	x86-64	64	8.0
SQL Server	2016 SP1 [1] [2]	64	Windows Server 2012	x86-64	64	8.0
SQL Server	2016 SP1 [1] [2]	64	Windows Server 2012 R2	x86-64	64	8.0
SQL Server	2016 SP1 [1] [2]	64	Windows Server 2016	x86-64	64	8.0
SQL Server	2016 [1] [2]	64	Windows Server 2012	x86-64	64	8.0
SQL Server	2016 [1] [2]	64	Windows Server 2012 R2	x86-64	64	8.0

Microsoft SQL Server - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
SQL Server	2016 [1] [2]	64	Windows Server 2016	x86-64	64	8.0
SQL Server	2014 SP2 [2] [3]	64	Windows Server 2008	x86-64	64	8.0
SQL Server	2014 SP2 [2] [3]	64	Windows Server 2008 R2	x86-64	64	8.0
SQL Server	2014 SP2 [2] [3]	64	Windows Server 2012	x86-64	64	8.0
SQL Server	2014 SP2 [2] [3]	64	Windows Server 2012 R2	x86-64	64	8.0
SQL Server	2014 SP1 [2] [3]	64	Windows Server 2008	x86-64	64	8.0
SQL Server	2014 SP1 [2] [3]	64	Windows Server 2008 R2	x86-64	64	8.0
SQL Server	2014 SP1 [2] [3]	64	Windows Server 2012	x86-64	64	8.0
SQL Server	2014 SP1 [2] [3]	64	Windows Server 2012 R2	x86-64	64	8.0
SQL Server	2014 [2] [3]	64	Windows Server 2008	x86-64	64	8.0
SQL Server	2014 [2] [3]	64	Windows Server 2008 R2	x86-64	64	8.0
SQL Server	2014 [2] [3]	64	Windows Server 2012	x86-64	64	8.0
SQL Server	2014 [2] [3]	64	Windows Server 2012 R2	x86-64	64	8.0
SQL Server	2012 SP4 [2] [3]	64	Windows Server 2008 R2	x86-64	64	8.0
SQL Server	2012 SP4 [2] [3]	64	Windows Server 2012	x86-64	64	8.0
SQL Server	2012 SP4 [2] [3]	64	Windows Server 2012 R2	x86-64	64	8.0
SQL Server	2012 SP3 [2] [3]	32	Windows Server 2008 SP2	x86-32	32	8.0
SQL Server	2012 SP3 [2] [3]	64	Windows Server 2008 R2	x86-64	64	8.0
SQL Server	2012 SP3 [2] [3]	64	Windows Server 2012	x86-64	64	8.0
SQL Server	2012 SP3 [2] [3]	64	Windows Server 2012 R2	x86-64	64	8.0
SQL Server	2012 SP2 [2] [3]	32	Windows Server 2008 SP2	x86-32	32	8.0
SQL Server	2012 SP2 [2] [3]	64	Windows Server 2008 R2	x86-64	64	8.0
SQL Server	2012 SP2 [2] [3]	64	Windows Server 2012	x86-64	64	8.0
SQL Server	2012 SP2 [2] [3]	64	Windows Server 2012 R2	x86-64	64	8.0
SQL Server	2012 SP1 [2] [3]	32	Windows Server 2008 SP2	x86-32	32	8.0
SQL Server	2012 SP1 [2] [3]	64	Windows Server 2008 SP2	x86-64	64	8.0

Microsoft SQL Server - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
SQL Server	2012 SP1 [2] [3]	64	Windows Server 2008 R2 SP1	x86-64	64	8.0
SQL Server	2012 SP1 [2] [3]	64	Windows Server 2012	x86-64	64	8.0
SQL Server	2012 SP1 [2] [3]	64	Windows Server 2012 R2	x86-64	64	8.0
SQL Server	2012 [2] [3]	32	Windows Server 2008 SP2	x86-32	32	8.0
SQL Server	2012 [2] [3]	64	Windows Server 2008 SP2	x86-64	64	8.0
SQL Server	2012 [2] [3]	64	Windows Server 2008 R2 SP1	x86-64	64	8.0
SQL Server	2012 [2] [3]	64	Windows Server 2012	x86-64	64	8.0
SQL Server	2012 [2] [3]	64	Windows Server 2012 R2	x86-64	64	8.0
SQL Server	2008 R2 SP3	32	Windows Server 2008 SP2	x86-32	32	8.0
SQL Server	2008 R2 SP3	64	Windows Server 2008 R2	x86-64	64	8.0
SQL Server	2008 R2 SP3	64	Windows Server 2012	x86-64	64	8.0
SQL Server	2008 R2 SP3	64	Windows Server 2012 R2	x86-64	64	8.0
SQL Server	2008 R2 SP1	64	Windows Server 2012	x86-64	64	8.0
SQL Server	2008 R2	32	Windows Server 2008	x86-32	32	8.0
SQL Server	2008 R2	64	Windows Server 2008	x86-64	64	8.0
SQL Server	2008 R2	64	Windows Server 2008 R2	x86-64	64	8.0
SQL Server	2008 R2	64	Windows Server 2012 R2	x86-64	64	8.0
SQL Server	2008 SP4	32	Windows Server 2008	x86-32	32	8.0
SQL Server	2008 SP4	64	Windows Server 2008 R2	x86-64	64	8.0
SQL Server	2008 SP4	64	Windows Server 2012	x86-64	64	8.0
SQL Server	2008 SP4	64	Windows Server 2012 R2	x86-64	64	8.0
SQL Server	2008 SP2	64	Windows Server 2012	x86-64	64	8.0
SQL Server	2008	32	Windows Server 2008	x86-32	32	8.0
SQL Server	2008	64	Windows Server 2008	x86-64	64	8.0
SQL Server	2008	64	Windows Server 2008 R2	x86-64	64	8.0
SQL Server	2008	64	Windows Server 2012 R2	x86-64	64	8.0

1. NetBackup does not support AGs with SQL Server Intelligent Policies at this time. NetBackup does not support AGs on Windows 2016 multi-domain clusters at this time.
2. NetBackup does not support the SQL Server agent in SQL Azure environments at this time.
3. NetBackup does not support AGs with SQL Server Intelligent Policies at this time.

MySQL

Customers that have a license for the NetBackup for MySQL agent can download the install package at:

[<https://my.veritas.com>](https://my.veritas.com)

MySQL - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
MySQL	8	64	Red Hat Enterprise Linux 7	x86-64	64	8.1
MySQL	8	64	Red Hat Enterprise Linux 6	x86-64	64	8.1
MySQL	8	64	Windows 10	x86-64	64	8.1
MySQL	8	64	Windows Server 2012 R2	x86-64	64	8.1
MySQL	8	64	Windows Server 2016	x86-64	64	8.1
MySQL	5	64	Red Hat Enterprise Linux 7	x86-64	64	8.1
MySQL	5	64	Red Hat Enterprise Linux 6	x86-64	64	8.1
MySQL	5	64	SUSE Linux Enterprise Server 12	x86-64	64	8.1
MySQL	5	64	SUSE Linux Enterprise Server 11	x86-64	64	8.1
MySQL	5	64	Windows 8.1	x86-64	64	8.1
MySQL	5	64	Windows 10	x86-64	64	8.1
MySQL	5	64	Windows Server 2008 R2	x86-64	64	8.1
MySQL	5	64	Windows Server 2012	x86-64	64	8.1
MySQL	5	64	Windows Server 2012 R2	x86-64	64	8.1
MySQL	5	64	Windows Server 2016	x86-64	64	8.1

Oracle Database

Minor versions, Service Packs (SP), and patches released subsequent are supported by default, unless noted otherwise. Refer to Database/Application vendor for specific Operating System requirements.

NetBackup Copilot for Oracle is supported on all the configurations listed below unless otherwise noted.

Oracle RAC support is implied for Oracle versions listed.

Oracle Database - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
Oracle	12c R2	64	AIX 7.2	POWER	64	8.0
Oracle	12c R2	64	AIX 7.1	POWER	64	8.0
Oracle	12c R2	64	HP-UX 11.31	IA64	64	8.0
Oracle	12c R2	64	Oracle Linux 7	x86-64	64	8.0
Oracle	12c R2	64	Oracle Linux 6	x86-64	64	8.0
Oracle	12c R2	64	Red Hat Enterprise Linux 7	x86-64	64	8.0
Oracle	12c R2 [1]	64	Red Hat Enterprise Linux 7	z/Architecture	64	8.0
Oracle	12c R2	64	Red Hat Enterprise Linux 6	x86-64	64	8.0
Oracle	12c R2	64	Solaris 11	SPARC	64	8.0
Oracle	12c R2 [1]	64	Solaris 11	x86-64	64	8.0
Oracle	12c R2	64	SUSE Linux Enterprise Server 12	x86-64	64	8.0
Oracle	12c R2 [1]	64	SUSE Linux Enterprise Server 12	z/Architecture	64	8.0
Oracle	12c R2	64	Windows Server 2012 R2	x86-64	64	8.0
Oracle	12c R2	64	Windows Server 2012	x86-64	64	8.0
Oracle	12c R2	64	Windows Server 2016	x86-64	64	8.0
Oracle	12c R1	64	AIX 7.2	POWER	64	8.0
Oracle	12c R1	64	AIX 7.1	POWER	64	8.0
Oracle	12c R1	64	AIX 6.1	POWER	64	8.0
Oracle	12c R1	64	HP-UX 11.31	IA64	64	8.0

Oracle Database - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
Oracle	12c R1	64	Oracle Linux 7	x86-64	64	8.0
Oracle	12c R1	64	Oracle Linux 6	x86-64	64	8.0
Oracle	12c R1	64	Oracle Linux 5 [2]	x86-64	64	8.0
Oracle	12c R1	64	Red Hat Enterprise Linux 7	x86-64	64	8.0
Oracle	12c R1	64	Red Hat Enterprise Linux 6	x86-64	64	8.0
Oracle	12c R1 [1]	64	Red Hat Enterprise Linux 6	z/Architecture	64	8.0
Oracle	12c R1	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
Oracle	12c R1 [1]	64	Red Hat Enterprise Linux 5	z/Architecture	64	8.0
Oracle	12c R1	64	Solaris 11	SPARC	64	8.0
Oracle	12c R1	64	Solaris 11	x86-64	64	8.0
Oracle	12c R1	64	Solaris 10	SPARC	64	8.0
Oracle	12c R1 [1]	64	Solaris 10	x86-64	64	8.0
Oracle	12c R1	64	SUSE Linux Enterprise Server 12	x86-64	64	8.0
Oracle	12c R1 [1]	64	SUSE Linux Enterprise Server 12	z/Architecture	64	8.0
Oracle	12c R1	64	SUSE Linux Enterprise Server 11	x86-64	64	8.0
Oracle	12c R1 [1]	64	SUSE Linux Enterprise Server 11	z/Architecture	64	8.0
Oracle	12c R1	64	Windows Server 2008	x86-64	64	8.0
Oracle	12c R1	64	Windows Server 2008 R2	x86-64	64	8.0
Oracle	12c R1	64	Windows Server 2012 R2	x86-64	64	8.0
Oracle	12c R1	64	Windows Server 2012	x86-64	64	8.0
Oracle	11g R2	64	Windows Server 2012 R2	x86-64	64	8.0
Oracle	11g R2	64	AIX 7.2	POWER	64	8.0
Oracle	11g R2	64	AIX 7.1	POWER	64	8.0
Oracle	11g R2	64	AIX 6.1	POWER	64	8.0
Oracle	11g R2	64	HP-UX 11.31	IA64	64	8.0
Oracle	11g R2	64	Oracle Linux 6	x86-64	64	8.0

Oracle Database - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
Oracle	11g R2	64	Oracle Linux 5 [2]	x86-64	64	8.0
Oracle	11g R2	64	Red Hat Enterprise Linux 7	x86-64	64	8.0
Oracle	11g R2	64	Red Hat Enterprise Linux 6	x86-64	64	8.0
Oracle	11g R2 [1] [3]	64	Red Hat Enterprise Linux 6	z/Architecture	64	8.0
Oracle	11g R2	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
Oracle	11g R2 [1] [3]	64	Red Hat Enterprise Linux 5	z/Architecture	64	8.0
Oracle	11g R2	64	Solaris 11	SPARC	64	8.0
Oracle	11g R2 [1]	64	Solaris 11	x86-64	64	8.0
Oracle	11g R2	64	Solaris 10	SPARC	64	8.0
Oracle	11g R2 [1]	64	Solaris 10	x86-64	64	8.0
Oracle	11g R2	64	SUSE Linux Enterprise Server 11	x86-64	64	8.0
Oracle	11g R2 [1] [3]	64	SUSE Linux Enterprise Server 11	z/Architecture	64	8.0
Oracle	11g R2	32	Windows Server 2008	x86-32	32	8.0
Oracle	11g R2	64	Windows Server 2008	x86-64	64	8.0
Oracle	11g R2	64	Windows Server 2008 R2	x86-64	64	8.0
Oracle	11g R2	64	Windows Server 2012	x86-64	64	8.0
Oracle	11g R1	64	AIX 6.1	POWER	64	8.0
Oracle	11g R1	64	HP-UX 11.31	IA64	64	8.0
Oracle	11g R1	64	Oracle Linux 6	x86-64	64	8.0
Oracle	11g R1	64	Red Flag Linux 5.0 DC	x86-64	64	8.0
Oracle	11g R1	64	Oracle Linux 5 [2]	x86-64	64	8.0
Oracle	11g R1	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
Oracle	11g R1	64	Solaris 10	SPARC	64	8.0
Oracle	11g R1	32	Windows Server 2008	x86-32	32	8.0
Oracle	11g R1	64	Windows Server 2008	x86-64	64	8.0

1. This architecture does not support the "Whole Database - Datafile Copy Share" option.

2. This version of the Oracle Agent is supported on the Oracle Unbreakable Linux Kernel. The Unbreakable Enterprise Kernel installs directly on top of Oracle Linux 5 starting with Update 5.
3. Reference <http://www.veritas.com/docs/000013908> in regards to linking Oracle 11g R2 with NetBackup on zLinux platforms.

PostgreSQL

Customers that have a license for the NetBackup for PostgreSQL agent can download the install package at:

[<https://my.veritas.com>](https://my.veritas.com)

PostgreSQL - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
PostgreSQL	10	64	Red Hat Enterprise Linux 7	x86-64	64	8.1
PostgreSQL	10	64	Red Hat Enterprise Linux 6	x86-64	64	8.1
PostgreSQL	10	64	SUSE Linux Enterprise Server 12	x86-64	64	8.1
PostgreSQL	10	64	Windows 8.1	x86-64	64	8.1
PostgreSQL	10	64	Windows 10	x86-64	64	8.1
PostgreSQL	10	64	Windows Server 2008 R2	x86-64	64	8.1
PostgreSQL	10	64	Windows Server 2012 R2	x86-64	64	8.1
PostgreSQL	10	64	Windows Server 2016	x86-64	64	8.1
PostgreSQL	9	64	Red Hat Enterprise Linux 7	x86-64	64	8.1
PostgreSQL	9	64	Red Hat Enterprise Linux 6	x86-64	64	8.1
PostgreSQL	9	64	SUSE Linux Enterprise Server 12	x86-64	64	8.1
PostgreSQL	9	64	SUSE Linux Enterprise Server 11	x86-64	64	8.1
PostgreSQL	9	64	Windows 8.1	x86-64	64	8.1
PostgreSQL	9	64	Windows 10	x86-64	64	8.1
PostgreSQL	9	64	Windows Server 2008 R2	x86-64	64	8.1
PostgreSQL	9	64	Windows Server 2012 R2	x86-64	64	8.1
PostgreSQL	9	64	Windows Server 2016	x86-64	64	8.1

SAP ASE

SAP ASE - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
SAP ASE	16 SP3	64	AIX 7.2	POWER	64	8.1
SAP ASE	16 SP3	64	HP-UX 11.31	IA64	64	8.1
SAP ASE	16 SP3	64	Red Hat Enterprise Linux 7	x86-64	64	8.1
SAP ASE	16 SP3	64	Solaris 11	SPARC	64	8.1
SAP ASE	16 SP3	64	Solaris 11	x86-64	64	8.1
SAP ASE	16 SP3	64	Solaris 10	SPARC	64	8.1
SAP ASE	16 SP3	64	SUSE Linux Enterprise Server 12	x86-64	64	8.1
SAP ASE	16 SP3	64	Windows Server 2016	x86-64	64	8.1
SAP ASE	16 SP2	64	AIX 7.2	POWER	64	8.1
SAP ASE	16 SP2	64	AIX 7.1	POWER	64	8.1
SAP ASE	16 SP2	64	Solaris 11	SPARC	64	8.1
SAP ASE	16 SP2	64	Solaris 10	SPARC	64	8.1
SAP ASE	16	64	HP-UX 11.31	IA64	64	8.0
SAP ASE	16	64	Red Hat Enterprise Linux 6	x86-64	64	8.0
SAP ASE	16	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
SAP ASE	16	64	Solaris 11	x86-64	64	8.0
SAP ASE	16	64	Solaris 10	x86-64	64	8.0
SAP ASE	16	64	SUSE Linux Enterprise Server 12	x86-64	64	8.0
SAP ASE	16	64	SUSE Linux Enterprise Server 11	x86-64	64	8.0
SAP ASE	16	64	Windows Server 2008 R2	x86-64	64	8.0
SAP ASE	16	64	Windows Server 2012	x86-64	64	8.0
SAP ASE	16	64	Windows Server 2012 R2	x86-64	64	8.0

SAP ASE - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
SAP ASE	16	64	Windows Server 2016	x86-64	64	8.0
SAP ASE	15.7	64	HP-UX 11.31	IA64	64	8.0
SAP ASE	15.7	64	Red Hat Enterprise Linux 7	x86-64	64	8.0
SAP ASE	15.7	64	Red Hat Enterprise Linux 6	x86-64	64	8.0
SAP ASE	15.7	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
SAP ASE	15.7	64	Solaris 11	x86-64	64	8.0
SAP ASE	15.7	64	Solaris 10	x86-64	64	8.0
SAP ASE	15.7	64	SUSE Linux Enterprise Server 11	x86-64	64	8.0
SAP ASE	15.7	64	Windows Server 2008 R2	x86-64	64	8.0
SAP ASE	15.7	64	Windows Server 2012	x86-64	64	8.0
SAP ASE	15.5	64	HP-UX 11.31	IA64	64	8.0
SAP ASE	15.5	64	Red Hat Enterprise Linux 6	x86-64	64	8.0
SAP ASE	15.5	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
SAP ASE	15.5	64	Solaris 10	x86-64	64	8.0
SAP ASE	15.5	64	Windows Server 2008 R2	x86-64	64	8.0
SAP ASE	15	64	HP-UX 11.31	IA64	64	8.0
SAP ASE	15	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
SAP ASE	15	32	Windows Server 2008	x86-32	32	8.0
SAP ASE	15	64	Windows Server 2008	x86-64	64	8.0

SAP HANA

Minor versions, Service Packs (SP), and patches released subsequent are supported by default, unless noted otherwise. Refer to Database/Application vendor for specific Operating System requirements.

SAP HANA - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
SAP HANA	SPS 12	64	Red Hat Enterprise Linux 7 Update 2	x86-64	64	8.0
SAP HANA	SPS 12	64	Red Hat Enterprise Linux 7 Update 1	x86-64	64	8.0
SAP HANA	SPS 12	64	Red Hat Enterprise Linux 7	x86-64	64	8.0
SAP HANA	SPS 12	64	Red Hat Enterprise Linux 6 Update 7	x86-64	64	8.0
SAP HANA	SPS 12	64	Red Hat Enterprise Linux 6 Update 6	x86-64	64	8.0
SAP HANA	SPS 12	64	Red Hat Enterprise Linux 6 Update 5	x86-64	64	8.0
SAP HANA	SPS 12	64	SUSE Linux Enterprise Server 12 SP1	x86-64	64	8.0
SAP HANA	SPS 12	64	SUSE Linux Enterprise Server 12	x86-64	64	8.0
SAP HANA	SPS 12	64	SUSE Linux Enterprise Server 11 SP4	x86-64	64	8.0
SAP HANA	SPS 12	64	SUSE Linux Enterprise Server 11 SP3	x86-64	64	8.0
SAP HANA	SPS 11	64	Red Hat Enterprise Linux 6 Update 7	x86-64	64	8.0
SAP HANA	SPS 11	64	Red Hat Enterprise Linux 6 Update 6	x86-64	64	8.0
SAP HANA	SPS 11	64	Red Hat Enterprise Linux 6 Update 5	x86-64	64	8.0
SAP HANA	SPS 11	64	SUSE Linux Enterprise Server 12	x86-64	64	8.0
SAP HANA	SPS 11	64	SUSE Linux Enterprise Server 11 SP4	x86-64	64	8.0
SAP HANA	SPS 11	64	SUSE Linux Enterprise Server 11 SP3	x86-64	64	8.0
SAP HANA	SPS 10 [1]	64	Red Hat Enterprise Linux 6 Update 5	x86-64	64	8.0
SAP HANA	SPS 10 [1]	64	SUSE Linux Enterprise Server 11 SP3	x86-64	64	8.0
SAP HANA	SPS 09	64	Red Hat Enterprise Linux 6 Update 5	x86-64	64	8.0
SAP HANA	SPS 09	64	SUSE Linux Enterprise Server 11 SP3	x86-64	64	8.0

SAP HANA - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
SAP HANA	SPS 08	64	Red Hat Enterprise Linux 6 Update 5	x86-64	64	8.0
SAP HANA	SPS 08	64	SUSE Linux Enterprise Server 11 SP3	x86-64	64	8.0
SAP HANA 2.0	SPS 03	64	Red Hat Enterprise Linux 7 Update 4	x86-64	64	8.0
SAP HANA 2.0	SPS 03	64	Red Hat Enterprise Linux 7 Update 3	x86-64	64	8.0
SAP HANA 2.0	SPS 03	64	Red Hat Enterprise Linux 7 Update 2	x86-64	64	8.0
SAP HANA 2.0	SPS 03	64	SUSE Linux Enterprise Server 12 SP3	x86-64	64	8.0
SAP HANA 2.0	SPS 03	64	SUSE Linux Enterprise Server 12 SP2	x86-64	64	8.0
SAP HANA 2.0	SPS 03	64	SUSE Linux Enterprise Server 12 SP1	x86-64	64	8.0
SAP HANA 2.0	SPS 02	64	Red Hat Enterprise Linux 7 Update 4	x86-64	64	8.0
SAP HANA 2.0	SPS 02	64	Red Hat Enterprise Linux 7 Update 3	x86-64	64	8.0
SAP HANA 2.0	SPS 02	64	Red Hat Enterprise Linux 7 Update 2	x86-64	64	8.0
SAP HANA 2.0	SPS 02	64	SUSE Linux Enterprise Server 12 SP3	x86-64	64	8.0
SAP HANA 2.0	SPS 02	64	SUSE Linux Enterprise Server 12 SP2	x86-64	64	8.0
SAP HANA 2.0	SPS 02	64	SUSE Linux Enterprise Server 12 SP1	x86-64	64	8.0
SAP HANA 2.0	SPS 01	64	Red Hat Enterprise Linux 7 Update 3	x86-64	64	8.0
SAP HANA 2.0	SPS 01	64	Red Hat Enterprise Linux 7 Update 2	x86-64	64	8.0
SAP HANA 2.0	SPS 01	64	SUSE Linux Enterprise Server 12 SP2	x86-64	64	8.0
SAP HANA 2.0	SPS 01	64	SUSE Linux Enterprise Server 12 SP1	x86-64	64	8.0
SAP HANA 2.0	SPS 00	64	Red Hat Enterprise Linux 7 Update 3	x86-64	64	8.0
SAP HANA 2.0	SPS 00	64	Red Hat Enterprise Linux 7 Update 2	x86-64	64	8.0
SAP HANA 2.0	SPS 00	64	SUSE Linux Enterprise Server 12 SP2	x86-64	64	8.0
SAP HANA 2.0	SPS 00	64	SUSE Linux Enterprise Server 12 SP1	x86-64	64	8.0
SAP HANA	SPS 07	64	SUSE Linux Enterprise Server 11 SP2	x86-64	64	8.0
SAP HANA	SPS 06	64	SUSE Linux Enterprise Server 11 SP1	x86-64	64	8.0
SAP HANA	SPS 05	64	SUSE Linux Enterprise Server 11 SP1	x86-64	64	8.0

1. For SAP HANA SPS 10 backup and restore procedures, refer TECH231823.

SAP MaxDB

The "Version" on SAP Max-DB represents the version of the SAP Kernel.

Minor versions, Service Packs (SP), and patches released subsequent are supported by default, unless noted otherwise. Refer to Database/Application vendor for specific Operating System requirements.

SAP MaxDB - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
SAP MaxDB	7	64	AIX 7.2	POWER	64	8.0
SAP MaxDB	7	64	AIX 6.1	POWER	64	8.0
SAP MaxDB	7	64	HP-UX 11.31	IA64	64	8.0
SAP MaxDB	7	64	Red Hat Enterprise Linux 7	x86-64	64	8.0
SAP MaxDB	7	64	Red Hat Enterprise Linux 6	x86-64	64	8.0
SAP MaxDB	7	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
SAP MaxDB	7	64	Solaris 11	SPARC	64	8.0
SAP MaxDB	7	64	Solaris 11	x86-64	64	8.0
SAP MaxDB	7	64	Solaris 10	SPARC	64	8.0
SAP MaxDB	7	64	Solaris 10	x86-64	64	8.0
SAP MaxDB	7	64	SUSE Linux Enterprise Server 12	x86-64	64	8.0
SAP MaxDB	7	64	SUSE Linux Enterprise Server 11	x86-64	64	8.0
SAP MaxDB	7	32	Windows Server 2008	x86-32	32	8.0
SAP MaxDB	7	64	Windows Server 2008	x86-64	64	8.0
SAP MaxDB	7	64	Windows Server 2008 R2	x86-64	64	8.0
SAP MaxDB	7	64	Windows Server 2012	x86-64	64	8.0
SAP MaxDB	7	64	Windows Server 2012 R2	x86-64	64	8.0

SAP Oracle

The "Version" on SAP Oracle represents the version of the SAP Kernel BR*Tools. BR*Tools version 6.40, patch level 36 or greater, is required for SAP Snapshot backups through RMAN proxy.

SAP Oracle agent includes Oracle RAC support with Oracle Cluster File System and RAW partition.

Minor versions, Service Packs (SP), and patches released subsequent are supported by default, unless noted otherwise. Refer to Database/Application vendor for specific Operating System requirements.

SAP Oracle - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
SAP Oracle	7	64	AIX 7.2	POWER	64	8.0
SAP Oracle	7	64	AIX 7.1	POWER	64	8.0
SAP Oracle	7	64	AIX 6.1	POWER	64	8.0
SAP Oracle	7	64	HP-UX 11.31	IA64	64	8.0
SAP Oracle	7	64	Red Hat Enterprise Linux 7	x86-64	64	8.0
SAP Oracle	7	64	Red Hat Enterprise Linux 6	x86-64	64	8.0
SAP Oracle	7	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
SAP Oracle	7	64	Solaris 11	SPARC	64	8.0
SAP Oracle	7	64	Solaris 11	x86-64	64	8.0
SAP Oracle	7	64	Solaris 10	SPARC	64	8.0
SAP Oracle	7	64	Solaris 10	x86-64	64	8.0
SAP Oracle	7	64	SUSE Linux Enterprise Server 12	x86-64	64	8.0
SAP Oracle	7	64	SUSE Linux Enterprise Server 11	x86-64	64	8.0
SAP Oracle	7	64	Windows Server 2008	x86-64	64	8.0
SAP Oracle	7	64	Windows Server 2008 R2	x86-64	64	8.0
SAP Oracle	7	64	Windows Server 2012	x86-64	64	8.0
SAP Oracle	7	64	Windows Server 2012 R2	x86-64	64	8.0
SAP Oracle	6	64	Red Hat Enterprise Linux 5	x86-64	64	8.0

SAP Oracle - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
SAP Oracle	6	64	Solaris 10	SPARC	64	8.0

SQLite

Customers that have a license for the NetBackup for SQLite agent can download the install package at:

[<https://my.veritas.com>](https://my.veritas.com)

SQLite - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
SQLite	3	64	Red Hat Enterprise Linux 7	x86-64	64	8.1
SQLite	3	64	Red Hat Enterprise Linux 6	x86-64	64	8.1
SQLite	3	64	SUSE Linux Enterprise Server 12	x86-64	64	8.1
SQLite	3	64	SUSE Linux Enterprise Server 11	x86-64	64	8.1
SQLite	3	64	Windows 8.1	x86-64	64	8.1
SQLite	3	64	Windows 10	x86-64	64	8.1
SQLite	3	64	Windows Server 2008 R2	x86-64	64	8.1
SQLite	3	64	Windows Server 2012 R2	x86-64	64	8.1
SQLite	3	64	Windows Server 2016	x86-64	64	8.1

XBSA Extensible Client

XBSA Extensible Client - Supported Configurations

Database Software	Version	DB Bit	OS	CPU Architecture	OS Bit	Start of Support
XBSA Extensible Client	NetBackup 7.5.0.6	64	Windows Server 2012	x86-64	64	8.0
XBSA Extensible Client	NetBackup 7.0	64	AIX 6.1	POWER	64	8.0
XBSA Extensible Client	NetBackup 7.0	64	HP-UX 11.31	IA64	64	8.0
XBSA Extensible Client	NetBackup 7.0	64	Red Hat Enterprise Linux 5	x86-64	64	8.0
XBSA Extensible Client	NetBackup 7.0	64	Solaris 10	SPARC	64	8.0
XBSA Extensible Client	NetBackup 7.0	64	Solaris 10	x86-64	64	8.0
XBSA Extensible Client	NetBackup 7.0	32	Windows Server 2008	x86-32	32	8.0
XBSA Extensible Client	NetBackup 7.0	64	Windows Server 2008	x86-64	64	8.0
XBSA Extensible Client	NetBackup 7.0	64	Windows Server 2008 R2	x86-64	64	8.0

Veritas NetBackup TM Enterprise Server and Server 8.0 - 8.x.x Hardware and Cloud Storage Compatibility List (HCL)

Created on December 22, 2017

Introduction

This Hardware and Cloud Storage Compatibility List (HCL) document contains information about hardware and cloud storage solutions supported with Veritas NetBackup Enterprise Server and Server 8.0 - 8.x.x. The HCL contains separate sections for each solution type. These sections can be accessed by expanding the bookmarks on the left. (For information on other NetBackup versions, see <http://www.netbackup.com/compatibility>)

To ensure Veritas' support, [tape libraries](#) , [tape drives](#) , [virtual tape devices](#) , [NDMP devices](#) , Veritas OpenStorage [primary](#) and [secondary](#) storage solutions, and [Snapshot Client](#) arrays must be present on the HCL and must be supported by the hardware manufacturer or cloud provider and the operating system vendor in the desired environment. (The list of Fibre Channel devices contained in the [Infrastructure Used for Testing](#) section represents equipment that has been used during NetBackup qualification testing in other sections of this document and is not intended to be a list of supported devices.)

Note: Our support policy is not the same for all solution types, so please read the notes at the beginning of each section for information on supported solution software and firmware versions.

Qualified hardware and cloud solutions listed in this document are tested through the Veritas Technology Partner Program (VTPP). If you would like to have hardware or cloud solutions considered for inclusion on this HCL, please contact your hardware partner or cloud provider to ensure they are a member of VTPP and have submitted a request to have their product qualified with NetBackup. Information on Veritas Technology Partner Program is available at <https://partnernet.veritas.com/portal/faces/programs/technology-tracks-overview>

For information about certain NetBackup features, functionality, 3rd-party product integration, Veritas product integration, applications, databases, and OS platforms that Veritas intends to replace with newer and improved functionality, or in some cases, discontinue without replacement, please see the widget titled "NetBackup Future Platform and Feature Plans" at <https://sort.veritas.com/netbackup>

Hardware Compatibility List Users - Would you recommend this HCL to a colleague? If yes, please tell us what we are doing well. If no, please tell us how we could improve. Drop us an email at NetBackup_HCL@veritas.com

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<u>NetBackup in the Cloud</u>	<u>NetBackup Appliances</u>	<u>OST Primary Storage Solutions - Replication Director</u>
<u>Snapshot Client</u>	<u>OST Secondary Storage Solutions</u>	<u>Virtual Tape Libraries/Drives</u>
<u>Tape Libraries</u>	<u>Tape Drives</u>	<u>NDMP Devices</u>
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NetBackup Compatibility Lists

We focus on hardware compatibility on this list, so here's a table with links to compatibility information on Operating Systems, Agents and Options, such as: NDMP, Databases, Desktop/Laptop, etc.

We now provide most NetBackup compatibility documents in an HTML format along with the classic PDF. Add [<http://www.netbackup.com/compatibility>](http://www.netbackup.com/compatibility) to your bookmarks for quick links to the documents listed below, compatibility lists for earlier NetBackup versions, and much more.

Veritas NetBackup TM 8.0 - 8.x.x Compatibility Lists

Compatibility List Name	URL
NetBackup Enterprise Server and Server 8.0 - 8.x.x OS Software Compatibility List (Contains compatibility info for Client, Server, Cluster, NOM, NDMP, BMR, SAN Client, MSEO)	<http://www.veritas.com/docs/000115691>
NetBackup 8.0 - 8.x.x Database and Application Agent Compatibility List	<http://www.veritas.com/docs/000115692>
Support for NetBackup 7.x and 8.x in virtual environments	<http://www.veritas.com/docs/000006177>
NetBackup for NDMP: NAS appliance information	<http://www.veritas.com/docs/000027113>
Entire listing of NetBackup Compatibility Lists	<http://www.netbackup.com/compatibility>

Device Mappings Files

New device support in NetBackup is accomplished through the use of device mappings files. The latest version of these files is included in NetBackup release updates and is also available for download independently on the Veritas support site. This file is updated whenever new device support is needed independent of NetBackup release updates.

The first table below contains links to the current versions of the device mappings file packages, along with a list of support added with current and recent versions. The second table lists the version of the device mappings file released with NetBackup 8.0 GA and each subsequent Release Update.

Device Mappings Files Packages

Version	OS platforms / URL	Support added
1.147	Linux/UNIX: < http://www.veritas.com/docs/000025759 > Windows: < http://www.veritas.com/docs/000025758 >	- HPE MSL3040 tape library - IBM LTO Ultrium 8 tape drives - Quantum LTO Ultrium 8 tape drives
1.146	Use the most recent version above.	- NetBackup Accelerator support enabled for Quest OpenStorage solutions - Quest DR 13g Series VTL
1.144	Use the most recent version above.	- NetApp StorageGRID (S3)
1.143	Use the most recent version above.	- ACP IT Solutions CS3 Cloud (S3) - China Telecom OOS Cloud (S3)
1.142	Use the most recent version above.	- IBM TS1155 (3592 Model 55F) tape drive - Oracle StorageTek SL4000 tape library
1.141	Use the most recent version above.	- Fujitsu ETERNUS CD10000 (S3) - Huawei Object Storage Service (OBS) (S3) - SUSE Enterprise Storage (S3)
1.140	Use the most recent version above.	- Veritas Access (S3) - Deutsche Telekom Open Telekom Cloud (S3) - Red Hat Ceph Storage (S3)
1.139	Use the most recent version above.	- IBM 3592 E08 tape drive
1.138	Use the most recent version above.	- AT&T Cloud Storage (S3) - China Mobile CMCC Cloud Storage (S3) - IBM Cloud Object Storage for LAN (S3) - IBM Cloud Object Storage for WAN (S3)

Device Mappings Files Packages

Version	OS platforms / URL	Support added
1.136	Use the most recent version above.	- Scalify RING Storage for LAN (S3) - Scalify RING Storage for WAN (S3) - Oracle Cloud Service (S3) - Oracle Cloud Service (Swift) - Quantum Lattus Object Storage (S3) - SwiftStack (Swift)

Device Mappings Versions released with NetBackup

NetBackup version	Device Mappings version
8.1 GA	1.143
8.0 GA	1.136

Disk Storage Units

NetBackup permits the creation of an unlimited number of disk storage units. The types of storage units are described in the table below.

Disk Storage Unit Types

Type of disk storage unit	Description
BasicDisk	A BasicDisk type storage unit consists of a directory on a locally-attached disk or a network-attached disk that is exposed as a file system to a NetBackup media server. NetBackup stores backup data in the specified directory. BasicDisk configuration considerations: 1. Do not include the same volume or file system in multiple BasicDisk storage units. 2. BasicDisk storage units cannot be used in a storage lifecycle policy.

Type of disk storage unit	Description
AdvancedDisk	An AdvancedDisk type storage unit is used for a dedicated disk that is directly attached to a NetBackup media server. AdvancedDisk is available only when the Data Protection Optimization Option is licensed. NetBackup assumes exclusive ownership of the disk resources that comprise an AdvancedDisk disk pool. If the resources are shared with other users, NetBackup cannot manage disk pool capacity or storage lifecycle policies correctly. For AdvancedDisk, the NetBackup media servers function as both data movers and storage servers. For more information on configuring AdvancedDisk, see the "NetBackup AdvancedDisk Storage Solutions Guide" <http://www.veritas.com/docs/000003214> . AdvancedDisk support assumptions: 1. Veritas NetBackup has an open support policy for AdvancedDisk storage units. The storage must be seen as local disk by the NetBackup Media Server, regardless of connection method (SCSI, Fibre Channel, iSCSI, etc), to be supported as an AdvancedDisk storage unit. Please note: Due to the open support policy, and the range of 3rd party storage solutions, it is the responsibility of the customer to ensure that the chosen storage solution meets the specific performance needs in the specific production environment. Veritas NetBackup features that are performance-dependent, such as Granular Restore Technology (GRT) are not supported with AdvancedDisk storage units. Hybrid storage solutions, with a mix of both local (LAN or FC) and WAN (remote or cloud) based storage tiers, have become available. Thorough testing of these storage solutions, when used as AdvancedDisk storage units, needs to be completed by the customer, to the customer's satisfaction, particularly in the area of restore operations, to ensure that timeouts do not occur. Some specific hybrid storage solutions may be tested as NetBackup AdvancedDisk storage units, in Veritas labs, with joint effort and in cooperation with Veritas storage partners. Resulting white papers and reference materials will appear here: - Microsoft Azure StorSimple: "Configure StorSimple with Veritas NetBackup" <https://docs.microsoft.com/en-us/azure/storsimple/storsimple-configure-backuptarget-netbackup> 2. Veritas InfoScale Foundation and Storage Foundation are supported with NetBackup AdvancedDisk. For information on disk arrays that are supported with the InfoScale Foundation or Storage Foundation version you're running, please see "Veritas Services and Operations Readiness Tools (SORT)" <https://sort.veritas.com> . 3. AdvancedDisk functionality is subject to all functional limitations as imposed either by the operating system or by the underlying file system. AdvancedDisk configuration considerations: 1. For UNIX NetBackup Media Servers, AdvancedDisk requires that all LSUs (Logical Storage Units) are active mount points within the UNIX host. Using the NFS automount feature is not recommended with AdvancedDisk. 2. Access to NFS storage requires NetBackup daemons to run as root. The NFS server exporting the file system must be configured to allow root access to the file system. 3. To ensure support, the disk array must be combined with interconnect hardware that is supported by the disk array manufacturer and the operating system vendor. Refer to the respective vendor's support lists for this information. 4. When installing and configuring HBA drivers it is recommended that the array vendor-qualified HBA drivers be used as opposed to the general HBA drivers that are released for each operating system. These array vendor-qualified HBA drivers are typically found in a separate section of the HBA vendor or array vendor's website, often separated by array model. 5. Performance may vary depending on the array hardware used.

Type of disk storage unit	Description
OpenStorage	An OpenStorage type storage unit is used for disk storage, usually provided by a third party vendor. The actual name of the disk type depends on the vendor. OpenStorage is available only when the OpenStorage Disk Option is licensed. The storage is integrated into NetBackup through an API. The storage vendor partners with Veritas to integrate the storage into NetBackup. The storage host is the storage server. The NetBackup media servers function as the data movers. The storage vendor's plug-in must be installed on each media server that functions as a data mover. The logon credentials to the storage server must be configured on each media server. For more information on configuring OpenStorage, see the "NetBackup OpenStorage Solutions Guide for Disk" <http://www.veritas.com/docs/000003214> .
PureDisk	A PureDisk disk type storage unit is used for deduplicated data for the following storage destinations: Media Server Deduplication Pool (MSDP): NetBackup deduplicates the data and hosts the storage. MSDP is available only when the NetBackup Data Protection Optimization Option is licensed. For more information on configuring MSDP, see the "NetBackup Deduplication Guide" <http://www.veritas.com/docs/000003214> . PureDisk storage pool: A NetBackup 5000 Series Appliance hosts the storage. For more information on configuring a PureDisk storage pool, see the "NetBackup Deduplication Appliance Software Getting Started Guide" <http://www.veritas.com/docs/000010419> .

NetBackup in the Cloud

NetBackup now supports cloud-based Master Servers and Media Servers as part of extending data protection into workloads in the cloud. For more information, see the "360 Data Management" <https://www.veritas.com/360.html?inid=us_veritas_home_trend_cloud> page.

NetBackup in the Cloud - Links to Solution Information

More information on solutions that deploy NetBackup in the Cloud is available at the links below.

Vendor	URL
Amazon	< https://www.veritas.com/solution/amazon-web-services >

NetBackup in the Cloud - Vendor Compatibility

Contents

[Amazon](#)

Amazon

This solution deploys a NetBackup Master or Media Server in an Amazon Web Services EC2 instance, using the AWS CloudFormation feature.

Amazon Machine Image (AMI) for NetBackup

Operating System	NetBackup template file	NetBackup Master Server support	NetBackup Media Server support	Supported Locales / Regions
Microsoft Windows Server 2012 R2	Link to the AWS CloudFormation NetBackup 8.0 AMI template file < https://s3.amazonaws.com/ami-nb/NBU-8_0.json >	Yes	Yes	Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Europe (Frankfurt), Europe (Ireland), Europe (London), South America (Sao Paulo), US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon)

NetBackup Appliances

NetBackup Appliances are Veritas-branded devices offering backup and deduplication solutions for enterprise environments in an appliance form factor. For more information, see the "NetBackup Appliances" <<https://www.veritas.com/product/backup-and-recovery/netbackup-appliances/>> page.

NetBackup 5200 Series (Master/Media Server) and 5300 Series (Media Server) Appliances

The following tables list NetBackup 5200 Series and 5300 Series release versions, the Appliance models supported with each version, the associated NetBackup Appliance software version, and the NetBackup Release version on which it is based. The latest 5200 Series and 5300 Series documentation can be found at <<http://www.veritas.com/docs/000002217>> Late breaking news related to NetBackup Appliances can be found at <<http://www.veritas.com/docs/000010279>>

NetBackup 5300 Series - Supported Versions

NetBackup 5300 Series Appliance Release	Supported NetBackup Appliance Models	NetBackup 5300 Series Appliance Software Version	Based on NetBackup Release
3.1	5340, 5330	8.1	8.1
3.0	5330	8.0	8.0
2.7.3	5330	7.7.3	7.7.3
2.7.2	5330	7.7.2	7.7.2
2.7.1	5330	7.7.1	7.7.1
(No 2.7 release. NetBackup 5300 Series Appliances running 2.6.1 or later can be used as back-level media servers in a NetBackup 8.x.x or 7.7.x configuration.)	N/A	N/A	N/A
2.6.1.2	5330	7.6.1.2	7.6.1.2
2.6.1.1	5330	7.6.1.1	7.6.1.1
2.6.1	5330	7.6.1	7.6.1

NetBackup 5200 Series - Supported Versions

NetBackup 5200 Series Appliance Release	Supported NetBackup Appliance Models	NetBackup 5200 Series Appliance Software Version	Based on NetBackup Release
3.1	CloudCatalyst 5240, 5240, 5230, 5220	8.1	8.1
3.0	5240, 5230, 5220	8.0	8.0
2.7.3	5240, 5230, 5220	7.7.3	7.7.3
2.7.2	5230, 5220	7.7.2	7.7.2
2.7.1	5230, 5220	7.7.1	7.7.1
(No 2.7 release. NetBackup 5200 Series Appliances running 2.x or later can be used as back-level media servers in a NetBackup 8.x.x or 7.7.x configuration.)	N/A	N/A	N/A
2.6.1.2	5230, 5220, 5200	7.6.1.2	7.6.1.2
2.6.1.1	5230, 5220, 5200	7.6.1.1	7.6.1.1
2.6.1	5230, 5220, 5200	7.6.1	7.6.1
2.6.0.4	5230, 5220, 5200	7.6.0.4	7.6.0.4
2.6.0.3	5230, 5220, 5200	7.6.0.3	7.6.0.3
2.6.0.2	5230, 5220, 5200	7.6.0.2	7.6.0.2
2.6	5230, 5220, 5200	7.6	7.6
2.5.3	5230, 5220, 5200	7.5.0.6	7.5.0.6
2.5.2	5230, 5220, 5200	7.5.0.5	7.5.0.5
2.5.1	5220, 5200	7.5.0.4	7.5.0.4
2.5	5220, 5200	7.5.0.2	7.5.0.1
2.0.3	5220, 5200	7.1.0.8	7.1.0.4
2.0.2	5220, 5200	7.1.0.7	7.1.0.3
2.0.1	5220, 5200	7.1.0.6	7.1.0.2
2.0	5200	7.1.0.5	7.1.0.1
1.2	5200	7.0.1.8	7.0.1 with additional fixes
1.1.0.2	5200	7.0.1.5	7.0.1 with additional fixes
1.1.0.1	5200	7.0.1.5	7.0.1 with additional fixes

The following table lists NetBackup 5200 Series and 5300 Series-supported functionality and indicates the minimum NetBackup Appliance Release version required for support of that functionality. NetBackup 5200 Series and 5300 Series Appliances can be used with all supported core NetBackup clients (see the "[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List](http://www.veritas.com/docs/000115691)" <<http://www.veritas.com/docs/000115691>>), application and database agents (see the "[NetBackup 8.0 - 8.x.x Database and Application Agent Compatibility List](http://www.veritas.com/docs/000115692)" <<http://www.veritas.com/docs/000115692>>), and [Snapshot client](#) configurations.

NetBackup 5200 Series and 5300 Series - Supported Functionality

Functionality	Minimum Appliance Release	Notes
NetBackup Master/Media Server	2.0	The Master Server role is only supported on 5200 Series Appliances. Key Management Service (KMS) and NetBackup Access Control (NBAC) are not supported when the Appliance is configured as a Master Server.
NetBackup Media Server	1.1.0.1	The Master Server in the NetBackup domain must be running a version of NetBackup equal to or newer than the NetBackup version on which the appliance is based. Support begins with NetBackup 7.0.1.
NetBackup CloudCatalyst Appliance	3.1	The CloudCatalyst Appliance role is only supported on 5240 Appliances running configuration "G" with 192 GB of memory.
Accelerator (for files and folders)	2.5	
Accelerator with NDMP	2.7.1	Supported with NetApp FAS and V series filers. For more information on this feature, see the " NetBackup for NDMP Administrator's Guide " < http://www.veritas.com/docs/000003214 > .
Accelerator with VMware-type policies	2.6	
Auto Image Replication to MSDP/5200 Series or 5300 Series over Ethernet	2.0	
Auto Image Replication to MSDP/5200 Series or 5300 Series over Fibre Channel (FC)	2.7.3	
Auto Image Replication to PDDO/5000 Series	2.0.1	

NetBackup 5200 Series and 5300 Series - Supported Functionality

Functionality	Minimum Appliance Release	Notes
Client Deduplication / Client Direct over Ethernet	1.1.0.1	Veritas allows NetBackup Clients to write data directly to NetBackup Storage Server Appliances. The client hosts the deduplication plug-in that deduplicates the backup data. The plug-in sends only unique segments to the Storage Server, reducing network traffic and distributing CPU load. For the list of supported clients, see the "Deduplication Supported Operating Systems" section of the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" < http://www.veritas.com/docs/000115691 > .
Copilot for Oracle	2.7.1	Supported with 5230, 5240, and 5330 only. For more information on this feature, see the "NetBackup Copilot for Oracle Configuration Guide" < http://www.veritas.com/docs/000002217 > .
Fibre Transport Media Server	2.0	Supported with 5220, 5230, 5240, and 5330 only.
Granular Recovery Technology (GRT)	1.2	
Granular Recovery Technology (GRT) with VMware-type policies	2.6	Support for VMware-type backup policies with Application Protection options enabled for Exchange or SharePoint.
Instant Recovery for VMware	2.6.1	Support for restoring virtual machines with Instant Recovery is described in the "NetBackup for VMware Administrator's Guide" < http://www.veritas.com/docs/000003214 > and in "Notes on Instant Recovery for VMware" < http://www.veritas.com/docs/000123863 > . For details on supported platforms for instant recovery restore hosts, see "Support for NetBackup 7.x and 8.x in virtual environments" < http://www.veritas.com/docs/000006177 > .
iSCSI Initiator - Hardware-assisted with TCP Offload Engine (TOE) card	3.0	Supported with configuration H of the 5240 only. Supports backup of VMware virtual machines using VADP with SAN transport. For more information on this feature, see the "NetBackup 5240 iSCSI Guide" < http://www.veritas.com/docs/000002217 > and the "NetBackup for VMware Administrator's Guide" < http://www.veritas.com/docs/000003214 > .
Key Management Service (KMS)	1.1.0.1 (Media Server) 2.6 (Master Server)	With version 2.6 and later, KMS is supported with Appliances configured as either a Master or a Media Server. With a NetBackupCLI administrator account in the NetBackup Appliance Shell Menu, an Appliance Master Server can administrate KMS with tape devices connected to itself or another NetBackup Appliance. Regenerating the data encryption key is the only supported method of recovering KMS on an Appliance Master Server. With versions earlier than 2.6, KMS is only supported when the Appliance is configured as a Media Server, and a non-Appliance Master Server is required to administrate KMS with devices connected to a NetBackup Appliance.
Media Server Encryption Option (MSEO)		There are no plans to support this feature.
NetBackup Access Control (NBAC)	1.1.0.1	Supported when the Appliance is configured as a Media Server only. Not supported when the Appliance is configured as a Master Server.
NDMP	1.1.0.1	
NetBackup Cluster		There are no plans to support this feature.

NetBackup 5200 Series and 5300 Series - Supported Functionality

Functionality	Minimum Appliance Release	Notes
NetBackup OpenStorage Cloud and Third-Party Plug-in Support	2.0.2	Supported plug-ins are listed in the "Support with NetBackup Appliance" tables shown in the OST Cloud and OST Storage Servers Vendor Compatibility sections. For instructions on installing vendor plug-in packages on the NetBackup Appliances, refer to the "Installing OpenStorage plugin" section in the "Veritas NetBackup Appliance Administrator's Guide" < https://www.veritas.com/support/en_US/58991/appliance-docs.html > .
OpsCenter	1.1.0.1	
OpsCenter Managed Server	2.0	
Optimized Duplication (Opt_Dup) over Ethernet	1.2	Supported from 5200/5300 Series to 5000 Series (MSDP to PDDO) and from 5200/5300 Series to 5200/5300 Series (MSDP to MSDP).
Optimized Duplication (Opt_Dup) over Fibre Channel (FC)	2.0 2.7.3	Supported from 5200/5300 Series to 5000 Series (MSDP to PDDO). Requires 5020 or 5030 Appliance running version 1.3.0.1 or later. Supported from 5200/5300 Series to 5200/5300 Series (MSDP to MSDP) with versions 2.7.3 or later.
Optimized Synthetics (Opt_Synth)	1.2	NetBackup Appliance version 2.0 or later/NetBackup 7.1 or later is recommended for Optimized Synthetics support.
Tape Drive Support	1.1.0.1 (FC) 3.1 (SAS)	Supported tape drives are listed in the "Support with NetBackup Appliance" tables shown in the Tape Drives Vendor Compatibility section. Shared Storage Option (SSO) is supported.
Tape Library Support	1.1.0.1 (TLD) 2.5 (ACS) 3.1 (SAS tape-out)	Supported tape libraries are listed with the notes "This library is also supported with NetBackup 5200 Series and 5300 Series Appliances" and "This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter" in the Tape Libraries Vendor Compatibility section. Use the NetBackup Device Configuration Wizard within the NetBackup Administration Console to configure robots and tape drives on the NetBackup Appliance.
Virtual Tape Library (VTL) Support	1.1.0.1 (TLD) 2.5 (ACS)	Supported VTLs are listed in the "Support with NetBackup Appliance" tables shown in the Virtual Tape Libraries Vendor Compatibility section. Use the NetBackup Device Configuration Wizard within the NetBackup Administration Console to configure VTLs and emulated tape drives on the NetBackup Appliance.

NetBackup 5000 Series Appliances (Deduplication)

The following table lists NetBackup 5000 Series release versions, the Appliance models supported with each version, and the equivalent Deduplication Appliance software versions. The latest 5000 Series documentation can be found at [<http://www.veritas.com/docs/000002833.>](http://www.veritas.com/docs/000002833) Late breaking news related to NetBackup Appliances can be found at [<http://www.veritas.com/docs/000010279.>](http://www.veritas.com/docs/000010279)

NetBackup 5000 Series - Supported Versions

NetBackup 5000 Series Appliance Release	Supported NetBackup Appliance Models	NetBackup 5000 Series Appliance Software Version
1.4.5	5030, 5020, 5000	6.6.5
1.4.4	5030, 5020, 5000	6.6.5
1.4.3.1	5020, 5000	6.6.4
1.4.2	5020, 5000	6.6.3a
1.4.1.1	5020, 5000	6.6.3a
1.4.1	5020, 5000	6.6.3
1.4	5020, 5000	6.6.2
1.3.0.2	5020, 5000	6.6.1.2
1.3.0.1	5020, 5000	6.6.1.2
1.2.0	5000	6.6.0.2
6.6 (Initial Release)	5000	6.6.0.2

The following table lists NetBackup 5000 Series supported functionality and indicates the Appliance software version at which that functionality was first supported.

NetBackup 5000 Series - Supported Functionality

Functionality	Minimum Appliance Release	Notes
Accelerator (for files and folders)	6.6 (Initial Release)	NetBackup 7.5 or later is required for Accelerator support.
Auto Image Replication	1.4	NetBackup 5030 Appliance or NetBackup 5020 Appliance version 1.4 or later is required for Auto Image Replication support.
Call Home	1.3.0.1	Enhancements to Call Home, Alerting, and Registration functionality are included in Appliance version 1.4.4 and later.
Client Deduplication / Client Direct over Ethernet	1.2.0	Veritas allows NetBackup Clients to write data directly to NetBackup Storage Server Appliances. The client hosts the deduplication plug-in that deduplicates the backup data. The plug-in sends only unique segments to the Storage Server, reducing network traffic and distributing CPU load. For the list of supported clients, see the "Deduplication Supported Operating Systems" section of the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" < http://www.veritas.com/docs/000115691 > .
Fibre Channel support for PDDO	1.3.0.1	NetBackup 5030 Appliance or NetBackup 5020 Appliance version 1.3.0.1 or later is required for Fibre Channel support for PDDO.
Granular Recovery Technology (GRT)	6.6 (Initial Release)	NetBackup 7.1 or later is required for Granular Recovery Technology support.
Intelligent Platform Management Interface (IPMI) support	1.4.2	NetBackup 5030 Appliance or NetBackup 5020 Appliance version 1.4.2 or later is required for IPMI support.
NetBackup OST Storage Server	6.6 (Initial Release)	Supported OpenStorage functionality and Media Server platforms are listed in the OST Storage Servers section of OST Secondary Storage Solutions.
Optimized Duplication (Opt_Dup)	6.6 (Initial Release)	
Optimized Duplication (Opt_Dup) from PDDO to MSDP	1.4.5	Supported from 5000 Series to 5200/5300 Series. Requires NetBackup 7.6.1 or later and NetBackup 5200/5300 Series Appliance 2.6.1 or later.
Optimized Synthetics (Opt_Synth)	6.6 (Initial Release)	NetBackup 7.1 or later is recommended for Optimized Synthetics support.
PureDisk Remote Office Appliance	6.6 (Initial Release)	Supported clients: Apple Mac OS, Hewlett Packard Enterprise HP-UX, IBM AIX, Microsoft Windows, SUSE Linux Enterprise Server, Red Hat Enterprise Linux, Oracle Solaris. Supported application agents: Microsoft Exchange, Microsoft SQL, Oracle. For specific versions see the "NetBackup PureDisk 6.6 Compatibility List" < http://www.veritas.com/docs/000040140 > (for 5000) and the "NetBackup PureDisk 6.6.1 Compatibility List" < http://www.veritas.com/docs/000008731 > (for 5020 and 5030).
Virtual Local Area Network (VLAN)	1.4.1.1	

OST Primary Storage Solutions - Replication Director

The NetBackup Replication Director feature offers a single NetBackup interface for end-to-end data protection for unified policy management, snapshot copy management, snapshot copy monitoring, and global search and restore.

Replication Director support information is listed below, organized by vendor. The tables provide information on the versions of software tested, supported attachment methods and functionality, and other important notes about the hardware and its compatibility.

For more information on NetBackup Replication Director, see "[About NetBackup Replication Director](http://www.veritas.com/docs/000121084)" <<http://www.veritas.com/docs/000121084>> . This document contains links to important information about Replication Director requirements, latest issues, best practices, product documentation, limitations, and eLearning tutorial videos.

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<u>Replication Director - Considerations</u>	<u>Replication Director - Supported Platforms for Block-attached Storage</u>	<u>Replication Director - Supported Platforms for NAS-attached Storage</u>
<u>Replication Director - Links to Vendor Sites</u>	<u>Replication Director - Supported Functionality</u>	<u>Replication Director - Vendor Compatibility</u>

Replication Director - Considerations

Subject	Notes
Support assumptions	For details on supported operating systems, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" <http://www.veritas.com/docs/000115691> . 1. Where support is shown for "Windows Server" it also means that the other editions of Windows Server and Windows Storage Server are supported, unless noted otherwise. Windows Server 2008 Core Installation is not supported as a NetBackup Media Server. Windows 2012 Core and 2012 R2 Core are supported as a NetBackup Media Server. 2. CentOS and Oracle Linux are not supported with Replication Director, unless noted otherwise. 3. In the vendor compatibility tables below, the column "NetBackup Version" indicates the NetBackup 8.x version at which that vendor software was first supported.
Vendor support considerations	1. In the vendor compatibility tables below, the column "Vendor Software" lists the vendor-supplied software that communicates with NetBackup OpenStorage. Refer to the storage vendor's NetBackup Replication Director site for details on the components that comprise this package. 2. Minor versions of the vendor software listed in the tables below are also supported. (Example: Version "2.0" means versions 2.0.1, 2.0.2, 2.0p1, 2.0p2, etc. are also supported. Version "3" means versions 3.1, 3.2, 3.1p1, 3.1p2, etc. are also supported.)
Operating system support dropped	1. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later. 2. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.

Replication Director - Supported Platforms for Block-attached Storage

Replication Director is supported with block-attached storage on the NetBackup Client and Media Server platforms listed in the table below. The table indicates the NetBackup 8.x version at which that platform was first supported with block-attached storage with Replication Director. The table also lists the file systems and multipathing tools supported on each platform.

Operating System	NetBackup 8.x Client Start of Support	NetBackup 8.x Media Server Start of Support	File System/Volume Manager	Multipathing Tools
AIX 6.1 on POWER	8.0 GA	8.0 GA	JFS2/LVM	
AIX 7.2 on POWER	Not supported	8.0 GA		
HP-UX 11.31 on IA64	8.0 GA	8.0 GA	VxFS/LVM VxFS/none online JFS/LVM online JFS/none	VxDMP HP-UX Native Multipathing
Red Hat Enterprise Linux 5 on x86-64	8.0 GA	8.0 GA	VxFS/VxVM ext3/none	VxDMP DM-MPIO
Red Hat Enterprise Linux 6 on x86-64	8.0 GA	8.0 GA	VxFS/VxVM ext3/none	
Red Hat Enterprise Linux 7 on x86-64	Not supported	8.0 GA		
Solaris 10 on SPARC	8.0 GA	8.0 GA	VxFS/VxVM UFS/none	VxDMP Solaris MPxIO
SUSE Linux Enterprise Server 11 on x86-64	8.0 GA	8.0 GA	VxFS/VxVM ext3/none	
SUSE Linux Enterprise Server 12 on x86-64	Not supported	8.0 GA		
Windows Server 2008 R2 on x64	8.0 GA	8.0 GA	NTFS/native volume manager	VxDMP Windows MPIO Data ONTAP DSM for Windows MPIO
Windows Server 2016 on x64	Not supported	8.0 GA		

Replication Director - Supported Platforms for NAS-attached Storage

Replication Director is supported with NAS-attached storage on the NetBackup Client and Media Server platforms listed in the table below. The table indicates the NetBackup 8.x version at which that platform was first supported with NAS-attached storage with Replication Director.

With NAS-attached storage, Replication Director supports NFS file systems on UNIX platforms and CIFS file systems on Windows platforms.

Operating System	NetBackup 8.x Client Start of Support	NetBackup 8.x Media Server Start of Support
AIX 6.1 on POWER	8.0 GA	8.0 GA
AIX 7.1 on POWER	8.0 GA	8.0 GA
AIX 7.2 on POWER	Not supported	8.0 GA
HP-UX 11.31 on IA64	8.0 GA	8.0 GA
Red Hat Enterprise Linux 5 on x86-64	8.0 GA	8.0 GA
Red Hat Enterprise Linux 6 on x86-64	8.0 GA	8.0 GA
Red Hat Enterprise Linux 7 on x86-64	8.0 GA	8.0 GA
Solaris 10 on SPARC	8.0 GA	8.0 GA
Solaris 11 on SPARC	8.0 GA	8.0 GA [1]
SUSE Linux Enterprise Server 11 on x86-64	8.0 GA	8.0 GA
SUSE Linux Enterprise Server 12 on x86-64	8.0 GA	8.0 GA
Windows Server 2008 R2 on x64	8.0 GA	8.0 GA
Windows Server 2012 on x64	8.0 GA	8.0 GA
Windows Server 2012 R2 on x64	8.0 GA	8.0 GA
Windows Server 2016 on x64	8.0 GA	8.0 GA

1. Requires Solaris 11.2 or later.

Replication Director - Links to Vendor Sites

Vendor-specific information on NetBackup Replication Director solutions is available at the storage vendor's website. The following table also contains links to Veritas Articles with information on identifying the version of the NetBackup Replication Director plug-in.

Vendor	Vendor Replication Director Solution Information/Compatibility	Vendor Software Version Information
EMC		<http://www.veritas.com/docs/000024657> <http://www.veritas.com/docs/000120251>
NetApp	<https://support.netapp.com/matrix/>	<http://www.veritas.com/docs/000120962> <http://www.veritas.com/docs/000120251>

Replication Director - Supported Functionality

The following table lists NetBackup Replication Director functionality and indicates the NetBackup 8.x version at which that functionality was first supported. For more information on Replication Director functionality, see the ["NetBackup Replication Director Solutions Guide"](http://www.veritas.com/docs/000003214) [<http://www.veritas.com/docs/000003214>](http://www.veritas.com/docs/000003214).

For supported versions of agents, see the ["NetBackup 8.0 - 8.x.x Database and Application Agent Compatibility List"](http://www.veritas.com/docs/000115692) [<http://www.veritas.com/docs/000115692>](http://www.veritas.com/docs/000115692). The version information contained in that document also applies to databases and applications residing in VMware Virtual Machines.

For supported versions of VMware, see ["Support for NetBackup 7.x and 8.x in virtual environments"](http://www.veritas.com/docs/000006177) [<http://www.veritas.com/docs/000006177>](http://www.veritas.com/docs/000006177).

NetBackup-directed Operations	Abbreviation	NetBackup 8.x Start of Support
Array-based Restore	Array-based_Restore	8.0 GA
Snapshot Management for File System	Snapshot_Mgmt_FS	8.0 GA
Snapshot Replication for File System	Snapshot_Repl_FS	8.0 GA
Snapshot Management for Oracle	Snapshot_Mgmt_Oracle	8.0 GA
Snapshot Replication for Oracle	Snapshot_Repl_Oracle	8.0 GA
Snapshot Management for VMware	Snapshot_Mgmt_VMware	8.0 GA
Snapshot Replication for VMware	Snapshot_Repl_VMware	8.0 GA
Snapshot Management for Microsoft Exchange on VMware	Snapshot_Mgmt_VMware_Exchange	8.0 GA
Snapshot Replication for Microsoft Exchange on VMware	Snapshot_Repl_VMware_Exchange	8.0 GA
Snapshot Management for Microsoft SQL Server on VMware	Snapshot_Mgmt_VMware_SQL	8.0 GA

NetBackup-directed Operations	Abbreviation	NetBackup 8.x Start of Support
Snapshot Replication for Microsoft SQL Server on VMware	Snapshot_Repl_VMware_SQL	8.0 GA
Snapshot Management for Oracle on NFS Storage	Snapshot_Mgmt_Oracle_NFS	8.0 GA
Snapshot Replication for Oracle on NFS Storage	Snapshot_Repl_Oracle_NFS	8.0 GA
Snapshot Management for VMware with NFS Attached Datastores	Snapshot_Mgmt_VMware_NFS	8.0 GA
Snapshot Replication for VMware with NFS Attached Datastores	Snapshot_Repl_VMware_NFS	8.0 GA
Snapshot Management for Microsoft Exchange on VMware with NFS Attached Datastores	Snapshot_Mgmt_VMware_Exchange_NFS	8.0 GA
Snapshot Replication for Microsoft Exchange on VMware with NFS Attached Datastores	Snapshot_Repl_VMware_Exchange_NFS	8.0 GA
Snapshot Management for Microsoft SQL Server on VMware with NFS Attached Datastores	Snapshot_Mgmt_VMware_SQL_NFS	8.0 GA
Snapshot Replication for Microsoft SQL Server on VMware with NFS Attached Datastores	Snapshot_Repl_VMware_SQL_NFS	8.0 GA

Replication Director - Vendor Compatibility

Contents

<u>EMC</u>	<u>NetApp</u>
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EMC

EMC - Support with Windows / Linux

Storage Family	Attachment Method	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Compatible Vendor Software	Supported Functionality	NetBackup Client Support	NetBackup Media Server Support	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Celerra [1] [2] [3]	NAS	NetBackup 8.0 and later		Array-based_Restore Snapshot_Mgmt_FS Snapshot_Mgmt_Oracle Snapshot_Mgmt_VMware Snapshot_Mgmt_VMware_Exchange Snapshot_Mgmt_VMware_SQL	Yes	Yes	Enterprise Edition [4]	Datacenter	6, 7	11, 12
VNX Series [1] [2] [3] [5]	NAS	NetBackup 8.0 and later		Array-based_Restore Snapshot_Mgmt_FS Snapshot_Mgmt_Oracle Snapshot_Mgmt_VMware Snapshot_Mgmt_VMware_Exchange Snapshot_Mgmt_VMware_SQL	Yes	Yes	Enterprise Edition [4]	Datacenter	6, 7	11, 12
VNX2 Series [1] [2] [3] [6]	NAS	NetBackup 8.0 and later		Array-based_Restore Snapshot_Mgmt_FS Snapshot_Mgmt_Oracle Snapshot_Mgmt_VMware Snapshot_Mgmt_VMware_Exchange Snapshot_Mgmt_VMware_SQL	Yes	Yes	Enterprise Edition [4]	Datacenter	6, 7	11, 12

1. For information on support with earlier NetBackup versions, see the corresponding HCLs at <http://www.netbackup.com/compatibility.>>
2. For more information, see "Using NetBackup Replication Director to create snapshots of EMC VNX and Celerra storage systems" <http://www.veritas.com/docs/000024657>> .
3. This solution will not be supported with NetBackup 8.1 and later.
4. Requires Windows 2008 R2 or later.
5. All models in the EMC VNX Series are supported (VNX5100, VNX5300, VNX5500, VNX5700, VNX7500).
6. All models in the EMC VNX2 Series are supported (VNX5200, VNX5400, VNX5600, VNX5800, VNX7600, VNX8000).

EMC - Support with UNIX

Storage Family	Attachment Method	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Compatible Vendor Software	Supported Functionality	NetBackup Client Support	NetBackup Media Server Support	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Celerra [1] [2] [3]	NAS	NetBackup 8.0 and later		Array-based_Restore Snapshot_Mgmt_FS Snapshot_Mgmt_Oracle Snapshot_Mgmt_VMware Snapshot_Mgmt_VMware_Exchange Snapshot_Mgmt_VMware_SQL	Yes	Yes	6.1, 7.1	11.31	10, 11 [4]
VNX Series [1] [2] [3] [5]	NAS	NetBackup 8.0 and later		Array-based_Restore Snapshot_Mgmt_FS Snapshot_Mgmt_Oracle Snapshot_Mgmt_VMware Snapshot_Mgmt_VMware_Exchange Snapshot_Mgmt_VMware_SQL	Yes	Yes	6.1, 7.1	11.31	10, 11 [4]
VNX2 Series [1] [2] [3] [6]	NAS	NetBackup 8.0 and later		Array-based_Restore Snapshot_Mgmt_FS Snapshot_Mgmt_Oracle Snapshot_Mgmt_VMware Snapshot_Mgmt_VMware_Exchange Snapshot_Mgmt_VMware_SQL	Yes	Yes	6.1, 7.1	11.31	10, 11 [4]

1. For information on support with earlier NetBackup versions, see the corresponding HCLs at <http://www.netbackup.com/compatibility.>>
2. For more information, see "Using NetBackup Replication Director to create snapshots of EMC VNX and Celerra storage systems" [<http://www.veritas.com/docs/000024657>](http://www.veritas.com/docs/000024657) .
3. This solution will not be supported with NetBackup 8.1 and later.
4. Media Server support for Solaris 11 requires Solaris 11.2 or later.
5. All models in the EMC VNX Series are supported (VNX5100, VNX5300, VNX5500, VNX5700, VNX7500).
6. All models in the EMC VNX2 Series are supported (VNX5200, VNX5400, VNX5600, VNX5800, VNX7600, VNX8000).

NetApp

NetApp - Support with NetBackup Appliance

Storage Family	Attachment Method	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Compatible Vendor Software	Supported Functionality	NetBackup Client Support	NetBackup Media Server Support	5200 Series	5300 Series
FAS Series	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	Data ONTAP 9.0 OnCommand Unified Manager 6.4P2 and later OnCommand Unified Manager 7.0 OnCommand Unified Manager 7.1 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Yes [1]	Yes [1]
FAS Series	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	Data ONTAP 9.1 OnCommand Unified Manager 7.0 OnCommand Unified Manager 7.1 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Yes [1]	Yes [1]

1. Supported with NetBackup Appliances running version 2.7.1 or later.

NetApp - Support with Windows / Linux

Storage Family	Attachment Method	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Compatible Vendor Software	Supported Functionality	NetBackup Client Support	NetBackup Media Server Support	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
FAS Series [1] [2] [3]	NAS	NetApp Plug-in 2.0 for Symantec NetBackup	Clustered Data ONTAP 8.2.3 Clustered Data ONTAP 8.2.4 Clustered Data ONTAP 8.3 Clustered Data ONTAP 8.3.1 Clustered Data ONTAP 8.3.2 OnCommand Unified Manager 6.2 OnCommand Unified Manager 6.3 OnCommand Unified Manager 6.4 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Enterprise Edition [4]	Datacenter	No	6, 7	11

NetApp - Support with Windows / Linux

Storage Family	Attachment Method	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Compatible Vendor Software	Supported Functionality	NetBackup Client Support	NetBackup Media Server Support	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
FAS Series [1] [2] [3]	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	Clustered Data ONTAP 8.2.3 Clustered Data ONTAP 8.2.4 Clustered Data ONTAP 8.3 Clustered Data ONTAP 8.3.1 Clustered Data ONTAP 8.3.2 OnCommand Unified Manager 6.2 OnCommand Unified Manager 6.3 OnCommand Unified Manager 6.4 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Enterprise Edition [4]	Datacenter	Datacenter	6, 7	11

NetApp - Support with Windows / Linux

Storage Family	Attachment Method	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Compatible Vendor Software	Supported Functionality	NetBackup Client Support	NetBackup Media Server Support	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
FAS Series	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	Data ONTAP 9.0 OnCommand Unified Manager 6.4P2 and later OnCommand Unified Manager 7.0 OnCommand Unified Manager 7.1 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Enterprise Edition [4] [5]	Datacenter [5]	Datacenter [5]	6, 7	No
FAS Series	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	Data ONTAP 9.1 OnCommand Unified Manager 7.0 OnCommand Unified Manager 7.1 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS Snapshot_Mgmt_VMware_NFS Snapshot_Repl_VMware_NFS Snapshot_Mgmt_VMware_Exchange_NFS Snapshot_Repl_VMware_Exchange_NFS Snapshot_Mgmt_VMware_SQL_NFS Snapshot_Repl_VMware_SQL_NFS	Yes	Yes	Enterprise Edition [4] [5]	Datacenter [5]	Datacenter [5]	6, 7	No

1. Requires Clustered Data ONTAP version 8.2.3P4 or later.
2. Requires OnCommand Unified Manager version 6.2P2 or later.
3. Support for NDMP live browse requires Clustered Data ONTAP 8.3 or later.
4. Requires Windows 2008 R2 or later.
5. Fully-qualified domain names are not supported with NFS-attached datastores on VMware.

NetApp - Support with UNIX

Storage Family	Attachment Method	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Compatible Vendor Software	Supported Functionality	NetBackup Client Support	NetBackup Media Server Support	AIX on POWER	HP-UX on IA64	Solaris on SPARC
FAS Series [1] [2] [3]	NAS	NetApp Plug-in 2.0 for Symantec NetBackup	Clustered Data ONTAP 8.2.3 Clustered Data ONTAP 8.2.4 Clustered Data ONTAP 8.3 Clustered Data ONTAP 8.3.1 Clustered Data ONTAP 8.3.2 OnCommand Unified Manager 6.2 OnCommand Unified Manager 6.3 OnCommand Unified Manager 6.4 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS	Yes	Yes	6.1, 7.1	11.31	11 [4]
FAS Series [1] [2] [3]	NAS	NetApp Plug-in 2.0.1 for Symantec NetBackup	Clustered Data ONTAP 8.2.3 Clustered Data ONTAP 8.2.4 Clustered Data ONTAP 8.3 Clustered Data ONTAP 8.3.1 Clustered Data ONTAP 8.3.2 OnCommand Unified Manager 6.2 OnCommand Unified Manager 6.3 OnCommand Unified Manager 6.4 See the Replication Director Vendor Links table for more information.	Array-based_Restore Snapshot_Mgmt_FS Snapshot_Repl_FS Snapshot_Mgmt_Oracle_NFS Snapshot_Repl_Oracle_NFS	Yes	Yes	6.1, 7.1	11.31	11 [4]

1. Requires Clustered Data ONTAP version 8.2.3P4 or later.
2. Requires OnCommand Unified Manager version 6.2P2 or later.
3. Support for NDMP live browse requires Clustered Data ONTAP 8.3 or later.
4. Media Server support for Solaris 11 requires Solaris 11.2 or later.

Snapshot Client

This section contains Snapshot Client compatibility information for Veritas NetBackup 8.x.x. It covers NetBackup Server (which includes Enterprise Server and Server), Client, and Snapshot Client.

Veritas supports standard unaltered kernel/Operating System levels. Should an issue arise on a revised kernel, Operating System, or virtual system environment, Veritas support may request the recreation of the problem with the standard operating environment distribution.

Veritas Storage Foundation Compatibility

Storage Foundation file system and volume manager are supported as the Snapshot Client stack based on Operating System requirements of the Storage Foundation product. For specific OS compatibility information regarding Storage Foundation, please see "[Veritas Services and Operations Readiness Tools \(SORT\)](https://sort.veritas.com)" <<https://sort.veritas.com>> .

FlashBackup policy limitation: The NetBackup FlashBackup policy is not supported on Veritas File System (VxFS) layout versions 8 and beyond, versions 7 and earlier are supported.

Third-Party Products

When a problem may be related to product(s) from a third-party vendor with whom Veritas has a cooperative or collaborative relationship on such product(s), then Veritas will work with that vendor in an attempt to resolve the problem, but resolution is not guaranteed. When Veritas does not have such a support relationship in place with the third-party vendor, or when the vendor ceases to support such product(s), then our ability to support Veritas Licensed Software operating with such vendor's product(s) may be limited, affected, or prevented (and such third party product(s) may cease to be part of Veritas-supported configuration(s)). Veritas support may be limited by the hardware or software vendor due to their support lifecycle. Should a vendor announce End of Support for a product, Veritas support may be limited.

Oracle Agent Support

Oracle ASM Environment is not supported.

Snapshot Client - Considerations

Subject	Notes
Support assumptions	For details on supported operating systems, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" <http://www.veritas.com/docs/000115691> . 1. Where support is shown for "Windows Server" it also means that the other editions of Windows Server and Windows Storage Server are supported, unless noted otherwise. Windows Server 2008 Core Installation is not supported as a NetBackup Media Server. Windows 2012 Core and 2012 R2 Core are supported as a NetBackup Media Server.
Operating system support dropped	1. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later. 2. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.

Snapshot Client - Vendor Compatibility

Contents

<u>Microsoft Volume Shadow Copy Service (Microsoft VSS)</u>	<u>Array-based Snapshot Methods</u>	<u>Software-based Snapshot Methods</u>
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Microsoft Volume Shadow Copy Service (Microsoft VSS)

Snapshot Client - VSS Snapshot Providers Support for Microsoft Windows Considerations

Subject	Notes
Support assumptions	- Array vendor tables have been removed from this section as Veritas NetBackup has an open support policy for Microsoft Volume Shadow Copy Service (VSS) snapshots. - Support is implied if an array vendor supplies and actively supports a VSS provider, or when using a Veritas Storage Foundation VxVM provider, or when using the Microsoft Default System provider. - Support includes Local, Alternate Client, FlashBackup-Windows Local, and FlashBackup-Windows Alternate Client snapshot methods. - Support extends to NetBackup application agents, Windows virtual machines using VMware RDM disks or Hyper-V Pass-Thru disks, and NetBackup for Hyper-V backups of VM snapshots. - Snapshot roll back (Snapshot Client Instant Recovery) is not supported, use the copy back method instead. - Consult with your array vendor on VSS provider availability.

Array-based Snapshot Methods

EMC

Symmetrix

DMX

DMX series family membership

Array Family	Members
Symmetrix DMX series	Symmetrix DMX 1000, Symmetrix DMX 2000, Symmetrix DMX 3000, Symmetrix DMX 800, Symmetrix DMX-3, Symmetrix DMX-4

HPE HP-UX 11.31 IA64

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
Symmetrix DMX series	EMC TimeFinder Snap	EMC Solution Enabler	File System Oracle Agent DB2 Agent	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	RAW / VxVM VxFS / VxVM
Symmetrix DMX series	EMC TimeFinder Clone	EMC Solution Enabler	File System Oracle Agent DB2 Agent	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	RAW / VxVM VxFS / VxVM
Symmetrix DMX series	EMC TimeFinder Mirror	EMC Solution Enabler	File System Oracle Agent DB2 Agent	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	RAW / VxVM VxFS / VxVM

Oracle Solaris 10 SPARC

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
Symmetrix DMX series	EMC TimeFinder Snap	EMC Solution Enabler	File System Oracle Agent DB2 Agent	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	RAW / VxVM VxFS / VxVM
Symmetrix DMX series	EMC TimeFinder Clone	EMC Solution Enabler	File System Oracle Agent DB2 Agent	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	RAW / VxVM VxFS / VxVM
Symmetrix DMX series	EMC TimeFinder Mirror	EMC Solution Enabler	File System Oracle Agent DB2 Agent	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	RAW / VxVM VxFS / VxVM

VMAX

VMAX series family membership

Array Family	Members
Symmetrix VMAX series	Symmetrix VMAX, Symmetrix VMAXe

AIX 6.1

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
Symmetrix VMAX series	EMC TimeFinder Snap	EMC Solution Enabler	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	JFS2 / LVM
Symmetrix VMAX series	EMC TimeFinder Snap	EMC Solution Enabler	SAP Oracle Agent	Local Client Alternate Client	JFS2 / LVM
Symmetrix VMAX series	EMC TimeFinder Clone	EMC Solution Enabler	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	JFS2 / LVM
Symmetrix VMAX series	EMC TimeFinder Clone	EMC Solution Enabler	SAP Oracle Agent	Local Client Alternate Client	JFS2 / LVM
Symmetrix VMAX series	EMC TimeFinder Mirror	EMC Solution Enabler	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	JFS2 / LVM
Symmetrix VMAX series	EMC TimeFinder Mirror	EMC Solution Enabler	SAP Oracle Agent	Local Client Alternate Client	JFS2 / LVM

Oracle Solaris 10 SPARC

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
Symmetrix VMAX series	EMC TimeFinder Snap	EMC Solution Enabler	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	VxFS / VxVM

Oracle Solaris 10 SPARC

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
Symmetrix VMAX series	EMC TimeFinder Clone	EMC Solution Enabler	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	VxFS / VxVM
Symmetrix VMAX series	EMC TimeFinder Mirror	EMC Solution Enabler	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	VxFS / VxVM

VNX

VNX series family membership

Array Family	Members
VNX series	VNX 5100, VNX 5300, VNX 5500, VNX 5700, VNX 7500

HPE HP-UX 11.31 IA-64

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
VNX series	EMC VNX SnapView Clone	EMC Navisphere CLI	File System	Local Snapshot Local Snapshot with Instant Recovery	online JFS / LVM

Red Hat Enterprise Linux 6

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
VNX series	EMC VNX SnapView Clone	EMC Navisphere CLI	File System	Local Snapshot Alternate Client	ext3 / none
VNX series	EMC VNX SnapView Clone	EMC Navisphere CLI	DB2 Agent	Local Snapshot	ext3 / none
VNX series	EMC VNX SnapView Clone	EMC Navisphere CLI	File System	Local Snapshot Alternate Client	VxFS / VxVM

Hitachi

AMS2000

AMS2000 series family membership

Array Family	Members
AMS2000 series	AMS2100, AMS2300, AMS2500

Oracle Solaris 10 SPARC

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
AMS2000 series	Hitachi_CopyOnWrite	Hitachi RAID Manager	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	RAW / VxVM VxFS / VxVM UFS / none
AMS2000 series	Hitachi_ShadowImage	Hitachi RAID Manager	File System Oracle Agent SAP Oracle Agent	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	RAW / VxVM VxFS / VxVM UFS / none

Red Hat Enterprise Linux 5

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
AMS2000 series [1]	Hitachi_CopyOnWrite	Hitachi RAID Manager	File System Oracle Agent	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	ext3 / none
AMS2000 series [1]	Hitachi_CopyOnWrite	Hitachi RAID Manager	File System	FlashBackup Local Snapshot FlashBackup Alternate Client	ext3 / none
AMS2000 series [1]	Hitachi_ShadowImage	Hitachi RAID Manager	File System Oracle Agent SAP Oracle Agent	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	ext3 / none
AMS2000 series [1]	Hitachi_ShadowImage	Hitachi RAID Manager	File System	FlashBackup Local Snapshot FlashBackup Alternate Client	ext3 / none

1. Red Hat Enterprise Linux 5 is not supported as a media server or client with NetBackup 8.1 and later.

Red Hat Enterprise Linux 6

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
AMS2000 series	Hitachi_CopyOnWrite	Hitachi RAID Manager	File System Oracle Agent	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	ext4 / none
AMS2000 series	Hitachi_CopyOnWrite	Hitachi RAID Manager	File System	FlashBackup Local Snapshot FlashBackup Alternate Client	ext4 / none
AMS2000 series	Hitachi_ShadowImage	Hitachi RAID Manager	File System Oracle Agent SAP Oracle Agent	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	ext4 / none

Red Hat Enterprise Linux 6

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
AMS2000 series	Hitachi_ShadowImage	Hitachi RAID Manager	File System	FlashBackup Local Snapshot FlashBackup Alternate Client	ext4 / none

VSP Gx00/Fx00 series family membership

Array Family	Members
VSP Gx00/Fx00 series	VSP F400, VSP F600, VSP F800, VSP G200, VSP G400, VSP G600, VSP G800

Red Hat Enterprise Linux 5

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
VSP Gx00/Fx00 series [1]	Hitachi_CopyOnWrite-Hitachi Thin Image [2]	Hitachi RAID Manager	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client	ext3 / none
VSP Gx00/Fx00 series [1]	Hitachi_ShadowImage	Hitachi RAID Manager	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client	ext3 / none

1. Red Hat Enterprise Linux 5 is not supported as a media server or client with NetBackup 8.1 and later.
2. Select Hitachi_CopyOnWrite during NetBackup policy configuration to configure Hitachi Thin Image snapshot type.

Red Hat Enterprise Linux 6

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
VSP Gx00/Fx00 series	Hitachi_CopyOnWrite-Hitachi Thin Image [1]	Hitachi RAID Manager	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client	ext4 / none
VSP Gx00/Fx00 series	Hitachi_ShadowImage	Hitachi RAID Manager	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client	ext4 / none

1. Select Hitachi_CopyOnWrite during NetBackup policy configuration to configure Hitachi Thin Image snapshot type.

VSP G

VSP G series family membership

Array Family	Members
VSP G series	VSP F1500, VSP G1000, VSP G1500

Red Hat Enterprise Linux 5

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
VSP G series [1] [2]	Hitachi_CopyOnWrite-Hitachi Thin Image [3]	Hitachi RAID Manager	File System Oracle Agent	Local Snapshot Alternate Client	ext3 / none
VSP G series [1] [2]	Hitachi_ShadowImage	Hitachi RAID Manager	File System Oracle Agent	Local Snapshot Alternate Client	ext3 / none

1. Red Hat Enterprise Linux 5 is not supported as a media server or client with NetBackup 8.1 and later.
2. Supported with EEB from Veritas Support. Contact Support and ask for EEB associated with Etrack 3879872 for NetBackup 7.7.2, EEB associated with Etrack 3906984 for NetBackup 7.7.3, EEB associated with Etrack 3912564 for NetBackup 8.0.
3. Select Hitachi_CopyOnWrite during NetBackup policy configuration to configure Hitachi Thin Image snapshot type.

Red Hat Enterprise Linux 6

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
VSP G series [1]	Hitachi_CopyOnWrite-Hitachi Thin Image [2]	Hitachi RAID Manager	File System Oracle Agent	Local Snapshot Alternate Client	ext4 / none
VSP G series [1]	Hitachi_ShadowImage	Hitachi RAID Manager	File System Oracle Agent	Local Snapshot Alternate Client	ext4 / none

1. Supported with EEB from Veritas Support. Contact Support and ask for EEB associated with Etrack 3879872 for NetBackup 7.7.2, EEB associated with Etrack 3906984 for NetBackup 7.7.3, EEB associated with Etrack 3912564 for NetBackup 8.0.

2. Select Hitachi_CopyOnWrite during NetBackup policy configuration to configure Hitachi Thin Image snapshot type.

Hewlett Packard Enterprise

EVA6400/8400

EVA6400/8400 series family membership

Array Family	Members
EVA6400/8400 series	EVA6400, EVA8400

HPE HP-UX 11.31 IA64

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
EVA6400/8400 series	HPE EVA Snapclone	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	online JFS / LVM
EVA6400/8400 series	HPE EVA Snapshot	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	online JFS / LVM
EVA6400/8400 series	HPE EVA Vsnap	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	online JFS / LVM

Oracle Solaris 10 SPARC

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
EVA6400/8400 series	HPE EVA Snapclone	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	Raw / None UFS / None
EVA6400/8400 series	HPE EVA Snapshot	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	Raw / None UFS / None
EVA6400/8400 series	HPE EVA Vsnap	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	Raw / None UFS / None

Red Hat Enterprise Linux 6

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
EVA6400/8400 series	HPE EVA Snapclone	HPE Storage System Scripting Utility	File System	Local Snapshot Local Snapshot with Instant Recovery Alternate Client Alternate Client with Instant Recovery	ext3 / none
EVA6400/8400 series	HPE EVA Snapshot	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	ext3 / none
EVA6400/8400 series	HPE EVA Vsnap	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	ext3 / none

SUSE Linux Enterprise Server 11

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
EVA6400/8400 series	HPE EVA Snapclone	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	Ext3 / None Raw / None
EVA6400/8400 series	HPE EVA Snapshot	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	Ext3 / None Raw / None
EVA6400/8400 series	HPE EVA Vsnap	HPE Storage System Scripting Utility	File System	Local Snapshot Alternate Client	Ext3 / None Raw / None

Red Hat Enterprise Linux 5

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
XP7 [1] [2]	HPE XP BusinessCopy	RAID Manager Library	File System Oracle Agent	Local Snapshot Alternate Client	ext3 / none

1. Red Hat Enterprise Linux 5 is not supported as a media server or client with NetBackup 8.1 and later.
2. Supported with EEB from Veritas Support. Contact Support and ask for EEB associated with Etrack 3879872 for NetBackup 7.7.2, EEB associated with Etrack 3906984 for NetBackup 7.7.3, EEB associated with Etrack 3912564 for NetBackup 8.0.

Red Hat Enterprise Linux 6

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
XP7 [1]	HPE XP BusinessCopy	RAID Manager Library	File System Oracle Agent	Local Snapshot Alternate Client	ext4 / none

1. Supported with EEB from Veritas Support. Contact Support and ask for EEB associated with Etrack 3879872 for NetBackup 7.7.2, EEB associated with Etrack 3906984 for NetBackup 7.7.3, EEB associated with Etrack 3912564 for NetBackup 8.0.

Red Hat Enterprise Linux 5

Storage Family	Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
XP P9500 [1]	HPE XP BusinessCopy	RAID Manager Library	File System	Local Snapshot Local Snapshot with Instant Recovery	Ext3 / None
XP P9500	HPE XP Snapshot	RAID Manager Library	File System	Local Snapshot Local Snapshot with Instant Recovery	Ext3 / None

1. Red Hat Enterprise Linux 5 is not supported as a media server or client with NetBackup 8.1 and later.

Software-based Snapshot Methods

Veritas Storage Foundation 6

HPE HP-UX 11.31 IA64

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
FlashSnap	Veritas Storage Foundation	File System	FlashBackup Local Snapshot	VxFS / VxVM
FlashSnap	Veritas Storage Foundation	File System Oracle Agent SAP Oracle Agent	Alternate Client Alternate Client with Instant Recovery	online JFS / VxVM Raw / VxVM VxFS / VxVM
VxFS_Snapshot	Veritas Storage Foundation	File System	FlashBackup Local Snapshot	VxFS / VxVM
vxvm	Veritas Storage Foundation	File System	FlashBackup Local Snapshot	VxFS / VxVM
vxvm	Veritas Storage Foundation	File System Oracle Agent SAP Oracle Agent	Local Snapshot Local Snapshot with Instant Recovery	online JFS / VxVM Raw / VxVM VxFS / VxVM

IBM AIX 6.1

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
BLIB [1]	Veritas Storage Foundation	DB 2 Oracle Agent	Local Snapshot	VxFS / VxVM
VxFS_Checkpoint	Veritas Storage Foundation	File System Oracle Agent	Local Snapshot Local Snapshot with Instant Recovery	VxFS / LVM VxFS / VxVM
VxFS_Snapshot	Veritas Storage Foundation	File System	FlashBackup Local Snapshot	VxFS / LVM VxFS / VxVM
vxvm	Veritas Storage Foundation	File System	FlashBackup Local Snapshot	VxFS / VxVM

1. Block-Level Incremental Backup. BLIB is not configured as a snapshot; but as a separate option in the policy. For more information, see the ["NetBackup Administrator's Guide"](http://www.veritas.com/docs/000003214) <<http://www.veritas.com/docs/000003214>> .

IBM AIX 7.1

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
BLIB [1]	Veritas Storage Foundation	DB2 Oracle Agent	Local Snapshot with Instant Recovery	VxFS / VxVM
VxFS_Checkpoint	Veritas Storage Foundation	File System Oracle Agent	Local Snapshot Local Snapshot with Instant Recovery	VxFS / LVM VxFS / VxVM

1. Block-Level Incremental Backup. BLIB is not configured as a snapshot; but as a separate option in the policy. For more information, see the "[NetBackup Administrator's Guide](http://www.veritas.com/docs/000003214)" <<http://www.veritas.com/docs/000003214>> .

Microsoft Windows 2008 x64

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
FlashSnap	Veritas Storage Foundation	File System	Alternate Client Alternate Client with Instant Recovery FlashBackup-Windows Local Snapshot	NTFS / VxVM
FlashSnap	Veritas Storage Foundation	DB2 Agent Oracle Agent SAP Oracle Agent SQL Server Agent	Alternate Client Alternate Client with Instant Recovery	NTFS / VxVM
vxvm	Veritas Storage Foundation	File System	Local Snapshot Local Snapshot with Instant Recovery FlashBackup-Windows Local Snapshot	NTFS / VxVM
vxvm	Veritas Storage Foundation	DB2 Agent Oracle Agent SAP Oracle Agent SQL Server Agent	Local Snapshot Local Snapshot with Instant Recovery	NTFS / VxVM

Red Hat Enterprise Linux 5

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
FlashSnap [1]	Veritas Storage Foundation	File System	FlashBackup-Windows Local Snapshot	VxFS / VxVM
vxvm [1]	Veritas Storage Foundation	File System	FlashBackup-Windows Local Snapshot	VxFS / VxVM

1. Red Hat Enterprise Linux 5 is not supported as a media server or client with NetBackup 8.1 and later.

Red Hat Enterprise Linux 6

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
vxvm	Veritas Storage Foundation	File System	Local Snapshot Local Snapshot with Instant Recovery	RAW / VxVM VxFS / VxVM

Red Hat Enterprise Linux 7

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
vxvm	Veritas Storage Foundation	File System	Local Snapshot Local Snapshot with Instant Recovery	RAW / VxVM VxFS / VxVM

SUSE Linux Enterprise Server 12

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
FlashSnap	Veritas Storage Foundation	File System	Alternate Client Alternate Client with Instant Recovery	RAW / VxVM VxFS / VxVM
vxvm	Veritas Storage Foundation	File System	Local Snapshot Local Snapshot with Instant Recovery	RAW / VxVM VxFS / VxVM

Oracle Solaris 10 SPARC

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
BLIB [1]	Veritas Storage Foundation	DB2 Agent Oracle Agent SAP Oracle Agent	Local Snapshot	VxFS / none VxFS / VxVM
FlashSnap	Veritas Storage Foundation	File System	FlashBackup Local Snapshot	UFS / VxVM VxFS / VxVM
FlashSnap	Veritas Storage Foundation	File System DB2 Agent Oracle Agent SAP Oracle Agent	Alternate Client Alternate Client with Instant Recovery	RAW / VxVM UFS / VxVM VxFS / VxVM
nbu_snap	N/A	File System	FlashBackup Local Snapshot	UFS / none UFS / VxVM VxFS / none VxFS / VxVM
nbu_snap	N/A	File System Oracle Agent SAP Oracle Agent	Local Snapshot	Raw / none UFS / none UFS / VxVM VxFS / none VxFS / VxVM
VVR	Veritas Storage Foundation	File System	FlashBackup Local Snapshot	UFS / VxVM VxFS / VxVM

Oracle Solaris 10 SPARC

Snapshot Type	Software	NetBackup Agent	Snapshot Method	File System / Volume Manager
VVR	Veritas Storage Foundation	File System DB2 Agent Oracle Agent SAP Oracle Agent	Alternate Client Alternate Client with Instant Recovery	RAW / VxVM UFS / VxVM VxFS / VxVM
VxFS_Snapshot	Veritas Storage Foundation	File System	FlashBackup Local Snapshot	VxFS / none VxFS / VxVM
VxFS_Checkpoint	Veritas Storage Foundation	File System DB2 Agent Oracle Agent SAP Oracle Agent	Local Snapshot Local Snapshot with Instant Recovery	VxFS / none VxFS / VxVM
vxvm	Veritas Storage Foundation	File System	FlashBackup Local Snapshot	UFS / VxVM VxFS / VxVM
vxvm	Veritas Storage Foundation	File System DB2 Agent Oracle Agent SAP Oracle Agent	Local Snapshot Local Snapshot with Instant Recovery	RAW / VxVM UFS / VxVM VxFS / VxVM

1. Block-Level Incremental Backup. BLIB is not configured as a snapshot; but as a separate option in the policy. For more information, see the ["NetBackup Administrator's Guide"](http://www.veritas.com/docs/000003214) <<http://www.veritas.com/docs/000003214>> .

OST Secondary Storage Solutions

The Veritas OpenStorage (OST) Technology API allows intelligent storage devices and intelligent cloud storage solutions to interface to NetBackup Media Servers. The storage vendor or Veritas provides a software plug-in, which is installed on each NetBackup Media Server that is connected to the storage device / cloud provider. OST functionality is available on all supported NetBackup Media Server platforms. If you do not see OST support for your desired Storage Server appliance / Cloud Storage Provider / Media Server OS platform, please contact that storage vendor to request OST support for that platform. Please see the Veritas NetBackup Administrator's Guide for more information on how to use OST.

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<u>OpenStorage - Considerations</u>	<u>OpenStorage - Supported Functionality</u>	<u>Cloud - Supported Technology Methods</u>
<u>OST Cloud</u>	<u>OST Storage Servers</u>	

OpenStorage - Considerations

Subject	Notes
Support assumptions	For details on supported operating systems, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" <http://www.veritas.com/docs/000115691> . 1. Where support is shown for NetBackup 5200 Series or 5300 Series Appliances it means that the OST solution is supported on appliances running versions 2.5.x.x, 2.6.x.x, or 2.7.x, unless noted otherwise. 2. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server. 3. Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported. 4. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported. 5. CentOS and Oracle Linux are not supported with OpenStorage, unless noted otherwise.
Configuration considerations	1. The Veritas NetBackup OpenStorage Optimized Duplication feature takes advantage of the replication capabilities built into many storage servers and cloud solutions by allowing images replicated by the storage servers or cloud solutions to be registered as duplicated copies in the NetBackup catalog. This feature requires at least one NetBackup Media Server with connectivity to both the source storage server or cloud solution and the destination storage server or cloud solution. Optimized Duplication cannot be performed across NetBackup domains.
Operating system support dropped	1. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later. 2. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.

OpenStorage - Supported Functionality

The following table lists NetBackup OpenStorage functionality and indicates the NetBackup 8.x version at which that functionality was first supported. For detailed descriptions of OpenStorage functionality, see the "NetBackup OpenStorage Solutions Guide for Disk" <<http://www.veritas.com/docs/000003214>> .

To see which OST functionality is supported with your OpenStorage solution, refer to the "Supported OpenStorage Functionality" column in the Vendor Compatibility tables below.

OpenStorage Functionality	Abbreviation	Start of Support	Notes
Accelerator (for files and folders)	Accelerator	8.0 GA	If your storage server shows support for Accelerator in the tables below, Veritas recommends updating your device mappings file to the current version to ensure this functionality is enabled. If you are running Accelerator-enabled backups of Windows clients whose file systems contain hard linked files, running NetBackup 7.5.0.7 or later on the client is strongly recommended. For more information, see "Accelerator enabled backups of Windows hard linked files to OpenStorage disk storage may cause bptm to crash" <http://www.veritas.com/docs/000025532> . Accelerator is not supported with spanned Logical Storage Units (LSU).
Accelerator with NDMP	Accel_NDMP	8.0 GA	Supported with NetApp FAS and V series filers. For more information on this feature, see the "NetBackup for NDMP Administrator's Guide" <http://www.veritas.com/docs/000003214> . Accelerator with NDMP is not supported with spanned LSUs.
Accelerator with VMware-type policies	Accel_VMware	8.0 GA	If your storage server shows support for Accelerator with VMware in the tables below, Veritas recommends updating your device mappings file to the current version to ensure this functionality is enabled. Accelerator with VMware-type policies is not supported with spanned LSUs.

OpenStorage Functionality	Abbreviation	Start of Support	Notes
Auto Image Replication	A.I.R.	8.0 GA	For more information on configuring Auto Image Replication, see "About the storage lifecycle policies required for Auto Image Replication" <http://www.veritas.com/docs/000120198> . Veritas recommends replicating images from NetBackup 8.0 or later storage servers to target storage servers running the same NetBackup version. Replicating AES-encrypted images from a NetBackup 8.0 or later source storage server to a NetBackup 7.x target storage server is supported. However, the source storage server decrypts the data and replicates it, unencrypted, to the target storage server, which re-encrypts it using Blowfish. This additional processing may cause performance issues and causes the replicated image data to be unencrypted while in transit. In configurations running both A.I.R. and Targeted A.I.R., Veritas recommends setting the Storage Lifecycle Policies parameter "Auto create A.I.R. import SLP" to "No" and creating non-Targeted A.I.R. import policies only where desired. Only one media server should be configured to each target Logical Storage Unit (LSU). Each source and target storage server should have its credentials configured in only one NetBackup domain.
Targeted Auto Image Replication	Targeted_A.I.R.	8.0 GA	If your storage server shows support for Targeted A.I.R. in the tables below, Veritas recommends updating your device mappings file to the current version to ensure this functionality is enabled. Veritas recommends replicating images from NetBackup 8.0 or later storage servers to target storage servers running the same NetBackup version. Replicating AES-encrypted images from a NetBackup 8.0 or later source storage server to a NetBackup 7.x target storage server is supported. However, the source storage server decrypts the data and replicates it, unencrypted, to the target storage server, which re-encrypts it using Blowfish. This additional processing may cause performance issues and causes the replicated image data to be unencrypted while in transit. In configurations running both A.I.R. and Targeted A.I.R., Veritas recommends setting the Storage Lifecycle Policies parameter "Auto create A.I.R. import SLP" to "No" and creating non-Targeted A.I.R. import policies only where desired. Only one media server should be configured to each target Logical Storage Unit (LSU). Each source and target storage server should have its credentials configured in only one NetBackup domain.

OpenStorage Functionality	Abbreviation	Start of Support	Notes
CloudCatalyst	CloudCatalyst	8.1 GA	NetBackup CloudCatalyst uses MSDP deduplication technology to upload deduplicated data to the cloud. The data is uploaded by a CloudCatalyst storage server, which first stores data in a local cache before uploading it to cloud storage. A CloudCatalyst storage server is a dedicated host that must be either a NetBackup appliance or a media server configured for NetBackup CloudCatalyst. NetBackup 5240 Appliances (configuration "G" with 192 GB of memory) running 3.1 and later can be configured in a CloudCatalyst Appliance role. NetBackup Media Servers running Red Hat 7 Update 3 or later and NetBackup 8.1 or later can be configured as CloudCatalyst storage servers. A CloudCatalyst storage server can write to only one cloud provider, and only to one cloud bucket. Any platform supported as a NetBackup Client or MSDP Media Server can be a CloudCatalyst source and can write to a CloudCatalyst Appliance or storage server. For more information on configuring CloudCatalyst, see "Configuring deduplication to the cloud with NetBackup CloudCatalyst" in the "NetBackup Deduplication Guide" <http://www.veritas.com/docs/000003214> .
Direct Copy to dedicated tape drives	Direct_Copy	8.0 GA	
Direct Copy to shared tape drives	Direct_Copy_Shared	8.0 GA	
Granular Recovery Technology	Granular_Recovery	8.0 GA	Support for the Veritas NetBackup OpenStorage Granular Recovery Technology feature is described in " Granular Restore Technology (GRT) support for NetBackup with PureDisk (PDDO/PDDE) " < http://www.veritas.com/docs/000009237 > and " Granular Restore Technology (GRT) support for NetBackup with 3rd-party OpenStorage Secondary Storage Solutions " < http://www.veritas.com/docs/000085639 > .
Granular Recovery Technology with VMware-type policies	GRT_VMware	8.0 GA	Support for VMware-type backup policies with Application Protection options enabled for Exchange or SharePoint. Support for the Veritas NetBackup OpenStorage Granular Recovery Technology feature is described in " Granular Restore Technology (GRT) support for NetBackup with PureDisk (PDDO/PDDE) " < http://www.veritas.com/docs/000009237 > and " Granular Restore Technology (GRT) support for NetBackup with 3rd-party OpenStorage Secondary Storage Solutions " < http://www.veritas.com/docs/000085639 > .
Instant Recovery for VMware	IR_VMware	8.0 GA	Support for restoring virtual machines with Instant Recovery is described in the " NetBackup for VMware Administrator's Guide " < http://www.veritas.com/docs/000003214 > and in " Notes on Instant Recovery for VMware " < http://www.veritas.com/docs/000123863 > . For details on supported platforms for instant recovery restore hosts, see " Support for NetBackup 7.x and 8.x in virtual environments " < http://www.veritas.com/docs/000006177 > .
NetBackup Encryption Key Management Service	KMS	8.0 GA	In the OST Cloud vendor tables, KMS indicates that the cloud provider supports using NetBackup KMS to encrypt backups to cloud targets. In the OST Storage Servers vendor tables, KMS indicates that the plug-in supports NetBackup KMS with Direct Copy to Tape functionality.
Optimized Duplication	Opt_Dup	8.0 GA	Optimized Duplication transfers data in 256 KB chunks.

OpenStorage Functionality	Abbreviation	Start of Support	Notes
Optimized Duplication (Whole Image Copy)	WI_Opt_Dup	8.0 GA	Whole image Optimized Duplication uses the storage unit's Maximum fragment size to transfer an entire NetBackup image fragment in a single operation.
Optimized Synthetics	Opt_Synth	8.0 GA	Storage Lifecycle Policies are not supported in policies that use the multiple copy synthetic backups method. For details, see " Storage lifecycle policies are not supported in policies that use the multiple copy synthetic backups method " < http://www.veritas.com/docs/000022616 > .

Cloud - Supported Technology Methods

NetBackup supports Cloud-based storage providers using a variety of technology methods, described below.

1. S3 Storage - This method uses the NetBackup S3 Cloud Connector, a plug-in included with NetBackup. For more information on configuring S3 solutions, see "[Amazon S3 storage type API configuration options for NetBackup](#)" <<http://www.veritas.com/docs/000115794>> .
2. Swift Storage - This method uses the NetBackup OpenStack (Swift) Cloud Connector, a plug-in included with NetBackup. For more information on configuring Swift solutions, see "[OpenStack \(Swift\) storage type API configuration options for NetBackup](#)" <<http://www.veritas.com/docs/000115797>> .
3. Microsoft Azure Storage - This method uses the NetBackup Azure Cloud Connector, a plug-in included with NetBackup. For more information on configuring Microsoft Azure solutions, see "[Microsoft Azure storage type API configuration options for NetBackup](#)" <<http://www.veritas.com/docs/000115796>> .
4. Atmos Cloud Storage - This method uses the NetBackup Atmos connector, a plug-in included with NetBackup. For more information on configuring these solutions, see "[EMC Atmos storage type API configuration options for NetBackup](#)" <<http://www.veritas.com/docs/000115795>> .
Note: NetBackup 8.1 and later do not support this solution.
5. Rackspace Cloud Storage - This method uses the NetBackup Rackspace connector, a plug-in included with NetBackup. For more information on configuring these solutions, see "[OpenStack \(Swift\) storage type API configuration options for NetBackup](#)" <<http://www.veritas.com/docs/000115797>> .
6. OST - This method uses a third-party OpenStorage Technology plug-in.
7. AdvancedDisk Targets - This method uses third-party hardware or software to make the cloud appear as an [AdvancedDisk storage unit](#) to NetBackup.
8. VTL - This method uses third-party software to present the Cloud as if it were a VTL (Virtual Tape Library) to NetBackup.

Cloud Providers and Technology Methods

Cloud Provider	Technology method
ACP IT Solutions	NetBackup S3 connector
Amazon AWS Storage Gateway	Amazon AWS VTL
Amazon Glacier	NetBackup S3 connector
Amazon GovCloud - Glacier	NetBackup S3 connector
Amazon GovCloud Simple Storage Service	NetBackup S3 connector
Amazon GovCloud Simple Storage Service - Infrequent Access	NetBackup S3 connector
Amazon Simple Storage Service (S3) Standard	NetBackup S3 connector
Amazon Simple Storage Service (S3) Standard - Infrequent Access	NetBackup S3 connector
AT&T Cloud Storage	NetBackup S3 connector
AT&T Synaptic Storage as a Service	NetBackup Atmos connector - Note: NetBackup 8.1 and later do not support this solution.
China Mobile CMCC Cloud Storage	NetBackup S3 connector
China Telecom	NetBackup S3 connector
Chunghwa Telecom Hicloud S3	NetBackup S3 connector
Cloudian HyperStore Object Storage	NetBackup S3 connector
Datish Systems OpenDedup	Datish Systems-provided OST plug-in
Deutsche Telekom Open Telekom Cloud	NetBackup S3 connector
EMC ATMOS Object Storage	NetBackup S3 connector
EMC Elastic Cloud Storage	NetBackup S3 connector
Fujitsu Enterprise Cloud Service K5	NetBackup Swift connector
Fujitsu Storage ETERNUS CD10000	NetBackup S3 connector
Google Cloud Storage Coldline	NetBackup S3 connector
Google Cloud Storage Multi-Regional	NetBackup S3 connector
Google Cloud Storage Nearline	NetBackup S3 connector
Google Cloud Storage Regional	NetBackup S3 connector
HGST Active Archive and ActiveScale Cloud Storage Systems	NetBackup S3 connector

Cloud Providers and Technology Methods

Cloud Provider	Technology method
Hitachi Content Platform	NetBackup S3 connector
Huawei Object Storage Service (OBS)	NetBackup S3 connector
IBM Cloud Object Storage	NetBackup S3 connector
IBM Softlayer	NetBackup Swift connector
Microsoft Azure	NetBackup Azure connector
Microsoft Azure Government	NetBackup Azure connector
Microsoft Azure StorSimple	NetBackup AdvancedDisk target
NetApp AltaVault	NetApp-provided OST plug-in
NetApp StorageGRID	NetBackup S3 connector
Oracle Storage Cloud Service	NetBackup S3 connector, NetBackup Swift connector
Quantum Lattus Object Storage	NetBackup S3 connector
Quantum Q-Cloud Protect	Quantum-provided OST plug-in
Quantum Q-Cloud Protect for AWS	Quantum-provided OST plug-in
Rackspace Cloud Files	NetBackup Rackspace connector
Red Hat Ceph Storage	NetBackup S3 connector
Scality RING Storage	NetBackup S3 connector
StorReduce Deduplicate Cloud Storage	NetBackup S3 connector
SUSE Enterprise Storage	NetBackup S3 connector
SwiftStack Object Storage	NetBackup S3 connector, NetBackup Swift connector
Telefonica Cloud Storage	NetBackup S3 connector
Veritas Access	NetBackup S3 connector

OST Cloud

OST Cloud Storage plug-ins enable Veritas NetBackup to access Cloud Storage Solutions. Either the storage vendor or Veritas provides a software plug-in, which is installed on each NetBackup Media Server that is connected to the cloud solution.

OST Cloud support information is listed below, organized by vendor. Under each vendor there are separate tables showing compatibility with NetBackup Appliances, with Linux/Windows operating systems, and with UNIX operating systems. The tables provide information on supported versions of plug-ins and functionality, and other important notes about the hardware and its compatibility. If you do not see OST Cloud support for your desired Cloud Storage Solution provider / Media Server OS platform, please contact that Cloud Storage vendor to request OST Cloud support for that platform. Please see the Veritas NetBackup Administrator's Guide for more information on how to use OST.

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[OST Cloud - Configuration Files](#)

[OST Cloud - Links to Vendor Sites](#)

[OST Cloud - Vendor Compatibility](#)

OST Cloud - Considerations

Subject	Notes
Support assumptions	For details on supported operating systems, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" <http://www.veritas.com/docs/000115691> . 1. In the vendor compatibility tables below, the column "NetBackup Version Containing Plug-in" indicates the NetBackup 8.x version at which that cloud storage solution was first supported. 2. Cloud support on Windows platforms requires Windows 2008 R2 or later.
Configuration considerations	1. NetBackup is configured to trust a number of well-known public Certificate Authorities (CA) related to Cloud storage. However, there are instances where, for internal purposes, you may need to add your own self-signed CA certificate. For information on adding a self-signed CA certificate, please refer to "Cloud Storage Configuration: How To Add a Self-Signed CA Certificate" <http://www.veritas.com/docs/000115986> . 2. NetBackup-provided Cloud connectors are not supported with IPv6. Configuring these plug-ins with IPv6 may result in unpredictable behavior.
Operating system support dropped	1. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later. 2. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.

OST Cloud - Configuration Files

NetBackup support for new cloud providers is accomplished through the use of cloud configuration files. The latest version of this file is included in NetBackup release updates and is also available for download independently on the Veritas support site. This file is updated whenever new cloud provider support is needed independent of NetBackup release updates. This file is cumulative, so the most recent version contains all support added in earlier versions. The column "NetBackup version" indicates the NetBackup Master Server version that the Cloud Configuration package requires for installation.

For more information on configuring Cloud solutions see ["About the cloud storage vendors for Veritas NetBackup"](http://www.veritas.com/docs/000115793) <<http://www.veritas.com/docs/000115793>> .

Cloud Configuration Package version	NetBackup version	URL	Providers added
2.3.2	8.0 or later	<http://www.veritas.com/docs/000125094>	- Amazon Glacier (requires NetBackup 8.1 or later) - Amazon GovCloud - Glacier (requires NetBackup 8.1 or later)
2.3.1	8.0 or later	Use the most recent version above.	- CMCC Cloud Storage authentication v5.x (requires NetBackup 8.1 or later) - Fujitsu Cloud Service K5 (requires NetBackup 8.1 or later) - Microsoft Azure Government Cloud (requires NetBackup 8.1 or later) - Amazon (S3) - Object size improvement - NetApp StorageGRID WAN (S3) - IBM COS WAN (S3) - enables custom cloud instances for VPC URL support - IBM COS WAN (S3) - US South region - IBM COS WAN (S3) - US East region - IBM COS WAN (S3) - EU Cross-region
2.2.9	8.0	Use the most recent version above.	- ACP IT Solutions CS3 Cloud (S3) - Amazon - Changed "Standard" region to "US East (N. Virginia)" - China Telecom OOS Cloud (S3) - Google - Australia-Southeast1 region - Google - Europe-West2 region - Google - Europe-West3 region - Google - US-East4 region - Google Coldline & Nearline - added regions
2.2.8	8.0	Use the most recent version above.	- Fujitsu Storage ETERNUS CD10000 (S3) - Huawei Object Storage Service (OBS) (S3) - SUSE Enterprise Storage (S3)

Cloud Configuration Package version	NetBackup version	URL	Providers added
2.2.7	8.0	Use the most recent version above.	- Deutsche Telekom Open Telekom Cloud (S3) - Google Cloud Storage - Regional (S3) - Google Cloud Storage - Multi-Regional (S3) - Hitachi Cloud Services (S3) - Changed to "Hitachi Content Platform - WAN" - Red Hat Ceph Storage (S3) - Veritas Access (S3) - Verizon Cloud (S3) - Removed support
2.2.6	8.0	Use the most recent version above.	- Amazon - Canada Central region - Amazon - London region - Amazon - Ohio region - IBM Cloud Object Storage - Local and WAN performance improvement
2.2.5	8.0	Use the most recent version above.	- Amazon Virtual Private Cloud (VPC) and Amazon custom cloud instance - Amazon - Mumbai region - AT&T Cloud Storage (S3) - IBM Cloud Object Storage - Local and WAN (S3)
2.2.4	8.0	Use the most recent version above.	- Amazon GovCloud (S3) - Infrequent Access - China Mobile CMCC Cloud Storage (S3) - Chunghwa Telecom Hicloud (S3) - default Cloud Instance - EMC Elastic Cloud Storage (S3) - Google Cloud Storage (S3) - Coldline Storage Class - Oracle Cloud Service (Swift) - IBM Softlayer (Swift) - Microsoft Azure (Azure) - Oracle Cloud Service (S3) - Quantum Lattus Object Storage (S3) - Scalify RING Storage for LAN (S3) - Scalify RING Storage for WAN (S3) - SwiftStack (Swift)

OST Cloud - Links to Vendor Sites

More information on NetBackup OpenStorage Cloud solutions is available at the following OST Cloud vendors' websites.

Vendor	URL
ACP IT Solutions	<http://www.acpcloud.rocks/>
Amazon	AWS S3 - <http://aws.amazon.com/s3> Amazon Glacier - <https://aws.amazon.com/glacier/> AWS GovCloud - <http://aws.amazon.com/govcloud-us/> AWS Virtual Private Cloud (VPC) - <https://aws.amazon.com/vpc/>
AT&T	Cloud Storage (S3) - <http://www.att.com/cloud> Synaptic Storage as a Service - <https://www.synaptic.att.com>
China Mobile (CMCC)	<https://ecloud.10086.cn/>
China Telecom	<http://www.ctyun.cn/>
Chunghwa Telecom	<http://hicloud.hinet.net/>
Cloudian	<http://www.cloudian.com/>
Datish Systems (OpenDedup)	<http://www.openededup.org>
Deutsche Telekom	<https://cloud.telekom.de/en/>
EMC	Atmos - <http://www.emc.com/storage/atmos/atmos.htm> Elastic Cloud Storage - <http://www.emc.com/storage/ecs/index.htm>
Fujitsu	Enterprise Cloud Service K5 - <http://www.fujitsu.com/global/solutions/cloud/k5/> ETERNUS CD10000 - <http://www.fujitsu.com/global/products/computing/storage/eternus-cd/>
Google	Coldline - <https://cloud.google.com/storage/archival> Nearline - <https://cloud.google.com/storage-nearline/> Regional/Multi-Regional - <https://cloud.google.com/about/locations/>
HGST	<http://www.hgst.com/products/systems>
Hitachi	<http://www.hds.com/solutions/cloud/hitachi-cloud-services.html>
Huawei	<http://www.hwclouds.com/product/obs.html>
IBM	Cloud Object Storage - <https://www.ibm.com/cloud-computing/products/storage/object-storage/cloud/> Softlayer - <http://www.softlayer.com/>
Microsoft	Azure - <https://docs.microsoft.com/en-gb/azure/storage/storage-introduction/> Azure Government - <https://azure.microsoft.com/en-us/overview/clouds/government/>

Vendor	URL
NetApp	AltaVault - < http://www.netapp.com/us/products/protection-software/altavault/ > StorageGRID - < http://www.netapp.com/us/products/data-management-software/object-storage-grid-sds.aspx >
Oracle	< https://cloud.oracle.com/home >
Quantum	Lattus - < http://www.quantum.com/products/bigdatamanagement/lattus/index.aspx > Q-Cloud - < http://www.quantum.com/ServiceandSupport/SoftwareandDocumentationDownloads/OSTClientPlugIn/Index.aspx >
Rackspace	< http://www.rackspace.com >
Red Hat	< https://www.redhat.com/en/technologies/storage/ceph >
Scality	< http://www.scality.com/ >
StorReduce	< http://storreduce.com/ >
SUSE	< https://www.suse.com/products/suse-enterprise-storage/ >
SwiftStack	< https://www.swiftstack.com >
Telefonica	< https://www.telefonica.com/en/ >
Veritas	< https://www.veritas.com/product/software-defined-storage/access >

OST Cloud - Vendor Compatibility

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<u>EMC</u>	<u>Fujitsu</u>	<u>Google</u>
<u>HGST</u>	<u>Hitachi</u>	<u>Huawei</u>
<u>IBM</u>	<u>Microsoft</u>	<u>NetApp</u>
<u>Oracle</u>	<u>Quantum</u>	<u>Rackspace</u>
<u>Red Hat</u>	<u>Scality</u>	<u>StorReduce</u>
<u>SUSE</u>	<u>SwiftStack</u>	<u>Telefonica</u>
<u>Veritas</u>		

ACP

ACP - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
CS3 [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
CS3 [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. Requires NetBackup Cloud Configuration Package version 2.2.9 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

ACP - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
CS3 [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
CS3 [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11

1. Requires NetBackup Cloud Configuration Package version 2.2.9 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Amazon

Amazon - Support with NetBackup Appliance

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	CloudCatalyst Appliance
GovCloud Simple Storage Service [1]	NetBackup Appliance 3.1 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Yes
GovCloud Simple Storage Service - Infrequent Access (IA) [1]	NetBackup Appliance 3.1 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Yes
Simple Storage Service (S3) Standard [1]	NetBackup Appliance 3.1 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Montreal), China (Beijing), Europe (Frankfurt), Europe (Ireland), South America (Sao Paulo), US East (N. Virginia), US West (N. California), US West (Oregon)	Yes [2]
Simple Storage Service (S3) Standard - Infrequent Access (IA) [1]	NetBackup Appliance 3.1 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Montreal), China (Beijing), Europe (Frankfurt), Europe (Ireland), South America (Sao Paulo), US East (N. Virginia), US West (N. California), US West (Oregon)	Yes [2]

1. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

2. Amazon Virtual Private Cloud (VPC) is supported with this platform on all regions except US East (N. Virginia). Cloud Configuration Package version 2.2.5 or later is required for Amazon VPC support.

Amazon - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Glacier [1] [2] [3]	NetBackup 8.1 and later S3 connector	KMS, Opt_Synth	Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), China (Beijing), Europe (Frankfurt), Europe (Ireland), Europe (London), US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon)	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
GovCloud - Glacier [1] [2] [3]	NetBackup 8.1 and later S3 connector	KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
GovCloud Simple Storage Service	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
GovCloud Simple Storage Service [4]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
GovCloud Simple Storage Service - Infrequent Access (IA) [5]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
GovCloud Simple Storage Service - Infrequent Access (IA) [4]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Simple Storage Service (S3) Standard [6] [7]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Canada (Montreal), China (Beijing), Europe (Frankfurt), Europe (Ireland), Europe (London), South America (Sao Paulo), US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon)	Enterprise Edition [8]	Datacenter [8]	Datacenter [8]	6, 7 [8]	11, 12 [8]

Amazon - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Simple Storage Service (S3) Standard [4]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Montreal), China (Beijing), Europe (Frankfurt), Europe (Ireland), South America (Sao Paulo), US East (N. Virginia), US West (N. California), US West (Oregon)	Enterprise Edition [8]	Datacenter [8]	Datacenter [8]	6, 7 [8]	11, 12 [8]
Simple Storage Service (S3) Standard - Infrequent Access (IA) [6] [7]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Canada (Montreal), China (Beijing), Europe (Frankfurt), Europe (Ireland), Europe (London), South America (Sao Paulo), US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon)	Enterprise Edition [8]	Datacenter [8]	Datacenter [8]	6, 7 [8]	11, 12 [8]
Simple Storage Service (S3) Standard - Infrequent Access (IA) [4]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Montreal), China (Beijing), Europe (Frankfurt), Europe (Ireland), South America (Sao Paulo), US East (N. Virginia), US West (N. California), US West (Oregon)	Enterprise Edition [8]	Datacenter [8]	Datacenter [8]	6, 7 [8]	11, 12 [8]

1. For more information, see "[Protecting Data in Amazon Glacier using NetBackup 8.1 \(with Cloud Configuration Package version 2.3.2 and later\)](http://www.veritas.com/docs/100040801)" <<http://www.veritas.com/docs/100040801>> .
2. NetBackup supports Amazon Glacier standard retrieval policies, which complete within 3 to 5 hours. Veritas recommends setting the retrieval retention period to a minimum of 3 days.
3. Requires Cloud Configuration Package version 2.3.2 or later.
4. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.
5. Requires Cloud Configuration Package version 2.2.5 or later.
6. Support for the Central Canada, London, and Ohio regions requires Cloud Configuration Package version 2.2.6 or later.
7. Support for the Mumbai region requires Cloud Configuration Package version 2.2.5 or later.

8. Amazon Virtual Private Cloud (VPC) is supported with this platform on all regions except US East (N. Virginia). Cloud Configuration Package version 2.2.5 or later is required for Amazon VPC support.

Amazon - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Glacier [1] [2] [3]	NetBackup 8.1 and later S3 connector	KMS, Opt_Synth	Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), China (Beijing), Europe (Frankfurt), Europe (Ireland), Europe (London), US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon)	6.1, 7.1	11.31	10, 11
GovCloud - Glacier [1] [2] [3]	NetBackup 8.1 and later S3 connector	KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
GovCloud Simple Storage Service	NetBackup 8.0 and later S3 connector	Accelerator, AcceI_VMware, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
GovCloud Simple Storage Service [4]	NetBackup 8.1 and later S3 connector	Accelerator, AcceI_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
GovCloud Simple Storage Service - Infrequent Access (IA) [5]	NetBackup 8.0 and later S3 connector	Accelerator, AcceI_VMware, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
GovCloud Simple Storage Service - Infrequent Access (IA) [4]	NetBackup 8.1 and later S3 connector	Accelerator, AcceI_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
Simple Storage Service (S3) Standard [6] [7]	NetBackup 8.0 and later S3 connector	Accelerator, AcceI_VMware, KMS, Opt_Synth	Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Canada (Montreal), China (Beijing), Europe (Frankfurt), Europe (Ireland), Europe (London), South America (Sao Paulo), US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon)	6.1, 7.1	11.31	10, 11

Amazon - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Simple Storage Service (S3) Standard [4]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Montreal), China (Beijing), Europe (Frankfurt), Europe (Ireland), South America (Sao Paulo), US East (N. Virginia), US West (N. California), US West (Oregon)	6.1, 7.1	11.31	10, 11
Simple Storage Service (S3) Standard - Infrequent Access (IA) [6] [7]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Canada (Montreal), China (Beijing), Europe (Frankfurt), Europe (Ireland), Europe (London), South America (Sao Paulo), US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon)	6.1, 7.1	11.31	10, 11
Simple Storage Service (S3) Standard - Infrequent Access (IA) [4]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Montreal), China (Beijing), Europe (Frankfurt), Europe (Ireland), South America (Sao Paulo), US East (N. Virginia), US West (N. California), US West (Oregon)	6.1, 7.1	11.31	10, 11

1. For more information, see "[Protecting Data in Amazon Glacier using NetBackup 8.1 \(with Cloud Configuration Package version 2.3.2 and later\)](http://www.veritas.com/docs/100040801)" <<http://www.veritas.com/docs/100040801>> .
2. NetBackup supports Amazon Glacier standard retrieval policies, which complete within 3 to 5 hours. Veritas recommends setting the retrieval retention period to a minimum of 3 days.
3. Requires Cloud Configuration Package version 2.3.2 or later.
4. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.
5. Requires Cloud Configuration Package version 2.2.5 or later.
6. Support for the Central Canada, London, and Ohio regions requires Cloud Configuration Package version 2.2.6 or later.
7. Support for the Mumbai region requires Cloud Configuration Package version 2.2.5 or later.

AT&T

AT&T - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Cloud Storage [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Cloud Storage [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Synaptic Storage as a Service [3]	NetBackup 8.0 and later	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	No	5, 6, 7	11, 12

1. Requires Cloud Configuration Package version 2.2.5 or later.
2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.
3. NetBackup 8.1 and later will not support this solution.

AT&T - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Cloud Storage [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
Cloud Storage [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
Synaptic Storage as a Service [3]	NetBackup 8.0 and later	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11

1. Requires Cloud Configuration Package version 2.2.5 or later.
2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.
3. NetBackup 8.1 and later will not support this solution.

China Mobile

China Mobile - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
CMCC Cloud Storage [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
CMCC Cloud Storage [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. Support for authentication v5.x requires NetBackup 8.1 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

China Mobile - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
CMCC Cloud Storage [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
CMCC Cloud Storage [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11

1. Support for authentication v5.x requires NetBackup 8.1 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

China Telecom

China Telecom - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
OOS [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
OOS [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. Requires NetBackup Cloud Configuration Package version 2.2.9 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

China Telecom - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
OOS [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
OOS [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11

1. Requires NetBackup Cloud Configuration Package version 2.2.9 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Chunghwa Telecom

Chunghwa Telecom - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Hicloud S3	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Hicloud S3 [1]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Chunghwa Telecom - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Hicloud S3	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
Hicloud S3 [1]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11

1. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Cloudian

Cloudian - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
HyperStore Object Storage	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
HyperStore Object Storage [1]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Cloudian - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
HyperStore Object Storage	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11
HyperStore Object Storage [1]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11

1. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Datish Systems (OpenDedup)

Datish Systems (OpenDedup) - Support with NetBackup Appliance

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	5200 Series	5300 Series
OpenDedup	OpenDedup 2.0 Plug-in	Accelerator, Accel_VMware, KMS	On-Premises	Yes	Yes

Datish Systems (OpenDedup) - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Red Hat Enterprise Linux on x86-64
OpenDedup [1]	OpenDedup 1.0 Plug-in	Accelerator, Accel_VMware	On-Premises	6, 7 [2] [3] [4]

1. Supported with Amazon AWS S3 and Microsoft Azure.
2. Requires Red Hat Enterprise Linux 6 Update 7 or later.
3. The Red Hat plug-in is also supported with CentOS 6.7 or later.
4. The Red Hat plug-in is also supported with CentOS 7.

Deutsche Telekom - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Open Telekom Cloud [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	EU (Germany)	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Open Telekom Cloud [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	EU (Germany)	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. Requires Cloud Configuration Package version 2.2.7 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Deutsche Telekom - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Open Telekom Cloud [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	EU (Germany)	6.1, 7.1	11.31	10, 11
Open Telekom Cloud [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	EU (Germany)	6.1, 7.1	11.31	10, 11

1. Requires Cloud Configuration Package version 2.2.7 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

EMC

EMC - Support with NetBackup Appliance

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	CloudCatalyst Appliance
Elastic Cloud Storage [1] [2] [3] [4]	NetBackup Appliance 3.1 and later S3 connector	Accelerator, AcceI_VMware, KMS, Opt_Synth	All Locales, On-Premises	Yes

1. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.
2. Configure from the Master Server using the NetBackup Administration Console. Configuration through the Appliance CLISH is not available at this time.
3. Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.
4. SSL is supported with ECS version 3.1 and later.

EMC - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
ATMOS Object Storage	NetBackup 8.0 and later S3 connector	Accelerator, AcceI_VMware, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Elastic Cloud Storage [1] [2]	NetBackup 8.0 and later S3 connector	Accelerator, AcceI_VMware, KMS, Opt_Synth	All Locales, On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Elastic Cloud Storage [1] [2] [3]	NetBackup 8.1 and later S3 connector	Accelerator, AcceI_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales, On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.
2. SSL is supported with ECS version 3.1 and later.
3. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

EMC - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
ATMOS Object Storage	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11
Elastic Cloud Storage [1] [2]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales, On-Premises	6.1, 7.1	11.31	10, 11
Elastic Cloud Storage [1] [2] [3]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales, On-Premises	6.1, 7.1	11.31	10, 11

1. Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.
2. SSL is supported with ECS version 3.1 and later.
3. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Fujitsu

Fujitsu - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Enterprise Cloud Service K5	NetBackup 8.1 and later Swift connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
ETERNUS CD10000 [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
ETERNUS CD10000 [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. Requires NetBackup Cloud Configuration Package version 2.2.8 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Fujitsu - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Enterprise Cloud Service K5	NetBackup 8.1 and later Swift connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
ETERNUS CD10000 [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11
ETERNUS CD10000 [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11

1. Requires NetBackup Cloud Configuration Package version 2.2.8 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Google - Support with NetBackup Appliance

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	CloudCatalyst Appliance
Cloud Storage - Multi-Regional [1] [2]	NetBackup Appliance 3.1 and later S3 connector	Accelerator, AcceI_VMware, KMS, Opt_Synth	Asia (Multi-Regional), EU (Multi-Regional), US (Multi-Regional)	Yes
Cloud Storage - Regional [1] [2]	NetBackup Appliance 3.1 and later S3 connector	Accelerator, AcceI_VMware, KMS, Opt_Synth	Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, EU-West1, EU-West2, EU-West3, US-Central1, US-East1, US-East4, US-West1	Yes
Cloud Storage Coldline [1] [2]	NetBackup Appliance 3.1 and later S3 connector	Accelerator, AcceI_VMware, KMS, Opt_Synth	Asia (Multi-Regional), Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, EU (Multi-Regional), EU-West1, EU-West2, EU-West3, US (Multi-Regional), US-Central1, US-East1, US-East4, US-West1	Yes
Cloud Storage Nearline [1] [2]	NetBackup Appliance 3.1 and later S3 connector	Accelerator, AcceI_VMware, KMS, Opt_Synth	Asia (Multi-Regional), Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, EU (Multi-Regional), EU-West1, EU-West2, EU-West3, US (Multi-Regional), US-Central1, US-East1, US-East4, US-West1	Yes

1. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

2. Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.

Google - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Cloud Storage - Multi-Regional [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	Asia (Multi-Regional), EU (Multi-Regional), US (Multi-Regional)	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Cloud Storage - Multi-Regional [1] [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	Asia (Multi-Regional), EU (Multi-Regional), US (Multi-Regional)	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Cloud Storage - Regional [1] [3] [4]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, EU-West1, EU-West2, EU-West3, US-Central1, US-East1, US-East4, US-West1	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Cloud Storage - Regional [1] [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, EU-West1, EU-West2, EU-West3, US-Central1, US-East1, US-East4, US-West1	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Cloud Storage Coldline [1] [5]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	Asia (Multi-Regional), Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, EU (Multi-Regional), EU-West1, EU-West2, EU-West3, US (Multi-Regional), US-Central1, US-East1, US-East4, US-West1	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Cloud Storage Coldline [1] [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	Asia (Multi-Regional), Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, EU (Multi-Regional), EU-West1, EU-West2, EU-West3, US (Multi-Regional), US-Central1, US-East1, US-East4, US-West1	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

Google - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Cloud Storage Nearline [1] [5]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	Asia (Multi-Regional), Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, EU (Multi-Regional), EU-West1, EU-West2, EU-West3, US (Multi-Regional), US-Central1, US-East1, US-East4, US-West1	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
Cloud Storage Nearline [1] [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	Asia (Multi-Regional), Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, EU (Multi-Regional), EU-West1, EU-West2, EU-West3, US (Multi-Regional), US-Central1, US-East1, US-East4, US-West1	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.
2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.
3. Requires Cloud Configuration Package version 2.2.7 or later.
4. Support for the Australia-Southeast1, EU-West2, EU-West3, and US-East4 regions requires Cloud Configuration Package version 2.2.9 or later.
5. Support for the Asia (Multi-Regional), Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, EU (Multi-Regional), EU-West1, EU-West2, EU-West3, US (Multi-Regional), US-Central1, US-East1, US-East4, and US-West1 regions requires Cloud Configuration Package version 2.2.9 or later.

Google - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Cloud Storage - Multi-Regional [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	Asia (Multi-Regional), EU (Multi-Regional), US (Multi-Regional)	6.1, 7.1	11.31	10, 11
Cloud Storage - Multi-Regional [1] [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	Asia (Multi-Regional), EU (Multi-Regional), US (Multi-Regional)	6.1, 7.1	11.31	10, 11
Cloud Storage - Regional [1] [3] [4]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, EU-West1, EU-West2, EU-West3, US-Central1, US-East1, US-East4, US-West1	6.1, 7.1	11.31	10, 11
Cloud Storage - Regional [1] [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, EU-West1, EU-West2, EU-West3, US-Central1, US-East1, US-East4, US-West1	6.1, 7.1	11.31	10, 11
Cloud Storage Coldline [1] [5]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	Asia (Multi-Regional), Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, EU (Multi-Regional), EU-West1, EU-West2, EU-West3, US (Multi-Regional), US-Central1, US-East1, US-East4, US-West1	6.1, 7.1	11.31	10, 11
Cloud Storage Coldline [1] [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	Asia (Multi-Regional), Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, EU (Multi-Regional), EU-West1, EU-West2, EU-West3, US (Multi-Regional), US-Central1, US-East1, US-East4, US-West1	6.1, 7.1	11.31	10, 11
Cloud Storage Nearline [1] [5]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	Asia (Multi-Regional), Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, EU (Multi-Regional), EU-West1, EU-West2, EU-West3, US (Multi-Regional), US-Central1, US-East1, US-East4, US-West1	6.1, 7.1	11.31	10, 11
Cloud Storage Nearline [1] [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	Asia (Multi-Regional), Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, EU (Multi-Regional), EU-West1, EU-West2, EU-West3, US (Multi-Regional), US-Central1, US-East1, US-East4, US-West1	6.1, 7.1	11.31	10, 11

1. Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.
2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.
3. Requires Cloud Configuration Package version 2.2.7 or later.
4. Support for the Australia-Southeast1, EU-West2, EU-West3, and US-East4 regions requires Cloud Configuration Package version 2.2.9 or later.
5. Support for the Asia (Multi-Regional), Asia-East1, Asia-Northeast1, Asia-Southeast1, Australia-Southeast1, EU (Multi-Regional), EU-West1, EU-West2, EU-West3, US (Multi-Regional), US-Central1, US-East1, US-East4, and US-West1 regions requires Cloud Configuration Package version 2.2.9 or later.

HGST

HGST - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Active Archive and ActiveScale Systems [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Active Archive and ActiveScale Systems [1] [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.
2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

HGST - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Active Archive and ActiveScale Systems [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11
Active Archive and ActiveScale Systems [1] [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11

1. Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Hitachi

Hitachi - Support with NetBackup Appliance

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	CloudCatalyst Appliance
Content Platform (HCP) [1] [2] [3]	NetBackup Appliance 3.1 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	Yes

1. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.
2. Supported in LAN and WAN environments.
3. The versioning feature must be enabled in the Hitachi cloud storage settings for both the tenant and the bucket.

Hitachi - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Content Platform (HCP) [1] [2]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Content Platform (HCP) [1] [2] [3]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. Supported in LAN and WAN environments.
2. The versioning feature must be enabled in the Hitachi cloud storage settings for both the tenant and the bucket.
3. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Hitachi - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Content Platform (HCP) [1] [2]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11
Content Platform (HCP) [1] [2] [3]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11

1. Supported in LAN and WAN environments.
2. The versioning feature must be enabled in the Hitachi cloud storage settings for both the tenant and the bucket.
3. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Huawei

Huawei - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
OBS Object Storage Service [1]	NetBackup 8.0 and later S3 connector	Accelerator, AcceI_VMware, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
OBS Object Storage Service [2]	NetBackup 8.1 and later S3 connector	Accelerator, AcceI_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. Requires NetBackup Cloud Configuration Package version 2.2.8 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Huawei - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
OBS Object Storage Service [1]	NetBackup 8.0 and later S3 connector	Accelerator, AcceI_VMware, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
OBS Object Storage Service [2]	NetBackup 8.1 and later S3 connector	Accelerator, AcceI_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11

1. Requires NetBackup Cloud Configuration Package version 2.2.8 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

IBM

IBM - Support with NetBackup Appliance

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	CloudCatalyst Appliance
Cloud Object Storage [1] [2]	NetBackup Appliance 3.1 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	Yes

1. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.
2. Supported in LAN and WAN environments. Support for LAN environments requires version 3.8 or later storage server software.

IBM - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Cloud Object Storage [1] [2]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises, United States	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Cloud Object Storage [2] [3]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	EU Cross Region, On-Premises, US Cross Region, US East, US South	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
SoftLayer	NetBackup 8.0 and later Swift connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	No	6, 7	11, 12

1. Requires Cloud Configuration Package version 2.2.5 or later.
2. Supported in LAN and WAN environments. Support for LAN environments requires version 3.8 or later storage server software.

3. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

IBM - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Cloud Object Storage [1] [2]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises, United States	6.1, 7.1	11.31	10, 11
Cloud Object Storage [2] [3]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	EU Cross Region, On-Premises, US Cross Region, US East, US South	6.1, 7.1	11.31	10, 11
SoftLayer	NetBackup 8.0 and later Swift connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11

1. Requires Cloud Configuration Package version 2.2.5 or later.

2. Supported in LAN and WAN environments. Support for LAN environments requires version 3.8 or later storage server software.

3. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Microsoft

Microsoft - Support with NetBackup Appliance

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	CloudCatalyst Appliance
Azure [1] [2]	NetBackup Appliance 3.1 and later Azure connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Yes
Azure Government [1] [2]	NetBackup Appliance 3.1 and later Azure connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All US Gov Locales	Yes

1. Azure Blob storage with hot and cool tiers is supported.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Microsoft - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Azure [1]	NetBackup 8.0 and later Azure connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Azure [1] [2]	NetBackup 8.1 and later Azure connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Azure Government [1] [2]	NetBackup 8.1 and later Azure connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All US Gov Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. Azure Blob storage with hot and cool tiers is supported.
2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Microsoft - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Azure [1]	NetBackup 8.0 and later Azure connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
Azure [1] [2]	NetBackup 8.1 and later Azure connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
Azure Government [1] [2]	NetBackup 8.1 and later Azure connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All US Gov Locales	6.1, 7.1	11.31	10, 11

1. Azure Blob storage with hot and cool tiers is supported.
2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

NetApp

NetApp - Support with NetBackup Appliance

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	CloudCatalyst Appliance
StorageGRID Webscale Object Storage [1]	NetBackup Appliance 3.1 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Yes

1. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

NetApp - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
AltaVault [1] [2]	NetApp 1.2 Plug-in	Opt_Dup	On-Premises	Enterprise Edition	Datacenter	No	6, 7	No
StorageGRID Webscale Object Storage [3]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
StorageGRID Webscale Object Storage [4]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. For AltaVault with Amazon Glacier, the AWS S3 lifecycle policy is utilized to move backup images to Glacier. Use the AltaVault Prepopulation process to retrieve images prior to starting NetBackup restore.

2. NetBackup supports AltaVault sending backup images to any public or private cloud provider supported by AltaVault. See NetApp's list of cloud providers supported with AltaVault. Only one cloud provider can be configured per AltaVault physical appliance or virtual instance.

3. Requires NetBackup Cloud Configuration Package version 2.3.1 or later.

4. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

NetApp - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
StorageGRID Webscale Object Storage [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
StorageGRID Webscale Object Storage [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11

1. Requires NetBackup Cloud Configuration Package version 2.3.1 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Oracle

Oracle - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Cloud Service	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Cloud Service	NetBackup 8.0 and later Swift connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	No	6, 7	11, 12
Cloud Service [1]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Oracle - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Cloud Service	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
Cloud Service	NetBackup 8.0 and later Swift connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
Cloud Service [1]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11

1. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Quantum

Quantum - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Lattus Object Storage [1] [2]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Lattus Object Storage [1] [2] [3]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Q-Cloud Protect [4] [5]	Quantum 2.9 Plug-in	A.I.R., Opt_Dup, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	No	6	No
Q-Cloud Protect [4] [5]	Quantum 3.0 Plug-in	A.I.R., Opt_Dup, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	No	6, 7	No
Q-Cloud Protect [4] [5]	Quantum 3.1 Plug-in	A.I.R., Opt_Dup, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	No	6, 7	11, 12
Q-Cloud Protect for AWS [6]	Quantum 3.1 Plug-in	A.I.R., Opt_Dup, Opt_Synth	All Locales, On-Premises	Enterprise Edition	Datacenter	No	6, 7	11, 12

1. Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.

2. SSL is not supported.

3. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

4. Data-at-Rest encryption is supported with the DXi6802 and DXi8500 (3TB) models.

5. For information on how to setup Q-Cloud Protect with NetBackup, go to <http://www.quantum.com/serviceandsupport/softwareanddocumentationdownloads/index.aspx> , select the appropriate DXi product, select the "Documentation" tab, and in the Best Practices section select "DXi-Series and Best Practices Guide for NetBackup from Symantec". Enter the device's serial number, and when the document opens, search for Appendix A.

6. For information on how to setup Q-Cloud Protect for AWS with NetBackup, go to <http://www.quantum.com/q-cloudprotectdocs.>>

Quantum - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Lattus Object Storage [1] [2]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11
Lattus Object Storage [1] [2] [3]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11

1. Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.

2. SSL is not supported.

3. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Rackspace

Rackspace - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Cloud Files	NetBackup 8.0 and later	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	5, 6, 7	11, 12

Rackspace - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Cloud Files	NetBackup 8.0 and later	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11

Red Hat

Red Hat - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Ceph Storage [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Ceph Storage [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. Requires Cloud Configuration Package version 2.2.7 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Red Hat - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Ceph Storage [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	6.1, 7.1	No	10, 11
Ceph Storage [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11

1. Requires Cloud Configuration Package version 2.2.7 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Scality

Scality - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
RING Storage [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales, On-Premises	Enterprise Edition	Datacenter	Datacenter	7	No
RING Storage [1] [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales, On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. Supported in LAN and WAN environments.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Scality - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
RING Storage [1] [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales, On-Premises	6.1, 7.1	11.31	10, 11

1. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

2. Supported in LAN and WAN environments.

StorReduce

StorReduce - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Deduplicate Cloud Storage	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

StorReduce - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Deduplicate Cloud Storage	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11

SUSE

SUSE - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
SUSE Enterprise Storage [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
SUSE Enterprise Storage [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. Requires NetBackup Cloud Configuration Package version 2.2.8 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

SUSE - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
SUSE Enterprise Storage [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11
SUSE Enterprise Storage [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11

1. Requires NetBackup Cloud Configuration Package version 2.2.8 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

SwiftStack

SwiftStack - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Object Storage [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Object Storage [1]	NetBackup 8.0 and later Swift connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter [2]	6, 7	11, 12
Object Storage [1] [3]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.
2. Requires an Emergency Engineering Binary (EEB). Contact Veritas Support and ask for the EEB associated with Etrack 3923616 for NetBackup 8.0.
3. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

SwiftStack - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Object Storage [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11
Object Storage [1]	NetBackup 8.0 and later Swift connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11
Object Storage [1] [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11

1. Creating a disk volume via the NetBackup Admin Console or CLI is not supported with this solution. Create the bucket outside of NetBackup using the cloud provider's interface.
2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Telefonica

Telefonica - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Cloud Storage	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Cloud Storage [1]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Telefonica - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Cloud Storage	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11
Cloud Storage [1]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	All Locales	6.1, 7.1	11.31	10, 11

1. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Veritas

Veritas - Support with NetBackup Appliance

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	5200 Series	5300 Series	CloudCatalyst Appliance
Access [1]	NetBackup Appliance 3.1 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	No	No	Yes
Access [2]	OpenDedup 2.0 Plug-in	Accelerator, Accel_VMware, KMS	On-Premises	Yes	Yes	No

1. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

2. The Datish Systems OpenDedup plug-in is available from the vendor's website. Use the link [in this table](#) .

Veritas - Support with Windows / Linux

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Access [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Access [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. Requires Cloud Configuration Package version 2.2.7 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

Veritas - Support with UNIX

Cloud Storage Solution	NetBackup Version Containing Plug-in or Vendor-Supplied Plug-in Version	Supported OpenStorage Functionality	Locales / Regions	AIX on POWER	HP-UX on IA64	Solaris on SPARC
Access [1]	NetBackup 8.0 and later S3 connector	Accelerator, Accel_VMware, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11
Access [2]	NetBackup 8.1 and later S3 connector	Accelerator, Accel_VMware, CloudCatalyst, KMS, Opt_Synth	On-Premises	6.1, 7.1	11.31	10, 11

1. Requires Cloud Configuration Package version 2.2.7 or later.

2. CloudCatalyst Appliances and Storage Servers have specific requirements. For details, see the [OST - Supported Functionality](#) section. Any Media Server platform supported as an MSDP storage server is also supported as a CloudCatalyst source.

OST Storage Servers

OpenStorage Servers are intelligent storage devices that interface to NetBackup Media Servers via the Veritas OpenStorage (OST) API. The vendor supplying the Storage Server appliance provides a software plug-in, which is installed on each NetBackup Media Server that is attached to the OpenStorage Server.

OST Storage Servers support information is listed below, organized by vendor. Under each vendor there are separate tables showing compatibility with NetBackup Appliances, with Linux/Windows operating systems, and with UNIX operating systems. The tables provide information on supported versions of plug-ins and functionality, and other important notes about the hardware and its compatibility. OST functionality is available on all supported NetBackup Media Server platforms. If you do not see OST support for your desired Storage Server appliance / Media Server OS platform, please contact that Storage Server appliance vendor to request OST support for that platform. Please see the Veritas NetBackup Administrator's Guide for more information on how to use OST.

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OST Storage Servers - Considerations

Subject	Notes
Support assumptions	For details on supported operating systems, please refer to the " NetBackup 8.0 - 8.x.x Operating System Software Compatibility List " < http://www.veritas.com/docs/000115691 > . 1. All OpenStorage Servers are compatible with the NetBackup Data Protection Optimization Option features (Storage Lifecycle Policies, Intelligent Disk Capacity Management and Media Server Load Balancing) and the SAN Client (currently supported only with Solaris SPARC and Linux x64 media servers).
Vendor support considerations	1. Veritas and OpenStorage server vendors have mutually agreed to support NetBackup customers with OST solutions. Veritas and most OST server vendors are members of TSANet. 2. Veritas qualifies OpenStorage plug-ins for use with NetBackup. The qualified plug-ins are maintained by the party that writes and distributes the plug-ins. Features Veritas Partners implement behind the OST API, that operate independently and are transparent to NetBackup and the OpenStorage API (for example, replication between storage servers, deduplication on the storage server, deduplication-aware plug-ins, data transport mechanisms between the media server and the storage server), are not specifically qualified by Veritas. Partner-specific features designed to interoperate in the NetBackup environment as part of the total solution are the maintenance responsibility of the partner. Check the partner's compatibility list to ensure support of the feature with NetBackup and to ensure that your infrastructure (that is, hardware and network) meets the partner's recommended sizing considerations for the feature. 3. Check the device manufacturer's compatibility list to verify the minimum version of Storage Server software required for your Storage Server family member, that the Storage Server software version you are running is compatible with the plug-in version, and that the storage server software version supports the OpenStorage functionality you are running. 4. Minor versions of the plug-ins listed in the tables below are also supported. (Example: Version "2.0" means versions 2.0.1, 2.0.2, etc. are also supported. Version "3" means versions 3.1, 3.2, etc. are also supported.)
Configuration considerations	1. The Data Interface column in the tables below describes the supported data path between the media server running the vendor's OST plug-in and the OST storage server.

Subject	Notes
Operational considerations	1. Storage Servers that do not automatically increase the size of Logical Storage Units (LSU) may take advantage of the LSU spanning feature. For information about spanning volumes on OpenStorage disk pools, see the Veritas NetBackup OpenStorage Solutions Guide for Disk. 2. The NetBackup Accelerator, Accelerator with NDMP, and Accelerator with VMware-type policies features are not supported with spanned LSUs.
Operating system support dropped	1. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later. 2. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.

OST Storage Servers - Links to Vendor Sites

More information on NetBackup OpenStorage solutions is available at the following OST Storage Server vendors' websites.

Vendor	URL
Cleversafe	http://www.cleversafe.com/
Data Domain	http://www.datadomain.com/products/
Dell	http://www.dell.com/
ExaGrid	http://www.exagrid.com/exagrid-products/supported-data-backup-applications/symantec-netbackup/
Fujitsu	http://www.fujitsu.com/global/
Hedvig	https://www.hedviginc.com/veritas/
Hewlett Packard Enterprise	https://www.hpe.com/us/en/storage/storeonce.html
Hitachi	http://www.hds.com/
Huawei	http://www.huawei.com/
H3C	http://www.h3c.com/en/OurBusiness/Products/Storage/
Infinidat	http://www.infinidat.com/
NEC	http://www.necam.com/HYDRAsor/
NetApp	http://www.netapp.com/us/products/protection-software/altavault/
Oracle	http://www.oracle.com/technetwork/server-storage/sun-unified-storage/downloads/zfssa-plugins-1489830.html
Quantum	http://www.quantum.com/ServiceandSupport/SoftwareandDocumentationDownloads/OSTClientPlugin/Index.aspx
Quest	https://www.quest.com/products/dr-series-disk-backup-appliances/
Sepaton	http://www.sepaton.com/

Vendor	URL
Veritas	NetBackup Appliances - < https://www.veritas.com/product/backup-and-recovery/netbackup-appliances/ > Velocity - < https://www.veritas.com/product/backup-and-recovery/velocity/ >

OST Storage Servers - Vendor Compatibility

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<u>Cleversafe</u>	<u>Data Domain</u>	<u>Dell</u>
<u>ExaGrid</u>	<u>FalconStor</u>	<u>Fujitsu</u>
<u>H3C</u>	<u>Hedvig</u>	<u>Hewlett Packard Enterprise</u>
<u>Hitachi</u>	<u>Huawei</u>	<u>IBM</u>
<u>Infinidat</u>	<u>NEC</u>	<u>NetApp</u>
<u>Oracle</u>	<u>Quantum</u>	<u>Quest - formerly Dell</u>
<u>SEPATON</u>	<u>Veritas</u>	

Cleversafe

Cleversafe - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64
dsNet series	V1.0	Ethernet		Datacenter	6

Cleversafe - Family Membership

Storage Server Family	Members
dsNet series	Accesser 2100, Accesser 3100

Data Domain

Data Domain - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	5200 Series	5300 Series
Appliance series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes [2]	Yes [2]
Appliance series [1]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes [2]	Yes [2]
Appliance series [1]	3.2	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes	Yes
Appliance series [1]	3.2	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes	Yes
Appliance series [3] [4]	3.3	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
Appliance series [3] [4]	3.3	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
DDX Array series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes [2]	Yes [2]
DDX Array series [1]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes [2]	Yes [2]
DDX Array series [1]	3.2	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes	Yes
DDX Array series [1]	3.2	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes	Yes
DDX Array series [3] [4]	3.3	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
DDX Array series [3] [4]	3.3	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
Gateway series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes [2]	Yes [2]

Data Domain - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	5200 Series	5300 Series
Gateway series [1]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes [2]	Yes [2]
Gateway series [1]	3.2	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes	Yes
Gateway series [1]	3.2	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes	Yes
Gateway series [3] [4]	3.3	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
Gateway series [3] [4]	3.3	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes
Global Deduplication Array series [1]	3.1	Ethernet	Opt_Dup	Yes [2]	Yes [2]
Global Deduplication Array series [1]	3.1	Fibre Channel	Opt_Dup	Yes [2]	Yes [2]
Global Deduplication Array series [1]	3.2	Ethernet	Opt_Dup	Yes	Yes
Global Deduplication Array series [1]	3.2	Fibre Channel	Opt_Dup	Yes	Yes
Global Deduplication Array series	3.3	Ethernet	Opt_Dup	Yes	Yes
Global Deduplication Array series	3.3	Fibre Channel	Opt_Dup	Yes	Yes
Virtual Edition (VMware) [1] [5]	3.2	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes	Yes
Virtual Edition (VMware) [3] [5]	3.3	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes

1. For a fresh install or reinstall with NetBackup 8.0, please obtain the latest version of this plug-in from the vendor.
2. Supported with NetBackup Appliances running versions 2.5.x.x or 2.6.x.x.
3. Instant Recovery for VMware is only supported with Red Hat and SLES guest OS with this solution.
4. Targeted A.I.R. is supported in One-to-One, One-to-Many, and Many-to-One configurations.
5. This device is a virtual appliance. For compatible versions of VMware, see Data Domain's and VMware's compatibility lists.

Data Domain - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Appliance series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	5, 6, 7 [2] [3]	11, 12
Appliance series [1]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
Appliance series [1]	3.2	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
Appliance series [1]	3.2	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
Appliance series [4] [5]	3.3	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
Appliance series [4] [5]	3.3	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
Appliance series [4] [5]	3.4	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	No	Datacenter	Datacenter	6, 7	11, 12
Appliance series [4]	3.4	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	No	Datacenter	Datacenter	6, 7	11, 12
DDX Array series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	5, 6, 7 [2] [3]	11, 12
DDX Array series [1]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12

Data Domain - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DDX Array series [1]	3.2	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
DDX Array series [1]	3.2	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
DDX Array series [4] [5]	3.3	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
DDX Array series [4] [5]	3.3	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
DDX Array series [4] [5]	3.4	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	No	Datacenter	Datacenter	6, 7	11, 12
DDX Array series [4]	3.4	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	No	Datacenter	Datacenter	6, 7	11, 12
Gateway series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	5, 6, 7 [2] [3]	11, 12
Gateway series [1]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
Gateway series [1]	3.2	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
Gateway series [1]	3.2	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12

Data Domain - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Gateway series [4] [5]	3.3	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
Gateway series [4] [5]	3.3	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
Gateway series [4] [5]	3.4	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	No	Datacenter	Datacenter	6, 7	11, 12
Gateway series [4]	3.4	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	No	Datacenter	Datacenter	6, 7	11, 12
Global Deduplication Array series [1]	3.1	Ethernet	Opt_Dup	Enterprise Edition	Datacenter	No	5, 6, 7 [2] [3]	11, 12
Global Deduplication Array series [1]	3.1	Fibre Channel	Opt_Dup	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
Global Deduplication Array series [1]	3.2	Ethernet	Opt_Dup	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
Global Deduplication Array series [1]	3.2	Fibre Channel	Opt_Dup	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
Global Deduplication Array series	3.3	Ethernet	Opt_Dup	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
Global Deduplication Array series	3.3	Fibre Channel	Opt_Dup	Enterprise Edition	Datacenter	No	6, 7 [3]	11, 12
Global Deduplication Array series	3.4	Ethernet	Opt_Dup	No	Datacenter	Datacenter	6, 7	11, 12
Global Deduplication Array series	3.4	Fibre Channel	Opt_Dup	No	Datacenter	Datacenter	6, 7	11, 12

Data Domain - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Virtual Edition (VMware) [1] [6]	3.2	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7	11, 12
Virtual Edition (VMware) [4] [6]	3.3	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Enterprise Edition	Datacenter	No	6, 7	11, 12

1. For a fresh install or reinstall with NetBackup 8.0, please obtain the latest version of this plug-in from the vendor.
2. The Red Hat plug-in is also supported with Oracle Linux 5.
3. The Red Hat plug-in is also supported with Oracle Linux 6.
4. Instant Recovery for VMware is only supported with Red Hat and SLES guest OS with this solution.
5. Targeted A.I.R. is supported in One-to-One, One-to-Many, and Many-to-One configurations.
6. This device is a virtual appliance. For compatible versions of VMware, see Data Domain's and VMware's compatibility lists.

Data Domain - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
Appliance series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
Appliance series [1]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	No	No	No
Appliance series [1]	3.2	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
Appliance series [1]	3.2	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11

Data Domain - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
Appliance series [2] [3]	3.3	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11	10, 11
Appliance series [2] [3]	3.3	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11	10, 11
DDX Array series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
DDX Array series [1]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	No	No	No
DDX Array series [1]	3.2	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
DDX Array series [1]	3.2	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
DDX Array series [2] [3]	3.3	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11	10, 11
DDX Array series [2] [3]	3.3	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11	10, 11
Gateway series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
Gateway series [1]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	No	No	No
Gateway series [1]	3.2	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
Gateway series [1]	3.2	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
Gateway series [2] [3]	3.3	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11	10, 11
Gateway series [2] [3]	3.3	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11	10, 11
Global Deduplication Array series [1]	3.1	Ethernet	Opt_Dup	6.1, 7.1	11.31	10, 11	10, 11

Data Domain - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
Global Deduplication Array series [1]	3.1	Fibre Channel	Opt_Dup	6.1, 7.1	No	No	No
Global Deduplication Array series [1]	3.2	Ethernet	Opt_Dup	6.1, 7.1	11.31	10, 11	10, 11
Global Deduplication Array series [1]	3.2	Fibre Channel	Opt_Dup	6.1, 7.1	11.31	10, 11	10, 11
Global Deduplication Array series	3.3	Ethernet	Opt_Dup	6.1, 7.1	11.31	10, 11	10, 11
Global Deduplication Array series	3.3	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11	10, 11
Virtual Edition (VMware) [1] [4]	3.2	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
Virtual Edition (VMware) [2] [4]	3.3	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11	10, 11

1. For a fresh install or reinstall with NetBackup 8.0, please obtain the latest version of this plug-in from the vendor.
2. Instant Recovery for VMware is only supported with Red Hat and SLES guest OS with this solution.
3. Targeted A.I.R. is supported in One-to-One, One-to-Many, and Many-to-One configurations.
4. This device is a virtual appliance. For compatible versions of VMware, see Data Domain's and VMware's compatibility lists.

Data Domain - Family Membership

Storage Server Family	Members
Appliance series	DD140, DD160, DD510, DD530, DD560, DD565, DD580, DD610, DD620, DD630, DD640, DD660, DD670, DD690, DD860, DD880, DD890, DD990, DD2200, DD2500, DD4200, DD4500, DD6300, DD6800, DD7200, DD9300, DD9500, DD9800
DDX Array series	DDX
Gateway series	DD560g, DD580g, DD690g, DD880g
Global Deduplication Array series	GDA

Dell

Dell - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DR2000v [1]	3.1	Ethernet	Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition [2]	Datacenter [2]	6	11
DR2000v [1]	3.2	Ethernet	Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth	Enterprise Edition [2]	Datacenter [2]	6	11
DR Series	3.0	Ethernet	Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, Opt_Dup, Opt_Synth	Enterprise Edition [2]	Datacenter [2]	5, 6	11
DR Series	3.1	Ethernet	Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition [2]	Datacenter [2]	6	11
DR Series	3.2	Ethernet	Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth	Enterprise Edition [2]	Datacenter [2]	6	11

1. This device is a virtual appliance. For compatible versions of VMware, see Dell's and VMware's compatibility lists.
2. Requires a force install on Windows platforms. Contact Dell for instructions.

Dell - Family Membership

Storage Server Family	Members
DR Series	DR4000, DR4100, DR6000

ExaGrid

ExaGrid - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	5200 Series	5300 Series
EX series	V11.4.0	Ethernet	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes [1]	Yes [1]

1. Supported with NetBackup Appliances running version 2.7.1 or later.

ExaGrid - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64
EX series	V10.3.0	Ethernet	Granular_Recovery, Opt_Dup, Opt_Synth	Enterprise Edition	No	5, 6
EX series	V11.4.0	Ethernet	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	5, 6, 7

ExaGrid - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	Solaris on SPARC
EX series	V10.3.0	Ethernet	Granular_Recovery, Opt_Dup, Opt_Synth	No	10
EX series	V11.4.0	Ethernet	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	10, 11

ExaGrid - Family Membership

Storage Server Family	Members
EX series	EX1000, EX2000, EX3000, EX4000, EX5000, EX7000, EX7000-SEC, EX10000E, EX10000E-SEC, EX13000E, EX13000E-SEC, EX21000E, EX21000E-SEC, EX32000E, EX32000E-SEC, EX40000E, EX40000E-SEC

FalconStor

FalconStor - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	5200 Series	5300 Series
Virtual Tape Library (VTL) series	9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R.	Yes	Yes
Virtual Tape Library (VTL) series	9	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Yes	Yes

FalconStor - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Virtual Tape Library (VTL) series	9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R.	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
Virtual Tape Library (VTL) series	9	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

FalconStor - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	Solaris on SPARC
Virtual Tape Library (VTL) series	9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R.	6.1, 7.1	10, 11
Virtual Tape Library (VTL) series	9	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Opt_Dup, Opt_Synth, Targeted_A.I.R.	6.1, 7.1	10, 11

FalconStor - Family Membership

Storage Server Family	Members
Virtual Tape Library (VTL) series	VTL-G, VTL-S, VTL-V

Fujitsu

Fujitsu - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	5200 Series	5300 Series
ETERNUS CS800 S3	3.1	Ethernet	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Yes [1]	Yes [1]
ETERNUS CS800 S4	3.1	Ethernet	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Yes [1]	Yes [1]
ETERNUS CS800 S5	3.1	Ethernet	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Yes [1]	Yes [1]
ETERNUS CS800 S6	3.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes [1]	Yes [1]

1. Supported with NetBackup Appliances running version 2.7.1 or later.

Fujitsu - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
ETERNUS CS800 S3	2.9	Ethernet	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	5, 6	11
ETERNUS CS800 S3	3.1	Ethernet	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	6, 7	11, 12
ETERNUS CS800 S4	2.9	Ethernet	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	5, 6	11
ETERNUS CS800 S4	3.1	Ethernet	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	6, 7	11, 12
ETERNUS CS800 S5	2.9	Ethernet	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	5, 6	11
ETERNUS CS800 S5	3.1	Ethernet	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	6, 7	11, 12

Fujitsu - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
ETERNUS CS800 S6	3.1	Ethernet	A.I.R., Accelerator, Acce _NDMP, Acce _VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	6, 7	11, 12
ETERNUS CS8000 series	1.0	Ethernet	Opt_Dup	No	No	6, 7	11, 12
ETERNUS CS8000 series	1.1	Ethernet	Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12

Fujitsu - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
ETERNUS CS800 S3	2.9	Ethernet	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
ETERNUS CS800 S4	2.9	Ethernet	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
ETERNUS CS800 S5	2.9	Ethernet	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
ETERNUS CS800 S6	2.9	Ethernet	A.I.R., Direct_Copy_Shared, KMS, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11

Fujitsu - Family Membership

Storage Server Family	Members
ETERNUS CS8000 series	ETERNUS CS8050, ETERNUS CS8200, ETERNUS CS8400, ETERNUS CS8800

H3C

H3C - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	5200 Series	5300 Series
CP3310	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Yes	Yes
CP3310 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP3352	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Yes	Yes
CP3352	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	Yes	Yes
CP3352 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP3352 [1] [2] [3]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP3354	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Yes	Yes
CP3354	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	Yes	Yes
CP3354 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP3354 [1] [2] [3]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP5510	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Yes	Yes
CP5510	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	Yes	Yes
CP5510 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP5510 [1] [2] [3]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes

H3C - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	5200 Series	5300 Series
CP5550 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP5550 [1] [2] [3]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP6660 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
CP6660 [1] [2] [3]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes

1. Accelerator with NDMP support requires StoreOnce plug-in version 4.0.1 or later and StoreOnce software version 3.13.3 or later.
2. Instant Recovery with VMware support requires StoreOnce software version 3.15.1 or later.
3. Optimized Duplication and Whole Image Optimized Duplication over Fibre Channel support requires StoreOnce software version 3.16 or later.

H3C - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
CP3310	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Enterprise Edition	Datacenter	6, 7	11, 12
CP3310 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12
CP3352	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Enterprise Edition	Datacenter	6, 7	11, 12
CP3352	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	Enterprise Edition	Datacenter	6, 7	11, 12
CP3352 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12

H3C - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
CP3352 [1] [2] [3]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12 [4]
CP3354	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Enterprise Edition	Datacenter	6, 7	11, 12
CP3354	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	Enterprise Edition	Datacenter	6, 7	11, 12
CP3354 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12
CP3354 [1] [2] [3]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12 [4]
CP5510	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Enterprise Edition	Datacenter	6, 7	11, 12
CP5510	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	Enterprise Edition	Datacenter	6, 7	11, 12
CP5510 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12
CP5510 [1] [2] [3]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12 [4]
CP5550 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12
CP5550 [1] [2] [3]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12 [4]
CP6660 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12
CP6660 [1] [2] [3]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12 [4]

1. Accelerator with NDMP support requires StoreOnce plug-in version 4.0.1 or later and StoreOnce software version 3.13.3 or later.
2. Instant Recovery with VMware support requires StoreOnce software version 3.15.1 or later.
3. Optimized Duplication and Whole Image Optimized Duplication over Fibre Channel support requires StoreOnce software version 3.16 or later.

4. Fibre Channel data path is supported on SLES 11 GA through SP2 with StoreOnce software versions earlier than 3.13.1. Fibre Channel data path is supported on SLES 11 SP3 and later updates with StoreOnce software versions 3.13.1 or later.

H3C - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	HP-UX on IA64	Solaris on SPARC
CP3310	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
CP3310 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
CP3352	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
CP3352	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
CP3352 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
CP3352 [1] [2] [3]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
CP3354	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
CP3354	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
CP3354 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
CP3354 [1] [2] [3]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
CP5510	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
CP5510	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
CP5510 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11

H3C - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	HP-UX on IA64	Solaris on SPARC
CP5510 [1] [2] [3]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
CP5550 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
CP5550 [1] [2] [3]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
CP6660 [1] [2]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
CP6660 [1] [2] [3]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11

1. Accelerator with NDMP support requires StoreOnce plug-in version 4.0.1 or later and StoreOnce software version 3.13.3 or later.
2. Instant Recovery with VMware support requires StoreOnce software version 3.15.1 or later.
3. Optimized Duplication and Whole Image Optimized Duplication over Fibre Channel support requires StoreOnce software version 3.16 or later.

Hedvig

Hedvig - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Red Hat Enterprise Linux on x86-64
Distributed Storage Platform	1.0	Ethernet		6, 7 [1] [2]

1. The Red Hat plug-in is also supported with CentOS 6.
2. The Red Hat plug-in is also supported with CentOS 7.

Hewlett Packard Enterprise

Hewlett Packard Enterprise - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	5200 Series	5300 Series
StoreOnce 2000 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Yes	Yes
StoreOnce 2000 series [2] [3]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 3000 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Yes	Yes
StoreOnce 3000 series [2] [3]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 3500 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Yes	Yes
StoreOnce 3500 series [1] [4]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	Yes	Yes
StoreOnce 3500 series [2] [3]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 3500 series [2] [3] [5]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 4000 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Yes	Yes
StoreOnce 4000 series [1] [4]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	Yes	Yes
StoreOnce 4000 series [2] [3]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 4000 series [2] [3] [5]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 5000 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Yes	Yes

Hewlett Packard Enterprise - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	5200 Series	5300 Series
StoreOnce 5000 series [1] [4]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	Yes	Yes
StoreOnce 5000 series [2] [3]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 5000 series [2] [3] [5]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 6000 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Yes	Yes
StoreOnce 6000 series [1] [4]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	Yes	Yes
StoreOnce 6000 series [2] [3]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce 6000 series [2] [3] [5]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
StoreOnce VSA (VMware) [1] [6]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Yes	Yes
StoreOnce VSA (VMware) [2] [3] [6]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes

1. Accelerator support requires StoreOnce software version 3.12 or later.
2. Accelerator with NDMP support requires StoreOnce plug-in version 4.0.1 or later and StoreOnce software version 3.13.3 or later.
3. Instant Recovery with VMware support requires StoreOnce software version 3.15.1 or later.
4. Targeted A.I.R. support over Fibre Channel requires plug-in version 3.1.2 or later.
5. Optimized Duplication and Whole Image Optimized Duplication over Fibre Channel support requires StoreOnce software version 3.16 or later.
6. This device is a virtual appliance. For compatible versions of VMware, see Hewlett Packard Enterprise's and VMware's compatibility lists.

Hewlett Packard Enterprise - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
D2D2500 G2 Backup System	1.1	Ethernet	Opt_Dup	Enterprise Edition	No	No	No
D2D2500 G2 Backup System	1.2	Ethernet	Opt_Dup	Enterprise Edition	No	5, 6	11
D2D4100 G2 Backup System	1.1	Ethernet	Opt_Dup	Enterprise Edition	No	No	No
D2D4100 G2 Backup System	1.2	Ethernet	Opt_Dup	Enterprise Edition	No	5, 6	11
D2D4300 G2 Backup System	1.1	Ethernet	Opt_Dup	Enterprise Edition	No	No	No
D2D4300 G2 Backup System	1.2	Ethernet	Opt_Dup	Enterprise Edition	No	5, 6	11
StoreOnce 2000 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Enterprise Edition	Datacenter	5, 6, 7 [2] [3]	11, 12
StoreOnce 2000 series [4] [5]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12
StoreOnce 3000 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Enterprise Edition	Datacenter	6, 7 [3]	11, 12
StoreOnce 3000 series [4] [5]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12
StoreOnce 3500 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Enterprise Edition	Datacenter	6, 7 [3]	11, 12
StoreOnce 3500 series [1] [6]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	Enterprise Edition	Datacenter	6, 7 [3]	11, 12 [7]

Hewlett Packard Enterprise - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
StoreOnce 3500 series [4] [5]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12
StoreOnce 3500 series [4] [5] [8]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12 [7]
StoreOnce 4000 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Enterprise Edition	Datacenter	5, 6, 7 [2] [3]	11, 12
StoreOnce 4000 series [1] [6]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	Enterprise Edition	Datacenter	5, 6, 7 [2] [3]	11, 12 [7]
StoreOnce 4000 series [4] [5]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12
StoreOnce 4000 series [4] [5] [8]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12
StoreOnce 5000 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Enterprise Edition	Datacenter	6, 7 [3]	11, 12
StoreOnce 5000 series [1] [6]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	Enterprise Edition	Datacenter	6, 7 [3]	11, 12 [7]
StoreOnce 5000 series [4] [5]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12
StoreOnce 5000 series [4] [5] [8]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12
StoreOnce 6000 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Enterprise Edition	Datacenter	5, 6, 7 [2] [3]	11, 12

Hewlett Packard Enterprise - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
StoreOnce 6000 series [1] [6]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	Enterprise Edition	Datacenter	5, 6, 7 [2] [3]	11, 12 [7]
StoreOnce 6000 series [4] [5]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12
StoreOnce 6000 series [4] [5] [8]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12
StoreOnce VSA (VMware) [1] [9]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	Enterprise Edition	Datacenter	5, 6, 7 [2] [3]	11, 12
StoreOnce VSA (VMware) [4] [5] [9]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition	Datacenter	6, 7	11, 12

1. Accelerator support requires StoreOnce software version 3.12 or later.
2. The Red Hat plug-in is also supported with Oracle Linux 5.
3. The Red Hat plug-in is also supported with Oracle Linux 6.
4. Accelerator with NDMP support requires StoreOnce plug-in version 4.0.1 or later and StoreOnce software version 3.13.3 or later.
5. Instant Recovery with VMware support requires StoreOnce software version 3.15.1 or later.
6. Targeted A.I.R. support over Fibre Channel requires plug-in version 3.1.2 or later.
7. Fibre Channel data path is supported on SLES 11 GA through SP2 with StoreOnce software versions earlier than 3.13.1. Fibre Channel data path is supported on SLES 11 SP3 and later updates with StoreOnce software versions 3.13.1 or later.
8. Optimized Duplication and Whole Image Optimized Duplication over Fibre Channel support requires StoreOnce software version 3.16 or later.
9. This device is a virtual appliance. For compatible versions of VMware, see Hewlett Packard Enterprise's and VMware's compatibility lists.

Hewlett Packard Enterprise - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	HP-UX on IA64	Solaris on SPARC
D2D2500 G2 Backup System	1.2	Ethernet	Opt_Dup	No	11.31	10
D2D4100 G2 Backup System	1.2	Ethernet	Opt_Dup	No	11.31	10
D2D4300 G2 Backup System	1.2	Ethernet	Opt_Dup	No	11.31	10
StoreOnce 2000 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
StoreOnce 2000 series [2] [3]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
StoreOnce 3000 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
StoreOnce 3000 series [2] [3]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
StoreOnce 3500 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
StoreOnce 3500 series [1] [4]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
StoreOnce 3500 series [2] [3]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
StoreOnce 3500 series [2] [3] [5]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
StoreOnce 4000 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
StoreOnce 4000 series [1] [4]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
StoreOnce 4000 series [2] [3]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
StoreOnce 4000 series [2] [3] [5]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11

Hewlett Packard Enterprise - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	HP-UX on IA64	Solaris on SPARC
StoreOnce 5000 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
StoreOnce 5000 series [1] [4]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
StoreOnce 5000 series [2] [3]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
StoreOnce 5000 series [2] [3] [5]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
StoreOnce 6000 series [1]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
StoreOnce 6000 series [1] [4]	3.1	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
StoreOnce 6000 series [2] [3]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
StoreOnce 6000 series [2] [3] [5]	4.0	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11
StoreOnce VSA (VMware) [1] [6]	3.1	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Targeted_A.I.R.	6.1, 7.1	11.31	10, 11
StoreOnce VSA (VMware) [2] [3] [6]	4.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	11.31	10, 11

1. Accelerator support requires StoreOnce software version 3.12 or later.
2. Accelerator with NDMP support requires StoreOnce plug-in version 4.0.1 or later and StoreOnce software version 3.13.3 or later.
3. Instant Recovery with VMware support requires StoreOnce software version 3.15.1 or later.
4. Targeted A.I.R. support over Fibre Channel requires plug-in version 3.1.2 or later.
5. Optimized Duplication and Whole Image Optimized Duplication over Fibre Channel support requires StoreOnce software version 3.16 or later.
6. This device is a virtual appliance. For compatible versions of VMware, see Hewlett Packard Enterprise's and VMware's compatibility lists.

Hewlett Packard Enterprise - Family Membership

Storage Server Family	Members
D2D2500 G2 Backup System	D2D2502i G2 Backup System, D2D2504i G2 Backup System
D2D4100 G2 Backup System	D2D4106fc G2 Backup System, D2D4106i G2 Backup System, D2D4112 G2 Backup System
D2D4300 G2 Backup System	D2D4312 G2 Backup System, D2D4324 G2 Backup System
StoreOnce 2000 series	StoreOnce 2610, StoreOnce 2620, StoreOnce 2700, StoreOnce 2900
StoreOnce 3000 series	StoreOnce 3100
StoreOnce 3500 series	StoreOnce 3520, StoreOnce 3540
StoreOnce 4000 series	StoreOnce 4210fc, StoreOnce 4210i, StoreOnce 4220, StoreOnce 4420, StoreOnce 4430, StoreOnce 4500, StoreOnce 4700, StoreOnce 4900
StoreOnce 5000 series	StoreOnce 5100, StoreOnce 5500
StoreOnce 6000 series	StoreOnce 6500, StoreOnce 6600, StoreOnce B6200

Hitachi

Hitachi - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	5200 Series	5300 Series
Protection Platform S-Series	7.3	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	Yes [1]	Yes [1]
Protection Platform S-Series	7.3	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	Yes [1]	Yes [1]
Protection Platform S-Series	8.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
Protection Platform S-Series	8.1	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes

1. Supported with NetBackup Appliances running versions 2.5.x.x or 2.6.x.x.

Hitachi - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Content Platform (HCP) [1]	OpenStorage Connector 1.0	Ethernet		Enterprise Edition	No	5	No
HCO 212	HCO Adapter 2.2	Ethernet		Enterprise Edition	Datacenter [2]	No	No
HUS 100 series	OpenStorage Connector 1.0	Fibre Channel	Opt_Dup	Enterprise Edition	No	5	No
HUS 100 series	OpenStorage Connector 1.2	Fibre Channel	A.I.R., Opt_Dup	Enterprise Edition	No	No	No

Hitachi - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Protection Platform S-Series	7.3	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition [3]	Datacenter	5, 6 [4] [5]	11
Protection Platform S-Series	7.3	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition [3]	Datacenter	5, 6 [4] [5]	11
Protection Platform S-Series	8.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition [3]	Datacenter	5, 6, 7 [4] [5]	11, 12
Protection Platform S-Series	8.1	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition [3]	Datacenter	5, 6, 7 [4] [5]	11, 12
SMS/AMS2000 series	OpenStorage Connector 1.0	Fibre Channel	Opt_Dup	Enterprise Edition	No	5	No
SMS/AMS2000 series	OpenStorage Connector 1.2	Fibre Channel	A.I.R., Opt_Dup	Enterprise Edition	No	No	No

1. Supported with HCP 5.0 Appliance Operating System only. Newer versions of HCP use the NetBackup S3 connector. For support information on newer HCP versions, [see the OST Cloud section](#).
2. Windows 2012 support requires plug-in version 2.2.2 or later.
3. Requires Windows 2008 R2 or later.
4. The Red Hat plug-in is also supported with CentOS 5.
5. The Red Hat plug-in is also supported with CentOS 6.

Hitachi - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	Solaris on SPARC
Protection Platform S-Series	7.3	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	10, 11
Protection Platform S-Series	7.3	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	10, 11
Protection Platform S-Series	8.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	10, 11
Protection Platform S-Series	8.1	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	10, 11

Hitachi - Family Membership

Storage Server Family	Members
Content Platform (HCP)	HCP 300, HCP 500
HUS 100 series	HUS110, HUS130, HUS150
Protection Platform S-Series	Protection Platform S1500, Protection Platform S2500, Protection Platform S2700, Protection Platform S2750
SMS/AMS2000 series	AMS2100, AMS2300, AMS2500, SMS100

Huawei

Huawei - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Red Hat Enterprise Linux on x86-64
VTL	2.1	Fibre Channel	Direct_Copy_Shared, Opt_Dup	Enterprise Edition	5

Huawei - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	Solaris on SPARC	Solaris on x86-64
VTL	2.1	Fibre Channel	Direct_Copy_Shared, Opt_Dup	6.1	10	10

Huawei - Family Membership

Storage Server Family	Members
VTL	VTL3500, VTL6000

IBM

IBM - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Red Hat Enterprise Linux on x86-64
System Storage TS7600 series with ProtecTIER [1]	3.3	Ethernet	Granular_Recovery, IR_VMware, Opt_Dup	Enterprise Edition	5, 6

1. NetBackup 8.1 and later will not support this solution.

IBM - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER
System Storage TS7600 series with ProtecTIER [1]	3.3	Ethernet	Granular_Recovery, IR_VMware, Opt_Dup	7.1

1. NetBackup 8.1 and later will not support this solution.

IBM - Family Membership

Storage Server Family	Members
System Storage TS7600 series with ProtecTIER	System Storage TS7620, System Storage TS7650AP1, System Storage TS7650G

Infinidat

Infinidat - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
INFINIDAT B series	10.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

Infinidat - Family Membership

Storage Server Family	Members
INFINIDAT B series	B4260

NEC

NEC - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
HYDRAsstor HS3 and HS8 (2nd Gen) and iStorage HS3 and HS8 (2nd Gen)	2.6.1	Ethernet	Opt_Dup, Opt_Synth	Enterprise Edition	No	5, 6	11
HYDRAsstor HS3 and HS8 (2nd Gen) and iStorage HS3 and HS8 (2nd Gen)	2.7	Ethernet	Opt_Dup, Opt_Synth	Enterprise Edition	No	5, 6	11
HYDRAsstor HS3 and HS8 (2nd Gen) and iStorage HS3 and HS8 (2nd Gen)	2.8	Ethernet	Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	5, 6	11
HYDRAsstor HS3 and HS8 (2nd Gen) and iStorage HS3 and HS8 (2nd Gen) [1]	2.9	Ethernet	A.I.R., Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	5, 6	No
HYDRAsstor HS3 and HS8 (2nd Gen) and iStorage HS3 and HS8 (2nd Gen) [1]	2.10	Ethernet	A.I.R., Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	5, 6	No
HYDRAsstor HS3 and HS8 (2nd Gen) and iStorage HS3 and HS8 (2nd Gen) [1]	2.11	Ethernet	A.I.R., Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	5, 6	No
HYDRAsstor HS3 and HS8 (3rd Gen), iStorage HS3 and HS8 (3rd Gen) and NEC Storage HS3 (3rd Gen)	2.6.1	Ethernet	Opt_Dup, Opt_Synth	Enterprise Edition	No	5, 6	11
HYDRAsstor HS3 and HS8 (3rd Gen), iStorage HS3 and HS8 (3rd Gen) and NEC Storage HS3 (3rd Gen)	2.7	Ethernet	Opt_Dup, Opt_Synth	Enterprise Edition	No	5, 6	11
HYDRAsstor HS3 and HS8 (3rd Gen), iStorage HS3 and HS8 (3rd Gen) and NEC Storage HS3 (3rd Gen)	2.8	Ethernet	Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	5, 6	11
HYDRAsstor HS3 and HS8 (3rd Gen), iStorage HS3 and HS8 (3rd Gen) and NEC Storage HS3 (3rd Gen) [1]	2.9	Ethernet	A.I.R., Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	5, 6	No

NEC - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
HYDRAsor HS3 and HS8 (3rd Gen), iStorage HS3 and HS8 (3rd Gen) and NEC Storage HS3 (3rd Gen) [1]	2.10	Ethernet	A.I.R., Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	5, 6	No
HYDRAsor HS3 and HS8 (3rd Gen), iStorage HS3 and HS8 (3rd Gen) and NEC Storage HS3 (3rd Gen) [1]	2.11	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	5, 6, 7	No
HYDRAsor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen)	2.6.1	Ethernet	Opt_Dup, Opt_Synth	Enterprise Edition	No	5, 6	11
HYDRAsor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen)	2.7	Ethernet	Opt_Dup, Opt_Synth	Enterprise Edition	No	5, 6	11
HYDRAsor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen)	2.8	Ethernet	Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	5, 6	11
HYDRAsor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) [1]	2.9	Ethernet	A.I.R., Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	5, 6	No
HYDRAsor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) [1]	2.10	Ethernet	A.I.R., Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	5, 6	No
HYDRAsor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) [1]	2.11	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	5, 6, 7	No
HYDRAsor HS3 and HS8 (5th Gen), iStorage HS3 and HS8 (5th Gen) and NEC Storage HS3 and HS8 (5th Gen) [1]	2.11	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	6, 7	No

NEC - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
HYDRAsstor HS Virtual Appliance, iStorage HS Virtual Appliance, iStorage HS Lite, and NEC Storage HS Virtual Appliance [1]	2.11	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	6, 7	11

1. Auto Image Replication must be configured according to the "Custom A.I.R. Configuration" specified in NEC's white paper "OpenStorage (OST) Auto Image Replication Setup Guide", which may be obtained from NEC.

NEC - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	HP-UX on IA64	Solaris on SPARC
HYDRAsstor HS3 and HS8 (2nd Gen) and iStorage HS3 and HS8 (2nd Gen)	2.6.1	Ethernet	Opt_Dup, Opt_Synth	No	11.31	10, 11
HYDRAsstor HS3 and HS8 (2nd Gen) and iStorage HS3 and HS8 (2nd Gen)	2.7	Ethernet	Opt_Dup, Opt_Synth	No	11.31	10, 11
HYDRAsstor HS3 and HS8 (2nd Gen) and iStorage HS3 and HS8 (2nd Gen)	2.8	Ethernet	Opt_Dup, Opt_Synth	No	11.31	10, 11
HYDRAsstor HS3 and HS8 (2nd Gen) and iStorage HS3 and HS8 (2nd Gen) [1]	2.9	Ethernet	A.I.R., Opt_Dup, Opt_Synth	No	11.31	10, 11
HYDRAsstor HS3 and HS8 (2nd Gen) and iStorage HS3 and HS8 (2nd Gen) [1]	2.10	Ethernet	A.I.R., Opt_Dup, Opt_Synth	No	11.31	10, 11
HYDRAsstor HS3 and HS8 (2nd Gen) and iStorage HS3 and HS8 (2nd Gen) [1]	2.11	Ethernet	A.I.R., Opt_Dup, Opt_Synth	No	11.31	10, 11
HYDRAsstor HS3 and HS8 (3rd Gen), iStorage HS3 and HS8 (3rd Gen) and NEC Storage HS3 (3rd Gen)	2.6.1	Ethernet	Opt_Dup, Opt_Synth	No	11.31	10, 11
HYDRAsstor HS3 and HS8 (3rd Gen), iStorage HS3 and HS8 (3rd Gen) and NEC Storage HS3 (3rd Gen)	2.7	Ethernet	Opt_Dup, Opt_Synth	No	11.31	10, 11

NEC - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	HP-UX on IA64	Solaris on SPARC
HYDRAsTOR HS3 and HS8 (3rd Gen), iStorage HS3 and HS8 (3rd Gen) and NEC Storage HS3 (3rd Gen)	2.8	Ethernet	Opt_Dup, Opt_Synth	No	11.31	10, 11
HYDRAsTOR HS3 and HS8 (3rd Gen), iStorage HS3 and HS8 (3rd Gen) and NEC Storage HS3 (3rd Gen) [1]	2.9	Ethernet	A.I.R., Opt_Dup, Opt_Synth	No	11.31	10, 11
HYDRAsTOR HS3 and HS8 (3rd Gen), iStorage HS3 and HS8 (3rd Gen) and NEC Storage HS3 (3rd Gen) [1]	2.10	Ethernet	A.I.R., Opt_Dup, Opt_Synth	No	11.31	10, 11
HYDRAsTOR HS3 and HS8 (3rd Gen), iStorage HS3 and HS8 (3rd Gen) and NEC Storage HS3 (3rd Gen) [1]	2.11	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11
HYDRAsTOR HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen)	2.6.1	Ethernet	Opt_Dup, Opt_Synth	No	11.31	10, 11
HYDRAsTOR HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen)	2.7	Ethernet	Opt_Dup, Opt_Synth	No	11.31	10, 11
HYDRAsTOR HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen)	2.8	Ethernet	Opt_Dup, Opt_Synth	No	11.31	10, 11
HYDRAsTOR HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) [1]	2.9	Ethernet	A.I.R., Opt_Dup, Opt_Synth	No	11.31	10, 11
HYDRAsTOR HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) [1]	2.10	Ethernet	A.I.R., Opt_Dup, Opt_Synth	No	11.31	10, 11
HYDRAsTOR HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen) [1]	2.11	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11
HYDRAsTOR HS3 and HS8 (5th Gen), iStorage HS3 and HS8 (5th Gen) and NEC Storage HS3 and HS8 (5th Gen) [1]	2.11	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11
HYDRAsTOR HS Virtual Appliance, iStorage HS Virtual Appliance, iStorage HS Lite, and NEC Storage HS Virtual Appliance [1]	2.11	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	11

1. Auto Image Replication must be configured according to the "Custom A.I.R. Configuration" specified in NEC's white paper "OpenStorage (OST) Auto Image Replication Setup Guide", which may be obtained from NEC.

NEC - Family Membership

Storage Server Family	Members
HYDRAstor HS3 and HS8 (2nd Gen) and iStorage HS3 and HS8 (2nd Gen)	HYDRAstor HS3-210, HYDRAstor HS8-2002S, HYDRAstor HS8-2004R, HYDRAstor HS8-2004S, HYDRAstor HS8-2010R, HYDRAstor HS8-2020R, HYDRAstor HS8-2110R, iStorage HS3-20T, iStorage HS8-20R, iStorage HS8-20S
HYDRAstor HS3 and HS8 (3rd Gen), iStorage HS3 and HS8 (3rd Gen) and NEC Storage HS3 (3rd Gen)	HYDRAstor HS3-310, HYDRAstor HS8-3002S, HYDRAstor HS8-3004R, HYDRAstor HS8-3004S, HYDRAstor HS8-3010R, HYDRAstor HS8-3020R, HYDRAstor HS8-3110R, iStorage HS3-30T, iStorage HS3-30T2, iStorage HS8-30R, iStorage HS8-30S, NEC Storage HS3-30
HYDRAstor HS3 and HS8 (4th Gen), iStorage HS3 and HS8 (4th Gen) and NEC Storage HS3 and HS8 (4th Gen)	HYDRAstor HS3-410, HYDRAstor HS8-4001S, HYDRAstor HS8-4002S, HYDRAstor HS8-4006R, HYDRAstor HS8-4165, iStorage HS3-40, iStorage HS8-40, NEC Storage HS3-40, NEC Storage HS8-40
HYDRAstor HS3 and HS8 (5th Gen), iStorage HS3 and HS8 (5th Gen) and NEC Storage HS3 and HS8 (5th Gen)	HYDRAstor HS3-510, HYDRAstor HS8-5000, iStorage HS3-50, iStorage HS8-50, NEC Storage HS3-50, NEC Storage HS8-50
HYDRAstor HS Virtual Appliance, iStorage HS Virtual Appliance, iStorage HS Lite, and NEC Storage HS Virtual Appliance	HYDRAstor HS24-514, iStorage HS24-514, NEC Storage HS24-514

NetApp

NetApp - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	5200 Series	5300 Series
AltaVault [1]	1.2	Ethernet	Opt_Dup	Yes	Yes

1. NetBackup supports AltaVault sending backup images to any public or private cloud provider supported by AltaVault. See NetApp's list of cloud providers supported with AltaVault. Only one cloud provider can be configured per AltaVault physical appliance or virtual instance.

NetApp - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64
AltaVault [1]	1.2	Ethernet	Opt_Dup	Enterprise Edition	Datacenter	6, 7

1. NetBackup supports AltaVault sending backup images to any public or private cloud provider supported by AltaVault. See NetApp's list of cloud providers supported with AltaVault. Only one cloud provider can be configured per AltaVault physical appliance or virtual instance.

NetApp - Family Membership

Storage Server Family	Members
AltaVault	AVA-400, AVA-800, AVA-c4, AVA-c8, AVA-c16, AVA-v2, AVA-v8, AVA-v16, AVA-v32

Oracle

Oracle - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
ZFS Storage Appliance series	1.0	Ethernet	Opt_Dup	Enterprise Edition	Datacenter	5, 6	11
ZFS Storage Appliance series	1.1	Ethernet	Opt_Dup	No	No	6, 7	11, 12
ZFS Storage Appliance series	1.1	Fibre Channel	Opt_Dup	No	No	6, 7	11, 12
ZFS Storage Appliance series	2.0	Ethernet	Opt_Dup	No	Datacenter	6, 7	11, 12
ZFS Storage Appliance series	2.0	Fibre Channel	Opt_Dup	No	No	6, 7	11, 12

Oracle - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Solaris on SPARC	Solaris on x86-64
ZFS Storage Appliance series	1.0	Ethernet	Opt_Dup	10, 11	10
ZFS Storage Appliance series	1.1	Ethernet	Opt_Dup	11	11
ZFS Storage Appliance series	1.1	Fibre Channel	Opt_Dup	11	11
ZFS Storage Appliance series	2.0	Ethernet	Opt_Dup	11	No

Oracle - Family Membership

Storage Server Family	Members
ZFS Storage Appliance series	Oracle ZFS Storage 7110, Oracle ZFS Storage 7120, Oracle ZFS Storage 7210, Oracle ZFS Storage 7310, Oracle ZFS Storage 7320, Oracle ZFS Storage 7410, Oracle ZFS Storage 7420, ZFS Storage ZS3-2, ZFS Storage ZS3-4, ZFS Storage ZS4-4

Quantum

Quantum - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	5200 Series	5300 Series
DXi4000 Series	3.1	Ethernet	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes	Yes
DXi4700 Series [1]	2.9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes [2]	Yes [2]
DXi4700 Series [3]	3.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi6000 Series [4]	3.1	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi6700 Series	2.9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes [2]	Yes [2]
DXi6700 Series	3.1	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi6800 Series	2.9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes [2]	Yes [2]
DXi6800 Series [3]	3.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi6900 Series	2.9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes [2]	Yes [2]
DXi6900 Series [3]	3.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi8500 Series	2.9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes [2]	Yes [2]
DXi8500 Series	3.1	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Yes	Yes
DXi V Series [5]	2.9	Ethernet	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes [2]	Yes [2]
DXi V Series [5]	3.1	Ethernet	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes	Yes

1. Direct Copy to Tape support requires DXi Software 3.0 or later.

2. Supported with NetBackup Appliances running versions 2.5.x.x or 2.6.x.x.
3. Accelerator support requires DXi Software 3.1 or later.
4. The Direct Copy to shared tape drives feature (Direct_Copy_Shared) is supported on the DXi6540 and DXi6550 models.
5. This device is a virtual appliance. For compatible versions of VMware, see Quantum's and VMware's compatibility lists.

Quantum - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DXi4000 Series	2.9	Ethernet	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	No	Datacenter	No	6	11
DXi4000 Series	3.0	Ethernet	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	5, 6, 7	11, 12
DXi4000 Series	3.1	Ethernet	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7	11, 12
DXi4000 Series	10.0	Ethernet	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
DXi4700 Series [1]	2.9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	5, 6	11
DXi4700 Series [1] [2]	3.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	5, 6	No
DXi4700 Series [2]	3.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7	11, 12
DXi4700 Series	10.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

Quantum - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DXi6000 Series [3]	2.9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	No	Datacenter	No	6	11
DXi6000 Series [3]	3.0	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	5, 6, 7	11, 12
DXi6000 Series [3]	3.1	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7	11, 12
DXi6000 Series [3]	10.0	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
DXi6700 Series	2.9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	5, 6	11
DXi6700 Series	3.0	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	5, 6, 7	11, 12
DXi6700 Series	3.1	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7	11, 12
DXi6700 Series	10.0	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
DXi6800 Series	2.9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	5, 6	11
DXi6800 Series [2]	3.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	5, 6	No

Quantum - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DXi6800 Series [2]	3.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7	11, 12
DXi6800 Series	10.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
DXi6900 Series	2.9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	5, 6	11
DXi6900 Series [2]	3.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	5, 6	No
DXi6900 Series [2]	3.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7	11, 12
DXi6900 Series	10.0	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
DXi8500 Series	2.9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	5, 6	11
DXi8500 Series	3.0	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	5, 6, 7	11, 12
DXi8500 Series	3.1	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7	11, 12

Quantum - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DXi8500 Series	10.0	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
DXi V Series [4]	2.9	Ethernet	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	No	Datacenter	No	6	11
DXi V Series [4]	3.0	Ethernet	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	5, 6, 7	11, 12
DXi V Series [4]	3.1	Ethernet	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	No	6, 7	11, 12
DXi V Series [4]	10.0	Ethernet	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. Direct Copy to Tape support requires DXi Software 3.0 or later.
2. Accelerator support requires DXi Software 3.1 or later.
3. The Direct Copy to shared tape drives feature (Direct_Copy_Shared) is supported on the DXi6540 and DXi6550 models.
4. This device is a virtual appliance. For compatible versions of VMware, see Quantum's and VMware's compatibility lists.

Quantum - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
DXi4000 Series	2.9	Ethernet	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
DXi4700 Series [1]	2.9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
DXi6000 Series [2]	2.9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11

Quantum - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
DXi6700 Series	2.9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
DXi6800 Series	2.9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
DXi6900 Series	2.9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
DXi8500 Series	2.9	Ethernet	A.I.R., Direct_Copy_Shared, Granular_Recovery, GRT_VMware, IR_VMware, KMS, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11
DXi V Series [3]	2.9	Ethernet	A.I.R., Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	11.31	10, 11	10, 11

1. Direct Copy to Tape support requires DXi Software 3.0 or later.
2. The Direct Copy to shared tape drives feature (Direct_Copy_Shared) is supported on the DXi6540 and DXi6550 models.
3. This device is a virtual appliance. For compatible versions of VMware, see Quantum's and VMware's compatibility lists.

Quantum - Family Membership

Storage Server Family	Members
DXi4000 Series	DXi4510, DXi4520, DXi4601
DXi4700 Series	DXi4701
DXi6000 Series	DXi6510, DXi6520, DXi6530, DXi6540, DXi6550
DXi6700 Series	DXi6700, DXi6701, DXi6702
DXi6800 Series	DXi6802
DXi6900 Series	DXi6900, DXi6900-S
DXi8500 Series	DXi8500, DXi8500 2TB, DXi8500 3TB
DXi V Series	DXi V1000, DXi V2000, DXi V4000

Quest - formerly Dell

Quest - formerly Dell - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DR 13g Series	4.0	Ethernet	Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	Datacenter	6, 7	11

Quest - formerly Dell - Family Membership

Storage Server Family	Members
DR 13g Series	DR4300, DR4300e, DR6300

SEPATON

SEPATON - Support with NetBackup Appliance

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	5200 Series	5300 Series
S2100	7.2	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes [1]	Yes [1]
S2100	7.2	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Yes [1]	Yes [1]
S2100	7.3	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	Yes [1]	Yes [1]
S2100	7.3	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	Yes [1]	Yes [1]
S2100	8.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes
S2100	8.1	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	Yes	Yes

1. Supported with NetBackup Appliances running versions 2.5.x.x or 2.6.x.x.

SEPATON - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
S2100	7.1	Ethernet	A.I.R., Accelerator, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth	Enterprise Edition [1]	Datacenter	5, 6 [2] [3]	11
S2100	7.1	Fibre Channel	A.I.R., Accelerator, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth	Enterprise Edition [1]	No	5, 6 [2] [3]	11
S2100	7.2	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition [1]	Datacenter	5, 6 [2] [3]	11

SEPATON - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
S2100	7.2	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	Enterprise Edition [1]	Datacenter	5, 6 [2] [3]	11
S2100	7.3	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition [1]	Datacenter	5, 6 [2] [3]	11
S2100	7.3	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition [1]	Datacenter	5, 6 [2] [3]	11
S2100	8.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition [1]	Datacenter	5, 6, 7 [2] [3]	11, 12
S2100	8.1	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	Enterprise Edition [1]	Datacenter	5, 6, 7 [2] [3]	11, 12

1. Requires Windows 2008 R2 or later.
2. The Red Hat plug-in is also supported with CentOS 5.
3. The Red Hat plug-in is also supported with CentOS 6.

SEPATON - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	Solaris on SPARC
S2100	7.1	Ethernet	A.I.R., Accelerator, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	10, 11
S2100	7.1	Fibre Channel	A.I.R., Accelerator, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	10, 11
S2100	7.2	Ethernet	A.I.R., Accelerator, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	10, 11
S2100	7.2	Fibre Channel	A.I.R., Accelerator, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth	6.1, 7.1	10, 11
S2100	7.3	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	10, 11

SEPATON - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	AIX on POWER	Solaris on SPARC
S2100	7.3	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	10, 11
S2100	8.1	Ethernet	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	10, 11
S2100	8.1	Fibre Channel	A.I.R., Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, IR_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R., WI_Opt_Dup	6.1, 7.1	10, 11

SEPATON - Family Membership

Storage Server Family	Members
S2100	S2100-DS3, S2100-ES2, S2100-ES3

Veritas

Veritas - Support with Windows / Linux

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
NetBackup 5000	NetBackup 7.7 and later	Ethernet	Accelerator, Accel_VMware, Opt_Dup, Opt_Synth	Enterprise Edition	No	No	5	No
NetBackup 5020 [1]	NetBackup 7.7 and later	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Enterprise Edition	No	No	5	No
NetBackup 5020 (FC) [1] [2]	NetBackup 7.7 and later	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	No	No	No	5	No
NetBackup 5030	NetBackup 7.7 and later	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	Enterprise Edition	No	No	5	No
NetBackup 5030 (FC)	NetBackup 7.7 and later	Fibre Channel	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	No	No	No	5	No
Velocity	NetBackup 8.0 and later	Ethernet	Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	No	Datacenter	Datacenter	6, 7	11, 12

1. Auto Image Replication support requires NetBackup 5020 Appliance version 1.4 or later.

2. The Fibre Channel data interface is supported with NetBackup 5020 Appliance version 1.3.0.1 or later.

Veritas - Support with UNIX

Storage Server Family	Plug-in	Data Interface	Supported OpenStorage Functionality	Solaris on SPARC
NetBackup 5000	NetBackup 7.7 and later	Ethernet	Accelerator, Accel_VMware, Opt_Dup, Opt_Synth	10
NetBackup 5020 [1]	NetBackup 7.7 and later	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	10
NetBackup 5030	NetBackup 7.7 and later	Ethernet	A.I.R., Accelerator, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	10
Velocity	NetBackup 8.0 and later	Ethernet	Accelerator, Accel_NDMP, Accel_VMware, Granular_Recovery, GRT_VMware, Opt_Dup, Opt_Synth, Targeted_A.I.R.	11

1. Auto Image Replication support requires NetBackup 5020 Appliance version 1.4 or later.

Virtual Tape Libraries/Drives

Virtual tape device support information is listed below, organized by vendor. Under each vendor there are separate tables showing compatibility with NetBackup Appliances, with Linux/Windows operating systems, and with UNIX operating systems. The tables provide information on supported versions of software, inquiry string (vendor ID + product ID), and other important notes about the hardware and its compatibility.

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Virtual Tape Libraries/Drives - Considerations

Subject	Notes
Support assumptions	For details on supported operating systems, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" <http://www.veritas.com/docs/000115691> . 1. Virtual tape device software versions are no longer listed in this section. Veritas recommends using the most recent version of software available when you configure the VTL with NetBackup. When a minimum VTL software version is required, it will be listed in a footnote. If a VTL software version is causing a problem, Veritas will work with the hardware vendor to resolve the problem. Veritas and most hardware vendors listed are members of TSA.net. 2. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server. 3. Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported. 4. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported. 5. Where support is shown for "Red Hat Enterprise Linux 5 on x86-64" it also means that CentOS 5 and Oracle Linux 5 are supported. 6. Where support is shown for "Red Hat Enterprise Linux 6 on x86-64" it also means that CentOS 6 and Oracle Linux 6 are supported. 7. Where support is shown for "Red Hat Enterprise Linux 7 on x86-64" it also means that CentOS 7 and Oracle Linux 7 are supported.
Vendor support considerations	1. Check the device manufacturer's compatibility list to verify OS platform support for the version of software running on your VTL. 2. Check the device manufacturer's compatibility list to verify the minimum version of VTL software required for your VTL family member. 3. The list of attributes for each drive emulation is based on the most recent version of Virtual tape device software tested. Check with the device manufacturer to determine when support for a specific attribute was added.

Subject	Notes
Configuration considerations	1. The virtual library must be configured with the unique VTL inquiry string as listed. Using the inquiry string to emulate a real library model is not supported even if the real device is supported with NetBackup. AIX media servers being used for robotic control may use one of the alternate emulated strings listed below. 2. Only the virtual tape drive emulations listed with each virtual library are supported. Other virtual tape drive emulations are not supported even if the real device being emulated is supported with NetBackup. Conversely, a virtual tape drive emulation listed as supported in this section does not mean the physical model is also supported. 3. Veritas recommends the use of SCSI Persistent Reserve (SPR) whenever all the hardware in your device path supports it. Refer to the NetBackup Administrator's Guide for more information on SPR and the types of configurations where SPR may be more effective than the default SPC-2 SCSI reserve and release method. 4. NetBackup NDMP Direct Copy with VTL enables NDMP tape duplication to physical tape libraries. For more information on this feature, see "NDMP Direct Copy with VTL" in the "NetBackup for NDMP Administrator's Guide" <http://www.veritas.com/docs/000003214> .
OS library and tape driver considerations	1. Refer to the Tape Drives section of this document for information on supported tape drivers. 2. On IBM AIX, use of the IBM Atape driver is required with IBM tape libraries. The Atape driver's multi-path feature must be disabled.
Operational considerations	1. Filling up the available disk space on a virtual device may cause unpredictable behavior of the device. Working with the device vendor may be required to recover from errors that result from a full disk. 2. NetBackup NDMP Direct Copy with VTL Copying virtual media to physical media or a 2nd virtual media is not supported by Veritas; any support for this must come from the VTL vendor providing the capability. If the VTL copies virtual media to physical media (or a 2nd VTL), NetBackup is not aware of the physical media or 2nd virtual media and may not be able to recover that data directly from it. 3. When NetBackup expires a virtual volume, the virtual device is not aware that the data is no longer needed. Because of this, the virtual device may appear to be much closer to capacity than it really is. When NetBackup subsequently begins writing to that virtual volume at the beginning of the volume, the virtual library will then be aware that the rest of the data is no longer needed and can free up the disk space.
Operating system support dropped	1. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later. 2. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.

Virtual Tape Libraries/Drives - Tape Drive Emulation Attributes

The following table lists attributes supported with Virtual Tape Libraries and indicates the NetBackup 8.x version at which that attribute was first supported.

Attribute	Abbreviation	NetBackup 8.x Start of Support
NDMP Direct Copy with VTL, physical tape drives used with this feature must be dedicated to the VTL.	DirCpy_Ded	8.0 GA
NDMP Direct Copy with VTL, physical tape drives used with this feature can be shared using NetBackup Shared Storage Option (SSO).	DirCpy_Shr	8.0 GA
SCSI Reservation	SResv	8.0 GA
SCSI Persistent Reservation	SPR	8.0 GA
Write Once, Read Many	WORM	8.0 GA
NetBackup Encryption Key Management Service	KMS	8.0 GA
Append-only mode	Append	8.0 GA

Virtual Tape Libraries/Drives - NetBackup Robot Types

Most Virtual Tape Libraries use the NetBackup robot type TLD. The following table lists operating system platform support for TLD robots. For supported OS versions, refer to the "[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List](http://www.veritas.com/docs/000115691)" <<http://www.veritas.com/docs/000115691>> .

A few Virtual Tape Libraries use NetBackup robot type ACS. For information on ACS robotics support, see [ACS - Oracle Automated Cartridge System](#) in the Tape Libraries section.

For more information about configuring robot types, see the "[NetBackup Device Configuration Guide](http://www.veritas.com/docs/000003214)" <<http://www.veritas.com/docs/000003214>> .

TLD - Tape Library DLT

Operating System	NetBackup 8.x Start of Support
AIX on POWER	8.0 GA - Note: Use of the IBM Atape driver is required with IBM libraries. The Atape driver's multi-path feature must be disabled.
HP-UX on IA64	8.0 GA
NDMP	8.0 GA
Red Hat Enterprise Linux on x86-64	8.0 GA
Red Hat Enterprise Linux on zArch	8.0 GA
Solaris on SPARC	8.0 GA
Solaris on x64	8.0 GA
SUSE Linux Enterprise Server on x86-64	8.0 GA
SUSE Linux Enterprise Server on zArch	8.0 GA
Windows Server 2008 x64	8.0 GA
Windows Server 2012 x64	8.0 GA
Windows Server 2016 x64	8.0 GA

Virtual Tape Libraries/Drives - Vendor Compatibility

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<u>Amazon</u>	<u>Data Domain</u>	<u>Dell</u>
<u>EMC</u>	<u>FalconStor</u>	<u>Fujitsu</u>
<u>H3C</u>	<u>Hewlett Packard Enterprise</u>	<u>Hitachi</u>
<u>Huawei</u>	<u>IBM</u>	<u>Infinidat</u>
<u>NEC</u>	<u>Oracle</u>	<u>Quantum</u>
<u>Quest - formerly Dell</u>	<u>SEPATON</u>	<u>Spectra Logic</u>
<u>Tandberg</u>		

Amazon

Amazon - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64
AWS Storage Gateway VTL - iSCSI [1] [2] [3]	IBM LTO - all generations	Latest from Manufacturer	AWS^Gateway-VTL		Enterprise Edition	Datacenter	5, 6, 7

1. Please refer to [AWS documentation <http://docs.aws.amazon.com/storagegateway/latest/userguide/Requirements.html>](http://docs.aws.amazon.com/storagegateway/latest/userguide/Requirements.html) for hypervisor and host requirements.
2. The AWS Storage Gateway VTL is also supported when deployed as an Amazon EC2 instance.
3. This solution uses S3 and Glacier storage. Please refer to the [Best Practices guide <http://www.veritas.com/docs/000024278>](http://www.veritas.com/docs/000024278) for the Gateway-VTL before deployment.

Data Domain

Data Domain - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
Appliance Series - Fibre Channel [1] [2]	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	EMC^^^^DDVTL, D_DOMAINRESTORER_L180, IBM^^^^03584L32, ADIC^^^^Scalar^i2000, QUANTUM^Scalar^i6000		Yes	Yes
Appliance Series - Fibre Channel [1] [2]	IBM LTO - all generations	Latest from Manufacturer	EMC^^^^DDVTL, D_DOMAINRESTORER_L180, IBM^^^^03584L32, ADIC^^^^Scalar^i2000, QUANTUM^Scalar^i6000		Yes	Yes

1. The ADIC inquiry string is supported with VTL software version 5.3 and later.
2. The Quantum inquiry string is supported with VTL software version 5.5 and later.

Data Domain - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Appliance Series - Fibre Channel [1] [2]	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	EMC^^^^DDVTL, D_DOMAINRESTORER_L180, IBM^^^^03584L32, ADIC^^^^Scalar^i2000, QUANTUM^Scalar^i6000		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
Appliance Series - Fibre Channel [1] [2]	IBM LTO - all generations	Latest from Manufacturer	EMC^^^^DDVTL, D_DOMAINRESTORER_L180, IBM^^^^03584L32, ADIC^^^^Scalar^i2000, QUANTUM^Scalar^i6000		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12

1. The ADIC inquiry string is supported with VTL software version 5.3 and later.

2. The Quantum inquiry string is supported with VTL software version 5.5 and later.

Data Domain - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
Appliance Series - Fibre Channel [1] [2]	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	EMC^^^^DDVTL, D_DOMAINRESTORER_L180, IBM^^^^03584L32, ADIC^^^^Scalar^i2000, QUANTUM^Scalar^i6000		No	11.31	10, 11	10
Appliance Series - Fibre Channel [1] [2]	IBM LTO - all generations	Latest from Manufacturer	EMC^^^^DDVTL, D_DOMAINRESTORER_L180, IBM^^^^03584L32, ADIC^^^^Scalar^i2000, QUANTUM^Scalar^i6000		6.1, 7.1, 7.2	11.31	10, 11	10

1. The ADIC inquiry string is supported with VTL software version 5.3 and later.

2. The Quantum inquiry string is supported with VTL software version 5.5 and later.

Data Domain - Family Membership

VTL Family - Interface	Members
Appliance Series - Fibre Channel	DD140, DD160, DD510, DD530, DD560, DD565, DD580, DD610, DD620, DD630, DD640, DD660, DD670, DD690, DD860, DD880, DD890, DD990, DD2200, DD2500, DD4200, DD4500, DD6300, DD6800, DD7200, DD9300, DD9500, DD9800

Dell

Dell - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64
DR Series - iSCSI	IBM LTO - all generations	Latest from Manufacturer	DELL^^^DR_L700		Enterprise Edition	Datacenter	5, 6

EMC

EMC - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
Disk Library Series - Fibre Channel [1]	IBM LTO - all generations	Latest from Manufacturer	EMC^Disk^Library		Yes	Yes
Disk Library Series - Fibre Channel [1]	Quantum SDLT 320	Latest from Manufacturer	EMC^Disk^Library		Yes	Yes
DL3D series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	EMC^DL1500		Yes	Yes
DL5000 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	EMC^Disk^Library	DirCpy_Shr	Yes	Yes
DL5000 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	EMC^Disk^Library	DirCpy_Shr	Yes	Yes

1. Consolidated Media Management is supported through an integrated NetBackup Media Server (6.5, 6.0, or 5.1) that runs natively on this device. Upgrading the integrated NetBackup Media Server from NetBackup 6.0 to 6.5 is allowed. The integrated NetBackup Media Server cannot be upgraded to NetBackup 7.x. The integrated NetBackup Media Server is not to be used as the Global Device Database Host, Volume Database Host, or Master Server in the NetBackup environment. The purpose of the integrated Media Server is to duplicate and vault disk-based backup images stored on the device to physical tape or another virtual tape on a second EMC Disk Library device. It is not to be used to backup NetBackup Clients across the LAN. The integrated NetBackup Media Server controls any attached physical tape libraries and drives for the second EMC Disk Library device. See the appropriate Tape Library, Tape Drive, or Virtual Tape Drive/Library sections of this document for a list of supported devices that can be attached to the integrated Media Server. For further details contact EMC for a Best Practice White Paper on the solution.

EMC - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Disk Library Series - Fibre Channel [1]	IBM LTO - all generations	Latest from Manufacturer	EMC^Disk^Library		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
Disk Library Series - Fibre Channel [1]	Quantum SDLT 320	Latest from Manufacturer	EMC^Disk^Library		Enterprise Edition	No	No	5	11

EMC - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DL3D series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	EMC^~~~~DL1500		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
DL5000 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	EMC^~~~~Disk^Library	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
DL5000 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	EMC^~~~~Disk^Library	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
NDMP2D - NDMP	IBM LTO - all generations	Latest from Manufacturer	EMC^~~~~svtrobot		No	No	No	5	11

1. Consolidated Media Management is supported through an integrated NetBackup Media Server (6.5, 6.0, or 5.1) that runs natively on this device. Upgrading the integrated NetBackup Media Server from NetBackup 6.0 to 6.5 is allowed. The integrated NetBackup Media Server cannot be upgraded to NetBackup 7.x. The integrated NetBackup Media Server is not to be used as the Global Device Database Host, Volume Database Host, or Master Server in the NetBackup environment. The purpose of the integrated Media Server is to duplicate and vault disk-based backup images stored on the device to physical tape or another virtual tape on a second EMC Disk Library device. It is not to be used to backup NetBackup Clients across the LAN. The integrated NetBackup Media Server controls any attached physical tape libraries and drives for the second EMC Disk Library device. See the appropriate Tape Library, Tape Drive, or Virtual Tape Drive/Library sections of this document for a list of supported devices that can be attached to the integrated Media Server. For further details contact EMC for a Best Practice White Paper on the solution.

EMC - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
Disk Library Series - Fibre Channel [1]	IBM LTO - all generations	Latest from Manufacturer	EMC^~~~~Disk^Library		6.1	11.31	10	No
Disk Library Series - Fibre Channel [1]	Quantum SDLT 320	Latest from Manufacturer	EMC^~~~~Disk^Library		6.1	11.31	10	No
DL3D series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	EMC^~~~~DL1500		6.1	11.31	10	10

EMC - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
DL5000 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	EMC^^^^Disk^Library	DirCpy_Shr	No	No	10, 11	10, 11
DL5000 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	EMC^^^^Disk^Library	DirCpy_Shr	7.1	No	10	10
NDMP2D - NDMP	IBM LTO - all generations	Latest from Manufacturer	EMC^^^^svtIrobot		6.1	No	10	No

1. Consolidated Media Management is supported through an integrated NetBackup Media Server (6.5, 6.0, or 5.1) that runs natively on this device. Upgrading the integrated NetBackup Media Server from NetBackup 6.0 to 6.5 is allowed. The integrated NetBackup Media Server cannot be upgraded to NetBackup 7.x. The integrated NetBackup Media Server is not to be used as the Global Device Database Host, Volume Database Host, or Master Server in the NetBackup environment. The purpose of the integrated Media Server is to duplicate and vault disk-based backup images stored on the device to physical tape or another virtual tape on a second EMC Disk Library device. It is not to be used to backup NetBackup Clients across the LAN. The integrated NetBackup Media Server controls any attached physical tape libraries and drives for the second EMC Disk Library device. See the appropriate Tape Library, Tape Drive, or Virtual Tape Drive/Library sections of this document for a list of supported devices that can be attached to the integrated Media Server. For further details contact EMC for a Best Practice White Paper on the solution.

EMC - Family Membership

VTL Family - Interface	Members
Disk Library Series - Fibre Channel	CDL210, CDL300 Series, CDL310, CDL700, CDL700 Series, CDL710, CDL720, CDL740, DL4000 Series, DL6000 Series
DL3D series - Fibre Channel	DL1500, DL3000

FalconStor

FalconStor - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
VirtualTape Library - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FALCON^^VTL		Yes	Yes
VirtualTape Library - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^^VTL		Yes	Yes
VirtualTape Library - Fibre Channel	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	FALCON^^VTL		Yes	Yes
VirtualTape Library - Fibre Channel	Oracle StorageTek T10000 - all generations	Latest from Manufacturer	FALCON^^VTL		Yes	Yes

FalconStor - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
VirtualTape Library (RedHat VTL Server Platform) - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FALCON^^VTL, IBM^^^^03584L22	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
VirtualTape Library (RedHat VTL Server Platform) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^^VTL, IBM^^^^03584L22	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12

FalconStor - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
VirtualTape Library (RedHat VTL Server Platform) - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FALCON^^VTL, IBM^^^^03584L22	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10
VirtualTape Library (RedHat VTL Server Platform) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^^VTL, IBM^^^^03584L22	DirCpy_Shr	6.1, 7.1	11.31	10	10, 11

Fujitsu

Fujitsu - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
ETERNUS CS (ACS) - Fibre Channel [1]	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL		Yes	Yes
ETERNUS CS (ACS) - Fibre Channel [1]	IBM TotalStorage 3590 - all generations	Latest from Manufacturer	FSC^CS-TL		Yes	Yes
ETERNUS CS (ACS) - Fibre Channel [1]	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	FSC^CS-TL		Yes	Yes
ETERNUS CS - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL		Yes	Yes
ETERNUS CS - Fibre Channel	IBM TotalStorage 3590 - all generations	Latest from Manufacturer	FSC^CS-TL		Yes	Yes
ETERNUS CS - Fibre Channel	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	FSC^CS-TL		Yes	Yes
ETERNUS CS800 S2 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Ded	Yes	Yes
ETERNUS CS800 S2 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Ded	Yes	Yes
ETERNUS CS800 S3 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Yes	Yes
ETERNUS CS800 S3 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Yes	Yes
ETERNUS CS800 S4 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Yes	Yes
ETERNUS CS800 S4 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Yes	Yes
ETERNUS CS800 S5 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Yes	Yes
ETERNUS CS800 S5 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	Yes	Yes

1. For detailed ACSLS support information, see the NetBackup Robot Types section of this HCL.

Fujitsu - Support with Windows / Linux

VTI Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
ETERNUS CS (ACS) - Fibre Channel [1]	IBM LTO - all generations	Latest from Manufacturer	FSC~~~~CS-TL		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
ETERNUS CS (ACS) - Fibre Channel [1]	IBM TotalStorage 3590 - all generations	Latest from Manufacturer	FSC~~~~CS-TL		Enterprise Edition	No	No	5, 6, 7	11, 12
ETERNUS CS (ACS) - Fibre Channel [1]	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	FSC~~~~CS-TL		Enterprise Edition	No	No	5, 6, 7	11, 12
ETERNUS CS - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC~~~~CS-TL		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
ETERNUS CS - Fibre Channel	IBM TotalStorage 3590 - all generations	Latest from Manufacturer	FSC~~~~CS-TL		Enterprise Edition	No	No	5, 6, 7	11, 12
ETERNUS CS - Fibre Channel	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	FSC~~~~CS-TL		Enterprise Edition	No	No	5, 6, 7	11, 12
ETERNUS CS800 S2 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC~~~~CS-TL	DirCpy_Ded	Enterprise Edition	Datacenter	No	5	No
ETERNUS CS800 S2 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC~~~~CS-TL	DirCpy_Ded	Enterprise Edition	Datacenter	No	5	No
ETERNUS CS800 S3 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC~~~~CS-TL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
ETERNUS CS800 S3 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC~~~~CS-TL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12

Fujitsu - Support with Windows / Linux

VTI Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
ETERNUS CS800 S4 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC~~~~CS-TL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
ETERNUS CS800 S4 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC~~~~CS-TL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
ETERNUS CS800 S5 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC~~~~CS-TL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
ETERNUS CS800 S5 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC~~~~CS-TL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
ETERNUS CS800 S6 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC~~~~CS-TL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
ETERNUS CS800 S6 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC~~~~CS-TL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12

1. For detailed ACSLS support information, see the NetBackup Robot Types section of this HCL.

Fujitsu - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
ETERNUS CS (ACS) - Fibre Channel [1]	IBM LTO - all generations	Latest from Manufacturer	FSC^*****CS-TL		6.1, 7.1	11.31	10, 11	10
ETERNUS CS (ACS) - Fibre Channel [1]	IBM TotalStorage 3590 - all generations	Latest from Manufacturer	FSC^*****CS-TL		6.1, 7.1	11.31	10	10
ETERNUS CS (ACS) - Fibre Channel [1]	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	FSC^*****CS-TL		6.1, 7.1	11.31	10	10
ETERNUS CS - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^*****CS-TL		6.1, 7.1	11.31	10, 11	10
ETERNUS CS - Fibre Channel	IBM TotalStorage 3590 - all generations	Latest from Manufacturer	FSC^*****CS-TL		6.1, 7.1	11.31	10	10, 11
ETERNUS CS - Fibre Channel	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	FSC^*****CS-TL		6.1, 7.1	11.31	10	10, 11
ETERNUS CS800 S2 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^*****CS-TL	DirCpy_Ded	6.1	11.31	10	10
ETERNUS CS800 S2 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^*****CS-TL	DirCpy_Ded	6.1	11.31	10	10
ETERNUS CS800 S3 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^*****CS-TL	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11
ETERNUS CS800 S3 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^*****CS-TL	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11
ETERNUS CS800 S4 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^*****CS-TL	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11
ETERNUS CS800 S4 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^*****CS-TL	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11
ETERNUS CS800 S5 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^*****CS-TL	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11
ETERNUS CS800 S5 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^*****CS-TL	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11
ETERNUS CS800 S6 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FSC^*****CS-TL	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11

Fujitsu - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
ETERNUS CS800 S6 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FSC^CS-TL	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11

1. For detailed ACSLS support information, see the NetBackup Robot Types section of this HCL.

Fujitsu - Family Membership

VTL Family - Interface	Members
ETERNUS CS (ACS) - Fibre Channel	ETERNUS CS50 (ACS), ETERNUS CS500 (ACS), ETERNUS CS1000 (ACS), ETERNUS CS1500 (ACS), ETERNUS CS2000 (ACS), ETERNUS CS3000 (ACS), ETERNUS CS4000 (ACS), ETERNUS CS5000 (ACS), ETERNUS CS8000 (ACS)
ETERNUS CS - Fibre Channel	ETERNUS CS50, ETERNUS CS500, ETERNUS CS1000, ETERNUS CS1500, ETERNUS CS2000, ETERNUS CS3000, ETERNUS CS4000, ETERNUS CS5000, ETERNUS CS8000

H3C

H3C - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
CP3352 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		Yes	Yes
CP3354 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		Yes	Yes
CP5510 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		Yes	Yes
CP5550 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		Yes	Yes
CP6660 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		Yes	Yes

H3C - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
CP3352 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
CP3354 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
CP5510 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		Enterprise Edition	Datacenter	Datacenter	6, 7	11, 12
CP5550 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		Enterprise Edition	Datacenter	No	6, 7	11, 12

H3C - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
CP6660 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		Enterprise Edition	Datacenter	No	6, 7	11, 12

H3C - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
CP3352 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		6.1, 7.1	11.31	10, 11	10, 11
CP3352 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		6.1, 7.1	No	No	No
CP3354 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		6.1, 7.1	11.31	10, 11	10, 11
CP3354 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		6.1, 7.1	No	No	No
CP5510 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		6.1, 7.1	11.31	10, 11	10, 11
CP5510 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		6.1, 7.1	No	No	No
CP5550 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		6.1, 7.1	11.31	10, 11	10, 11
CP6660 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP^^^^^D2DBS, IBM^^^^^03584L32		6.1, 7.1	11.31	10, 11	10, 11

Hewlett Packard Enterprise

Hewlett Packard Enterprise - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
D2D4000 Series Backup System - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Yes	Yes
D2D4100 G2 Series Backup System - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Yes	Yes
D2D4100 Series Backup System - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Yes	Yes
D2D4300 G2 Series Backup System - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Yes	Yes
StoreOnce 3500 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS, IBM~~~~~03584L32		Yes	Yes
StoreOnce 4000 - Fibre Channel [1]	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS, IBM~~~~~03584L32		Yes	Yes
StoreOnce 5000 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS, IBM~~~~~03584L32		Yes	Yes
StoreOnce 6000 - Fibre Channel [1]	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS, IBM~~~~~03584L32		Yes	Yes
VLS 9200 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~VLS		Yes	Yes
VLS 12000 EVA Gateway - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~VLS		Yes	Yes
VLS 12000 EVA Gateway - Fibre Channel	Quantum SDLT 320	Latest from Manufacturer	HP~~~~~VLS		Yes	Yes
VLS 12200 EVA Gateway - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~VLS		Yes	Yes

1. The IBM inquiry string is supported with StoreOnce software version 3.11 and later.

Hewlett Packard Enterprise - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
D2D4000 Series Backup System - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Enterprise Edition	Datacenter	No	5	11
D2D4000 Series Backup System - iSCSI	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Enterprise Edition	Datacenter	No	5	No
D2D4100 G2 Series Backup System - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
D2D4100 Series Backup System - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
D2D4300 G2 Series Backup System - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
D2D4312 G2 Backup System - iSCSI	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		Enterprise Edition	No	No	No	No
StoreOnce 3500 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS, IBM~~~~~03584L32		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
StoreOnce 4000 - Fibre Channel [1]	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS, IBM~~~~~03584L32		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
StoreOnce 5000 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS, IBM~~~~~03584L32		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12

Hewlett Packard Enterprise - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
StoreOnce 6000 - Fibre Channel [1]	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS, IBM~~~~~03584L32		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
VLS 9200 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~VLS		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
VLS 12000 EVA Gateway - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~VLS		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
VLS 12000 EVA Gateway - Fibre Channel	Quantum SDLT 320	Latest from Manufacturer	HP~~~~~VLS		Enterprise Edition	No	No	5	11
VLS 12200 EVA Gateway - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~VLS		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12

1. The IBM inquiry string is supported with StoreOnce software version 3.11 and later.

Hewlett Packard Enterprise - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
D2D4100 G2 Series Backup System - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		No	11.31	10, 11	No
D2D4100 Series Backup System - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		6.1	11.31	10	10

Hewlett Packard Enterprise - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
D2D4300 G2 Series Backup System - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS		No	11.31	10	No
StoreOnce 3500 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS, IBM~~~~~03584L32		6.1, 7.1	11.31	10, 11	10, 11
StoreOnce 3500 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS, IBM~~~~~03584L32		6.1, 7.1	No	No	No
StoreOnce 4000 - Fibre Channel [1]	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS, IBM~~~~~03584L32		6.1, 7.1	11.31	10	10
StoreOnce 4000 - Fibre Channel [1]	IBM LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS, IBM~~~~~03584L32		6.1, 7.1	No	No	No
StoreOnce 5000 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS, IBM~~~~~03584L32		6.1, 7.1	11.31	10, 11	10, 11
StoreOnce 5000 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS, IBM~~~~~03584L32		6.1, 7.1	No	No	No
StoreOnce 6000 - Fibre Channel [1]	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS, IBM~~~~~03584L32		6.1, 7.1	11.31	10, 11	10
StoreOnce 6000 - Fibre Channel [1]	IBM LTO - all generations	Latest from Manufacturer	HP~~~~~D2DBS, IBM~~~~~03584L32		6.1, 7.1	No	No	No
VLS 9200 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~VLS		6.1, 7.1	11.31	10	10
VLS 12000 EVA Gateway - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~VLS		6.1, 7.1	11.31	10	10
VLS 12000 EVA Gateway - Fibre Channel	Quantum SDLT 320	Latest from Manufacturer	HP~~~~~VLS		6.1	11.31	10	No

Hewlett Packard Enterprise - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
VLS 12200 EVA Gateway - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	HP~~~~~VLS		6.1, 7.1	11.31	10	10

1. The IBM inquiry string is supported with StoreOnce software version 3.11 and later.

Hewlett Packard Enterprise - Family Membership

VTL Family - Interface	Members
D2D4000 Series Backup System - Fibre Channel	D2D4004fc Backup System, D2D4009fc Backup System
D2D4000 Series Backup System - iSCSI	D2D4004i Backup System, D2D4009i Backup System
D2D4100 G2 Series Backup System - Fibre Channel	D2D4106fc G2 Backup System, D2D4112 G2 Backup System
D2D4100 Series Backup System - Fibre Channel	D2D4112fc Backup System
D2D4300 G2 Series Backup System - Fibre Channel	D2D4312 G2 Backup System, D2D4324 G2 Backup System
StoreOnce 3500 - Fibre Channel	StoreOnce 3520, StoreOnce 3540
StoreOnce 4000 - Fibre Channel	StoreOnce 4210fc, StoreOnce 4220, StoreOnce 4420, StoreOnce 4430, StoreOnce 4500, StoreOnce 4700, StoreOnce 4900
StoreOnce 5000 - Fibre Channel	StoreOnce 5100, StoreOnce 5500
StoreOnce 6000 - Fibre Channel	StoreOnce 6500, StoreOnce 6600, StoreOnce B6200

Hitachi

Hitachi - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
Hitachi Virtual Tape Library Solutions - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~V3584L32		Yes	Yes

Hitachi - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Hitachi Virtual Tape Library Solutions - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~V3584L32		Enterprise Edition	5, 6, 7	11, 12

Hitachi - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
Hitachi Virtual Tape Library Solutions - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~V3584L32		6.1	11.31	10	10

Hitachi - Family Membership

VTL Family - Interface	Members
Hitachi Virtual Tape Library Solutions - Fibre Channel	ProtecTIER

Huawei

Huawei - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
VTL - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^^VTL		Yes	Yes

Huawei - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
VTL - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^^VTL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12

Huawei - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
VTL - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^^VTL	DirCpy_Shr	6.1	11.31	10	10

Huawei - Family Membership

VTL Family - Interface	Members
VTL - Fibre Channel	VTL3500, VTL6000

IBM

IBM - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
System Storage TS7600 series with ProtecTIER - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~V3584L32		Yes	Yes
System Storage TS7650G ProtecTIER (DTC) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	DTC~~~~~VTF		Yes	Yes
System Storage TS7650G ProtecTIER (TS3500) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~3584L32		Yes	Yes
Virtualization Engine TS7510 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~TS7510		Yes	Yes
Virtualization Engine TS7510 - Fibre Channel	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM~~~~~TS7510		Yes	Yes
Virtualization Engine TS7520 - Fibre Channel [1] [2]	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~TS7520	DirCpy_Ded	Yes	Yes
Virtualization Engine TS7520 - Fibre Channel [1] [2]	IBM System Storage TS1120 (3592 Model E05)	Latest from Manufacturer	IBM~~~~~TS7520	DirCpy_Ded	Yes	Yes
Virtualization Engine TS7520 - Fibre Channel [1] [2]	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM~~~~~TS7520	DirCpy_Ded	Yes	Yes
Virtualization Engine TS7530 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~TS7530	DirCpy_Ded	Yes	Yes
Virtualization Engine TS7530 - Fibre Channel	IBM System Storage TS1120 (3592 Model E05)	Latest from Manufacturer	IBM~~~~~TS7530	DirCpy_Ded	Yes	Yes
Virtualization Engine TS7530 - Fibre Channel	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM~~~~~TS7530	DirCpy_Ded	Yes	Yes

1. NDMP Direct Copy with VTL support requires patch update ve138205g for 2.0 systems and update ve13821201 for 2.2 systems.

2. The failover feature of the TS7520 has been tested and found to be compatible with NetBackup. Support for the TS7520 failover feature is provided by IBM.

IBM - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
System Storage TS7600 series with ProtecTIER - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~V3584L32		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
System Storage TS7650G ProtecTIER (DTC) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	DTC~~~~VTF		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
System Storage TS7650G ProtecTIER (DTC) - Fibre Channel	Quantum DLT 7000	Latest from Manufacturer	DTC~~~~VTF		Enterprise Edition	No	No	5	11
System Storage TS7650G ProtecTIER (TS3500) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~3584L32		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
Virtualization Engine TS7510 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~TS7510		No	No	No	5	11
Virtualization Engine TS7510 - Fibre Channel	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM~~~~TS7510		No	No	No	5	11
Virtualization Engine TS7520 - Fibre Channel [1] [2]	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~TS7520	DirCpy_Ded	No	No	No	5	11
Virtualization Engine TS7520 - Fibre Channel [1] [2]	IBM System Storage TS1120 (3592 Model E05)	Latest from Manufacturer	IBM~~~~TS7520	DirCpy_Ded	Enterprise Edition	No	No	5	11
Virtualization Engine TS7520 - Fibre Channel [1] [2]	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM~~~~TS7520	DirCpy_Ded	Enterprise Edition	No	No	5	11
Virtualization Engine TS7530 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~TS7530	DirCpy_Ded	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12

IBM - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
Virtualization Engine TS7530 - Fibre Channel	IBM System Storage TS1120 (3592 Model E05)	Latest from Manufacturer	IBM*****TS7530	DirCpy_Ded	Enterprise Edition	No	No	5, 6, 7	11, 12
Virtualization Engine TS7530 - Fibre Channel	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM*****TS7530	DirCpy_Ded	Enterprise Edition	No	No	5, 6, 7	11, 12

1. NDMP Direct Copy with VTL support requires patch update ve138205g for 2.0 systems and update ve13821201 for 2.2 systems.
2. The failover feature of the TS7520 has been tested and found to be compatible with NetBackup. Support for the TS7520 failover feature is provided by IBM.

IBM - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
System Storage TS7600 series with ProtecTIER - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM*****V3584L32		6.1, 7.1	11.31	10, 11	10, 11
System Storage TS7650G ProtecTIER (DTC) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	DTC*****VTF		6.1, 7.1	11.31	10, 11	10
System Storage TS7650G ProtecTIER (DTC) - Fibre Channel	Quantum DLT 7000	Latest from Manufacturer	DTC*****VTF		6.1	11.31	10	10
System Storage TS7650G ProtecTIER (TS3500) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM*****3584L32		6.1, 7.1	11.31	10, 11	10, 11
Virtualization Engine TS7510 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM*****TS7510		6.1	No	10	No
Virtualization Engine TS7510 - Fibre Channel	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM*****TS7510		6.1	No	10	No
Virtualization Engine TS7520 - Fibre Channel [1] [2]	IBM LTO - all generations	Latest from Manufacturer	IBM*****TS7520	DirCpy_Ded	6.1	11.31	10	No

IBM - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
Virtualization Engine TS7520 - Fibre Channel [1] [2]	IBM System Storage TS1120 (3592 Model E05)	Latest from Manufacturer	IBM^~~~~TS7520	DirCpy_Ded	6.1	11.31	10	No
Virtualization Engine TS7520 - Fibre Channel [1] [2]	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM^~~~~TS7520	DirCpy_Ded	6.1	11.31	10	No
Virtualization Engine TS7530 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM^~~~~TS7530	DirCpy_Ded	6.1	11.31	10	No
Virtualization Engine TS7530 - Fibre Channel	IBM System Storage TS1120 (3592 Model E05)	Latest from Manufacturer	IBM^~~~~TS7530	DirCpy_Ded	6.1	11.31	10	No
Virtualization Engine TS7530 - Fibre Channel	IBM TotalStorage 3592 Model J1A	Latest from Manufacturer	IBM^~~~~TS7530	DirCpy_Ded	6.1	11.31	10	No

1. NDMP Direct Copy with VTL support requires patch update ve138205g for 2.0 systems and update ve13821201 for 2.2 systems.
2. The failover feature of the TS7520 has been tested and found to be compatible with NetBackup. Support for the TS7520 failover feature is provided by IBM.

IBM - Family Membership

VTL Family - Interface	Members
System Storage TS7600 series with ProtecTIER - Fibre Channel	System Storage TS7610SM1 ProtecTIER (V-TS3500), System Storage TS7620SM2 ProtecTIER (V-TS3500), System Storage TS7650AP1 ProtecTIER (V-TS3500), System Storage TS7650G ProtecTIER (V-TS3500)

Infinidat

Infinidat - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
INFINIDAT B series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
INFINIDAT B series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12

Infinidat - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
INFINIDAT B series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11
INFINIDAT B series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11

Infinidat - Family Membership

VTL Family - Interface	Members
INFINIDAT B series - Fibre Channel	B4260

NEC

NEC - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
T3000VT Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~V3584L32		Yes	Yes

NEC - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
T3000VT Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~V3584L32		Enterprise Edition	5, 6, 7	11, 12

NEC - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
T3000VT Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	IBM~~~~~V3584L32		6.1	11.31	10	10

NEC - Family Membership

VTL Family - Interface	Members
T3000VT Series - Fibre Channel	T3200VT (V-TS3500)

Oracle

Oracle - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64
StorageTek VSM 7 - Ethernet [1]	Oracle VDrive	Latest from Manufacturer			Datacenter Edition, Enterprise Edition	Datacenter	7

1. For detailed ACSLS support information, see the NetBackup Robot Types section of this HCL.

Oracle - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Solaris on SPARC
StorageTek VSM 7 - Ethernet [1]	Oracle VDrive	Latest from Manufacturer			10, 11

1. For detailed ACSLS support information, see the NetBackup Robot Types section of this HCL.

Quantum

Quantum - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
DXi4700 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi4700 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi6700 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi6700 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi6800 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi6800 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi6900 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi6900 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi7500 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi7500 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi8500 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes
DXi8500 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Yes	Yes

Quantum - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DXi4700 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
DXi4700 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12

Quantum - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DXi6700 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
DXi6700 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
DXi6800 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
DXi6800 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
DXi6900 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
DXi6900 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
DXi7500 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
DXi7500 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
DXi8500 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
DXi8500 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12

Quantum - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
DXi4700 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11
DXi4700 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11
DXi6700 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11
DXi6700 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11
DXi6800 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11
DXi6800 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11
DXi6900 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11
DXi6900 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11
DXi7500 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	6.1	11.31	10	10
DXi7500 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	6.1	11.31	10	10
DXi8500 Series - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11
DXi8500 Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	QUANTUM^DXi	DirCpy_Shr	6.1, 7.1	11.31	10, 11	10, 11

Quantum - Family Membership

VTL Family - Interface	Members
DXi4700 Series - Fibre Channel	DXi4701
DXi6700 Series - Fibre Channel	DXi6700, DXi6701, DXi6702
DXi6800 Series - Fibre Channel	DXi6802
DXi6900 Series - Fibre Channel	DXi6900, DXi6900-S
DXi7500 Series - Fibre Channel	DXi7500, DXi7500 Enterprise, DXi7500 Express, DXi7500-N
DXi8500 Series - Fibre Channel	DXi8500, DXi8500 2TB, DXi8500 3TB

Quest - formerly Dell

Quest - formerly Dell - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64
DR 13g Series - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	DELL^^^DR_L700		Enterprise Edition	Datacenter	Datacenter	6, 7

Quest - formerly Dell - Family Membership

VTL Family - Interface	Members
DR 13g Series - Fibre Channel	DR4300, DR4300e, DR6300

SEPATON

SEPATON - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
S2100 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	SEPATON^S2100		Yes	Yes
S2100 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	SEPATON^S2100		Yes	Yes
S2100 - Fibre Channel	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	SEPATON^S2100		Yes	Yes
S2100 - Fibre Channel	Oracle StorageTek T9940 - all generations	Latest from Manufacturer	SEPATON^S2100		Yes	Yes

SEPATON - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
S2100 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	SEPATON^S2100		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
S2100 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	SEPATON^S2100		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
S2100 - Fibre Channel	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	SEPATON^S2100		Enterprise Edition	No	No	5	11
S2100 - Fibre Channel	Oracle StorageTek T9940 - all generations	Latest from Manufacturer	SEPATON^S2100		Enterprise Edition	No	No	5	11

SEPATON - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	Solaris on SPARC	Solaris on x86-64
S2100 - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	SEPATON^S2100		6.1, 7.1	10, 11	No
S2100 - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	SEPATON^S2100		6.1, 7.1	10, 11	No
S2100 - Fibre Channel	Oracle StorageTek T9840 - all generations	Latest from Manufacturer	SEPATON^S2100		6.1, 7.1	10	10
S2100 - Fibre Channel	Oracle StorageTek T9940 - all generations	Latest from Manufacturer	SEPATON^S2100		6.1, 7.1	10	10

SEPATON - Family Membership

VTL Family - Interface	Members
S2100 - Fibre Channel	S2100-DS2, S2100-DS3, S2100-ES2, S2100-ES3

Spectra Logic

Spectra Logic - Support with NetBackup Appliance

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	5200 Series	5300 Series
nTier VTL (RedHat 5.3 VTL Server Platform) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^^VTL	DirCpy_Shr	Yes	Yes

Spectra Logic - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
nTier VTL (RedHat 5.3 VTL Server Platform) - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FALCON^^VTL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
nTier VTL (RedHat 5.3 VTL Server Platform) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^^VTL	DirCpy_Shr	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
nTier VTL - Fibre Channel [1]	IBM LTO - all generations	Latest from Manufacturer	FALCON^VTL	DirCpy_Ded	Enterprise Edition	No	No	5	No

1. NDMP Direct Copy with Physical Drives Dedicated support requires version 5.0 or later.

Spectra Logic - Support with UNIX

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
nTier VTL (RedHat 5.3 VTL Server Platform) - Fibre Channel	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	FALCON^^VTL	DirCpy_Shr	6.1	11.31	10	10
nTier VTL (RedHat 5.3 VTL Server Platform) - Fibre Channel	IBM LTO - all generations	Latest from Manufacturer	FALCON^^VTL	DirCpy_Shr	6.1	11.31	10	10

Tandberg

Tandberg - Support with Windows / Linux

VTL Family - Interface	Virtual Tape Drive	Software Version	Inquiry String	Attributes	Windows Server 2008 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DPS1000 Series VTL - iSCSI	Hewlett Packard Enterprise LTO - all generations	Latest from Manufacturer	TANDBERGDPS1000		Enterprise Edition	5	11

Tandberg - Family Membership

VTL Family - Interface	Members
DPS1000 Series VTL - iSCSI	DPS1100 VTL, DPS1200 VTL

Tape Libraries

Tape library support information is listed below. This information is organized by vendor and provides information on the inquiry string (vendor ID + product ID), the method(s) of controlling the robot, and any other important notes about the hardware and its compatibility.

Contents

<u>Tape Libraries - Considerations</u>	<u>Tape Libraries - NetBackup Robot Types</u>	<u>Tape Libraries - Legend</u>
<u>Tape Libraries - Vendor Compatibility</u>		

Tape Libraries - Considerations

Subject	Notes
Support assumptions	For details on supported operating systems, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" <http://www.veritas.com/docs/000115691> . 1. The tables in this section show robotic support only, not tape drive support. Refer to the Tape Drives section of this document to ensure that the specific drive used in the library is supported on the desired OS platform(s). The library vendor must also support the library and drive combination. 2. Firmware versions are not listed in this section. Veritas recommends using the most recent version of firmware available when you configure the library with NetBackup. When a minimum firmware version is required, it will be listed in the Notes column. If a firmware version is causing a problem, Veritas will work with the hardware vendor to resolve the problem. Veritas and most hardware vendors listed are members of TSANet. 3. ACS robots are supported with NetBackup Enterprise Server only. ACS robots are not supported with NetBackup Server. 4. For ACS robots the "Inquiry String" column is intentionally left blank. 5. Where support is shown for "Red Hat Enterprise Linux" it also means that CentOS and Oracle Linux are supported.
Configuration considerations	1. Library partitioning is supported unless noted otherwise. 2. Library expansion modules are supported unless noted otherwise. 3. On IBM AIX, use of the IBM Atape driver is required with IBM tape libraries. The Atape driver's multi-path feature must be disabled.
Operating system support dropped	1. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later. 2. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.

Tape Libraries - NetBackup Robot Types

These tables list operating system platform support for each NetBackup robotic daemon type. For supported OS versions, refer to the "[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List](http://www.veritas.com/docs/000115691)" <<http://www.veritas.com/docs/000115691>> .

For more information on configuring each robot type, see the NetBackup Device Configuration Guide.

Tape Libraries - ACS Robot Type Considerations

Subject	Notes
Support assumptions	For details on supported operating systems, please refer to the " NetBackup 8.0 - 8.x.x Operating System Software Compatibility List " < http://www.veritas.com/docs/000115691 > . 1. ACS robots are supported with NetBackup Enterprise Server only. ACS robots are not supported with NetBackup Server. 2. Where support is shown for "Red Hat Enterprise Linux" it also means that CentOS and Oracle Linux are supported.
Vendor support considerations	1. The ACSLS version must be currently supported by Oracle. 2. ACSLS 8.0, 8.1, 8.2, 8.3, and 8.4 are supported with NetBackup 8.0 GA and later. Earlier ACSLS versions are not supported. 3. The Logical Libraries feature introduced in ACSLS 8.0 is supported with libraries for which both ACS and TLD support is listed. 4. LibAttach is required with Windows media servers. The LibAttach version must be currently supported by Oracle. 5. LibAttach 1.4.2 and 1.4.3 are supported with NetBackup 8.0 GA and later. Earlier LibAttach versions are not supported.
Configuration considerations	1. If a version of ACSLS contains a media type that is not yet supported by NetBackup, that media type can be configured as type UNKNOWN. NetBackup can support one and only one UNKNOWN media type. However, if errors or anomalies occur, upgrading NetBackup to a version where the media type is supported may be necessary. In general, Veritas testing occurs at the NetBackup version level where the new media type support is added, or at a level where known bugs are addressed.
Operating system support dropped	1. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later. 2. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.

ACS - Oracle Automated Cartridge System - Supported Operating Systems

Operating System	NetBackup 8.x Start of Support
AIX on POWER	8.0 GA
HP-UX on IA64	8.0 GA
NDMP	8.0 GA
Red Hat Enterprise Linux on x86-64	8.0 GA

ACS - Oracle Automated Cartridge System - Supported Operating Systems

Operating System	NetBackup 8.x Start of Support
Red Hat Enterprise Linux on zArch	8.0 GA
Solaris on SPARC	8.0 GA [1]
Solaris on x64	8.0 GA [1]
SUSE Linux Enterprise Server on x86-64	8.0 GA
SUSE Linux Enterprise Server on zArch	8.0 GA
Windows Server 2008 x64	8.0 GA [2]
Windows Server 2012 x64	8.0 GA [3]
Windows Server 2016 x64	Not supported

1. For Solaris 11 support, ACS robotics require the "compatibility/ucb" package from Oracle.
2. Requires LibAttach 1.4.2 or 1.4.3 from Oracle.
3. Requires LibAttach 1.4.3 from Oracle.

ACS - Oracle Automated Cartridge System - Supported Drive Types

ACSL Drive Types	NetBackup 8.x Start of Support
4480	8.0 GA
4490	8.0 GA
4890	8.0 GA
9490	8.0 GA
9491	8.0 GA
9840	8.0 GA
9840-3590	8.0 GA
9940-3590	8.0 GA
CER-LTO	8.0 GA

ACS - Oracle Automated Cartridge System - Supported Drive Types

ACSL Drive Types	NetBackup 8.x Start of Support
CER-LTO-2	8.0 GA
CER-LTO-3	8.0 GA
DLT2000	8.0 GA
DLT2000XT	8.0 GA
DLT4000	8.0 GA
DLT7000	8.0 GA
DLT8000	8.0 GA
DLT-S4	8.0 GA
HP-LTO	8.0 GA
HP-LTO-2	8.0 GA
HP-LTO-3	8.0 GA
HP-LTO-4	8.0 GA
HP-LTO-5	8.0 GA
HP-LTO-6	8.0 GA
HP-LTO-7	8.0 GA
IBM-LTO	8.0 GA
IBM-LTO-2	8.0 GA
IBM-LTO-3	8.0 GA
IBM-LTO-4	8.0 GA
IBM-LTO-5	8.0 GA
IBM-LTO-6	8.0 GA
IBM-LTO-7	8.0 GA
QNT-LTO-4	8.0 GA
SD3	8.0 GA
SDLT	8.0 GA
SDLT-320	8.0 GA

ACS - Oracle Automated Cartridge System - Supported Drive Types

ACSL Drive Types	NetBackup 8.x Start of Support
SDLT-600	8.0 GA
T1A	8.0 GA
T1A35	8.0 GA
T1AE	8.0 GA
T1AE35	8.0 GA
T1B	8.0 GA
T1B35	8.0 GA
T1BE	8.0 GA
T1BE35	8.0 GA
T1C	8.0 GA
T1C35	8.0 GA
T1CE	8.0 GA
T1CE35	8.0 GA
T1D	8.0 GA
T1D35	8.0 GA
T1DE	8.0 GA
T1DE35	8.0 GA
T1D-Eth	8.0 GA
T1DpEth	8.0 GA
T1E	8.0 GA
T1E35	8.0 GA
T1EE	8.0 GA
T1EE35	8.0 GA
T1E-Eth	8.0 GA
T1EpEth	8.0 GA
T9840B	8.0 GA

ACS - Oracle Automated Cartridge System - Supported Drive Types

ACSL S Drive Types	NetBackup 8.x Start of Support
T9840B35	8.0 GA
T9840C	8.0 GA
T9840C35	8.0 GA
T9840CE	8.0 GA
T9840CE5	8.0 GA
T9840D	8.0 GA
T9840D35	8.0 GA
T9840DE	8.0 GA
T9840DE5	8.0 GA
T9940A	8.0 GA
T9940B	8.0 GA
T9940B	8.0 GA
T9940B35	8.0 GA
VDRIVE	8.0 GA
VIRT-DRV	8.0 GA

ACS - Oracle Automated Cartridge System - Supported Media Types

ACSL S Media Types	NetBackup 8.x Start of Support
3480	8.0 GA
3490E	8.0 GA
DD3A	8.0 GA
DD3B	8.0 GA
DD3C	8.0 GA

ACS - Oracle Automated Cartridge System - Supported Media Types

ACSLS Media Types	NetBackup 8.x Start of Support
DD3D	8.0 GA
DLTIII	8.0 GA
DLTIIIXT	8.0 GA
DLTIV	8.0 GA
EECART	8.0 GA
JLABEL	8.0 GA
KLABEL	8.0 GA
LTO_1_5_T	8.0 GA
LTO_1_5_W	8.0 GA
LTO_2_5_T	8.0 GA
LTO_2_5_W	8.0 GA
LTO_6_4_T	8.0 GA
LTO_6_4_W	8.0 GA
LTO_10GB	8.0 GA
LTO_35GB	8.0 GA
LTO_50GB	8.0 GA
LTO_100G	8.0 GA
LTO_200G	8.0 GA
LTO_400G	8.0 GA
LTO_400W	8.0 GA
LTO_800G	8.0 GA
LTO_800W	8.0 GA
LTO_CLN1	8.0 GA
LTO_CLN2	8.0 GA
LTO_CLN3	8.0 GA
LTO_CLNU	8.0 GA

ACS - Oracle Automated Cartridge System - Supported Media Types

ACSLS Media Types	NetBackup 8.x Start of Support
SDLT	8.0 GA
SDLT_2	8.0 GA
SDLT_4	8.0 GA
SDLT_S1	8.0 GA
SDLT_S2	8.0 GA
SDLT_S3	8.0 GA
SDLT_S4	8.0 GA
STK1R	8.0 GA
STK1U	8.0 GA
STK1Y	8.0 GA
STK2P	8.0 GA
STK2W	8.0 GA
T10000CC	8.0 GA
T10000CL	8.0 GA
T10000CT	8.0 GA
T10000T1	8.0 GA
T10000T2	8.0 GA
T10000TS	8.0 GA
T10000TT	8.0 GA
VIRTUAL	8.0 GA
VCART	8.0 GA

TLD - Tape Library DLT - Supported Operating Systems

Operating System	NetBackup 8.x Start of Support
AIX on POWER	8.0 GA - Note: Use of the IBM Atape driver is required with IBM libraries. The Atape driver's multi-path feature must be disabled.
HP-UX on IA64	8.0 GA
NDMP	8.0 GA
Red Hat Enterprise Linux on x86-64	8.0 GA
Red Hat Enterprise Linux on zArch	8.0 GA
Solaris on SPARC	8.0 GA
Solaris on x64	8.0 GA
SUSE Linux Enterprise Server on x86-64	8.0 GA
SUSE Linux Enterprise Server on zArch	8.0 GA
Windows Server 2008 x64	8.0 GA
Windows Server 2012 x64	8.0 GA
Windows Server 2016 x64	8.0 GA

Tape Libraries - Legend

The following table describes terms and symbols used in the Tape Libraries - Vendor Compatibility tables.

Tape Libraries - Legend

Value	Meaning
Multi LUN	The device is a Multi-LUN based library.
SCSI ID	The device is a SCSI ID based library.
^	Character used to denote a space in the INQUIRY STRING.

Tape Libraries - Vendor Compatibility

Contents

<u>Dell</u>	<u>Fujitsu</u>	<u>H3C</u>
<u>Hewlett Packard Enterprise</u>	<u>Hitachi</u>	<u>IBM</u>
<u>NEC</u>	<u>Oracle</u>	<u>Overland Storage</u>
<u>Qualstar</u>	<u>Quantum</u>	<u>Spectra Logic</u>
<u>Tandberg</u>		

Dell

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
PowerVault 160T - Fibre Channel	ADIC^i2000	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
PowerVault ML6000 Series - Fibre Channel	ADIC^i500	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
PowerVault ML6000 Series - SAS	ADIC^i500	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
PowerVault ML6000 Series - SCSI	ADIC^i500	Multi LUN	TLD	
PowerVault TL1000 - SAS	IBM^3572-TL	Multi LUN	TLD	
PowerVault TL2000 - Fibre Channel	IBM^3573-TL	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
PowerVault TL2000 - SAS	IBM^3573-TL	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
PowerVault TL2000 - SCSI	IBM^3573-TL	Multi LUN	TLD	
PowerVault TL4000 - Fibre Channel	IBM^3573-TL	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
PowerVault TL4000 - SAS	IBM^3573-TL	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
PowerVault TL4000 - SCSI	IBM^3573-TL	Multi LUN	TLD	

Fujitsu

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
ETERNUS LT20 - Fibre Channel	FSC^FibreCAT^TX08	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ETERNUS LT20 - SAS	FSC^FibreCAT^TX08	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
ETERNUS LT20 - SCSI	FSC^FibreCAT^TX08	Multi LUN	TLD	
ETERNUS LT20 S2 - Fibre Channel	FUJITSU^ETERNUS^LT^S2	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ETERNUS LT20 S2 - SAS	FUJITSU^ETERNUS^LT^S2	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
ETERNUS LT40 - Fibre Channel	FSC^FibreCAT-TX24^S2	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ETERNUS LT40 - SAS	FSC^FibreCAT-TX24^S2	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
ETERNUS LT40 - SCSI	FSC^FibreCAT-TX24^S2	Multi LUN	TLD	
ETERNUS LT40 S2 - Fibre Channel	FUJITSU^ETERNUS^LT^S2	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ETERNUS LT40 S2 - SAS	FUJITSU^ETERNUS^LT^S2	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
ETERNUS LT60 - Fibre Channel	FSC^FibreCAT-TX48^S2	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ETERNUS LT60 - SAS	FSC^FibreCAT-TX48^S2	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
ETERNUS LT60 - SCSI	FSC^FibreCAT-TX48^S2	Multi LUN	TLD	
ETERNUS LT60 S2 - Fibre Channel	FUJITSU^ETERNUS^LT^S2	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ETERNUS LT60 S2 - SAS	FUJITSU^ETERNUS^LT^S2	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
ETERNUS LT120 - SCSI		SCSI ID	TLD	

Fujitsu

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
ETERNUS LT130 - SCSI	OVERLANDNEO^Series	SCSI ID	TLD	
ETERNUS LT160 - SCSI	FUJITSU^NML9A	SCSI ID	TLD	
ETERNUS LT210 (T16A) - SCSI	NEC^^^^T16A	SCSI ID	TLD	
ETERNUS LT210 (T16A2) - SAS	NEC^^^^T16A2	Multi LUN	TLD	
ETERNUS LT210 (T16A2) - SCSI	NEC^^^^T16A2	Multi LUN	TLD	
ETERNUS LT220 (T16A) - SCSI	NEC^^^^T16A	SCSI ID	TLD	
ETERNUS LT220 (T16A2) - SCSI	NEC^^^^T16A2	Multi LUN	TLD	
ETERNUS LT230 (T40A) - SCSI	NEC^^^^T40A	SCSI ID	TLD	
ETERNUS LT230 (T40A2) - Fibre Channel	NEC^^^^T40A2	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ETERNUS LT230 (T40A2) - SCSI	NEC^^^^T40A2	Multi LUN	TLD	
ETERNUS LT250 - Fibre Channel	FUJITSU^NML7A	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ETERNUS LT250 - SCSI	FUJITSU^NML7A	SCSI ID	TLD	
ETERNUS LT260 - Fibre Channel	FUJITSU^ETERNUS^LT260	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ETERNUS LT260 - SAS	FUJITSU^ETERNUS^LT260	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
ETERNUS LT270 - Fibre Channel	FUJITSU^NML10A	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ETERNUS LT270 S2 - Fibre Channel	ETERNUS^LT270S2	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
FibreCAT TX08 - SCSI	FSC^^^^FibreCAT^TX08	Multi LUN	TLD	
FibreCAT TX24 - Fibre Channel	FSC^^^^FibreCAT^TX24	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
FibreCAT TX24 - SCSI	FSC^^^^FibreCAT^TX24	Multi LUN	TLD	
FibreCAT TX48 - Fibre Channel	FSC^^^^FibreCAT^TX48	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.

Fujitsu

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
FibreCAT TX48 - SCSI	FSC^FibreCAT^TX48	Multi LUN	TLD	
FibreCAT TX48 S2 - Fibre Channel	FSC^FibreCAT-TX48^S2	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.

H3C

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
CT108 - Fibre Channel	HP^1x8^G2^AUTOLDR	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
CT108 - SAS	HP^1x8^G2^AUTOLDR	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
CT224 - Fibre Channel	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
CT224 - SAS	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
CT448 - Fibre Channel	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
CT448 - SAS	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
CT7680 - Fibre Channel	HP^MSL6480	Multi LUN	TLD	Barcode labels are strongly recommended. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
CT7680 - SAS	HP^MSL6480	Multi LUN	TLD	Barcode labels are strongly recommended. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.

Hewlett Packard Enterprise

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
1/8 G2 Tape Autoloader - Fibre Channel	HP^^^^^1x8^G2^AUTOLDR	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
1/8 G2 Tape Autoloader - SAS	HP^^^^^1x8^G2^AUTOLDR	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
1/8 G2 Tape Autoloader - SCSI	HP^^^^^1x8^G2^AUTOLDR	Multi LUN	TLD	
EML E-Series - Fibre Channel	HP^^^^^EML^E-Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
EML E-Series 71e - Fibre Channel	HP^^^^^EML^E-Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
EML E-Series 103e - Fibre Channel	HP^^^^^EML^E-Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
EML E-Series 245e - Fibre Channel	HP^^^^^EML^E-Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
EML E-Series 348e - Fibre Channel	HP^^^^^EML^E-Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
EML E-Series 375e - Fibre Channel	HP^^^^^EML^E-Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
EML E-Series 442e - Fibre Channel	HP^^^^^EML^E-Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
EML E-Series 469e - Fibre Channel	HP^^^^^EML^E-Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
EML E-Series 505e - Fibre Channel	HP^^^^^EML^E-Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ESL E-Series - Fibre Channel	HP^^^^^ESL^E-Series	SCSI ID	TLD	Please see Technical Solution Article This">https://www.veritas.com/docs/000028666 . This> library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ESL E-Series 322e - Fibre Channel	HP^^^^^ESL^E-Series	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.

Hewlett Packard Enterprise

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
ESL E-Series 712e - Fibre Channel	HP^ESL^E-Series	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ESL G3 - Fibre Channel	HP^ESL^G3^Series	Multi LUN	TLD	The Automated Media Pool (AMP), Control Path Failover and Data Path Failover features are supported. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
MSL2024 - Fibre Channel	HP^MSL^G3^Series	Multi LUN	TLD	Supported with the MSL Library Extender. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
MSL2024 - SAS	HP^MSL^G3^Series	Multi LUN	TLD	Supported with the MSL Library Extender. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
MSL2024 - SCSI	HP^MSL^G3^Series	Multi LUN	TLD	Supported with the MSL Library Extender.
MSL3040 - Fibre Channel	HPE^MSL3040	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
MSL4048 - Fibre Channel	HP^MSL^G3^Series	Multi LUN	TLD	Supported with the MSL Library Extender. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
MSL4048 - SAS	HP^MSL^G3^Series	Multi LUN	TLD	Supported with the MSL Library Extender. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
MSL4048 - SCSI	HP^MSL^G3^Series	Multi LUN	TLD	Supported with the MSL Library Extender.
MSL6480 - Fibre Channel	HP^MSL6480	Multi LUN	TLD	Barcode labels are strongly recommended. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
MSL6480 - SAS	HP^MSL6480	Multi LUN	TLD	Barcode labels are strongly recommended. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
MSL8048 - Fibre Channel	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
MSL8048 - SAS	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
MSL8048 - SCSI	HP^MSL^G3^Series	Multi LUN	TLD	

Hewlett Packard Enterprise

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
MSL8096 - Fibre Channel	HP^^^^^MSL^G3^Series	Multi LUN	TLD	Supported with the MSL Library Extender. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
MSL8096 - SAS	HP^^^^^MSL^G3^Series	Multi LUN	TLD	Supported with the MSL Library Extender. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
MSL8096 - SCSI	HP^^^^^MSL^G3^Series	Multi LUN	TLD	Supported with the MSL Library Extender.

Hitachi

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
L18/500 - Fibre Channel	STK^^^^^SL500	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
L18/500 - SCSI	STK^^^^^SL500	SCSI ID	TLD	

IBM

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
3607 1x16 - SCSI	IBM^^^^^3607116	Multi LUN	TLD	
33614LX - Fibre Channel	IBM^^^^^33614LX	Multi LUN	TLD	Library partitioning is supported with firmware V26 (001A) or later. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
33614LX - SCSI	IBM^^^^^33614LX	Multi LUN	TLD	Library partitioning is supported with firmware V26 (001A) or later.
33622LX - Fibre Channel	IBM^^^^^33622LX	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
33622LX - SCSI	IBM^^^^^33622LX	Multi LUN	TLD	

IBM

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
StorageSmart SL7 - SCSI	IBM^ULT3581-TA	SCSI ID	TLD	
StorageSmart SL72 - SCSI			TLD	
StorageSmart SL7500 - SCSI			TLD	
System Storage TS2900 (Machine Type 3572) - SAS	IBM^3572-TL	Multi LUN	TLD	
System Storage TS3100 (Machine Type 3573) - Fibre Channel	IBM^3573-TL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
System Storage TS3100 (Machine Type 3573) - SAS	IBM^3573-TL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
System Storage TS3100 (Machine Type 3573) - SCSI	IBM^3573-TL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows.
System Storage TS3200 (Machine Type 3573) - Fibre Channel	IBM^3573-TL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
System Storage TS3200 (Machine Type 3573) - SAS	IBM^3573-TL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
System Storage TS3200 (Machine Type 3573) - SCSI	IBM^3573-TL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows.
System Storage TS3310 (Machine Type 3576) - Fibre Channel	IBM^3576-MTL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
System Storage TS3310 (Machine Type 3576) - SAS	IBM^3576-MTL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.

IBM

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
System Storage TS3310 (Machine Type 3576) - SCSI	IBM~~~~3576-MTL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows.
System Storage TS3400 (Machine Type 3577) - Fibre Channel	IBM~~~~3577-TL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
System Storage TS3500 (Machine Type 3584) - Fibre Channel	IBM~~~~03584	Multi LUN	TLD	IBM Advanced Library Management System (ALMS) is supported with the exception of ALMS drive sharing. Please see Technical Solution Article < http://www.veritas.com/docs/000031883 > for best practices when using ALMS with NetBackup. IBM medium changer driver 6.1.4.8 and above is compatible on Windows. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
System Storage TS4300 (Machine Type 3555) - Fibre Channel	IBM~~~~3573-TL	Multi LUN	TLD	IBM medium changer driver 6.1.4.8 and above is compatible on Windows. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
System Storage TS4500 (Machine Type 3584) - Fibre Channel	IBM~~~~03584	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
TotalStorage 3494 - Ethernet			TLH	

NEC

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
iStorage T40 - SCSI	STK^L40	SCSI ID	TLD	
iStorage T80 - SCSI	STK^L80	SCSI ID	TLD	
iStorage T180 - Fibre Channel	STK^L180	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
iStorage T700 - Fibre Channel	STK^L700	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
LL009F - SAS	NEC^LL009F	Multi LUN	TLD	Firmware version 0004 or later is required.
LL0101H - SCSI	NEC^LL0101H-0A	SCSI ID	TLD	
SL0101H - SCSI	NEC^SL0101H-0S	SCSI ID	TLD	
T16A - SCSI	NEC^T16A	SCSI ID	TLD	
T16A2 - SAS	NEC^T16A2	Multi LUN	TLD	
T16A2 - SCSI	NEC^T16A2	Multi LUN	TLD	
T30A - Fibre Channel	NEC^LL-2B01	Multi LUN	TLD	Firmware version 0003 or later is required. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
T30A - SAS	NEC^LL-2B01	Multi LUN	TLD	Firmware version 0003 or later is required. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
T40A - Fibre Channel	NEC^T40A	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
T40A - SCSI	NEC^T40A	SCSI ID		
T40A2 - Fibre Channel	NEC^T40A2	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
T40A2 - SAS	NEC^T40A2	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
T40A2 - SCSI	NEC^T40A2	Multi LUN	TLD	
T60A - Fibre Channel	NEC^LL-2B01	Multi LUN	TLD	Firmware version 0003 or later is required. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.

NEC

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
T60A - SAS	NEC^LL-2B01	Multi LUN	TLD	Firmware version 0003 or later is required. This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
T100A - Fibre Channel	FUJITSU^NML7A	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
T100A - SCSI	FUJITSU^NML7A	SCSI ID	TLD	
T100A2 - Fibre Channel	FUJITSU^NML7A	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
T700A - Fibre Channel	FUJITSU^NML10A	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
T700A2 - Fibre Channel	ETERNUS^LT270S2	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.

Oracle

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
StorageTek SL24 - Fibre Channel	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageTek SL24 - SAS	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
StorageTek SL24 - SCSI	HP^MSL^G3^Series	Multi LUN	TLD	
StorageTek SL48 - Fibre Channel	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageTek SL48 - SAS	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
StorageTek SL48 - SCSI	HP^MSL^G3^Series	Multi LUN	TLD	
StorageTek SL150 - Ethernet	STK^SL150	Multi LUN	ACS	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageTek SL150 - Fibre Channel	STK^SL150	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.

Oracle

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
StorageTek SL150 - SAS	STK^SL150	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
StorageTek SL500 - Fibre Channel	STK^SL500	SCSI ID	ACS, TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageTek SL500 - SAS	STK^SL500	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
StorageTek SL500 - SCSI	STK^SL500	SCSI ID	ACS, TLD	
StorageTek SL3000 - Ethernet	STK^ACSL-SCSI	SCSI ID	ACS	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageTek SL3000 - Fibre Channel	STK^SL3000	SCSI ID	ACS, TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageTek SL4000 - Fibre Channel	STK^SL4000	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageTek SL8500 - Ethernet	SUN^ACSL-SCSI	SCSI ID	ACS, TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Sun STK SL3000 - Ethernet	SUN^ACSL-SCSI		ACS	

Overland Storage

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
ARCvault series - Fibre Channel	OVERLANDARCvault	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
ARCvault series - SCSI	OVERLANDARCvault	Multi LUN	TLD	
NEO 100s 2nd Generation - SAS	IBM^3572-TL	Multi LUN	TLD	
NEO 200s - Fibre Channel	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
NEO 200s - SAS	HP^MSL^G3^Series	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.

Overland Storage

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
NEO 200s - SCSI	HP^^^^^MSL^G3^Series	Multi LUN	TLD	
NEO 200s 2nd Generation - Fibre Channel	IBM^^^^^3573-TL	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
NEO 200s 2nd Generation - SAS	IBM^^^^^3573-TL	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
NEO 400s - Fibre Channel	HP^^^^^MSL^G3^Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
NEO 400s - SAS	HP^^^^^MSL^G3^Series	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
NEO 400s - SCSI	HP^^^^^MSL^G3^Series	Multi LUN	TLD	
NEO 400s 2nd Generation - Fibre Channel	IBM^^^^^3573-TL	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
NEO 400s 2nd Generation - SAS	IBM^^^^^3573-TL	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
NEO 2000e - Fibre Channel	OVERLANDNEO^Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
NEO 2000e - SAS	OVERLANDNEO^Series	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
NEO 4000e - Fibre Channel	OVERLANDNEO^Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
NEO 4000e - SAS	OVERLANDNEO^Series	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
NEO 8000 - Fibre Channel	OVERLANDNEO^Series	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances. Using FCO (Fibre Channel Option) card.
NEO 8000 - SCSI	OVERLANDNEO^Series	SCSI ID	TLD	
NEO 8000e - Fibre Channel	OVERLANDNEO^Series	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
NEO 8000e - SAS	OVERLANDNEO^Series	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.

Overland Storage

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
NEO series - Fibre Channel	OVERLANDNEO^Series	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
NEO series - SCSI	OVERLANDNEO^Series	SCSI ID	TLD	
NEOs series 3rd Generation - Fibre Channel	BDT^FlexStor^II	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
NEOs series 3rd Generation - SAS	BDT^FlexStor^II	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
NEOxl series - Fibre Channel	BDT^MULTISTAK	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
NEOxl series - SAS	BDT^MULTISTAK	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.

Qualstar

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
Q24 - Fibre Channel	BDT^FlexStor^II	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Q24 - SAS	BDT^FlexStor^II	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
RLS-6000 (S)DLT series - Fibre Channel	QUALSTARRLS-6	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances. Using FCO (Fibre Channel Option) card.
RLS-8000 LTO series - SCSI	QUALSTARRLS-8	SCSI ID	TLD	
RLS-8000D LTO series - Fibre Channel	QUALSTARRLS-8	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances. Using FCO (Fibre Channel Option) card.
RLS-8350 - Fibre Channel	QUALSTARRLS-85	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.

Qualstar

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
RLS-8350 - SAS	QUALSTARRLS-85	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
RLS-8500 LTO series - Fibre Channel	QUALSTARRLS-85	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
RLS-8500 LTO series - SAS	QUALSTARRLS-85	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
RLS-85120 - Fibre Channel	QUALSTARRLS-85	Multi LUN		
TLS-6000 DLT series - Fibre Channel	QUALSTARTLS-6	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances. Using FCO (Fibre Channel Option) card.
TLS-6000 DLT series - SCSI	QUALSTARTLS-6	SCSI ID	TLD	
TLS-6220 - SCSI	QUALSTARTLS-6	SCSI ID	TLD	
TLS-8000 LTO series - Fibre Channel	QUALSTARTLS-8	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances. Using FCO (Fibre Channel Option) card.
TLS-8000 LTO series - SCSI	QUALSTARTLS-8	SCSI ID	TLD	
XLS-8000 - Fibre Channel	QUALSTARXLS-8000	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
XLS-8000 - SCSI	QUALSTARXLS-8000	SCSI ID	TLD	
XLS series - Fibre Channel	QUALSTARXLS-8000	SCSI ID	TLD	All models in the XLS series are supported (XLS-810160, XLS-810240, XLS-812300, XLS-820500, XLS-832700, XLS-8161100). QUALSTARXLS-8000 and QUALSTARXLS-8100 inquiry strings are supported with the XLS series. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.

Quantum

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
PX720 - Fibre Channel	QUANTUM^PX720	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances. Using FC 470.
PX720 - SCSI	QUANTUM^PX720	SCSI ID	TLD	
Scalar 50 (SCALAR50) - Fibre Channel	QUANTUM^SCALAR50	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Scalar 50 (SCALAR50) - SAS	QUANTUM^SCALAR50	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
Scalar 50 (SCALAR50) - SCSI	QUANTUM^SCALAR50	SCSI ID	TLD	
Scalar i3 - Fibre Channel	QUANTUM^Scalar^i3-i6	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Scalar i3 - SAS	QUANTUM^Scalar^i3-i6	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
Scalar i6 - Fibre Channel	QUANTUM^Scalar^i3-i6	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Scalar i6 - SAS	QUANTUM^Scalar^i3-i6	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
Scalar i40 - Fibre Channel	QUANTUM^Scalar^i40-i80	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Scalar i40 - SAS	QUANTUM^Scalar^i40-i80	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
Scalar i80 - Fibre Channel	QUANTUM^Scalar^i40-i80	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Scalar i80 - SAS	QUANTUM^Scalar^i40-i80	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
Scalar i500 - Fibre Channel	Quantum^Scalar^i500	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Scalar i500 - SCSI	Quantum^Scalar^i500	Multi LUN	TLD	
Scalar i2000 - Fibre Channel	Quantum^Scalar^i2000	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Scalar i2000 - SCSI	Quantum^Scalar^i2000	SCSI ID	TLD	

Quantum

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
Scalar i6000 - Fibre Channel	Quantum^Scalar^i6000	Multi LUN	TLD	Advanced Path Failover drivers for Red Hat Enterprise Linux 6 and Windows 2008 are supported. This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
SuperLoader 3 - Fibre Channel	QUANTUM^UHDL	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
SuperLoader 3 - SAS	QUANTUM^UHDL	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
SuperLoader 3 - SCSI	QUANTUM^UHDL	Multi LUN	TLD	

Spectra Logic

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
Spectra T-Finity - Fibre Channel	SPECTRA^PYTHON	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Spectra T50e - Fibre Channel	SPECTRA^PYTHON	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Spectra T50e - SAS	SPECTRA^PYTHON	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
Spectra T120 - Fibre Channel	SPECTRA^PYTHON	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Spectra T120 - SAS	SPECTRA^PYTHON	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
Spectra T120 - SCSI	SPECTRA^PYTHON	Multi LUN	TLD	
Spectra T200 - Fibre Channel	SPECTRA^PYTHON	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Spectra T380 - Fibre Channel	SPECTRA^PYTHON	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
Spectra T680 - Fibre Channel	SPECTRA^PYTHON	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.

Spectra Logic

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
Spectra T950 - Fibre Channel	SPECTRA^PYTHON	SCSI ID	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.

Tandberg

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
StorageLibrary T24 - Fibre Channel	EXABYTE^MAGNUM^224	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageLibrary T24 - SCSI	EXABYTE^MAGNUM^224	Multi LUN	TLD	
StorageLibrary T40 - Fibre Channel	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageLibrary T40 - SAS	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
StorageLibrary T40 - SCSI	TANDBERGStorageLoader	Multi LUN	TLD	
StorageLibrary T40+ - Fibre Channel	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageLibrary T40+ - SAS	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
StorageLibrary T48 - Fibre Channel	EXABYTE^MAGNUM^448	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageLibrary T48 - SCSI	EXABYTE^MAGNUM^448	Multi LUN	TLD	
StorageLibrary T80+ - Fibre Channel	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageLibrary T80+ - SAS	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
StorageLibrary T120+ - Fibre Channel	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.

Tandberg

Device - Interface	Inquiry String	Address Scheme	Robot Type	Notes
StorageLibrary T120+ - SAS	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
StorageLibrary T160+ - Fibre Channel	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageLibrary T160+ - SAS	TANDBERGStorageLoader	Multi LUN	TLD	This library is also supported with the NetBackup 5240 Series Appliance with a SAS tape-out adapter.
StorageLoader 2U LTO - Fibre Channel	EXABYTE^MAGNUM^224	Multi LUN	TLD	This library is also supported with NetBackup 5200 Series and 5300 Series Appliances.
StorageLoader 2U LTO - SCSI	EXABYTE^MAGNUM^224	Multi LUN	TLD	
StorageLoader LTO - SAS	TANDBERGStorageLoader	Multi LUN	TLD	
SuperLoader DLT 1280L - SCSI	QUANTUM^UHDL	Multi LUN	TLD	
SuperLoader SDLT 3520L - SCSI	QUANTUM^UHDL	Multi LUN	TLD	
SuperLoader SDLT 5120L - SCSI	QUANTUM^UHDL	Multi LUN	TLD	

Tape Drives

Tape drive support information is listed below, organized by vendor. Under each vendor there are separate tables showing compatibility with NetBackup Appliances, with Linux/Windows operating systems and with UNIX operating systems. These tables provide information on the operating system versions supported by the drive, inquiry string (vendor ID + product ID), and other important notes about the hardware and its compatibility.

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[Tape Drives - Considerations](#)

[Tape Drives - Attributes](#)

[Tape Drives - Vendor Compatibility](#)

Tape Drives - Considerations

Subject	Notes
Support assumptions	For details on supported operating systems, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" <http://www.veritas.com/docs/000115691> . 1. To ensure support, a device (both drive and library where applicable) must be supported by Veritas, the device manufacturer, and the operating system vendor. 2. Firmware versions are not listed in this section. Veritas recommends using the most recent version of firmware available when you configure the drive with NetBackup. When a minimum firmware version is required, it will be listed in the footnotes. If a firmware version is causing a problem, Veritas will work with the hardware vendor to resolve the problem. Veritas and most hardware vendors listed are members of TSANet. 3. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server. 4. Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported. 5. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported. 6. Where support is shown for "Red Hat Enterprise Linux 5 on x86-64" it also means that CentOS 5 and Oracle Linux 5 are supported. 7. Where support is shown for "Red Hat Enterprise Linux 6 on x86-64" it also means that CentOS 6 and Oracle Linux 6 are supported. 8. Where support is shown for "Red Hat Enterprise Linux 7 on x86-64" it also means that CentOS 7 and Oracle Linux 7 are supported. 9. The "ULTRIUM-TD" and the "ULT3580-TD" inquiry strings are interchangeable (both are supported), unless noted otherwise. The "ULTRIUM-HH" and the "ULT3580-HH" inquiry strings are interchangeable (both are supported), unless noted otherwise. 10. Backup Exec Tape Reader is not supported in NetBackup 8.0 and later releases.
Vendor support considerations	1. The list of attributes for each tape drive is based on the most recent drive testing. Check with the device manufacturer to determine the firmware version at which support for a specific attribute was added.
Configuration considerations	1. Veritas recommends the use of SCSI Persistent Reserve (SPR) whenever all the hardware in your device path supports it. Refer to the NetBackup Administrator's Guide for more information on SPR and the types of configurations where SPR may be more effective than the default SPC-2 SCSI reserve and release method. 2. Only tape drives listed in the tables below are supported. Other tape drive models are not supported even if the Virtual Tape Library section shows an emulated version of the drive is supported with NetBackup. 3. For Solaris 10, Veritas recommends running Update 6 (137137-09 for SPARC, 137138-09 for x64) or later.

Subject	Notes
OS tape driver considerations	1. Except where noted, Veritas recommends the use of the operating system's native tape drivers.
Operational considerations	1. Tape Alert functionality is supported by all drives, unless noted otherwise.
Operating system support dropped	1. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later. 2. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.

Tape Drives - Attributes

The following table lists attributes supported with Tape Drives and indicates the NetBackup 8.x version at which that attribute was first supported.

Attribute	Abbreviation	NetBackup Release Supported
SCSI Reservation	SResv	8.0 GA
SCSI Persistent Reservation	SPR	8.0 GA
Write Once, Read Many	WORM	8.0 GA
NetBackup Encryption Key Management Service	KMS	8.0 GA
Append-only mode	Append	8.0 GA

Tape Drives - Vendor Compatibility

Contents

<u>Dell</u>	<u>Hewlett Packard Enterprise</u>	<u>IBM</u>
<u>Oracle</u>	<u>Quantum</u>	<u>Tandberg</u>

Dell

Dell - Support with NetBackup Appliance

Device - Interface	Inquiry String	Attributes	5200 Series	5300 Series
PowerVault LTO-6 - Fibre Channel	IBM^~~~~ULTRIUM-TD6	KMS, SResv, SPR, WORM	Yes	Yes
PowerVault LTO-6 - SAS	IBM^~~~~ULTRIUM-HH6	KMS, WORM	Yes [1]	No
PowerVault LTO-7 - SAS	IBM^~~~~ULTRIUM-HH7	KMS, WORM	Yes [1]	No
PowerVault LTO5-140 - SAS	IBM^~~~~ULTRIUM-HH5	KMS, WORM	Yes [1]	No
PowerVault LTO5-140 FH - Fibre Channel	IBM^~~~~ULTRIUM-TD5	KMS, SResv, SPR, WORM	Yes	Yes

1. Requires the Veritas-supplied SAS tape-out adapter in a NetBackup 5240 Series Appliance running version 3.1 or later.

Dell - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
PowerVault 110T LTO2 (Gen2 IBM) - SCSI [1]	IBM^~~~~ULTRIUM-TD2		Enterprise Edition	No	No	5, 6	11
PowerVault 110T SDLT320 - SCSI	QUANTUM^SDLT320		Enterprise Edition	No	No	5, 6	11
PowerVault 110T VS160 - SCSI	QUANTUM^DLT^VS160		Enterprise Edition	No	No	5, 6	11
PowerVault 160T LTO2 - SCSI [1]	IBM^~~~~ULTRIUM-TD2		Enterprise Edition	No	No	5, 6	11
PowerVault LTO-6 - Fibre Channel	IBM^~~~~ULTRIUM-TD6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
PowerVault LTO-6 - SAS	IBM^~~~~ULTRIUM-HH6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12

Dell - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
PowerVault LTO-7 - SAS	IBM~~~~~ULTRIUM-HH7	KMS, WORM	No	Datacenter	Datacenter	6, 7	11, 12
PowerVault LTO-7 FH FC - Fibre Channel	IBM~~~~~ULTRIUM-TD7	Append, KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	6, 7	11, 12
PowerVault LTO-7 HH FC - Fibre Channel	IBM~~~~~ULT3580-HH7	Append, KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	6, 7	11, 12
PowerVault LTO-7 HH SAS - SAS	IBM~~~~~ULT3580-HH7	KMS, WORM	No	Datacenter	Datacenter	6, 7	11, 12
PowerVault LTO4 HH - SAS	IBM~~~~~ULT3580-HH4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
PowerVault LTO4-120 - SAS [1]	IBM~~~~~ULTRIUM-TD4	WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
PowerVault LTO5 HH - SAS	IBM~~~~~ULT3580-HH5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
PowerVault LTO5-140 - SAS	IBM~~~~~ULTRIUM-HH5	SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
PowerVault LTO5-140 FH - Fibre Channel	IBM~~~~~ULTRIUM-TD5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
PowerVault LTO6 HH - SAS	IBM~~~~~ULT3580-HH6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12

1. For information on tape drivers for this device, refer to the "IBM Tape Driver Support" note that follows the IBM listings in the Tape Drives section of this document.

Dell - Support with UNIX

Device - Interface	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
PowerVault 110T LTO2 (Gen2 IBM) - SCSI [1]	IBM^ULTRIUM-TD2		6.1	11.31	10	10
PowerVault 110T SDLT320 - SCSI	QUANTUM^SDLT320		6.1	11.31	10	10
PowerVault 110T VS160 - SCSI	QUANTUM^DLT^VS160		6.1	No	10	10
PowerVault 160T LTO2 - SCSI [1]	IBM^ULTRIUM-TD2		6.1	11.31	10	10
PowerVault LTO-6 - Fibre Channel	IBM^ULTRIUM-TD6	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10
PowerVault LTO-6 - SAS	IBM^ULTRIUM-HH6	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10
PowerVault LTO-7 - SAS	IBM^ULTRIUM-HH7	KMS, WORM	6.1, 7.1	No	10, 11	10, 11
PowerVault LTO-7 FH FC - Fibre Channel	IBM^ULTRIUM-TD7	Append, KMS, SResv, SPR, WORM	6.1, 7.1	No	10, 11	10, 11
PowerVault LTO-7 HH FC - Fibre Channel	IBM^ULT3580-HH7	Append, KMS, SResv, SPR, WORM	6.1, 7.1	No	10, 11	10, 11
PowerVault LTO-7 HH SAS - SAS	IBM^ULT3580-HH7	KMS, WORM	6.1, 7.1	No	10, 11	10, 11
PowerVault LTO4 HH - SAS	IBM^ULT3580-HH4	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
PowerVault LTO5 HH - SAS	IBM^ULT3580-HH5	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
PowerVault LTO6 HH - SAS	IBM^ULT3580-HH6	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10	10

1. For information on tape drivers for this device, refer to the "IBM Tape Driver Support" note that follows the IBM listings in the Tape Drives section of this document.

Hewlett Packard Enterprise

Hewlett Packard Enterprise - Support with NetBackup Appliance

Device - Interface	Inquiry String	Attributes	5200 Series	5300 Series
Ultrium 1760 LTO4 - Fibre Channel	HP^~~~~~Ultrium^4-SCSI	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 1840 LTO4 - Fibre Channel	HP^~~~~~Ultrium^4-SCSI	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 3000 LTO5 - Fibre Channel	HP^~~~~~Ultrium^5-SCSI	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 3000 LTO5 - SAS	HP^~~~~~Ultrium^5-SCSI	KMS, WORM	Yes [1]	No
Ultrium 3280 LTO5 - Fibre Channel	HP^~~~~~Ultrium^5-SCSI	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 3280 LTO5 - SAS	HP^~~~~~Ultrium^5-SCSI	KMS, WORM	Yes [1]	No
Ultrium 6250 LTO6 - Fibre Channel	HP^~~~~~Ultrium^6-SCSI	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 6250 LTO6 - SAS	HP^~~~~~Ultrium^6-SCSI	KMS, WORM	Yes [1]	No
Ultrium 6650 LTO6 - Fibre Channel	HP^~~~~~Ultrium^6-SCSI	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 6650 LTO6 - SAS	HP^~~~~~Ultrium^6-SCSI	KMS, WORM	Yes [1]	No
Ultrium 15000 LTO7 - Fibre Channel	HP^~~~~~Ultrium^7-SCSI	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 15000 LTO7 - SAS	HP^~~~~~Ultrium^7-SCSI	KMS, WORM	Yes [1]	No
Ultrium 15750 LTO7 - Fibre Channel	HP^~~~~~Ultrium^7-SCSI	KMS, SResv, SPR, WORM	Yes	Yes

1. Requires the Veritas-supplied SAS tape-out adapter in a NetBackup 5240 Series Appliance running version 3.1 or later.

Hewlett Packard Enterprise - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	Red Hat Enterprise Linux on zArch	SUSE Linux Enterprise Server on x86-64
Ultrium 920 LTO3 - SAS	HP^~~~~~Ultrium^3-SCSI		No	No	No	5, 6	No	11
Ultrium 920 LTO3 - SCSI	HP^~~~~~Ultrium^3-SCSI	WORM	Enterprise Edition	No	No	5, 6	No	No
Ultrium 1760 LTO4 - Fibre Channel	HP^~~~~~Ultrium^4-SCSI	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
Ultrium 1760 LTO4 - SAS	HP^~~~~~Ultrium^4-SCSI	WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
Ultrium 1760 LTO4 - SCSI	HP^~~~~~Ultrium^4-SCSI	WORM	Enterprise Edition	No	No	5, 6	No	11
Ultrium 1840 LTO4 - Fibre Channel	HP^~~~~~Ultrium^4-SCSI	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	5	11, 12
Ultrium 1840 LTO4 - SAS	HP^~~~~~Ultrium^4-SCSI	WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
Ultrium 1840 LTO4 - SCSI	HP^~~~~~Ultrium^4-SCSI	WORM	Enterprise Edition	No	No	5, 6	No	11
Ultrium 3000 LTO5 - Fibre Channel	HP^~~~~~Ultrium^5-SCSI	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
Ultrium 3000 LTO5 - SAS	HP^~~~~~Ultrium^5-SCSI	SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
Ultrium 3280 LTO5 - Fibre Channel	HP^~~~~~Ultrium^5-SCSI	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	5	11, 12
Ultrium 3280 LTO5 - SAS	HP^~~~~~Ultrium^5-SCSI	KMS, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
Ultrium 6250 LTO6 - Fibre Channel	HP^~~~~~Ultrium^6-SCSI	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
Ultrium 6250 LTO6 - SAS	HP^~~~~~Ultrium^6-SCSI	KMS, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12

Hewlett Packard Enterprise - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	Red Hat Enterprise Linux on zArch	SUSE Linux Enterprise Server on x86-64
Ultrium 6650 LTO6 - Fibre Channel	HP^~~~~Ultrium^6-SCSI	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
Ultrium 6650 LTO6 - SAS	HP^~~~~Ultrium^6-SCSI	KMS, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
Ultrium 15000 LTO7 - Fibre Channel	HP^~~~~Ultrium^7-SCSI	KMS, SResv, SPR, WORM	Enterprise Edition [1]	Datacenter	Datacenter	6, 7	No	11, 12
Ultrium 15000 LTO7 - SAS	HP^~~~~Ultrium^7-SCSI	KMS, WORM	Enterprise Edition [1]	Datacenter	Datacenter	6, 7	No	11, 12
Ultrium 15750 LTO7 - Fibre Channel	HP^~~~~Ultrium^7-SCSI	KMS, SResv, SPR, WORM	Enterprise Edition [1]	Datacenter	Datacenter	6, 7	No	11, 12

1. Requires Windows 2008 R2 or later.

Hewlett Packard Enterprise - Support with UNIX

Device - Interface	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
Ultrium 920 LTO3 - SAS	HP^~~~~Ultrium^3-SCSI		No	11.31	10, 11	10, 11
Ultrium 920 LTO3 - SCSI	HP^~~~~Ultrium^3-SCSI	WORM	6.1	11.31	10	10
Ultrium 1760 LTO4 - Fibre Channel	HP^~~~~Ultrium^4-SCSI	KMS, WORM	6.1	11.31 [1]	10, 11	10, 11
Ultrium 1760 LTO4 - SAS	HP^~~~~Ultrium^4-SCSI	WORM	6.1, 7.1	11.31	10, 11	10, 11
Ultrium 1760 LTO4 - SCSI	HP^~~~~Ultrium^4-SCSI	KMS, WORM	6.1	11.31 [1]	10	10
Ultrium 1840 LTO4 - Fibre Channel	HP^~~~~Ultrium^4-SCSI	SPR, WORM	6.1	11.31 [1]	10, 11	10, 11
Ultrium 1840 LTO4 - SAS	HP^~~~~Ultrium^4-SCSI	WORM	6.1, 7.1	No	10	No
Ultrium 1840 LTO4 - SCSI	HP^~~~~Ultrium^4-SCSI	WORM	6.1	11.31 [1]	10	No
Ultrium 3000 LTO5 - Fibre Channel	HP^~~~~Ultrium^5-SCSI	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
Ultrium 3000 LTO5 - SAS	HP^~~~~Ultrium^5-SCSI	KMS, SPR, WORM	No	11.31	10, 11	10, 11

Hewlett Packard Enterprise - Support with UNIX

Device - Interface	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
Ultrium 3280 LTO5 - Fibre Channel	HP^Ultrium^5-SCSI	SResv, SPR, WORM	6.1, 7.1, 7.2	11.31	10, 11	10, 11
Ultrium 3280 LTO5 - SAS	HP^Ultrium^5-SCSI	SPR, WORM	No	11.31	10, 11	10, 11
Ultrium 6250 LTO6 - Fibre Channel	HP^Ultrium^6-SCSI	KMS, SResv, SPR, WORM	6.1, 7.1, 7.2	11.31	10, 11	10, 11
Ultrium 6250 LTO6 - SAS	HP^Ultrium^6-SCSI	KMS, WORM	No	11.31	10	10
Ultrium 6650 LTO6 - Fibre Channel	HP^Ultrium^6-SCSI	KMS, SResv, SPR, WORM	6.1, 7.1, 7.2	11.31	10, 11	10, 11
Ultrium 6650 LTO6 - SAS	HP^Ultrium^6-SCSI	KMS, WORM	No	11.31	10	10
Ultrium 15000 LTO7 - Fibre Channel	HP^Ultrium^7-SCSI	KMS, SResv, SPR, WORM	6.1, 7.1, 7.2	11.31	10, 11	10, 11
Ultrium 15000 LTO7 - SAS	HP^Ultrium^7-SCSI	KMS, WORM	6.1, 7.1	11.31	10, 11	10, 11
Ultrium 15750 LTO7 - Fibre Channel	HP^Ultrium^7-SCSI	KMS, SResv, SPR, WORM	6.1, 7.1, 7.2	11.31	10, 11	10, 11

1. Requires HP-UX 11.31 patch PHKL_36312.

IBM

IBM - Support with NetBackup Appliance

Device - Interface	Inquiry String	Attributes	5200 Series	5300 Series
System Storage TS1030 (3588 Model F3B) Ultrium 3 - Fibre Channel [1]	IBM^ULT3580-TD3	SResv, SPR, WORM	Yes	Yes
System Storage TS1040 (3588 Model F4A) Ultrium 4 - Fibre Channel	IBM^ULT3580-TD4	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS1050 (3588 Model F5A) Ultrium 5 - Fibre Channel	IBM^ULT3580-TD5	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS1060 (3588 Model F6A) Ultrium 6 - Fibre Channel	IBM^ULT3580-TD6	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS1120 (3592 Model E05) - Fibre Channel	IBM^03592E05	SResv, SPR, WORM	Yes	Yes
System Storage TS1130 (3592 Model E06) - Fibre Channel	IBM^03592E06	SResv, WORM	Yes	Yes
System Storage TS1140 (3592 Model E07) - Fibre Channel	IBM^03592E07	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS1150 (3592 Model E08) - Fibre Channel	IBM^03592E08	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS2240 Ultrium 4 Half Height - Fibre Channel	IBM^ULT3580-HH4	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS2250 Ultrium 5 Half Height - Fibre Channel	IBM^ULT3580-HH5	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS2250 Ultrium 5 Half Height - SAS	IBM^ULT3580-HH5	KMS, WORM	Yes [2]	No
System Storage TS2260 Ultrium 6 Half Height - Fibre Channel	IBM^ULT3580-HH6	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS2260 Ultrium 6 Half Height - SAS	IBM^ULT3580-HH6	KMS, WORM	Yes [2]	No
System Storage TS2270 Ultrium 7 Half Height - Fibre Channel	IBM^ULT3580-HH7	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS2270 Ultrium 7 Half Height - SAS	IBM^ULT3580-HH7	KMS, WORM	Yes [2]	No
System Storage TS2340 Ultrium 4 - Fibre Channel	IBM^ULT3580-TD4	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS2350 Ultrium 5 - Fibre Channel	IBM^ULT3580-TD5	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS2350 Ultrium 5 - SAS	IBM^ULT3580-TD5	KMS, WORM	Yes	No
System Storage TS2360 Ultrium 6 - Fibre Channel	IBM^ULT3580-TD6	KMS, SResv, SPR, WORM	Yes	Yes
System Storage TS2360 Ultrium 6 - SAS	IBM^ULT3580-TD6	KMS, WORM	Yes	No
System Storage TS2370 Ultrium 7 - Fibre Channel	IBM^ULT3580-TD7	KMS, SResv, SPR, WORM	Yes	Yes
TotalStorage 3580 Ultrium 3 - Fibre Channel [1]	IBM^ULT3580-TD3	SResv, SPR, WORM	Yes	Yes

IBM - Support with NetBackup Appliance

Device - Interface	Inquiry String	Attributes	5200 Series	5300 Series
Ultrium 3 - Fibre Channel [1]	IBM^^^^ULTRIUM-TD3	SResv, SPR, WORM	Yes	Yes
Ultrium 4 - Fibre Channel	IBM^^^^ULTRIUM-TD4	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 5 - Fibre Channel	IBM^^^^ULTRIUM-TD5	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 5 - SAS	IBM^^^^ULTRIUM-TD5	KMS, WORM	Yes [2]	No
Ultrium 5 Half Height - SAS	IBM^^^^ULTRIUM-HH5	KMS, WORM	Yes [2]	No
Ultrium 6 - Fibre Channel	IBM^^^^ULTRIUM-TD6	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 6 - SAS	IBM^^^^ULTRIUM-TD6	KMS, WORM	Yes [2]	No
Ultrium 6 Half Height - SAS	IBM^^^^ULTRIUM-HH6	KMS, WORM	Yes [2]	No
Ultrium 7 - Fibre Channel	IBM^^^^ULTRIUM-TD7	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 7 - SAS	IBM^^^^ULTRIUM-TD7	KMS, WORM	Yes [2]	No
Ultrium 7 Half Height - Fibre Channel	IBM^^^^ULTRIUM-HH7	KMS, SResv, SPR, WORM	Yes	Yes
Ultrium 7 Half Height - SAS	IBM^^^^ULTRIUM-HH7	KMS, WORM	Yes [2]	No

1. 4Gb Fibre Channel supported.

2. Requires the Veritas-supplied SAS tape-out adapter in a NetBackup 5240 Series Appliance running version 3.1 or later.

IBM - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	Red Hat Enterprise Linux on zArch	SUSE Linux Enterprise Server on x86-64
System Storage TS1030 (3588 Model F3B) Ultrium 3 - Fibre Channel [1]	IBM^^^^ULT3580-TD3	SPR, WORM	Enterprise Edition	No	No	5, 6	No	11
System Storage TS1040 (3588 Model F4A) Ultrium 4 - Fibre Channel	IBM^^^^ULT3580-TD4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12

IBM - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	Red Hat Enterprise Linux on zArch	SUSE Linux Enterprise Server on x86-64
System Storage TS1050 (3588 Model F5A) Ultrium 5 - Fibre Channel	IBM~~~~~ULT3580-TD5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
System Storage TS1060 (3588 Model F6A) Ultrium 6 - Fibre Channel	IBM~~~~~ULT3580-TD6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
System Storage TS1070 (3588 Model F7A) Ultrium 7 - Fibre Channel	IBM~~~~~ULT3580-TD7	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	6, 7	No	11, 12
System Storage TS1120 (3592 Model E05) - Fibre Channel	IBM~~~~~03592E05	SResv, SPR, WORM	Enterprise Edition	No	No	5, 6, 7	5	11, 12
System Storage TS1130 (3592 Model E06) - Fibre Channel	IBM~~~~~03592E06	SResv, WORM	Enterprise Edition	No	No	5, 6, 7	No	11, 12
System Storage TS1140 (3592 Model E07) - Fibre Channel	IBM~~~~~03592E07	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
System Storage TS1150 (3592 Model E08) - Fibre Channel	IBM~~~~~03592E08	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	6, 7	No	11, 12
System Storage TS1155 (3592 Model 55F) - Fibre Channel	IBM~~~~~0359255F	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	6, 7	No	No
System Storage TS2230 Ultrium 3 Half Height - SAS	IBM~~~~~ULT3580-HH3	WORM	Enterprise Edition	No	No	5, 6	No	11
System Storage TS2230 Ultrium 3 Half Height - SCSI	IBM~~~~~ULT3580-HH3	WORM	Enterprise Edition	No	No	5, 6	No	11
System Storage TS2240 Ultrium 4 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12

IBM - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	Red Hat Enterprise Linux on zArch	SUSE Linux Enterprise Server on x86-64
System Storage TS2240 Ultrium 4 Half Height - SAS	IBM~~~~~ULT3580-HH4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
System Storage TS2250 Ultrium 5 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
System Storage TS2250 Ultrium 5 Half Height - SAS	IBM~~~~~ULT3580-HH5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
System Storage TS2260 Ultrium 6 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
System Storage TS2260 Ultrium 6 Half Height - SAS	IBM~~~~~ULT3580-HH6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
System Storage TS2270 Ultrium 7 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH7	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	6, 7	No	11, 12
System Storage TS2270 Ultrium 7 Half Height - SAS	IBM~~~~~ULT3580-HH7	KMS, WORM	No	Datacenter	Datacenter	6, 7	No	11, 12
System Storage TS2280 Ultrium 8 Half Height - Fibre Channel [2]	IBM~~~~~ULT3580-HH8	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	6, 7	No	No
System Storage TS2340 Ultrium 4 - Fibre Channel	IBM~~~~~ULT3580-TD4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
System Storage TS2340 Ultrium 4 - SAS	IBM~~~~~ULT3580-TD4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
System Storage TS2340 Ultrium 4 - SCSI	IBM~~~~~ULT3580-TD4	WORM	Enterprise Edition	No	No	5, 6	No	11
System Storage TS2350 Ultrium 5 - Fibre Channel	IBM~~~~~ULT3580-TD5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
System Storage TS2350 Ultrium 5 - SAS	IBM~~~~~ULT3580-TD5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12

IBM - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	Red Hat Enterprise Linux on zArch	SUSE Linux Enterprise Server on x86-64
System Storage TS2360 Ultrium 6 - Fibre Channel	IBM~~~~~ULT3580-TD6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
System Storage TS2360 Ultrium 6 - SAS	IBM~~~~~ULT3580-TD6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
System Storage TS2370 Ultrium 7 - Fibre Channel	IBM~~~~~ULT3580-TD7	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	6, 7	No	11, 12
System Storage TS2380 Ultrium 8 - Fibre Channel [2]	IBM~~~~~ULT3580-TD8	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	6, 7	No	No
TotalStorage 3580 Ultrium 3 - Fibre Channel [1]	IBM~~~~~ULT3580-TD3	SPR, WORM	Enterprise Edition	No	No	5, 6	No	11
TotalStorage 3580 Ultrium 3 - SCSI	IBM~~~~~ULT3580-TD3	WORM	Enterprise Edition	No	No	5, 6	No	11
Ultrium 3 - Fibre Channel [1]	IBM~~~~~ULTRIUM-TD3	SPR, WORM	Enterprise Edition	No	No	5, 6	5	11
Ultrium 3 - SCSI	IBM~~~~~ULTRIUM-TD3	WORM	Enterprise Edition	No	No	5, 6	No	11
Ultrium 3 Half Height - SAS	IBM~~~~~ULTRIUM-HH3	WORM	Enterprise Edition	No	No	5, 6	No	11
Ultrium 3 Half Height - SCSI	IBM~~~~~ULTRIUM-HH3	WORM	Enterprise Edition	No	No	5, 6	No	11
Ultrium 4 (U160) - SCSI	IBM~~~~~ULTRIUM-TD4	WORM	Enterprise Edition	No	No	5, 6	No	11
Ultrium 4 - Fibre Channel	IBM~~~~~ULTRIUM-TD4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	5	11, 12
Ultrium 4 - SAS	IBM~~~~~ULTRIUM-TD4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
Ultrium 4 Half Height - Fibre Channel	IBM~~~~~ULTRIUM-HH4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12

IBM - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	Red Hat Enterprise Linux on zArch	SUSE Linux Enterprise Server on x86-64
Ultrium 4 Half Height - SAS	IBM~~~~~ULTRIUM-HH4	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
Ultrium 5 - Fibre Channel	IBM~~~~~ULTRIUM-TD5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	5	11, 12
Ultrium 5 - SAS	IBM~~~~~ULTRIUM-TD5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
Ultrium 5 Half Height - Fibre Channel	IBM~~~~~ULTRIUM-HH5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
Ultrium 5 Half Height - SAS	IBM~~~~~ULTRIUM-HH5	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
Ultrium 6 - Fibre Channel	IBM~~~~~ULTRIUM-TD6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	5	11, 12
Ultrium 6 - SAS	IBM~~~~~ULTRIUM-TD6		Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
Ultrium 6 Half Height - Fibre Channel	IBM~~~~~ULTRIUM-HH6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
Ultrium 6 Half Height - SAS	IBM~~~~~ULTRIUM-HH6	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
Ultrium 7 - Fibre Channel	IBM~~~~~ULTRIUM-TD7	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	6, 7	No	11, 12
Ultrium 7 - SAS	IBM~~~~~ULTRIUM-TD7		No	Datacenter	Datacenter	6, 7	No	11, 12
Ultrium 7 Half Height - Fibre Channel	IBM~~~~~ULTRIUM-HH7	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	6, 7	No	11, 12
Ultrium 7 Half Height - SAS	IBM~~~~~ULTRIUM-HH7	KMS, WORM	No	Datacenter	Datacenter	6, 7	No	11, 12
Ultrium 8 - Fibre Channel [2]	IBM~~~~~ULTRIUM-TD8	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	6, 7	No	No
Ultrium 8 Half Height - Fibre Channel [2]	IBM~~~~~ULTRIUM-HH8	KMS, SResv, SPR, WORM	No	Datacenter	Datacenter	6, 7	No	No

IBM - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	Red Hat Enterprise Linux on zArch	SUSE Linux Enterprise Server on x86-64
Ultrium 8 Half Height - SAS [2]	IBM~~~~~ULTRIUM-HH8	KMS, WORM	No	Datacenter	Datacenter	6, 7	No	No

1. 4Gb Fibre Channel supported.
2. LTO-8 Type M media (M8) are not supported with NetBackup at this time.

IBM Tape Driver Support

The latest version of the IBM tape device driver package that has been tested with NetBackup is listed below. Using the version listed here is recommended, but older versions of the tape drivers are also supported and may work well. There is no need to upgrade the tape driver if the configuration is working properly. Upgrading to the version listed here may be necessary if implementing the latest model tape drives or if problems are encountered that have been addressed by the driver provider.

If using the IBM Windows Tape Device Drivers be sure to choose the install_nonexclusive.exe executable. This option permits a tape drive to be accessed by multiple processes on a Media Server, which is a requirement for NetBackup.

NetBackup requires the IBM Data Path Failover feature to be disabled on the IBM tape device driver. To disable this feature, open the reg folder of the IBM driver package, double-click DisableDPF.reg, and reboot the system.

- IBMTape driver level 6.2.6.5 tested on Windows

Note: The "ULTRIUM-TD" and the "ULT3580-TD" inquiry strings are interchangeable (both are supported), unless noted otherwise. The "ULTRIUM-HH" and the "ULT3580-HH" inquiry strings are interchangeable (both are supported), unless noted otherwise.

IBM - Support with UNIX

Device - Interface	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
System Storage TS1030 (3588 Model F3B) Ultrium 3 - Fibre Channel [1]	IBM~~~~~ULT3580-TD3	SPR, WORM	6.1	11.31	10, 11	10, 11
System Storage TS1040 (3588 Model F4A) Ultrium 4 - Fibre Channel	IBM~~~~~ULT3580-TD4	KMS, SResv, SPR, WORM	6.1	11.31	10, 11	10, 11
System Storage TS1050 (3588 Model F5A) Ultrium 5 - Fibre Channel	IBM~~~~~ULT3580-TD5	KMS, SResv, SPR, WORM	6.1	11.31	10, 11	10, 11
System Storage TS1060 (3588 Model F6A) Ultrium 6 - Fibre Channel	IBM~~~~~ULT3580-TD6	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
System Storage TS1070 (3588 Model F7A) Ultrium 7 - Fibre Channel	IBM~~~~~ULT3580-TD7	KMS, SResv, SPR, WORM	6.1, 7.1	No	10, 11	10, 11
System Storage TS1120 (3592 Model E05) - Fibre Channel	IBM~~~~~03592E05	SPR, WORM	6.1	11.31	10, 11	10, 11
System Storage TS1130 (3592 Model E06) - Fibre Channel	IBM~~~~~03592E06	WORM	6.1	11.31	10, 11	10, 11
System Storage TS1140 (3592 Model E07) - Fibre Channel	IBM~~~~~03592E07	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
System Storage TS1150 (3592 Model E08) - Fibre Channel	IBM~~~~~03592E08	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
System Storage TS2230 Ultrium 3 Half Height - SAS	IBM~~~~~ULT3580-HH3	WORM	6.1	11.31	10, 11	10, 11
System Storage TS2230 Ultrium 3 Half Height - SCSI	IBM~~~~~ULT3580-HH3	WORM	6.1	11.31	10	10
System Storage TS2240 Ultrium 4 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH4	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
System Storage TS2240 Ultrium 4 Half Height - SAS	IBM~~~~~ULT3580-HH4	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
System Storage TS2250 Ultrium 5 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH5	Append, KMS, SResv, SPR, WORM	6.1	11.31	10, 11	10, 11
System Storage TS2250 Ultrium 5 Half Height - SAS	IBM~~~~~ULT3580-HH5	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11

IBM - Support with UNIX

Device - Interface	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
System Storage TS2260 Ultrium 6 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH6	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
System Storage TS2260 Ultrium 6 Half Height - SAS	IBM~~~~~ULT3580-HH6	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10	10, 11
System Storage TS2270 Ultrium 7 Half Height - Fibre Channel	IBM~~~~~ULT3580-HH7	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
System Storage TS2270 Ultrium 7 Half Height - SAS	IBM~~~~~ULT3580-HH7	KMS, WORM	6.1, 7.1	11.31	10, 11	10, 11
System Storage TS2340 Ultrium 4 - Fibre Channel	IBM~~~~~ULT3580-TD4	KMS, SResv, SPR, WORM	6.1	11.31	10, 11	10, 11
System Storage TS2340 Ultrium 4 - SAS	IBM~~~~~ULT3580-TD4	KMS, SResv, SPR, WORM	6.1	11.31	10, 11	11
System Storage TS2340 Ultrium 4 - SCSI	IBM~~~~~ULT3580-TD4	WORM	6.1	11.31	10	10
System Storage TS2350 Ultrium 5 - Fibre Channel	IBM~~~~~ULT3580-TD5	KMS, SResv, SPR, WORM	6.1	11.31	10, 11	10, 11
System Storage TS2350 Ultrium 5 - SAS	IBM~~~~~ULT3580-TD5	KMS, SResv, SPR, WORM	6.1	11.31	10, 11	10, 11
System Storage TS2360 Ultrium 6 - Fibre Channel	IBM~~~~~ULT3580-TD6	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
System Storage TS2360 Ultrium 6 - SAS	IBM~~~~~ULT3580-TD6	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10
System Storage TS2370 Ultrium 7 - Fibre Channel	IBM~~~~~ULT3580-TD7	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
TotalStorage 3580 Ultrium 3 - Fibre Channel [1]	IBM~~~~~ULT3580-TD3	SPR, WORM	6.1	11.31	10, 11	10, 11
TotalStorage 3580 Ultrium 3 - SCSI	IBM~~~~~ULT3580-TD3	WORM	6.1	11.31	10	10
Ultrium 3 - Fibre Channel [1]	IBM~~~~~ULTRIUM-TD3	SPR, WORM	6.1	11.31	10, 11	10, 11
Ultrium 3 - SCSI	IBM~~~~~ULTRIUM-TD3	WORM	6.1	11.31	10	10
Ultrium 3 Half Height - SAS	IBM~~~~~ULTRIUM-HH3	WORM	6.1	11.31	10, 11	10, 11
Ultrium 3 Half Height - SCSI	IBM~~~~~ULTRIUM-HH3	WORM	6.1	11.31	10	10
Ultrium 4 (U160) - SCSI	IBM~~~~~ULTRIUM-TD4	WORM	6.1	11.31	10	10
Ultrium 4 - Fibre Channel	IBM~~~~~ULTRIUM-TD4	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11

IBM - Support with UNIX

Device - Interface	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
Ultrium 4 - SAS	IBM~~~~ULTRIUM-TD4	KMS, SResv, SPR, WORM	6.1	11.31	10	No
Ultrium 4 Half Height - Fibre Channel	IBM~~~~ULTRIUM-HH4	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
Ultrium 4 Half Height - SAS	IBM~~~~ULTRIUM-HH4	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	No
Ultrium 5 - Fibre Channel	IBM~~~~ULTRIUM-TD5		6.1, 7.1	11.31	10, 11	10, 11
Ultrium 5 - SAS	IBM~~~~ULTRIUM-TD5	KMS, SResv, SPR, WORM	6.1	11.31	10, 11	10, 11
Ultrium 5 Half Height - Fibre Channel	IBM~~~~ULTRIUM-HH5	Append, KMS, SResv, SPR, WORM	6.1	11.31	10, 11	10, 11
Ultrium 5 Half Height - SAS	IBM~~~~ULTRIUM-HH5	KMS, SResv, SPR, WORM	6.1	11.31	10, 11	10, 11
Ultrium 6 - Fibre Channel	IBM~~~~ULTRIUM-TD6	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
Ultrium 6 - SAS	IBM~~~~ULTRIUM-TD6	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10
Ultrium 6 Half Height - Fibre Channel	IBM~~~~ULTRIUM-HH6	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
Ultrium 6 Half Height - SAS	IBM~~~~ULTRIUM-HH6	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
Ultrium 7 - Fibre Channel	IBM~~~~ULTRIUM-TD7	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
Ultrium 7 - SAS	IBM~~~~ULTRIUM-TD7		No	No	10, 11	10, 11
Ultrium 7 Half Height - Fibre Channel	IBM~~~~ULTRIUM-HH7	KMS, SResv, SPR, WORM	6.1, 7.1	11.31	10, 11	10, 11
Ultrium 7 Half Height - SAS	IBM~~~~ULTRIUM-HH7	KMS, WORM	6.1, 7.1	11.31	10, 11	10, 11

1. 4Gb Fibre Channel supported.

IBM Tape Driver Support

The latest versions of the IBM tape device driver packages that have been tested with NetBackup are listed below. Using the version listed here is recommended, but older versions of the tape drivers are also supported and may work well. There is no need to upgrade the tape driver if the configuration is working properly. Upgrading to the version listed here may be necessary if implementing the latest model tape drives or if problems are encountered that have been addressed by the driver provider.

AIX was tested using the IBM Atape device drivers.

- Atape 13.0.8.0 driver tested on AIX 6.1, 7.1, and 7.2. NetBackup does not support the driver's Data Path Failover feature.

HP-UX was tested using the IBM atdd device drivers. Some HP-UX testing has also been done with the native stape/estape drivers. Veritas support, using the stape/estape drivers for IBM tape drive models, is limited to those that are supported natively by the HP-UX stape/estape drivers.

- atdd 6.0.2.8 driver tested on HP-UX 11.31 IA64 **and is the minimum driver version supported.** atdd kernel parameters must be set to allow NetBackup to handle SCSI reservations and disable load balancing in multi-path configurations.

Note: The "ULTRIUM-TD" and the "ULT3580-TD" inquiry strings are interchangeable (both are supported), unless noted otherwise. The "ULTRIUM-HH" and the "ULT3580-HH" inquiry strings are interchangeable (both are supported), unless noted otherwise.

Oracle

Oracle - Support with NetBackup Appliance

Device - Interface	Inquiry String	Attributes	5200 Series	5300 Series
StorageTek T9840D - Fibre Channel	STK^^^^T9840D	SResv, SPR, WORM	Yes	Yes
StorageTek T10000B - Fibre Channel	STK^^^^T10000B	SResv, SPR, WORM	Yes	Yes
StorageTek T10000C - Fibre Channel [1]	STK^^^^T10000C	KMS, SResv, SPR, WORM	Yes	Yes
StorageTek T10000D - Fibre Channel [1]	STK^^^^T10000D	KMS, SResv, SPR, WORM	Yes	Yes

1. Oracle's Tape Application Accelerator is supported with this device. NetBackup does not interact with this feature.

Oracle - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	Red Hat Enterprise Linux on zArch	SUSE Linux Enterprise Server on x86-64
StorageTek T9840D - Fibre Channel	STK^^^^T9840D	SResv, SPR, WORM	Enterprise Edition	No	No	5, 6, 7	5	11, 12
StorageTek T10000B - Fibre Channel	STK^^^^T10000B	SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	5	11, 12
StorageTek T10000C - Fibre Channel [1]	STK^^^^T10000C	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	5	11, 12
StorageTek T10000D - Fibre Channel [1]	STK^^^^T10000D	KMS, SResv, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	No	11, 12
VDrive - Fibre Channel	"STK^^^^VDRIVE	SResv	Datacenter Edition, Enterprise Edition	Datacenter	No	7	No	No

1. Oracle's Tape Application Accelerator is supported with this device. NetBackup does not interact with this feature.

Oracle - Support with UNIX

Device - Interface	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
StorageTek T9840D - Fibre Channel	STK^^^^T9840D		6.1	11.31	10, 11	10, 11
StorageTek T10000B - Fibre Channel	STK^^^^T10000B		6.1, 7.1	11.31	10, 11	10, 11
StorageTek T10000C - Fibre Channel [1]	STK^^^^T10000C	KMS, SPR	6.1, 7.1	11.31	10, 11	10, 11
StorageTek T10000D - Fibre Channel [1]	STK^^^^T10000D	KMS, SResv, SPR	6.1, 7.1	11.31	10, 11	10, 11
VDrive - Fibre Channel	"STK^^^^VDRIVE	SResv	No	No	10, 11	No

1. Oracle's Tape Application Accelerator is supported with this device. NetBackup does not interact with this feature.

Quantum

Quantum - Support with NetBackup Appliance

Device - Interface	Inquiry String	Attributes	5200 Series	5300 Series
DLT-S4 - Fibre Channel	QUANTUM^DLT-S4	SResv, SPR, WORM	Yes	Yes
LTO-3 HH - Fibre Channel	QUANTUM^ULTRIUM^3	SResv	Yes	Yes
LTO-5 FH - SAS	QUANTUM^ULTRIUM^5	KMS, WORM	Yes [1]	No
LTO-5 HH - SAS	QUANTUM^ULTRIUM^5	KMS, WORM	Yes [1]	No
LTO-6 HH - SAS	QUANTUM^ULTRIUM^6	KMS, WORM	Yes [1]	No
SDLT 600 - Fibre Channel	QUANTUM^SDLT600	SResv, SPR	Yes	Yes

1. Requires the Veritas-supplied SAS tape-out adapter in a NetBackup 5240 Series Appliance running version 3.1 or later.

Quantum - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
DLT-S4 - Fibre Channel	QUANTUM^DLT-S4	SResv, SPR, WORM	Enterprise Edition	No	No	5, 6, 7	11, 12
DLT-S4 - SCSI	QUANTUM^DLT-S4	WORM	Enterprise Edition	No	No	5, 6	11
LTO-3 - SCSI	CERTANCEULTRIUM^3		Enterprise Edition	No	No	5, 6	11
LTO-3 HH - Fibre Channel	QUANTUM^ULTRIUM^3		Enterprise Edition	No	No	5, 6	No
LTO-3 HH - SAS	QUANTUM^ULTRIUM^3		Enterprise Edition	No	No	5, 6	11

Quantum - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
LTO-3 HH - SCSI	QUANTUM^ULTRIUM^3		Enterprise Edition	No	No	5, 6	11
LTO-4 HH - SAS	QUANTUM^ULTRIUM^4	KMS, WORM	Enterprise Edition	Datacenter	Datacenter	No	11
LTO-5 FH - SAS	QUANTUM^ULTRIUM^5	KMS, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
LTO-5 HH - SAS	QUANTUM^ULTRIUM^5	KMS, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
LTO-6 HH - SAS	QUANTUM^ULTRIUM^6	KMS, WORM	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11, 12
SDLT 320 - SCSI	QUANTUM^SDLT320		Enterprise Edition	No	No	5, 6	11
SDLT 600 - Fibre Channel	QUANTUM^SDLT600	SPR	No	No	No	5, 6	11
SDLT 600 - SCSI	QUANTUM^SDLT600		Enterprise Edition	No	No	5, 6	11
Ultrium 4 HH - SAS	QUANTUM^ULTRIUM-HH4	KMS, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	No
Ultrium 5 HH - SAS	QUANTUM^ULTRIUM-HH5	KMS, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	No
Ultrium 6 HH - SAS	QUANTUM^ULTRIUM-HH6	KMS, SPR, WORM	Enterprise Edition	Datacenter	Datacenter	No	No
Ultrium 7 HH - SAS	QUANTUM^ULTRIUM-HH7	KMS, WORM	Enterprise Edition	Datacenter	Datacenter	No	No
Ultrium 8 HH - SAS [1]	QUANTUM^ULTRIUM-HH8	KMS, WORM	No	Datacenter	Datacenter	6, 7	No

1. LTO-8 Type M media (M8) are not supported with NetBackup at this time.

Quantum - Support with UNIX

Device - Interface	Inquiry String	Attributes	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
DLT-S4 - Fibre Channel	QUANTUM^DLT-S4	SPR, WORM	6.1	11.31 [1]	10	10 [2]
DLT-S4 - SCSI	QUANTUM^DLT-S4	WORM	6.1	No	10	10
LTO-3 - SCSI	CERTANCEULTRIUM^3		6.1	11.31	10	10
LTO-3 HH - Fibre Channel	QUANTUM^ULTRIUM^3		No	No	10	No
LTO-3 HH - SCSI	QUANTUM^ULTRIUM^3		6.1	11.31	10	10
LTO-5 FH - SAS	QUANTUM^ULTRIUM^5	SPR, WORM	No	No	10, 11	10, 11
LTO-5 HH - SAS	QUANTUM^ULTRIUM^5	SPR, WORM	No	No	10, 11	10, 11
LTO-6 HH - SAS	QUANTUM^ULTRIUM^6	KMS, WORM	No	11.31	10, 11	10, 11
SDLT 320 - SCSI	QUANTUM^SDLT320		6.1	11.31	10	10
SDLT 600 - Fibre Channel	QUANTUM^SDLT600	SPR	No	11.31	No	10
SDLT 600 - SCSI	QUANTUM^SDLT600		6.1	11.31	10	10

1. Fibre Channel resume logic is not supported on HP-UX.
2. Fibre Channel resume logic is not supported on Solaris x64.

Tandberg

Tandberg - Support with NetBackup Appliance

Device - Interface	Inquiry String	Attributes	5200 Series
HH LTO 5 - SAS	TANDBERGLTO-5^HH	KMS, WORM	Yes [1]
HH LTO 6 - SAS	TANDBERGLTO-6^HH	KMS, WORM	Yes [1]

1. Requires the Veritas-supplied SAS tape-out adapter in a NetBackup 5240 Series Appliance running version 3.1 or later.

Tandberg - Support with Windows / Linux

Device - Interface	Inquiry String	Attributes	Windows Server 2008 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
HH LTO 3 - SAS	TANDBERGLTO-3^HH		Enterprise Edition	No	5, 6	No
HH LTO 4 - SAS	TANDBERGLTO-4^HH		Enterprise Edition	Datacenter	5, 6, 7	11, 12
HH LTO 5 - SAS	TANDBERGLTO-5^HH	KMS, SPR, WORM	Enterprise Edition	Datacenter	5, 6, 7	11, 12
HH LTO 6 - SAS	TANDBERGLTO-6^HH	KMS, WORM	No	Datacenter	5, 6, 7	11, 12
SDLT 320 - SCSI	TANDBERGSDLT320		No	No	5, 6	No

Tandberg - Support with UNIX

Device - Interface	Inquiry String	Attributes	AIX on POWER	Solaris on SPARC	Solaris on x86-64
HH LTO 5 - SAS	TANDBERGLTO-5^HH	KMS, SPR, WORM	No	10	10
SDLT 320 - SCSI	TANDBERGSDLT320		6.1	10	No

NDMP Devices

NDMP device support information is listed below, organized by vendor. The tables provide information on the versions of software tested, supported connection methods and functionality, and other important notes about the hardware and its compatibility.

For information about Operating Systems supported with NDMP, see the NDMP column in the NetBackup Server section for each OS platform in the "[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List](http://www.veritas.com/docs/000115691)" <<http://www.veritas.com/docs/000115691>> .

For NetBackup for NDMP vendor-specific configuration information, refer to "[NetBackup for NDMP: NAS appliance information](http://www.veritas.com/docs/000027113)" <<http://www.veritas.com/docs/000027113>> .

Minor ("double-dot") versions of the software listed in the tables below are also supported. (Example: "v5.0" means versions v5.0.1, v5.0.2, etc. are also supported.)

IPv6 is supported

64-bit inode numbers are supported.

Wildcard characters can be used in regular expressions or the directive ALL_FILESYSTEMS to specify path names in NDMP policy backup selections. For more information on the use of wildcard characters, see the "[NetBackup for NDMP Administrator's Guide](http://www.veritas.com/docs/000003214)" <<http://www.veritas.com/docs/000003214>> .

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Methods](#)

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NDMP Devices - Connection Methods

The following table describes the supported NDMP connection methods.

Connection Method	Description
Direct-attach	Data travels from disk to a tape device on the same NDMP host, or from disk to tape device on a SAN. Backup data is NOT sent over local network. NOTE: The tape drives must be in NDMP-type storage units.
Remote	Data travels from the NDMP host, across the local network to a NetBackup media server, to a storage unit connected to the NetBackup media server.
3-way	Data travels from disk on an NDMP host to a tape device on another NDMP host. Backup data is sent over the local network. NOTE: The tape drives must be in NDMP-type storage units.

NDMP Devices - Vendor Compatibility

Contents

<u>Data Domain</u>	<u>Dell</u>	<u>EMC</u>
<u>Hewlett Packard Enterprise</u>	<u>Hitachi</u>	<u>Huawei</u>
<u>IBM</u>	<u>Imation</u>	<u>Isilon</u>
<u>Mirapoint</u>	<u>NEC</u>	<u>NetApp</u>
<u>Nexenta</u>	<u>Oracle</u>	<u>Stratus Technologies</u>

Data Domain

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
Appliance series	DDOS 5.0, DDOS 5.1, DDOS 5.3, DDOS 5.4	3-way Target	Yes	Yes	Yes	All models in the Appliance Series are supported. Configure as NDMP Tape Server.

Dell

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
Compellent FS8600	FluidFS 2.0, FluidFS 3.0, FluidFS 4.0, FluidFS 5.0	Remote, 3-way	Yes	Yes	No	TYPE=tar environment variable must be set. TYPE=dump backups are not supported.
DR Series	Dell OS 3.2	3-way Target	Yes	Yes	No	
EqualLogic FS7500	FluidFS 2.0, FluidFS 3.0, Scalable File System 1.0	Remote, 3-way	Yes	Yes	No	TYPE=tar environment variable must be set. TYPE=dump backups are not supported.
EqualLogic FS7600	FluidFS 2.0, FluidFS 3.0	Remote, 3-way	Yes	Yes	No	TYPE=tar environment variable must be set. TYPE=dump backups are not supported.

Dell

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
EqualLogic FS7610	FluidFS 2.0, FluidFS 3.0	Remote, 3-way	Yes	Yes	No	TYPE=tar environment variable must be set. TYPE=dump backups are not supported.
PowerVault NX3500	FluidFS 2.0, FluidFS 3.0, Scalable File System 1.0	Remote, 3-way	Yes	Yes	No	TYPE=tar environment variable must be set. TYPE=dump backups are not supported.
PowerVault NX3600	FluidFS 2.0, FluidFS 3.0	Remote, 3-way	Yes	Yes	No	TYPE=tar environment variable must be set. TYPE=dump backups are not supported.
PowerVault NX3610	FluidFS 2.0, FluidFS 3.0	Remote, 3-way	Yes	Yes	No	TYPE=tar environment variable must be set. TYPE=dump backups are not supported.

EMC

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
Celerra series	DART 5.1, DART 5.2, DART 5.3, DART 5.4, DART 5.5, DART 5.6, DART 6.0	Direct-attach, Remote, 3-way	Yes	Yes	Yes	For a list of compatible tape drives and libraries, see EMC's device support matrices. TYPE=tar backups are not recommended with this device. For more information, see <http://www.veritas.com/docs/000095049.>
Unity series	Unity Operating Environment 4.1, Unity Operating Environment 4.2	Remote, 3-way	Yes	Yes	No	For a list of compatible tape drives and libraries, see EMC's device support matrices.

EMC

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
VNX2 series	VNX File 8.1	Direct-attach, Remote, 3-way	Yes	Yes	Yes	"Incremental forever" backups are supported with this device via the "LEVEL=10" environment variable. For more information on environment variables, see the device vendor's documentation. All models in the EMC VNX2 Series are supported (VNX5200, VNX5400, VNX5600, VNX5800, VNX7600, VNX8000). For a list of compatible tape drives and libraries, see EMC's device support matrices. TYPE=tar backups are not recommended with this device. For more information, see VNX><http://www.veritas.com/docs/000095049. VNX> File 8.1 software requires hotfix 8.1.2.510.
VNX2e series	VNXe Operating Environment v3.1	Remote, 3-way	Yes	Yes	Yes	All models in the EMC VNX2e Series are supported (VNXe3200). For a list of compatible tape drives and libraries, see EMC's device support matrices. TYPE=tar backups are not recommended with this device. For more information, see <http://www.veritas.com/docs/000095049.
VNXe series	VNXe Operating Environment v2.0	Remote, 3-way	Yes	Yes	Yes	All models in the EMC VNXe Series are supported (VNXe3100, VNXe3150, VNXe3300). For a list of compatible tape drives and libraries, see EMC's device support matrices. TYPE=tar backups are not recommended with this device. For more information, see <http://www.veritas.com/docs/000095049.

EMC

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
VNX series	VNX File 7.0, VNX File 7.1	Direct-attach, Remote, 3-way	Yes	Yes	Yes	"Incremental forever" backups are supported with this device via the "LEVEL=10" environment variable. For more information on environment variables, see the device vendor's documentation. All models in the EMC VNX Series are supported (VNX5100, VNX5300, VNX5500, VNX5700, VNX7500). For a list of compatible tape drives and libraries, see EMC's device support matrices. TYPE=tar backups are not recommended with this device. For more information, see <http://www.veritas.com/docs/000095049.>

Hewlett Packard Enterprise

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
X9000 Network Storage Systems series	IBRIX_X9000 5.5, IBRIX_X9000 6.0	Direct-attach, Remote, 3-way	Yes	Yes	No	All models in the Hewlett Packard Enterprise X9000 Network Storage Systems family are supported (X9300, X9320, X9720).

Hitachi

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
Data Ingestor (HDI)	FOS 3.2, FOS 4.0, FOS 5.0, FOS 6.0, FOS 6.1	Direct-attach, Remote, 3-way	Yes	Yes	No	
NAS Platform (HNAS)	Hitachi NAS OS 11, Hitachi NAS OS 12, Hitachi NAS OS 13	Direct-attach, Remote, 3-way	Yes	Yes	Yes	"Incremental forever" backups are supported with this device via the "LEVEL=i" environment variable. For more information on environment variables, see the device vendor's documentation. SCSI reservation is not enabled by default. Please refer to Hitachi's documentation for details on enabling this setting in an SSO configuration. Single-dot versions of the software listed are also supported. (Example: "HDS HNAS OS 11" means HDS HNAS versions 11.0, 11.1, 11.2, etc. are also supported.)
Virtual File Platform (VFP)	FOS 3.2, FOS 4.0, FOS 5.0, FOS 6.0, FOS 6.1	Direct-attach, Remote, 3-way	Yes	Yes	No	

Huawei

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
N8000 series	FileStore 5.5	Remote, 3-way	Yes	Yes	No	
OceanStor	OS 1.0	Direct-attach, Remote, 3-way	Yes	Yes	Yes	All models in the OceanStor V3 and V5 Converged Storage Series are supported (2600 V3, 5300 V3, 5300 V5, 5500 V3, 5500 V5, 5600 V3, 5600 V5, 5800 V3, 5800 V5, 6800 V3, 6800 V5, 6900 V3, 18500 V3, 18500 V5, 18800 V3, 18800 V5).

IBM

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
Scale Out Network Attached Storage (SONAS)	IBM OS 1.2, IBM OS 1.3, IBM OS 1.4, IBM OS 1.5	Remote, 3-way	Yes	Yes	No	Version 1.2 requires PTF2 or later.
Storwize series	IBM OS 1.3, IBM OS 1.5	Remote, 3-way	Yes	Yes	No	
System Storage N series	Data ONTAP 7.1, Data ONTAP 7.2, Data ONTAP 7.3, Data ONTAP 8.0 (7-Mode), Data ONTAP 8.0 (Cluster Mode), Data ONTAP 8.1 (7-Mode), Data ONTAP 8.1 (Cluster Mode)	Direct-attach, Remote, 3-way	Yes	Yes	Yes	"Incremental forever" backups are supported with this device via the "LEVEL=99" environment variable. For more information on environment variables, see the device vendor's documentation. Data ONTAP version 8.x (7-mode) supports MultiStore (vFiler) with Remote NDMP and 3-way NDMP connection methods. Data ONTAP version 8.x (7-mode) supports NetBackup Advanced Client NAS Snapshot.

Imation

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
Nexsan NST2000	NestOS 3.1, NestOS 3.2, Unity 2.0	Remote, 3-way	Yes	Yes	No	Unity 2.0 software requires version 2.0.4 or later.
Nexsan NST4000	NestOS 3.1, NestOS 3.2, Unity 2.0	Remote, 3-way	Yes	Yes	No	Unity 2.0 software requires version 2.0.4 or later.
Nexsan NST5000	NestOS 2.1, NestOS 3.1, NestOS 3.2, Unity 2.0	Remote, 3-way	Yes	Yes	No	Unity 2.0 software requires version 2.0.4 or later.
Nexsan NST6000	NestOS 3.1, NestOS 3.2, Unity 2.0	Remote, 3-way	Yes	Yes	No	Unity 2.0 software requires version 2.0.4 or later.

Isilon

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
Scale-Out NAS	OneFS 7.1, OneFS 7.2, OneFS 8.0	Direct-attach, Remote, 3-way	Yes	Yes	Yes	"Incremental forever" backups are supported with this device via the "LEVEL=10" environment variable. For more information on environment variables, see the device vendor's documentation. For information on OneFS version compatibility with IQ Storage, HD-Series, N-Series, S-Series, and X-Series models, see the "Isilon Supportability and Compatibility Guide" on the vendor's website. Supported with Accelerator with NDMP with NetBackup 8.1 or later and OneFS versions 7.1 or later. The EMC Isilon A100 Backup Accelerator is supported with this device. The Scale-Out NAS line was previously known as IQ Storage.

Mirapoint

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
Message Server series	MOS 4.0, MOS 4.1	Direct-attach, Remote, 3-way	No	No	No	Remote, 3-way: Supports all NetBackup-supported drives and libraries. Direct-attach: See Mirapoint's device support matrices for a list of compatible tape drives and libraries. Tape drives used with the Direct-attach connection method must be dedicated to the NDMP device.
RazorGate series	MOS 4.0, MOS 4.1	Direct-attach, Remote, 3-way	No	No	No	Remote, 3-way: Supports all NetBackup-supported drives and libraries. Direct-attach: See Mirapoint's device support matrices for a list of compatible tape drives and libraries. Tape drives used with the Direct-attach connection method must be dedicated to the NDMP device.

NEC

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
NH4a	FOS 4.0	Direct-attach, Remote, 3-way	Yes	Yes	No	
NH4b	FOS 5.0	Direct-attach, Remote, 3-way	Yes	Yes	No	
NH8a	FOS 4.0	Direct-attach, Remote, 3-way	Yes	Yes	No	
NH8b	FOS 5.0	Direct-attach, Remote, 3-way	Yes	Yes	No	
NV series	SC-LX 5.1, SC-LX 6.1, SC-LX 6.2	Direct-attach, Remote, 3-way	Yes	Yes	No	Known issue with SC-LX 6.1: NV Series may not retain the original user id/group id of restored softlink files. This has been fixed in SC-LX 6.2.

NetApp

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
FAS and V series	Data ONTAP v7.1, Data ONTAP v7.2, Data ONTAP v7.3, Data ONTAP v8.0 (7-Mode), Data ONTAP v8.0 (Cluster-Mode), Data ONTAP v8.1 (7-Mode), Data ONTAP v8.1 (Cluster-Mode), Data ONTAP v8.2 (7-Mode), Data ONTAP v8.2 (Cluster-Mode), Data ONTAP v8.3 (Clustered), Data ONTAP v9.0, Data ONTAP v9.1, Data ONTAP v9.2	Direct-attach, Remote, 3-way	Yes	Yes	Yes	"Incremental forever" backups are supported with this device via the "LEVEL=99" environment variable. For more information on environment variables, see the device vendor's documentation. Cluster Aware Backup (CAB) is supported in NetApp Clustered Data ONTAP (cDOT) environments. For more information, see the NDMP Administrator's Guide. Data ONTAP versions 8.0 - 8.2 (7-mode) support MultiStore (vFiler) with Remote NDMP and 3-way NDMP connection methods. Data ONTAP versions 8.0 - 8.2 (7-mode) support NetBackup Advanced Client NAS Snapshot. Data ONTAP versions 8.3 and later do not support 7-mode. Supported with Accelerator with NDMP. Supports wildcard characters for backup selections lower than the volume level with all listed Data ONTAP versions except v8.0 through v8.2 (Cluster-mode).
GX series	Data ONTAP v10.0	Direct-attach, Remote, 3-way	Yes	No	Yes	Does not support Auto Discovery. To manually configure this device, please see <http://www.veritas.com/docs/000027113>

Nexenta

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
NexentaStor	NexentaStor 4.0.3, NexentaStor 5.1	Direct-attach, Remote, 3-way	Yes	Yes	Yes	NexentaStor 4.0.3 software requires fix pack 3 or later.

Oracle

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
Axiom series	Pillar OS 2.3, Pillar OS 3.2, Pillar OS 4.0	Direct-attach, Remote	Yes	Yes	No	Tape drives used with the Direct-attach connection method must be dedicated to the NDMP device. Version 2.3 does not support Directory Direct Access Restore or NetBackup Shared Storage Option.
Solaris Server (SPARC and x86-64)	Solaris 11	Direct-attach, Remote, 3-way	Yes	Yes	Yes	
ZFS Storage Appliance series	Oracle OS 2011.04.24, Oracle OS 2013.06.05	Direct-attach, Remote, 3-way	Yes	Yes	Yes	All models in the ZFS Storage 7000 (7x10 and 7x20) and ZS (ZS3-x, ZS4-x, and ZS5-x) Unified Storage System families are supported.

Stratus Technologies

Device	Software	Connection Method	Direct Access Restore	Directory Direct Access Restore	NetBackup Shared Storage Option	Notes
V Series	OpenVOS 17.0, OpenVOS 17.1	Remote	Yes	Yes	No	

Encryption and Security Solutions

Encryption and security solution support information is listed below, organized by solution type.

The following listings do not include specific operating system compatibility. For a list of supported NetBackup Media Server platforms, refer to the "[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List](http://www.veritas.com/docs/000115691)" <<http://www.veritas.com/docs/000115691>> .

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[NetBackup Key Management Service \(KMS\)](#)

[NetBackup Media Server Encryption Option \(MSEO\)](#)

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NetBackup Key Management Service (KMS)

The NetBackup Key Management Service (KMS) feature is intended to support any tape drive with built-in hardware encryption capability that conforms to the SCSI T10 encryption standard. Each drive model listed in the following table has been tested in Veritas labs to verify that it works with NetBackup correctly, so Veritas recommends using only listed drives with the KMS feature. Refer to the [Tape Drives](#) section in this document for the list of platforms and interfaces on which each of the following drives is supported.

Note: KMS is supported on any tape library supported by NetBackup, provided the library vendor supports that library with any of the encryption-capable drives listed in the table below.

NetBackup KMS - Supported Devices

Manufacturer	Model	Notes
Dell	PowerVault LTO4-120	
Dell	PowerVault LTO5-140	
Hewlett Packard Enterprise	Ultrium 1760 LTO4	
Hewlett Packard Enterprise	Ultrium 1840 LTO4	
Hewlett Packard Enterprise	Ultrium 3000 LTO5	
Hewlett Packard Enterprise	Ultrium 3280 LTO5	
Hewlett Packard Enterprise	Ultrium 6250 LTO6	

NetBackup KMS - Supported Devices

Manufacturer	Model	Notes
Hewlett Packard Enterprise	Ultrium 6650 LTO6	
Hewlett Packard Enterprise	Ultrium 15000 LTO7	
Hewlett Packard Enterprise	Ultrium 15750 LTO7	
IBM	System Storage TS1040 Ultrium 4	Requires firmware version 7BG2 or later.
IBM	System Storage TS1050 Ultrium 5	
IBM	System Storage TS1060 Ultrium 6	
IBM	System Storage TS1070 Ultrium 7	
IBM	System Storage TS1120 (3592 Model E05)	Requires firmware version 1C15 or later.
IBM	System Storage TS1130 (3592 Model E06)	Requires firmware version 2480 or later.
IBM	System Storage TS1140 (3592 Model E07)	
IBM	System Storage TS1150 (3592 Model E08)	
IBM	System Storage TS2240 Ultrium 4 Half Height	
IBM	System Storage TS2250 Ultrium 5 Half Height	
IBM	System Storage TS2260 Ultrium 6 Half Height	
IBM	System Storage TS2270 Ultrium 7 Half Height	
IBM	System Storage TS2340 Ultrium 4	Requires firmware version 7BG2 or later.
IBM	System Storage TS2350 Ultrium 5	
IBM	System Storage TS2360 Ultrium 6	
IBM	System Storage TS2370 Ultrium 7	
IBM	Ultrium 4 (OEM)	Requires firmware version 7BG2 or later.
IBM	Ultrium 4 Half Height (OEM)	
IBM	Ultrium 5 (OEM)	
IBM	Ultrium 5 Half Height (OEM)	
IBM	Ultrium 6 (OEM)	
IBM	Ultrium 6 Half Height (OEM)	
IBM	Ultrium 7 (OEM)	

NetBackup KMS - Supported Devices

Manufacturer	Model	Notes
IBM	Ultrium 7 Half Height (OEM)	
Oracle StorageTek	T10000B	Requires firmware version 1.41.211 or later.
Oracle StorageTek	T10000C	Requires firmware version 1.53.311 or later. The drive needs manual setup including obtaining the data path key management (DPKM) encryption license from Oracle.
Oracle StorageTek	T10000D	
Quantum	LTO-4 HH	Requires firmware version 2190 or later.
Quantum	LTO-5 FH	
Quantum	LTO-5 HH	
Quantum	LTO-6 HH	
Quantum	LTO-7 HH	
Tandberg	HH LTO 5	

NetBackup Media Server Encryption Option (MSEO)

The NetBackup Media Server Encryption Option (MSEO) feature supports the tape drive models listed in the following table. For a list of NetBackup Media Server platforms that support MSEO, refer to the "[NetBackup 8.0 - 8.x.x Operating System Software Compatibility List](http://www.veritas.com/docs/000115691)" <<http://www.veritas.com/docs/000115691>> . Refer to the [Tape Drives](#) section in this document for the list of platforms on which each of the following drives is supported.

NetBackup MSEO - Supported Devices

Manufacturer	Models	Interface	Notes
Dell	PowerVault LTO5-140 FH	Fibre Channel	
Dell	PV110T LTO2, PV110T SDLT320	SCSI	
Hewlett Packard Enterprise	Ultrium 460 LTO2, Ultrium 960 LTO3, Ultrium 1760 LTO4, Ultrium 1840 LTO4, Ultrium 3000 LTO5, Ultrium 3280 LTO5, Ultrium 6250 LTO6, Ultrium 6650 LTO6	Fibre Channel	

NetBackup MSEO - Supported Devices

Manufacturer	Models	Interface	Notes
Hewlett Packard Enterprise	SDLT600, Ultrium 448 LTO2, Ultrium 460 LTO2, Ultrium 920 LTO3, Ultrium 960 LTO3, Ultrium 1760 LTO4, Ultrium 1840 LTO4	SCSI	
IBM	System Storage TS1030 Ultrium 3, System Storage TS1040 Ultrium 4, System Storage TS1050 Ultrium 5, System Storage TS1060 Ultrium 6, System Storage TS1120 (3592 Model E05), System Storage TS2340 Ultrium 4, System Storage TS2350 Ultrium 5, System Storage TS2360 Ultrium 6, TotalStorage 3580 Ultrium 2, TotalStorage 3580 Ultrium 3, TotalStorage 3590E Series, TotalStorage 3590H Series, TotalStorage 3592 Model J1A, Ultrium 2 (OEM), Ultrium 3 (OEM), Ultrium 4 (OEM), Ultrium 5 (OEM), Ultrium 6 (OEM)	Fibre Channel	
IBM	System Storage TS2230 Ultrium 3 Half Height, System Storage TS2340 Ultrium 4, TotalStorage 3580 Ultrium 2, TotalStorage 3580 Ultrium 3, TotalStorage 3590E Series, TotalStorage 3590H Series, Ultrium 2 (OEM), Ultrium 3 (OEM), Ultrium 4 (OEM)	SCSI	
Oracle	T10000D	Fibre Channel	For maximum blocksize considerations with these drives, refer to the "Managing Tape Blocks" section of the "NetBackup Media Server Encryption Option (MSEO) Admin Guide" < http://www.veritas.com/docs/000004003 > .
Quantum	LTO-3 HH, SDLT 600	Fibre Channel	
Quantum	LTO-2, LTO-2 HH, LTO-3, LTO-3 HH, SDLT 320, SDLT 600	SCSI	
Sun	StorEdge LTO3	Fibre Channel	
Sun	LTO3 HH, StorEdge LTO2, StorEdge LTO3, StorEdge SDLT 320	SCSI	
Tandberg	SDLT 320	SCSI	

NetBackup Client Encryption

NetBackup Client Encryption is compatible with all disk storage units (DSU), tape drives, tape libraries, and virtual tape libraries supported by NetBackup.

Note: Any DSU type supported by NetBackup can be used with client encryption, although encryption prevents deduplication by Media Server Dedupe, OpenStorage devices, or VTLs.

NetBackup Client Encryption is supported on all NetBackup client platforms except OpenVMS, and is not supported with BMR or SAN client.

Third-Party Encryption Solutions

Support information for vendor-supplied encryption solutions is listed below, organized by vendor. Under each vendor there is a table showing tested solutions, firmware versions tested with that solution, and other important notes about the solution and its compatibility.

The firmware listed in these tables is the firmware that has been tested. Firmware versions newer than those listed are also supported.

Support for specific storage devices such as tape drives, libraries, and virtual devices is not listed in this section. NetBackup will support any hardware that is supported both by the encryption provider and Veritas. Please refer to the other sections of this document for Veritas' support of these storage devices.

Please Note:

The firmware listed on this page is the firmware that has been tested. All firmware versions newer than what is listed are also supported.

Third-Party Encryption Solutions - Vendor Compatibility

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<u>Brocade</u>	<u>Cisco Systems</u>	<u>Decru</u>
<u>Fujitsu</u>	<u>Hewlett Packard Enterprise</u>	<u>IBM</u>
<u>NEC</u>	<u>Quantum</u>	<u>SafeNet</u>
<u>Sun StorageTek</u>	<u>Thales (NeoScale)</u>	

Brocade

Model	Version	Notes
Brocade Encryption Switch	7.1.0a	Support for Fibre Channel switch-based encryption. Qualified with SafeNet KeySecure encryption key management. NetBackup does not interact with the key management or the encryption process.

Cisco Systems

Model	Version	Notes
MDS9222i	SME 3.2.3	Support for Storage Media Encryption (SME) fabric service. NetBackup does not interact with the key management or the encryption process.

Decru

Model	Version	Notes
DataFort FC1020	2.0-MP	The firmware listed for this device is the version that was tested. All 2.x firmware versions are also supported.
DataFort FC520 V2	2.0-MP, 2.1.0.2	The firmware listed for this device is the version that was tested. All 2.x firmware versions are also supported.
DataFort FC525 V2	2.0-MP	The firmware listed for this device is the version that was tested. All 2.x firmware versions are also supported.

Fujitsu

Model	Version	Notes
LT220-embedded encryption key management function	0006	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
LT230-embedded encryption key management function	0005	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
LT250-embedded encryption key management function	V20L50	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
LT260-embedded encryption key management function	6.62	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
LT270-embedded encryption key management function	V40L50	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
LT270 S2-embedded encryption key management function	V10L10	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.

Hewlett Packard Enterprise

Model	Version	Notes
1/8 G2 & MSL G3 Encryption Kit	2.30, 2.80 (1/8 G2), 4.20, 4.70 (MSL2024), 6.50, 7.00 (MSL4048), 8.90, 9.60 (MSL8048/MSL8096)	Support for library-based encryption solution. NetBackup does not interact with the key management or the encryption process.
Enterprise Secure Key Manager	4.8.9	Support for Enterprise Secure Key Manager (ESKM) appliance. Refer to the vendor's site for supported library and drive models. NetBackup does not interact with the key management or the encryption process.
Secure Key Manager 1.0	4.7.1	Support for Secure Key Manager appliance. Refer to the vendor's site for supported library and drive models. NetBackup does not interact with the key management or the encryption process.
Secure Key Manager 1.1	4.8.1	Support for Secure Key Manager appliance. Refer to the vendor's site for supported library and drive models. NetBackup does not interact with the key management or the encryption process.

IBM

Model	Version	Notes
Encryption Key Manager	20060816, 20070503	Support for library-based Internal Label Encryption Policy (ILEP) for NetBackup. Refer to the vendor's site for supported library and drive models. NetBackup does not interact with the key management or the encryption process.
Tivoli Key Lifecycle Manager (TKLM)	2.0	Support for library-based encryption solution. Refer to the vendor's site for supported library and drive models. NetBackup does not interact with the key management or the encryption process.

NEC

Model	Version	Notes
T16A2-embedded encryption key management function	0006	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
T30A-embedded encryption key management function	0002	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
T40A2-embedded encryption key management function	0005	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
T60A-embedded encryption key management function	0002	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
T100A-embedded encryption key management function	V20L50	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
T100A2-embedded encryption key management function	V20L50	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
T700A-embedded encryption key management function	V40L50	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.
T700A2-embedded encryption key management function	V10L10	Support for library-based encryption solution. Refer to the vendor's site for supported drive models. NetBackup does not interact with the key management or the encryption process.

Quantum

Model	Version	Notes
Encryption Key Manager	2.1_007	Support for library-based encryption solution. Refer to the vendor's site for supported library and drive models. NetBackup does not interact with the key management or the encryption process.
Scalar Key Manager Appliance	100Q.GC00800	Support for library-based encryption solution. Refer to the vendor's site for supported library and drive models. NetBackup does not interact with the key management or the encryption process.

SafeNet

Model	Version	Notes
KeySecure	6.3.0	Support for encryption key management. Qualified with Brocade Encryption Switch. NetBackup does not interact with the key management or the encryption process.

Sun StorageTek

Model	Version	Notes
Crypto Key Management System	1.6.0, 2.0, 2.2	Support for Crypto Key Management appliance. Refer to the vendor's site for supported library and drive models. NetBackup does not interact with the key management or the encryption process.

Thales (NeoScale)

Model	Version	Notes
CryptoStor FC702	fc-2.4.0	
CryptoStor FC704	fc-2.4.0	
CryptoStor FC712	fc-2.4.0	
CryptoStor SC702	fc-2.4.0	

Symantec Security Information Manager

NetBackup Client is supported with Symantec Security Information Manager (SSIM) v4.8 and later.

For more information on SSIM, see <https://support.symantec.com/en_US/dpl.52517.html>

Fibre Transport Media Server HBAs

This section lists Fibre Channel host bus adapters (HBAs) that have been tested and are supported with the NetBackup Fibre Transport (FT) feature in a Fibre Transport Media Server. This information is organized by vendor and provides information on what operating systems have been tested with each Fibre Channel HBA model. The NetBackup Fibre Transport feature requires loading the FT HBA with firmware contained on the NetBackup distribution media, so only the HBAs listed below will work with this feature.

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Considerations

Fibre Transport Media Server -
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Fibre Transport Media Server -
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Fibre Transport Media Server - Considerations

Subject	Notes
Support assumptions	1. A NetBackup SAN Client supports any HBA and is used in conjunction with a NetBackup Fibre Transport Media Server. The HBA support model for NetBackup SAN Client is an "OPEN" model. All host bus adapters (HBA), switches, bridges, and routers are supported in a SAN environment. This means that if a Fibre Channel component is causing a problem, Veritas will work with the component vendor in an attempt to resolve the problem, but resolution is not guaranteed. Veritas and most hardware vendors listed are members of TSANet.
Vendor support considerations	1. The SAN Client feature is compatible with the Sun SPARC Enterprise M-Series server architecture, but with limited functionality with regard to Fibre Transport Media Server deployment: - Support is limited to a maximum of one target mode Fibre Channel HBA in an M-Series server. - Quad-port target mode Fibre Channel HBAs are not supported in an M-Series server.
Configuration considerations	1. For SAN Client implementations with NetBackup Appliance and SLES 10 clients using QLogic FC HBAs (or rebadged QLogic FC HBAs), Veritas recommends upgrading the HBA driver on the client to version 8.03.07.03.10.3-k or later.
Operating system support dropped	1. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later. 2. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.

Fibre Transport Media Server - Supported Platforms

Linux FT Media Servers are supported on the platforms listed in the following table along with the NetBackup 8.x release at which the platform was first supported. Other RHEL and SLES versions are not supported as an FT Media Server.

Operating System	Supported Versions	Minimum NetBackup 8.x Release Supported	Notes
Oracle Solaris 10 on SPARC	GA or later	8.0 GA	
Red Hat Enterprise Linux 5 on x86-64	GA, Update 2, Update 3, Update 4, Update 5, Update 6, Update 7	8.0 GA - Not supported as a media server with NetBackup 8.1 and later.	
Red Hat Enterprise Linux 6 on x86-64	GA, Update 1, Update 3, Update 5, Update 6, Update 7, Update 8	8.0 GA	
Red Hat Enterprise Linux 7 on x86-64	GA, Update 1, Update 2, Update 3	8.0 GA	
SUSE Linux Enterprise Server 11 on x86-64	SP3	8.0 GA	
SUSE Linux Enterprise Server 11 on x86-64	SP4	8.1	
SUSE Linux Enterprise Server 12 on x86-64	GA	8.0 GA	
SUSE Linux Enterprise Server 12 on x86-64	SP1	8.1	

Fibre Transport Media Server - Vendor Compatibility

Contents

<u>Dell</u>	<u>EMC</u>	<u>Hewlett Packard Enterprise</u>
<u>Hitachi</u>	<u>IBM</u>	<u>Oracle</u>
<u>QLogic</u>	<u>Sun</u>	

Dell

Dell - Support with Linux

Device Family	Bus Type	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
F641C	PCle	5, 6, 7	11, 12
H144C [1]	PCle	5, 6, 7	11, 12
QME2472	PCle	5	No

1. Please see Technical Solution Article <<http://www.veritas.com/docs/000013083>>

EMC

EMC - Support with Linux

Device Family	Bus Type	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
QLE2560-E	PCle	5, 6, 7	11, 12
QLE2562-E [1]	PCle	5, 6, 7	11, 12

1. Please see Technical Solution Article <<http://www.veritas.com/docs/000013083>>

Hewlett Packard Enterprise

Hewlett Packard Enterprise - Support with Linux

Device Family	Bus Type	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
AJ764A [1]	PCIe	5, 6, 7	11, 12
AK344A	PCIe	5, 6, 7	11, 12
FC1142SR	PCIe	5	No
FC1143	PCI-X	5	No
FC1242SR DC	PCIe	5	No
FC1243	PCI-X	5	No
FCA2214	PCI-X	5	No
FCA2214DC	PCI-X	5	No
QMH2462-HP-BK	PCIe	5	No
QMH2562-HP-BK	PCIe	5, 6	11, 12
QMH2572-HP-SP	PCIe	5, 6	11, 12

1. Please see Technical Solution Article <<http://www.veritas.com/docs/000013083>>

Hitachi

Hitachi - Support with Linux

Device Family	Bus Type	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
QLE2560-CK	PCle	5, 6, 7	11, 12
QLE2562-CK [1]	PCle	5, 6, 7	11, 12

1. Please see Technical Solution Article [<http://www.veritas.com/docs/000013083.>](http://www.veritas.com/docs/000013083)

IBM

IBM - Support with Linux

Device Family	Bus Type	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
42D0501	PCle	5, 6, 7	11, 12
42D0510 [1]	PCle	5, 6, 7	11, 12

1. Please see Technical Solution Article <<http://www.veritas.com/docs/000013083>>

Oracle

Oracle - Support with Linux

Device Family	Bus Type	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
SG-XPCiE1FC-QF8-N	PCle	5, 6, 7	11, 12
SG-XPCiE2FC-QF8-N [1]	PCle	5, 6, 7	11, 12

1. Please see Technical Solution Article <<http://www.veritas.com/docs/000013083>>

Oracle - Support with UNIX

Device Family	Bus Type	Solaris on SPARC
SG-XPCiE1FC-QF8-N	PCle	10
SG-XPCiE2FC-QF8-N [1]	PCle	10

1. Please see Technical Solution Article <<http://www.veritas.com/docs/000013083>>

QLogic

QLogic - Support with Linux

Device Family	Bus Type	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
QLE2400 series	PCIe	5	No
QLE2500 series [1]	PCIe	5, 6, 7	11, 12
SANblade 23xx series [2]	PCI, PCI-X, SBUS, cPCI	5	No
SANblade 24xx series	PCI-X, PCIe	5	No

1. Please see Technical Solution Article <<http://www.veritas.com/docs/000013083>>
2. Fibre Transport Media Server is only supported with the QLA2340, QLA2342, and QLA2344 members of this family.

QLogic - Support with UNIX

Device Family	Bus Type	Solaris on SPARC
QLE2400 series	PCIe	10
QLE2500 series [1]	PCIe	10
SANblade 23xx series [2]	PCI, PCI-X, SBUS, cPCI	10
SANblade 24xx series	PCI-X, PCIe	10

1. Please see Technical Solution Article <<http://www.veritas.com/docs/000013083>>
2. Fibre Transport Media Server is only supported with the QLA2340, QLA2342, and QLA2344 members of this family.

QLogic - Family Membership

Device Family	Members
QLE2400 series	QLE2440, QLE2460, QLE2462, QLE2464, QME2462, QMI2572
QLE2500 series	QLE2560, QLE2562, QLE2562-S, QLE2564, QME2572, QMH2562, QMH2572, QMI2582, QMI3572
SANblade 23xx series	QCP2332, QCP2340, QLA2300, QLA2302, QLA2310, QLA2332, QLA2340, QLA2340C, QLA2342, QLA2344, QSB2340, QSB2342
SANblade 24xx series	QLA2440, QLA2460, QLA2462

Sun

Sun - Support with Linux

Device Family	Bus Type	Red Hat Enterprise Linux on x86-64
SG-XPCI1FC-QF4	PCI	5
SG-XPCI1FC-QL2	PCI-X	5
SG-XPCI2FC-QF2 (X6768A)	PCI-X	5
SG-XPCI2FC-QF4	PCI-X	5
SG-XPCIE1FC-QF4	PCle	5
SG-XPCIE2FC-QF4	PCle	5

Sun - Support with UNIX

Device Family	Bus Type	Solaris on SPARC
SG-XPCI1FC-QF4	PCI	10
SG-XPCI1FC-QL2	PCI-X	10
SG-XPCI2FC-QF2 (X6768A)	PCI-X	10
SG-XPCI2FC-QF4	PCI-X	10
SG-XPCIE1FC-QF4	PCle	10
SG-XPCIE2FC-QF4	PCle	10

Optical Software

NetBackup supports third party software for backups to optical drives and libraries. The software makes an optical drive or library appear as a pseudo disk device. A NetBackup policy is created that writes to a Disk Storage Unit managed by the software. The following subsections show the software currently supported by NetBackup.

Contents

QStar HSM

QStar HSM

NetBackup supports QStar HSM software for backups to optical drives and libraries on the operating systems listed in the table below. The list of optical drives and libraries that are supported by the QStar software is available at <http://www.qstar.com/support/supported-hw-list/>

Software	Red Hat Enterprise Linux on x86-64	Solaris on SPARC	Solaris on x86-64
QStar HSM	5	10	10

Infrastructure Used for Testing

The NetBackup Shared Storage Option (SSO) hardware support model for Storage Area Network (SAN) components is an open model. In other words, all Fibre Channel over Ethernet (FCoE) converged network adapters (CNA), Fibre Channel (FC) host bus adapters (HBA), switches, bridges, and routers are supported in a SAN environment. This means that if a FCoE or FC component is causing a problem, Veritas will work with the component vendor in an attempt to resolve the problem, but resolution is not guaranteed. Veritas and most hardware vendors listed are members of TSANet.

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Infrastructure - Considerations

Subject	Notes
Vendor support considerations	1. To ensure compatibility, the device manufacturers and the operating system vendor must support the combination of SAN components.

CNAs

This list of SAN components represents equipment that has been used during NetBackup qualification testing of devices listed in previous sections of this document. It is not intended to be a list of supported components.

CNAs - Considerations

Subject	Notes
Support assumptions	For details on supported operating systems, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" <http://www.veritas.com/docs/000115691> . 1. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server. 2. Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported. 3. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported. 4. Where support is shown for "Red Hat Enterprise Linux 5 on x86-64" it also means that CentOS 5 and Oracle Linux 5 are supported. 5. Where support is shown for "Red Hat Enterprise Linux 6 on x86-64" it also means that CentOS 6 and Oracle Linux 6 are supported. 6. Where support is shown for "Red Hat Enterprise Linux 7 on x86-64" it also means that CentOS 7 and Oracle Linux 7 are supported.
Vendor support considerations	1. Consult the hardware vendor's web site for current firmware and driver updates (where applicable).
Configuration considerations	1. All like CNAs within a SAN should use the same firmware, BIOS and driver revision as recommended by CNA vendors.
Operating system support dropped	1. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later. 2. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.

Infrastructure - CNAs Used In Testing

Contents

<u>Emulex</u>	<u>Hewlett Packard Enterprise</u>	<u>QLogic</u>
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Emulex

Emulex - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2008 x64
LPe16202 (FCoE)	PCIe	Enterprise Edition
OneConnect OCe11000 series (FCoE BE3 ASIC)	PCIe	Enterprise Edition

Emulex - Family Membership

Device Family	Members
OneConnect OCe11000 series (FCoE BE3 ASIC)	OCe11102 (FCoE)

Hewlett Packard Enterprise

Hewlett Packard Enterprise - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
554FLR	PCIe	No	Datacenter	No	No
650FLB	PCIe	No	Datacenter	7	No
CN1000Q	PCIe	No	Datacenter	No	No
CN1100E	PCIe	Enterprise Edition	No	5	11

QLogic

QLogic - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2008 x64
QLE8100 series (FCoE)	PCIe	Enterprise Edition
QLE8200 series (FCoE)	PCIe	Enterprise Edition

QLogic - Family Membership

Device Family	Members
QLE8100 series (FCoE)	QLE8140 (FCoE), QLE8142 (FCoE), QLE8150 (FCoE), QLE8152 (FCoE)
QLE8200 series (FCoE)	QLE8240 (FCoE), QLE8242 (FCoE)

HBAs

This list of SAN components represents equipment that has been used during NetBackup qualification testing of devices listed in previous sections of this document. It is not intended to be a list of supported components.

HBAs - Considerations

Subject	Notes
Support assumptions	For details on supported operating systems, please refer to the "NetBackup 8.0 - 8.x.x Operating System Software Compatibility List" <http://www.veritas.com/docs/000115691> . 1. Where support is shown for "Windows Server 2008 Enterprise Edition" it also means that the other editions of Windows Server 2008 and Windows Server 2008 R2 are supported. Only the x64 (64-bit) editions of the OS are supported as a NetBackup Media Server. Server Core Installation Option is not supported as a NetBackup Media Server. 2. Where support is shown for "Windows Server 2012 Datacenter" it also means that the other editions of Windows Server 2012, Windows Storage Server 2012, Windows Server 2012 R2, and Windows Storage Server 2012 R2 are supported. 3. Where support is shown for "Windows Server 2016 Datacenter" it also means that the other editions of Windows Server 2016 and Windows Storage Server 2016 are supported. 4. Where support is shown for "Red Hat Enterprise Linux 5 on x86-64" it also means that CentOS 5 and Oracle Linux 5 are supported. 5. Where support is shown for "Red Hat Enterprise Linux 6 on x86-64" it also means that CentOS 6 and Oracle Linux 6 are supported. 6. Where support is shown for "Red Hat Enterprise Linux 7 on x86-64" it also means that CentOS 7 and Oracle Linux 7 are supported.
Vendor support considerations	1. All like HBAs within a SAN should use the same firmware, BIOS and driver revision as recommended by HBA vendors. 2. Consult the hardware vendor's web site for current firmware and driver updates (where applicable).
Operating system support dropped	1. Red Hat Enterprise Linux 5 is not supported as a media server with NetBackup 8.1 and later. 2. CentOS 5 is not supported as a media server with NetBackup 8.1 and later.

Infrastructure - HBAs Used In Testing

Contents

<u>ATTO</u>	<u>Brocade</u>	<u>Cambex</u>
<u>Emulex</u>	<u>Hewlett Packard Enterprise</u>	<u>Hitachi</u>
<u>IBM</u>	<u>JNI</u>	<u>LSI Logic</u>
<u>QLogic</u>	<u>Sun</u>	

ATTO

ATTO - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
FC-21PS	PCI	No	No	5	No
FC-22XH	PCI-X	No	No	5	No
FC 16Gb/s Gen 6	PCIe	Datacenter	No	6	12
FC 32Gb/s Gen 6	PCIe	No	Datacenter	No	No

ATTO - Family Membership

Device Family	Members
FC 16Gb/s Gen 6	CTFC-161P, CTFC-162P, CTFC-164P
FC 32Gb/s Gen 6	CTFC-321E, CTFC-322E, CTFC-324E

Brocade

Brocade - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
42B	PCIe	Enterprise Edition	No	No	No
415	PCIe	Enterprise Edition	No	No	No
425	PCIe	Enterprise Edition	Datacenter	No	No
815	PCIe	No	No	6	No
825	PCIe	Enterprise Edition	Datacenter	5, 6, 7	11
1860 (FC)	PCIe	No	No	7	12

Cambex

Cambex - Support with UNIX

Device Family	Bus Type	AIX on POWER
PC1000	PCI	6.1

Emulex

Emulex - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2008 x64	Windows Server 2012 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
LP10xxx / 105x series (Thor ASIC)	PCI, PCI-X, PCIe	Enterprise Edition	No	5	11
LP90xx / 94xx / 95x series (Centaur ASIC)	PCI, PCI-X, SBUS, cPCI	Enterprise Edition	No	5, 6	No
LP98xx / 98x series (Pegasus ASIC)	PCI, PCI-X	Enterprise Edition	Datacenter	5, 6	11
LP1100x / 1150 series (Helios ASIC)	PCI-X	Enterprise Edition	No	5, 6	No
LPe11xxx / 115x series (Zephyr ASIC)	PCIe	Enterprise Edition	No	5, 6	No
LPe12xxx / 125x series (Saturn ASIC)	PCIe	Enterprise Edition	Datacenter	5	12
LPe16xxx / 15xxx series (Lancer ASIC)	PCIe	Enterprise Edition	Datacenter	6, 7	12
SN1000E	PCIe	No	No	7	No
SN1100E2P	PCIe	No	Datacenter	7	12

Emulex - Support with UNIX

Device Family	Bus Type	AIX on POWER	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
LP10xxx / 105x series (Thor ASIC)	PCI, PCI-X, PCIe	6.1, 7.1	11.31	10	10
LP90xx / 94xx / 95x series (Centaur ASIC)	PCI, PCI-X, SBUS, cPCI	6.1	No	10	No
LP98xx / 98x series (Pegasus ASIC)	PCI, PCI-X	No	11.31	10	10
LP1100x / 1150 series (Helios ASIC)	PCI-X	6.1, 7.1	No	10, 11	10, 11
LPe11xxx / 115x series (Zephyr ASIC)	PCIe	No	No	10, 11	10
LPe12xxx / 125x series (Saturn ASIC)	PCIe	No	No	10	10
LPe16xxx / 15xxx series (Lancer ASIC)	PCIe	No	No	No	10, 11

Emulex - Family Membership

Device Family	Members
LP10xxx / 105x series (Thor ASIC)	LP101E, LP1050, LP1050DC, LP1050Ex, LP10000, LP10000DC, LP10000ExDC
LP90xx / 94xx / 95x series (Centaur ASIC)	LP952L, LP9000, LP9000s, LP9002C, LP9002DC, LP9002L, LP9002S, LP9402DC
LP98xx / 98x series (Pegasus ASIC)	LP982, LP9802, LP9802DC, LP9802S
LP1100x / 1150 series (Helios ASIC)	LP1150, LP11000, LP11000-M4, LP11002, LP11002-M4, LP12002-S
LPe11xxx / 115x series (Zephyr ASIC)	LPe111, LPe1105-M, LPe1150, LPe11000, LPe11002, LPe11002-E, LPe11002-S, LPe11004, LPem11002-S
LPe12xxx / 125x series (Saturn ASIC)	LPe1205-HP, LPe1250, LPe12000, LPe12000-E, LPe12002, LPe12002-E, LPe12002-M8, LPe12002-X8, LPe12004
LPe16xxx / 15xxx series (Lancer ASIC)	LPe15004, LPe16000-M6, LPe16000B, LPe16000B-M6, LPe16000B-M8, LPe16002-M6, LPe16002B, LPe16002B-M6, LPe16002B-M8, LPe16004, LPe16202 (FC)

Hewlett Packard Enterprise

Hewlett Packard Enterprise - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
42B	PCIe	Enterprise Edition	No	No	5	No
82B	PCIe	Enterprise Edition	No	No	No	11
82E	PCIe	Enterprise Edition	No	No	6	11
451871-B21	PCIe	No	No	No	5	No
A7388A	PCI-X	Enterprise Edition	No	No	No	No
AB379A	PCI-X	No	No	No	5	No
AH403A	PCIe	No	No	No	No	12
AJ763A	PCIe	No	Datacenter	Datacenter	No	No
AJ764A	PCIe	Enterprise Edition	No	No	5	No
FC1243	PCI-X	Enterprise Edition	No	No	No	No
FC2243 DC	PCI-X	Enterprise Edition	No	No	No	No
FCA2214DC	PCI-X	No	No	No	5	No
SN1000E	PCIe	No	Datacenter	No	No	No
SN1000Q / SN1100Q series	PCIe	Enterprise Edition	No	No	6	12

Hewlett Packard Enterprise - Support with UNIX

Device Family	Bus Type	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
82E	PCle	No	No	11
A6795A	PCI	11.31	No	No
A9784-60002	PCI-X	11.31	No	No
AB379B	PCI-X	11.31	No	No
AD355-60001	PCle	11.31	No	No
AD355A	PCI, PCI-X, PCle	11.31	No	No
AH400A		No	10, 11	No
AH401	PCle	No	10	No
AH402A		No	10	No
AH403A	PCle	11.31	No	No
AJ763A	PCle	11.31	No	No
FC1242SR DC	PCle	No	No	10

Hewlett Packard Enterprise - Family Membership

Device Family	Members
SN1000Q / SN1100Q series	SN1000Q, SN1100Q

Hitachi

Hitachi - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2008 x64	Red Hat Enterprise Linux on x86-64
HFC040x series	PCI-X, PCIe	Enterprise Edition	5
HFCE080x series	PCIe	Enterprise Edition	5

Hitachi - Support with UNIX

Device Family	Bus Type	AIX on POWER
HFC040x series	PCI-X, PCIe	6.1
HFCE080x series	PCIe	6.1

Hitachi - Family Membership

Device Family	Members
HFC040x series	HFC0401, HFC0401-C, HFC0402, HFC0402-C, HFC0402-E, HFC0402-M
HFCE080x series	HFCE0801, HFCE0802, HFCE0802-M, HFCE0804-M

IBM

IBM - Support with UNIX

Device Family	Bus Type	AIX on POWER
577D	PCle	7.1
1977	PCI-X	6.1
5716	PCI-X	6.1, 7.1
5735	PCle	7.1, 7.2
5759	PCI-X	6.1, 7.1
5774	PCle	6.1
6227	PCI	6.1
6228	PCI	6.1
6239	PCI-X	6.1
FC 5273	PCle	7.1

JNI

JNI - Support with UNIX

Device Family	Bus Type	Solaris on SPARC
FCE-6460	PCI	10

LSI Logic

LSI Logic - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2008 x64	Red Hat Enterprise Linux on x86-64
LSI7102XP-LC	PCI-X	Enterprise Edition	No
LSI7202XP-LC	PCI-X	Enterprise Edition	No
LSI7402XP-LC	PCI-X	Enterprise Edition	No
LSI40919	PCI	No	5

LSI Logic - Support with UNIX

Device Family	Bus Type	Solaris on SPARC
LSI7104XP-LC	PCI-X	10
LSI7202XP-LC	PCI-X	10
LSI7402XP-LC	PCI-X	10

QLogic

QLogic - Support with Windows / Linux

Device Family	Bus Type	Windows Server 2008 x64	Windows Server 2012 x64	Windows Server 2016 x64	Red Hat Enterprise Linux on x86-64	SUSE Linux Enterprise Server on x86-64
QLA2x0 series	PCI-X	No	No	No	5	No
QLA235x series	PCI-X	No	No	No	5	No
QLE236x series	PCIe	Enterprise Edition	No	No	5, 6	No
QLE2400 series	PCIe	Enterprise Edition	Datacenter	No	5	11
QLE2500 series	PCIe	Enterprise Edition	Datacenter	Datacenter	5, 6, 7	11
QLE2600 series	PCIe	Enterprise Edition	Datacenter	No	7	No
QLE2670 series	PCIe	Enterprise Edition	Datacenter	Datacenter	6, 7	11
QLE8300 series (FC)	PCIe	No	No	No	6	No
QLE10000 series	PCIe	No	No	No	6	No
SANblade 23xx series	PCI, PCI-X, SBUS, cPCI	Enterprise Edition	No	No	5, 6	No
SANblade 24xx series	PCI-X, PCIe	Enterprise Edition	Datacenter	No	5, 7	11

QLogic - Support with UNIX

Device Family	Bus Type	HP-UX on IA64	Solaris on SPARC	Solaris on x86-64
QLE2400 series	PCIe	No	10, 11	No
QLE2500 series	PCIe	No	10, 11	10
SANblade 23xx series	PCI, PCI-X, SBUS, cPCI	11.31	10, 11	10
SANblade 24xx series	PCI-X, PCIe	No	10, 11	10

QLogic - Family Membership

Device Family	Members
QLA2x0 series	QLA200, QLA210
QLA235x series	QLA2350, QLA2352
QLE236x series	QLE2360, QLE2362
QLE2400 series	QLE2440, QLE2460, QLE2462, QLE2464, QME2462, QMI2572
QLE2500 series	QLE2560, QLE2562, QLE2562-S, QLE2564, QME2572, QMH2562, QMH2572, QMI2582, QMI3572
QLE2600 series	QLE2660, QLE2662
QLE2670 series	QLE2670, QLE2672
QLE8300 series (FC)	QLE8360 (FC), QLE8362 (FC)
QLE10000 series	QLE10502, QLE10522, QLE10542
SANblade 23xx series	QCP2332, QCP2340, QLA2300, QLA2302, QLA2310, QLA2332, QLA2340, QLA2340C, QLA2342, QLA2344, QSB2340, QSB2342
SANblade 24xx series	QLA2440, QLA2460, QLA2462

Sun

Sun - Support with UNIX

Device Family	Bus Type	Solaris on SPARC	Solaris on x86-64
SG-XPCI1FC-EM2	PCI-X	10	No
SG-XPCI1FC-QF2 (X6767A)	PCI	10	No
SG-XPCI1FC-QF4	PCI	10	No
SG-XPCI1FC-QL2	PCI-X	10	No
SG-XPCI2FC-EM2	PCI-X	10	No
SG-XPCI2FC-QF2 (X6768A)	PCI-X	10	No
SG-XPCI2FC-QF4	PCI-X	10	10
SG-XPCIE1FC-EM4	PCle	10	No
SG-XPCIE1FC-QF4	PCle	10	No
SG-XPCIE2FC-EM4	PCle	10	No
SG-XPCIE2FC-QF4	PCle	10	10

Bridges/Routers

This list of SAN components represents equipment that has been used during NetBackup qualification testing of devices listed in previous sections of this document. It is not intended to be a list of supported components.

Infrastructure - Considerations

Subject	Notes
Vendor support considerations	1. To ensure compatibility, the device manufacturers and the operating system vendor must support the combination of SAN components. 2. Consult the hardware vendor's web site for current firmware.

Infrastructure - Routers/Bridges Used In Testing

Contents

Bridges/Routers

Bridges/Routers

Manufacturer	Device
ADIC	SNC 4000 (embedded), SNC 5100, SNC 6101, SNC 6404
ATTO	FiberBridge 1290, FibreBridge 2400
Chaparral	FS1310, VFS113
Compaq	Modular Data Router
Crossroads	4250, 6000, 8000, 10000
Dell	PV-136T (FCR embedded)
Hewlett Packard Enterprise	400 Multi-Protocol Router, e1200-160 FC Interface Controller, e2400-160 FC Interface Controller, e2400-FC 2Gb Interface Controller, e2400-FC 4Gb Interface Controller, N1200 4Gb
Qualstar	VFS212 embedded router

Bridges/Routers

Manufacturer	Device
Quantum	FC310, FC470, FC1202
Spectra Logic	F-QIP

Switches

This list of SAN components represents equipment that has been used during NetBackup qualification testing of devices listed in previous sections of this document. It is not intended to be a list of supported components.

Infrastructure - Considerations

Subject	Notes
Vendor support considerations	1. To ensure compatibility, the device manufacturers and the operating system vendor must support the combination of SAN components. 2. Consult the hardware vendor's web site for current firmware.

Infrastructure - Switches Used In Testing

Contents

Switches

Switches

Manufacturer	Device
ADIC	SNC 7404
Brocade	4Gb SAN Switch for HP c-Class BladeSystem, 300, 5000, 5100, 7500 Extension Switch, SilkWorm 200E, SilkWorm 220E, SilkWorm 240E, SilkWorm 2400, SilkWorm 2800, SilkWorm 3200, SilkWorm 3250, SilkWorm 3800, SilkWorm 3850, SilkWorm 3900, SilkWorm 4100, SilkWorm 4150, SilkWorm 5100, SilkWorm 48000
Cisco Systems	MDS9216, MDS9506, Nexus 5010, Nexus 5020
EMC	DS-16B2
Hewlett Packard Enterprise	2408 FCoE CN Switch, SAN Switch 2/16, SAN Switch 4/16, SAN Switch 4/32, SAN Switch 8/40, SAN Switch 8/80, SAN Switch SN6000B 16GB 48/48
IBM	TotalStorage Storage Switch L10
McDATA	Intrepid 6140, Sphereon 3232, Sphereon 4500
QLogic	SANbox2-8, SANbox2-16, SANbox 1400, SANbox 3600, SANbox 5200, SANbox 5600, SANbox 5602, SANbox 5802, SANbox 9000, SANbox 9200

Switches

Manufacturer	Device
Sun	SG-XSW64-BASE

Retiring Soon

The devices in this section will not be listed in the Hardware Compatibility List for the next major NetBackup release after NetBackup 8.0 - 8.x.x. Many of these devices are end-of-life products that are no longer supported by the manufacturer.

Veritas NetBackup [™] Enterprise Server and Server 8.0 - 8.x.x OS Software Compatibility List

Created on October 31, 2017

Introduction

This Software Compatibility List (SCL) document contains information for Veritas NetBackup 8.0 through 8.x.x. It covers NetBackup Server (which includes Enterprise Server and Server), Client, Bare Metal Restore (BMR), Clustered Master Server Compatibility and Storage Stacks, Deduplication, File System Compatibility, Media Server Encryption Option (MSEO), NetBackup OpsCenter, NetBackup Access Control (NBAC), SAN Media Server/SAN Client/FT Media Server, Virtual System Compatibility and NetBackup Self Service Support. It is divided into bookmarks on the left that can be expanded.

For information about certain NetBackup features, functionality, 3rd-party product integration, Veritas product integration, applications, databases, and OS platforms that Veritas intends to replace with newer and improved functionality, or in some cases, discontinue without replacement, please see the widget titled "NetBackup Future Platform and Feature Plans" at <https://sort.veritas.com/netbackup>

Reference Article TECH59978 https://www.veritas.com/support/en_US/article.TECH59978 for links to all other NetBackup compatibility lists.

8.0 - 8.x.x OS Software Compatibility List Updates

Update Information

Description of Change	Date	NetBackup Version Start of Support
Added support for Nutanix	2017-10-25	NetBackup 8.1
Added support for Debian 9	2017-10-25	NetBackup 8.0
Added support for NetBackup 8.1 Self Service with NetBackup 8.1	2017-09-22	NetBackup Self Service 8.1
Added support for vSphere 6.5 U1	2017-09-22	NetBackup 8.0
NetBackup GA	2017-09-26	NetBackup 8.1
Added VCS (InfoScale) 7.1 support on Red Hat Enterprise Linux 7 Update 1 - Master Server	2017-04-07	NetBackup 8.0
Added Media Server, Master Server, and OpsCenter support on Microsoft Windows Server 2016	2017-03-20	NetBackup 8.0
Added BMR Client/Boot server support on SUSE Enterprise Linux Server 12 SP1	2016-12-05	NetBackup 8.0
Added Compatibility between NetBackup Versions section	2016-12-05	NetBackup 8.0
Added support for NetBackup 8.0 Self Service with NetBackup 8.0	2016-12-05	NetBackup Self Service 8.0
NetBackup GA	2016-12-05	NetBackup 8.0

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<u>Operating Systems</u>	<u>Active Directory Support</u>	<u>Bare Metal Restore (BMR)</u>
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Operating Systems

Most operating system vendors provide patches and updates to their products. It is a best practice of NetBackup Quality Engineering to test with the latest service pack or patch level of the operating system when testing a platform. If a known problem exists on a specific service pack or patched OS level, this information is identified in the tables below. Any required operating system patches for specific releases of NetBackup are documented in the NetBackup Release Notes. The current patch versions of releases will work with NetBackup for the operating systems listed below unless otherwise noted. Veritas supports the standard un-altered kernel/operating system levels as indicated in the table, provided the OS Vendor still provides support for that level. Should an issue arise on a revised kernel, operating system, or virtual system environment, Veritas support may request the recreation of the problem with the standard operating environment distribution.

NetBackup Vault:

This option runs on the same operating systems and versions and in the same clustering environments as NetBackup unless otherwise noted in the NetBackup Release Notes. NetBackup restrictions and limitations related to systems, clusters, and peripherals also apply to Vault.

Exception: Vault does not support standalone drives.

Data at Rest Key Management Service (KMS):

This feature is a master server-based symmetric key management service that manages symmetric cryptography keys for tape drives that conform to the T10 standard (i.e. LTO4). KMS is supported on all OS versions where the master server and media server are supported unless otherwise noted.

Support Definitions:

Veritas Maintenance/Support only applies to Veritas Licensed Software, assuming you have a current Veritas Maintenance/Support subscription for such software and such Veritas Licensed Software is operating in configurations which Veritas designates as supported. Veritas Maintenance/Support does not cover (and we have no responsibility for) providing technical support, installation services or other services for any other software or hardware products. Also, Veritas is not obligated to provide Maintenance/Support when your Veritas Licensed Software is operating in configurations Veritas does not designate as supportable/supported. Please see the current Veritas Technical Support Policy and your Veritas license agreement for more information, terms and limitations.

Supported Configurations:

For more information about technical notes in regards to Veritas supported configurations (such as operating system/levels, firmware levels, databases, devices, device drivers, applications, etc.), please refer to the Veritas Support website <https://www.veritas.com/support/en_US.html> Please note that while Veritas makes reasonable efforts to keep this information updated, we cannot assure that this information will be in all cases complete or the most current.

Third Party Products:

Where your problem may be related to product(s) from a third party vendor with whom we have a cooperative or collaborative relationship on such product(s), then Veritas may work with that vendor towards resolving your reported problem. Where Veritas does not have such a support relationship in place with the third party vendor, or where the vendor ceases to support such product(s), then our ability to support Veritas Licensed Software operating with such vendor's product(s) may be limited, affected, or prevented (and such third party product(s) may cease to be part of Veritas - supported configuration(s)). Veritas support may be limited by the hardware or software vendor due to their support lifecycle. Should a vendor announce End of Support for a product, Veritas support may be limited.

NetBackup plug-ins and agents

Veritas is pleased to announce support for modern, next-generation workloads and hyper-converged infrastructure environments in NetBackup 8.1.

For further information, please refer to "><https://www.veritas.com/support/en_US/article.000127427

>

Bare Metal Restore (BMR)

Please refer to the following link for BMR supported configurations : <https://www.veritas.com/support/en_US/article.000127612>

Disclaimer:

In NetBackup 8.1 release, NetBackup Bare Metal Restore functionality is not supported for restoring the clients which have NetBackup version 8.1 installed. However, you can still use Bare Metal Restore for restoring the clients which have NetBackup version 8.0 and earlier installed. While restoring 8.0 and earlier clients, Veritas recommends that you use Shared Resource Tree (SRT) having 8.0 and earlier client version. Note that there is a planned support for NetBackup Bare Metal Restore functionality in a future release.

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Beijing Linx Software Corp Linx

Beijing Linx Software Corp Linx - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Linx 6.0 [1]	x86-64	64	Y	64			8.0

1. Beijing Linx Technology Co Linx 6.0 Update 60 and later is supported.

Canonical Ubuntu

Canonical Ubuntu - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Ubuntu 16.04	x86-64	64	Y	64			8.0
Ubuntu 15.04	x86-64 [1]	64	Y	64			8.0
Ubuntu 14.10	x86-64 [1]	64	Y	64			8.0
Ubuntu 14.04	x86-64 [1]	64	Y	64			8.0
Ubuntu 12.04	x86-64 [1]	64	Y	64			8.0

1. NetBackup 8.1 and later does not support this operating system on this CPU architecture.

CentOS

NetBackup is supported on all editions (Advanced, Base, DC, etc.) and on all vendor GA updates (n.1, n.2, etc.) or service packs (SP1, SP2, etc.) unless stated otherwise in the tables below.

CentOS - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
CentOS 7	x86-64	64	Y	64	Y	Y [1]	8.0
CentOS 6	x86-64	64	Y	64		Y	8.0
CentOS 5 [2]	x86-64 [3]	64	Y	64		Y	8.0

1. SAN Client is not supported on CentOS 7.1. Other CentOS 7.x versions are supported.
2. CentOS 5.2 and later is supported.
3. Netbackup 8.1 and later does not support this CPU architecture.

CentOS - NetBackup Server

OS	CPU Architecture	OS Bits	NetBackup Master Server	NetBackup Media Server	NetBackup Bits	NBAC	OpsCenter Server	OpsCenter Managed Server	NDMP	Minimum NetBackup Level
CentOS 7	x86-64	64		Y	64	Y			Y	8.0
CentOS 6	x86-64	64		Y	64	Y			Y	8.0
CentOS 5 [1]	x86-64 [2]	64		Y	64	Y			Y	8.0

1. CentOS 5.2 and later is supported.
2. Netbackup 8.1 and later does not support this CPU architecture.

China Standard Software Co NeoKylin Linux Advanced Server

China Standard Software Co NeoKylin Linux Advanced Server - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
NeoKylin Linux Advanced Server 7.0 [1]	x86-64	64	Y	64			8.0
NeoKylin Linux Advanced Server 6.0 [2] [3]	x86-64	64	Y	64			8.0

1. NeoKylin Linux Advanced Server 7.0 Update 2 and later is supported.
2. NeoKylin Linux Advanced Server 6.0 Update 7 and later is supported.
3. NeoKylin Linux Advanced Server 6.0 Update 9 and later are supported from NetBackup 8.1.

Debian GNU/Linux

NetBackup is supported on all editions (Advanced, Base, DC, etc.) and on all vendor GA updates (n.1, n.2, etc.) or service packs (SP1, SP2, etc.) unless stated otherwise in the tables below.

Debian GNU/Linux - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
GNU/Linux 9	x86-64	64	Y	64			8.0
GNU/Linux 8	x86-64	64	Y	64			8.0
GNU/Linux 7	x86-64	64	Y	64			8.0

Hewlett Packard Enterprise HP-UX

Hewlett Packard Enterprise HP-UX - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
HP-UX 11.31	IA64	64	Y	64	Y	Y	8.0

Hewlett Packard Enterprise HP-UX - NetBackup Server

OS	CPU Architecture	OS Bits	NetBackup Master Server	NetBackup Media Server	NetBackup Bits	NBAC	OpsCenter Server	OpsCenter Managed Server	NDMP	Minimum NetBackup Level
HP-UX 11.31	IA64	64	Y	Y	64	Y		Y	Y	8.0

Hewlett Packard Enterprise OpenVMS

HP OpenVMS client does not support client encryption or NetBackup Accelerator.
The last update for the OpenVMS client was the NetBackup 7.5 GA release.

Hewlett Packard Enterprise OpenVMS - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
OpenVMS 8.4 [1]	IA64	64	Y	64			8.0
OpenVMS 8.3 [1]	IA64	64	Y	64			8.0
OpenVMS 8.2 [1]	IA64	64	Y	64			8.0

1. NetBackup 8.1 and later does not support this CPU architecture.

IBM AIX

Veritas does not test all IBM POWER-based server models and relies on the IBM AIX 5L Version 5 binary compatibility statement. Reference: <http://www-03.ibm.com/systems/power/software/aix/compatibility/index.html>

IBM AIX - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
AIX 7.2	POWER	64	Y	64	Y	Y [1]	8.0
AIX 7.1	POWER	64	Y	64	Y	Y [1]	8.0
AIX 6.1	POWER	64	Y	64	Y	Y [1]	8.0

1. LPARs are supported with SAN Client if fibre channel port is dedicated.

IBM AIX - NetBackup Server

OS	CPU Architecture	OS Bits	NetBackup Master Server	NetBackup Media Server	NetBackup Bits	NBAC	OpsCenter Server	OpsCenter Managed Server	NDMP	Minimum NetBackup Level
AIX 7.2	POWER	64	Y	Y	64	Y		Y	Y	8.0
AIX 7.1	POWER	64	Y	Y	64	Y		Y	Y	8.0
AIX 6.1	POWER	64	Y	Y	64	Y		Y	Y	8.0

Microsoft Windows 7

NetBackup Client is supported on all Windows 7 Editions.

Microsoft Windows 7 - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Windows 7 [1]	x86-32 [2]	32	Y	32	Y		8.0
Windows 7 [1]	x86-64	64	Y	64	Y		8.0

1. Windows 7 SP1 and later are supported.
2. Netbackup 8.1 and later does not support this CPU architecture.

Microsoft Windows 8

NetBackup Client is supported on all Windows 8 Editions for x86-64 architecture (Intel 64 and AMD64).

Microsoft Windows 8 - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Windows 8	x86-64	64	Y	64	Y		8.0
Windows 8.1	x86-64	64	Y	64			8.0

Microsoft Windows 10

NetBackup Client is supported on Windows 10 Enterprise, Professional and Education Edition for x86-64 architecture (Intel 64 and AMD64).
BMR Boot Server is not supported on Windows 10.

Microsoft Windows 10 - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Windows 10	x86-64	64	Y	64	Y		8.0

Microsoft Windows Server 2008

NetBackup Client is supported on Microsoft Windows Server 2008 Editions: Standard, Enterprise, Datacenter, Itanium and Web. NetBackup supported functionality for each CPU Architecture (32-bit or 64-bit) is listed in the tables below.

NetBackup Master and Media Server are supported on Microsoft Windows Server 2008 Editions: Standard, Enterprise and Datacenter, and with "core" option enabled or disabled. NetBackup supported functionality for each CPU Architecture (32-bit or 64-bit) is listed in the tables below.

NetBackup Client is supported on Microsoft Windows Server 2008 R2 Editions: Standard, Enterprise, Datacenter, Itanium and Web. Not supported on HPC. NetBackup supported functionality for each CPU Architecture is listed in the tables below. Reference the MSFT web site for information on Editions.

NetBackup Master and Media Server are supported on Microsoft Windows Server 2008 R2 Editions: Standard, Enterprise, and Datacenter. Not supported on HPC. The NetBackup supported functionality for each CPU Architecture is listed in the tables below. Reference the MSFT web site for information on Editions.

NetBackup Client and Media Server are supported on Microsoft Storage Server 2008 and Microsoft Storage Server 2008 R2.

Windows Service Packs (SP) are supported by default, unless noted otherwise below.

Microsoft Windows Server 2008 - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Windows Server 2008	x86-32 [1]	32	Y	32	Y	Y	8.0
Windows Server 2008	x86-64	64	Y	64	Y	Y	8.0
Windows Server 2008 R2	x86-64	64	Y	64	Y	Y	8.0

1. Netbackup 8.1 and later does not support this CPU architecture.

Microsoft Windows Server 2008 - NetBackup Server

OS	CPU Architecture	OS Bits	NetBackup Master Server	NetBackup Media Server	NetBackup Bits	NBAC	OpsCenter Server	OpsCenter Managed Server	NDMP	Minimum NetBackup Level
Windows Server 2008	x86-64	64	Y	Y	64	Y	Y	Y	Y	8.0
Windows Server 2008 R2	x86-64	64	Y	Y	64	Y	Y	Y	Y	8.0

Microsoft Windows Server 2012

NetBackup Client is supported on Microsoft Windows Server 2012 Editions: Foundation, Essentials, Standard, and Datacenter, and with "core" option enabled or disabled. NetBackup supported functionality is listed in the tables below. 64-bit OS on Intel 64 and AMD64 architectures is supported.

NetBackup Master and Media Server are supported on Microsoft Windows Server 2012 Editions: Foundation, Essentials, Standard, and Datacenter, and with "core" option enabled or disabled. NetBackup supported functionality is listed in the tables below. 64-bit OS on Intel 64 and AMD64 architectures is supported.

Reference the MSFT web site for information on Editions.

NetBackup Client and Media Server are supported on Microsoft Storage Server 2012 and 2012 R2.

Windows Service Packs (SP) are supported by default, unless noted otherwise below.

Microsoft Windows Server 2012 - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Windows Server 2012 [1]	x86-64	64	Y	64	Y	Y	8.0
Windows Server 2012 R2 [1]	x86-64	64	Y	64	Y	Y	8.0

1. Refer to File System Compatibility table for support details regarding the Windows 2012 NTFS data deduplication feature, and the ReFS file system.

Microsoft Windows Server 2012 - NetBackup Server

OS	CPU Architecture	OS Bits	NetBackup Master Server	NetBackup Media Server	NetBackup Bits	NBAC	OpsCenter Server	OpsCenter Managed Server	NDMP	Minimum NetBackup Level
Windows Server 2012 [1]	x86-64	64	Y	Y	64	Y	Y	Y	Y	8.0
Windows Server 2012 R2 [1]	x86-64	64	Y	Y	64	Y	Y	Y	Y	8.0

1. Refer to File System Compatibility table for support details regarding the Windows 2012 NTFS data deduplication feature, and the ReFS file system.

Microsoft Windows Server 2016

NetBackup Client is supported on Microsoft Windows Server 2016 Editions: Foundation, Essentials, Standard, and Datacenter, and with "core" option enabled or disabled. NetBackup supported functionality is listed in the tables below. 64-bit OS on Intel 64 and AMD64 architectures is supported.

Reference the MSFT web site for information on Editions.

NetBackup Client is supported on Microsoft Storage Server 2016.

Windows Service Packs (SP) are supported by default, unless noted otherwise below.

Microsoft Windows Server 2016 - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Windows Server 2016 [1]	x86-64	64	Y	64	Y	Y	8.0

1. Refer to File System Compatibility table for support details regarding the Windows 2016 NTFS data deduplication feature, and the ReFS file system.

Microsoft Windows Server 2016 - NetBackup Server

OS	CPU Architecture	OS Bits	NetBackup Master Server	NetBackup Media Server	NetBackup Bits	NBAC	OpsCenter Server	OpsCenter Managed Server	NDMP	Minimum NetBackup Level
Windows Server 2016 [1]	x86-64	64	Y	Y	64	Y	Y	Y	Y	8.0

1. Refer to File System Compatibility table for support details regarding the Windows 2016 NTFS data deduplication feature, and the ReFS file system.

Microsoft Windows Vista

NetBackup Client is supported on the following Microsoft Windows Vista Editions:

Enterprise (32-bit and 64-bit)

Ultimate (32-bit and 64-bit)

BMR Boot Server is not supported on Windows Vista.

Microsoft Windows Vista - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Windows Vista Enterprise	x86-32 [1]	32	Y	32	Y		8.0
Windows Vista Enterprise	x86-64	64	Y	64	Y		8.0

1. Netbackup 8.1 and later does not support this CPU architecture.

Oracle Linux

NetBackup is supported on all editions (Advanced, Base, DC, etc.) and on all vendor GA updates (n.1, n.2, etc.) or service packs (SP1, SP2, etc.) unless stated otherwise in the tables below.

Oracle Linux - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Linux 7	x86-64	64	Y [1]	64	Y		8.0
Linux 6	x86-64	64	Y [1]	64	Y		8.0
Linux 5	x86-64	64	Y [1]	64	Y		8.0

1. NetBackup Client is supported on both the Oracle Unbreakable Linux Kernel and the Oracle Red Hat Compatible Kernel. This does not include SAN Client support.

Oracle Linux - NetBackup Server

OS	CPU Architecture	OS Bits	NetBackup Master Server	NetBackup Media Server	NetBackup Bits	NBAC	OpsCenter Server	OpsCenter Managed Server	NDMP	Minimum NetBackup Level
Linux 7	x86-64	64		Y [1]	64	Y	Y	Y	Y	8.0
Linux 6	x86-64	64		Y [1]	64	Y	Y	Y	Y	8.0
Linux 5	x86-64	64		Y [1]	64	Y	Y	Y	Y	8.0

1. NetBackup Media servers is supported on both the Oracle Unbreakable Linux Kernel and the Oracle Red Hat Compatible Kernel.

Oracle Solaris

Oracle Solaris - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Solaris 11	SPARC	64	Y	64	Y	Y	8.0
Solaris 11	x86-64	64	Y	64	Y	Y	8.0
Solaris 10 [1]	SPARC	64	Y	64	Y	Y	8.0
Solaris 10 [1]	x86-64	64	Y	64	Y	Y	8.0

1. Oracle Solaris 10 Update 11 or later is required.

Oracle Solaris - NetBackup Server

OS	CPU Architecture	OS Bits	NetBackup Master Server	NetBackup Media Server	NetBackup Bits	NBAC	OpsCenter Server	OpsCenter Managed Server	NDMP	Minimum NetBackup Level
Solaris 11	SPARC	64	Y	Y	64	Y		Y	Y	8.0
Solaris 11	x86-64	64	Y	Y	64	Y		Y	Y	8.0
Solaris 10 [1]	SPARC	64	Y	Y	64	Y		Y	Y	8.0
Solaris 10 [1]	x86-64	64	Y	Y	64	Y		Y	Y	8.0

1. Oracle Solaris 10 Update 11 or later is required.

Red Hat Enterprise Linux

NetBackup is supported on all editions (Advanced, Base, DC, etc.) and on all vendor GA updates (n.1, n.2, etc.) or service packs (SP1, SP2, etc.) unless stated otherwise in the tables below.

For Red Hat Security Enhanced Linux considerations refer to https://www.veritas.com/support/en_US/article.TECH76714 .

Red Hat Enterprise Linux - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
Enterprise Linux 7	x86-64	64	Y	64	Y	Y	8.0
Enterprise Linux 7	z/Architecture	64	Y	64	Y		8.0
Enterprise Linux 6	x86-64	64	Y	64	Y	Y	8.0
Enterprise Linux 6	z/Architecture	64	Y	64	Y		8.0
Enterprise Linux 5	x86-64 [1]	64	Y	64	Y	Y	8.0
Enterprise Linux 5	z/Architecture [1]	64	Y	64	Y		8.0

1. Netbackup 8.1 and later does not support this CPU architecture.

Red Hat Enterprise Linux - NetBackup Server

OS	CPU Architecture	OS Bits	NetBackup Master Server	NetBackup Media Server	NetBackup Bits	NBAC	OpsCenter Server	OpsCenter Managed Server	NDMP	Minimum NetBackup Level
Enterprise Linux 7	x86-64	64	Y	Y	64	Y	Y	Y	Y	8.0
Enterprise Linux 7	z/Architecture	64		Y	64	Y				8.0
Enterprise Linux 6	x86-64	64	Y	Y	64	Y	Y	Y	Y	8.0
Enterprise Linux 6	z/Architecture	64		Y	64	Y				8.0
Enterprise Linux 5	x86-64 [1]	64	Y	Y	64	Y	Y	Y	Y	8.0
Enterprise Linux 5	z/Architecture [1]	64		Y	64	Y				8.0

1. Netbackup 8.1 and later does not support this CPU architecture.

SUSE SUSE Linux Enterprise Server

NetBackup is supported on all editions (Advanced, Base, DC, etc.) and on all vendor GA updates (n.1, n.2, etc.) or service packs (SP1, SP2, etc.) unless stated otherwise in the tables below.

SUSE SUSE Linux Enterprise Server - NetBackup Client

OS	CPU Architecture	OS Bits	NetBackup Client	NetBackup Bits	NBAC	SAN Client	Minimum NetBackup Level
SUSE Linux Enterprise Server 12	x86-64	64	Y [1]	64	Y	Y	8.0
SUSE Linux Enterprise Server 12	z/Architecture	64	Y	64	Y		8.0
SUSE Linux Enterprise Server 11	x86-64	64	Y	64	Y	Y	8.0
SUSE Linux Enterprise Server 11	z/Architecture [2]	64	Y	64			8.0

1. BTRFS file system is not supported with sub-volumes and snapshots. Supported with known Issue : <http://www.veritas.com/docs/000106399>
2. SUSE Linux Enterprise Server 11 SP3 and later is supported.

SUSE SUSE Linux Enterprise Server - NetBackup Server

OS	CPU Architecture	OS Bits	NetBackup Master Server	NetBackup Media Server	NetBackup Bits	NBAC	OpsCenter Server	OpsCenter Managed Server	NDMP	Minimum NetBackup Level
SUSE Linux Enterprise Server 12	x86-64	64	Y [1]	Y	64	Y	Y	Y	Y	8.0
SUSE Linux Enterprise Server 12	z/Architecture	64		Y	64	Y				8.0
SUSE Linux Enterprise Server 11	x86-64	64	Y	Y	64	Y	Y	Y	Y	8.0
SUSE Linux Enterprise Server 11	z/Architecture [2]	64		Y	64	Y				8.0

1. SUSE Linux Enterprise Server 12 Service Pack 1 is supported with known Issue : <http://www.veritas.com/docs/000106399>
2. SUSE Linux Enterprise Server 11 SP3 and later is supported.

Active Directory Support

Active Directory is supported via the standard Windows file system agent when specifying System State:\ or Shadow Copy Components:\. Since it is a part of the standard system components, backup and recovery of Active Directory is supported on all Windows server platforms which NetBackup supports as a client.

Active Directory Granular Restore is a special restore option enabled by a policy selection. This option is also supported on all platforms in which Active Directory is supported by NetBackup.

Where support is shown for "Windows Server 2008 or Windows Server 2008 R2" it is implied that Standard Edition, Enterprise Edition, Datacenter Edition, and Web Edition are supported.

Where support is shown for "Windows Server 2012 or Windows Server 2012 R2" it is implied that Standard Edition, Datacenter Edition, Essentials Edition, and Foundation Edition are supported.

In IPV6-enabled NetBackup 8.0 and later environments, Granular Recovery Technology (GRT) is not supported for Active Directory.

Agent	OS	CPU Architecture	OS Bit
Active Directory Granular Restore	Windows Server 2016	x86-64	64
Active Directory Granular Restore	Windows Server 2012 R2	x86-64	64
Active Directory Granular Restore	Windows Server 2012	x86-64	64
Active Directory Granular Restore	Windows Server 2008 R2	x86-64	64
Active Directory Granular Restore	Windows Server 2008	x86-64	64
Active Directory Granular Restore	Windows Server 2008	x86-32 [1]	32

1. NetBackup 8.1 and later does not support this operating system on this CPU architecture.

Bare Metal Restore (BMR)

General Information

Bare Metal Restore Server (BMR server) is a feature of the Master Server.

- BMR Boot Server

BMR Boot Server is supported on the same Operating Systems as the BMR client. In case of Windows, BMR Boot Server bitness is not relevant. I.E., a Windows x86 boot server can boot x86 and x64 servers and visa-versa.

- BMR Boot Server Requirements

Please Reference the Requirements for Bare Metal Restore (BMR) Boot Servers document for comprehensive information, <<http://www.veritas.com/docs/000041982>>

Please refer to the following link for BMR supported configurations : <https://www.veritas.com/support/en_US/article.000127612>

Bare Metal Restore File System/Volume Manager Support

Listed in the table below are the available File Systems and Logical Volume Managers compatible with Bare Metal Restore 8.0 through 8.0.x. Support is conditional according to the published notes corresponding to the individual OS platforms.

The table below contains scenarios that have been thoroughly tested with NetBackup. Due to the number of combinations, it is not possible to test all combinations for compatibility. If a particular scenario is not listed, it may work fine, but has not been explicitly tested by Veritas.

Minimum NetBackup Level

The information in this column is the minimum level of NetBackup that must be installed on the BMR Client to support the associated OS platform.

Where support is shown for "Windows Server 2008" or "Windows Server 2008 R2" it is implied that Standard Edition, Enterprise Edition, Datacenter Edition, and Web Edition are supported.

Where support is shown for "Windows Server 2012" or "Windows Server 2012 R2" it is implied that Foundation Edition, Essentials Edition, Standard Edition, and Datacenter Edition are supported.

OS	File Systems	Volume Managers	Striping, Mirroring, RAID	Minimum NetBackup Level	Notes
AIX 6.1 POWER (TL0SP1 and above)	JFS2 VxFS 5.0 - 5.0 MP3	Native LVM, VxVM 5.0 - 5.0 MP3	All	8.0	1. Qualification is done with VxVM 5.0 and VxVM 5.0 MP3. 2. If a Veritas Volume Manager managed disk has the Cross Platform Data Sharing (CDS) enabled and you map that disk to an IDE disk the CDS capability will be lost. For more information reference the VxVM Administrators Guide.
AIX 6.1 POWER (TL4 and above)	JFS, JFS2 VxFS 5.0 - 6.0 RP1	Native LVM, VxVM 5.0 - 6.0 RP1	All	8.0	1. Qualification is done with VxVM 6.0 and 6.0 RP1. 2. If a Veritas Volume Manager managed disk has the Cross Platform Data Sharing (CDS) enabled and you map that disk to an IDE disk the CDS capability will be lost. For more information reference the VxVM Administrators Guide.
AIX 7.1 POWER (TL0SP1 and above)	JFS, JFS2 VxFS 5.0 - 6.0 RP1	Native LVM, VxVM 5.0 - 6.0 RP1	All	8.0	1. Qualification is done with VxVM 6.0 and 6.0 RP1. 2. If a Veritas Volume Manager managed disk has the Cross Platform Data Sharing (CDS) enabled and you map that disk to an IDE disk the CDS capability will be lost. For more information reference the VxVM Administrators Guide.
CentOS 6 (x64)	EXT2, EXT3, EXT4	Native Partitioning, Native LVM	Striping, Mirroring, MultiDevices all layouts	8.0	1. Support for Linux multidevices is limited, and BMR may not restore some configurations exactly. 2. If the root file system is created on a Linux multidevice, when performing a dissimilar disk restore you must map the root file system and retain the original level (for example, if the original level is RAID-1 the mapped file system must also be RAID-1). If the level is changed, the kernel may panic and the system may not recover. 3. Supports recovery of non-root filesystems via Linux Native Multi-pathing.

OS	File Systems	Volume Managers	Striping, Mirroring, RAID	Minimum NetBackup Level	Notes
HP-UX 11.31 IA64	HFS, JFS, VxFS	Native LVM, VxVM 5.0	All	8.0	Support is limited for LVM and VxVM 1. For DDR operation, only volume size changing is supported. Re-mapping to different disks is not supported. 2. In case of VxVM, support is only the self restore of non-root/boot volumes. 3. Disk layout change, volume resizing and re-mapping to different disks is supported for LVM and VxVM. 4. VxVM 5.0.1 compatibility is a future effort. Use VxVM 5.0 based BMR SRT to restore clients with VxVM 5.0.1 based non system volumes.
Red Hat 5 (x64)	EXT2, EXT3, EXT4	Native Partitioning, Native LVM	Striping, Mirroring, MultiDevices all layouts	8.0	1. Support for Linux multidevices is limited, and BMR may not restore some configurations exactly.Recovery of Persistent Devices are not supported 2. If the root file system is created on a Linux multidevice, when performing a dissimilar disk restore you must map the root file system and retain the original level (for example, if the original level is RAID-1 the mapped file system must also be RAID-1). If the level is changed, the kernel may panic and the system may not recover. 3. Supports recovery of non-root filesystems via Linux Native Multi-pathing. Recovery of root filesystems using multi-pathing is not supported. 4. NetBackup 8.1 and later does not support this CPU architecture.
Red Hat 6 (x64)	EXT2, EXT3, EXT4	Native Partitioning, Native LVM	Striping, Mirroring, MultiDevices all layouts	8.0	1. Support for Linux multidevices is limited, and BMR may not restore some configurations exactly.Recovery of Persistent Devices are not supported 2. If the root file system is created on a Linux multidevice, when performing a dissimilar disk restore you must map the root file system and retain the original level (for example, if the original level is RAID-1 the mapped file system must also be RAID-1). If the level is changed, the kernel may panic and the system may not recover. 3. Supports recovery of non-root filesystems via Linux Native Multi-pathing. 4. Recovery of client with root filesystems on multipath (Linux Native Multi-pathing/EMC PowerPath)is supported from 7.6.0.2 forward.
Red Hat 7 (x64)	EXT2, EXT3, EXT4, XFS, VFAT	Native Partitioning, Native LVM	Striping, Mirroring, MultiDevices all layouts	8.0	1. Support for Linux multidevices is limited, and BMR may not restore some configurations exactly.Recovery of Persistent Devices are not supported 2. If the root file system is created on a Linux multidevice, when performing a dissimilar disk restore you must map the root file system and retain the original level (for example, if the original level is RAID-1 the mapped file system must also be RAID-1). If the level is changed, the kernel may panic and the system may not recover. 3. Supports recovery of non-root filesystems via Linux Native Multi-pathing. 4. Supports recovery of EFI machines along with GPT disks

OS	File Systems	Volume Managers	Striping, Mirroring, RAID	Minimum NetBackup Level	Notes
Solaris 10 SPARC	UFS, VxFS 5.0 and 5.0 MP3	SVM, VxVM 5.0 and 5.0 MP3	All	8.0	1. Qualification is done with VxVM 5.0 and VxVM 5.0 MP3. 2. If a Veritas Volume Manager managed disk has the Cross Platform Data Sharing (CDS) enabled and you map that disk to an IDE disk the CDS capability will be lost. For more information reference the VxVM Administrators Guide. 3. SVM database replicas, disk sets, and volumes are fully recreated and SVM remains active after a BMR restore. 4. For mixed versions of VxVM and VxFS, install the latest version of the Veritas licensing software into the SRT. 5. VxVM/VxFS cannot be patched in SRT.
Solaris 10 SPARC	UFS, VxFS 5.0 forward and including 5.1	VxVM 5.0 forward and including 5.1	All	8.0	1. Qualification is done with VxVM 5.1. 2. If a Veritas Volume Manager managed disk has the Cross Platform Data Sharing (CDS) enabled and you map that disk to an IDE disk the CDS capability will be lost. For more information reference the VxVM Administrators Guide. 3. For mixed versions of VxVM and VxFS, install the latest version of the Veritas licensing software into the SRT. 4. VxVM/VxFS cannot be patched in SRT.
Solaris 10 SPARC (Update 8 and above)	ZFS	ZFS	All	8.0	
Solaris 11 SPARC (GA and above)	ZFS	ZFS	All	8.0	
Solaris 10 x64	UFS, VxFS 5.0 and 5.0 MP3	SVM, VxVM 5.0 and 5.0 MP3	All	8.0	1. Qualification is done with VxVM 5.0 and VxVM 5.0 MP3. 2. Support for Solaris native SVM was added in NetBackup 7.0.1. 3. SVM database replicas, disk sets, and volumes are fully recreated and SVM remains active after the BRM restore. 4. If a Veritas Volume Manager managed disk has the Cross Platform Data Sharing (CDS) enabled and you map that disk to an IDE disk the CDS capability will be lost. For more information reference the VxVM Administrators Guide. 5. For mixed versions of VxVM and VxFS, install the latest version of the Veritas licensing software into the SRT. 6. VxVM/VxFS cannot be patched in SRT.

OS	File Systems	Volume Managers	Striping, Mirroring, RAID	Minimum NetBackup Level	Notes
Solaris 10 x64	UFS, VxFS 5.0 forward and including 5.1	VxVM 5.0 forward and including 5.1	All	8.0	1. Qualification is done with VxVM 5.1. 2. If a Veritas Volume Manager managed disk has the Cross Platform Data Sharing (CDS) enabled and you map that disk to an IDE disk the CDS capability will be lost. For more information reference the VxVM Administrators Guide. 3. For mixed versions of VxVM and VxFS, install the latest version of the Veritas licensing software into the SRT. 4. VxVM/VxFS cannot be patched in SRT.
Solaris 10 x64 (Update 8 and above)	ZFS	ZFS	All	8.0	
Solaris 11 x64 (GA and above)	ZFS	ZFS	All	8.0	
SUSE Linux Enterprise Server 11 (x64)	EXT2, EXT3, Reiserfs	Native Partitioning, Native LVM	Striping, Mirroring, MultiDevices all layouts	8.0	1. Support for Linux multidevices is limited, and BMR may not restore some configurations exactly.Recovery of Persistent Devices are not supported 2. If the root file system is created on a Linux multidevice, when performing a dissimilar disk restore you must map the root file system and retain the original level (for example, if the original level is RAID-1 the mapped file system must also be RAID-1). If the level is changed, the kernel may panic and the system may not recover. 3. Supports recovery of non-root filesystems via Linux Native Multi-pathing. 4. Recovery of client with root filesystems on multipath (Linux Native Multi-pathing/EMC PowerPath)is supported from 7.6.0.2 forward.
SUSE Linux Enterprise Server 12 (x64)	EXT2, EXT3, Reiserfs, XFS, BTRFS	Native Partitioning, Native LVM	Striping, Mirroring, MultiDevices all layouts	8.0	1. Support for Linux multidevices is limited, and BMR may not restore some configurations exactly.Recovery of Persistent Devices are not supported 2. If the root file system is created on a Linux multidevice, when performing a dissimilar disk restore you must map the root file system and retain the original level (for example, if the original level is RAID-1 the mapped file system must also be RAID-1). If the level is changed, the kernel may panic and the system may not recover. 3. Supports recovery of non-root filesystems via Linux Native Multi-pathing. 4. BTRFS file system is not supported with sub-volumes and snapshots.
Oracle Linux 5 (x64)	EXT2, EXT3, EXT4	Native Partitioning, Native LVM	Striping, Mirroring, MultiDevices all layouts	8.0	1. Support for Linux multidevices is limited, and BMR may not restore some configurations exactly.Recovery of Persistent Devices are not supported 2. If the root file system is created on a Linux multidevice, when performing a dissimilar disk restore you must map the root file system and retain the original level (for example, if the original level is RAID-1 the mapped file system must also be RAID-1). If the level is changed, the kernel may panic and the system may not recover. 3. Supports recovery of non-root filesystems via Linux Native Multi-pathing. Recovery of root filesystems using multi-pathing is not supported.

OS	File Systems	Volume Managers	Striping, Mirroring, RAID	Minimum NetBackup Level	Notes
Oracle Linux 6 (x64)	EXT2, EXT3, EXT4	Native Partitioning, Native LVM	Striping, Mirroring, MultiDevices all layouts	8.0	1. Support for Linux multidevices is limited, and BMR may not restore some configurations exactly. Recovery of Persistent Devices are not supported 2. If the root file system is created on a Linux multidevice, when performing a dissimilar disk restore you must map the root file system and retain the original level (for example, if the original level is RAID-1 the mapped file system must also be RAID-1). If the level is changed, the kernel may panic and the system may not recover. 3. Supports recovery of non-root filesystems via Linux Native Multi-pathing. Recovery of root filesystems using multi-pathing is not supported.
Oracle Linux 7 (x64)	EXT2, EXT3, EXT4, XFS	Native Partitioning, Native LVM	Striping, Mirroring, MultiDevices all layouts	8.0	1. Support for Linux multidevices is limited, and BMR may not restore some configurations exactly. Recovery of Persistent Devices are not supported 2. If the root file system is created on a Linux multidevice, when performing a dissimilar disk restore you must map the root file system and retain the original level (for example, if the original level is RAID-1). If the level is changed, the kernel may panic and the system may not recover. 3. Supports recovery of non-root filesystems via Linux Native Multi-pathing.
Windows Server 2008 x86 (32-bit)	FAT32, NTFS	Windows LDM	All	8.0	NetBackup Client 8.1 and later does not support this CPU architecture.
Windows Server 2008 x64 (64-bit)	FAT32, NTFS	Windows LDM	All	8.0	
Windows Server 2008 R2 x64 (64-bit)	FAT32, NTFS	Windows LDM	All	8.0	
Windows Server 2012 x64 (64-bit)	FAT32, NTFS, ReFS	Windows LDM	All	8.0	
Windows Server 2012 R2 x64 (64-bit)	FAT32, NTFS, ReFS	Windows LDM	All	8.0	
Windows 7 x86 (32-bit)	FAT32, NTFS	Windows LDM	All	8.0	No support for SFW on this platform. NetBackup Client 8.1 and later does not support this CPU architecture.
Windows 7 x64 (64-bit)	FAT32, NTFS	Windows LDM	All	8.0	No support for SFW on this platform.
Windows 8 x64 (64-bit)	FAT32, NTFS	Windows LDM	All	8.0	No support for SFW on this platform.
Windows 8.1 x64 (64-bit)	FAT32, NTFS	Windows LDM	All	8.0	No support for SFW on this platform.

OS	File Systems	Volume Managers	Striping, Mirroring, RAID	Minimum NetBackup Level	Notes
Windows Vista x86 (32-bit)	FAT32, NTFS	Windows LDM	All	8.0	No support for SFW on this platform. NetBackup Client 8.1 and later does not support this CPU architecture.
Windows Vista x64 (64-bit)	FAT32, NTFS	Windows LDM	All	8.0	No support for SFW on this platform.
Windows 10 x64 (64-bit)	FAT32, NTFS	Windows LDM	All	8.0	No support for SFW on this platform.

Acronyms

LDM - Logical Disk Manager

LVM - Logical Volume Manager

SFW - Storage Foundation for Windows

SRT - Shared Resource Tool

SVM - Solaris Volume Manager

VxFS - Veritas File System

VxVM - Veritas Volume Manager

Clustered Master Server Compatibility

See NetBackup High Availability Administrator's Guide <http://www.veritas.com/docs/000003214> for details. Cluster compatibility is only listed for NetBackup Components that are cluster aware. NetBackup clients and agents are supported in cluster environments but are not cluster aware.

For Linux distributions shown in the tables below, NetBackup is supported on all "editions" and on all vendor GA updates (n.1, n.2, etc.) or service packs (SP1, SP2, etc.) unless otherwise footnoted in this document or in the NetBackup OS Compatibility List. <http://www.veritas.com/docs/000040842>

For information about certain NetBackup features, functionality, 3rd-party product integration, Veritas product integration, applications, databases, and OS platforms that Veritas intends to replace with newer and improved functionality, or in some cases, discontinue without replacement, please see the widget titled "NetBackup Future Platform and Feature Plans" at <https://sort.veritas.com/netbackup>

Cluster Type	Version	OS	CPU Architecture	Minimum NetBackup Level
VCS (InfoScale)	7.3	Red Hat Enterprise Linux 7.4	x86-64	8.1
VCS (InfoScale)	7.3	Red Hat Enterprise Linux 7.3	x86-64	8.1
VCS (InfoScale)	7.2	Red Hat Enterprise Linux 7.3	x86-64	8.1
VCS (InfoScale)	7.1	Red Hat Enterprise Linux 7.3	x86-64	8.1
VCS (InfoScale)	7.3	Red Hat Enterprise Linux 7.2	x86-64	8.1
VCS (InfoScale)	7.2	Red Hat Enterprise Linux 7.2	x86-64	8.1
VCS (InfoScale)	7.1	Red Hat Enterprise Linux 7.2	x86-64	8.1
VCS (InfoScale)	7.3	Red Hat Enterprise Linux 7.1	x86-64	8.1
VCS (InfoScale)	7.2	Red Hat Enterprise Linux 7.1	x86-64	8.1
VCS (InfoScale)	7.1	Red Hat Enterprise Linux 7.1	x86-64	8.1
VCS (InfoScale)	7.3	Windows Server 2016	x86-64	8.1
VCS (InfoScale)	7.2	Windows Server 2016	x86-64	8.1
VCS (InfoScale)	7.3	Red Hat Enterprise Linux 7.3	x86-64	8.0
VCS (InfoScale)	7.3	Red Hat Enterprise Linux 6.8	x86-64	8.0
VCS (InfoScale)	7.3	Red Hat Enterprise Linux 6.9	x86-64	8.0
VCS (InfoScale)	7.2	Solaris 11	SPARC	8.0
VCS (InfoScale)	7.2	Red Hat Enterprise Linux 7.3	x86-64	8.0
VCS (InfoScale)	7.2	SUSE Enterprise Linux Server 12	x86-64	8.0

Cluster Type	Version	OS	CPU Architecture	Minimum NetBackup Level
VCS (InfoScale)	7.2	SUSE Enterprise Linux Server 11	x86-64	8.0
VCS (InfoScale)	7.2	Red Hat Enterprise Linux 7.1	x86-64	8.0
VCS (InfoScale)	7.2	Red Hat Enterprise Linux 7.2	x86-64	8.0
VCS (InfoScale)	7.2	Red Hat Enterprise Linux 6.8	x86-64	8.0
VCS (InfoScale)	7.2	Red Hat Enterprise Linux 6.9	x86-64	8.0
VCS (InfoScale)	7.2	Windows Server 2016	x86-64	8.0
VCS (InfoScale)	7.2	Windows Server 2012 R2	x86-64	8.0
VCS (InfoScale)	7.2	Windows Server 2012	x86-64	8.0
VCS (InfoScale)	7.1	Solaris 10	SPARC	8.0
VCS (InfoScale)	7.1	AIX 7.2	x86-64	8.0
VCS (InfoScale)	7.1	Red Hat Enterprise Linux 7.3	x86-64	8.0
VCS (InfoScale)	7.1	Red Hat Enterprise Linux 7.2	x86-64	8.0
VCS (InfoScale)	7.1	Red Hat Enterprise Linux 7.1	x86-64	8.0
VCS (InfoScale)	7.1	Red Hat Enterprise Linux 6.8	x86-64	8.0
VCS (InfoScale)	7.1	Red Hat Enterprise Linux 6.9	x86-64	8.0
VCS (InfoScale)	7.1	Windows Server 2012	x86-64	8.0
VCS (InfoScale)	7.1	Windows Server 2012 R2	x86-64	8.0
VCS (InfoScale)	7.1	SUSE Enterprise Linux Server 11	x86-64	8.0
VCS (InfoScale)	7.1	SUSE Enterprise Linux Server 12	x86-64	8.0
HACMP PowerHA Cluster Manager	5.4.1	AIX 6.1	POWER	8.0
PowerHA Cluster Manager	5.5	AIX 6.1	POWER	8.0
PowerHA Cluster Manager	6.1	AIX 6.1	POWER	8.0
PowerHA Cluster Manager	7.1	AIX 7.1	POWER	8.0
SunCluster	3.2	Solaris 10	SPARC	8.0
SunCluster	3.2	Solaris 10	x86-64	8.0
SunCluster	3.3	Solaris 10	SPARC	8.0
SunCluster	3.3	Solaris 10	x86-64	8.0
Solaris Cluster	4.0	Solaris 11	SPARC	8.0

Cluster Type	Version	OS	CPU Architecture	Minimum NetBackup Level
Solaris Cluster	4.0	Solaris 11	x86-64	8.0
WSFC [1]	2008	Windows Server 2008	x86-64	8.0
WSFC [1]	2008	Windows Server 2008 R2	x86-64	8.0
WSFC [1]	2012	Windows Server 2012	x86-64	8.0
WSFC [1]	2012 R2	Windows Server 2012 R2	x86-64	8.0
WSFC [1]	2016	Windows Server 2016	x86-64	8.0
VCS (SFWHA)	7.0	Windows Server 2012	x86-64	8.0 [2] [3]
VCS (SFWHA)	7.0	Windows Server 2012 R2	x86-64	8.0 [2] [3]
HP Service Guard MC SG	11.18	HP-UX 11.31	IA64	8.0
HP Service Guard MC SG	11.19	HP-UX 11.31	IA64	8.0
HP Service Guard MC SG	11.20	HP-UX 11.31	IA64	8.0
VCS (SFHA)	6.2	Red Hat Enterprise Linux 6 [4]	x86-64	8.0
VCS (SFHA)	6.2.1	Red Hat Enterprise Linux 7	x86-64	8.0 [2]

1. Windows Server Failover Cluster (WSFC), formerly MSCS.
2. FlashBackup is not currently supported when using Storage Foundation 6 or greater volume manager.
3. VSS based snapshot at a volume-level is supported, but snapshots at a LUN level will not work due to a Microsoft issue.
4. RHEL 6 Update 5 or later required.

Clustered Master Server Storage Stacks

The table below captures the NetBackup clustering solution supported volume manager on shared disk. For example, when configuring NetBackup on a Linux OS VCS cluster, the only supported volume manager for the shared disk used by NetBackup is VxVM.

Note that the table below does not include OS versions. Please see the preceding table for specific OS version support.

NetBackup support of the FlashBackup policy with Storage Foundation 6 volume manager is scheduled for a future NetBackup release.

NetBackup support of Storage Foundation 6 features of Deduplication and Compression is scheduled for a future NetBackup release.

Cluster Technology	OS	Storage Stack
HACMP	AIX [1]	VxVM, LVM
HPSG	HP-UX [1]	VxVM, Veritas Cluster Volume Manger, LVM
MSCS/WSFC	Windows [1]	VxVM, LDM
Sun Cluster	Solaris [1]	VxVM, SVM, HAStoragePlus
Solaris Cluster	Solaris [1]	VxVM, SVM, HAStoragePlus, ZFS
VCS	AIX [1]	VxVM, LVM
VCS	HP-UX [1]	VxVM, LVM
VCS	Linux [1]	VxVM
VCS	Solaris [1]	VxVM
VCS	Windows [1] [2]	VxVM

1. Supported on all OS versions as noted in the preceding table.
2. With VCS 6.0 (VCSW/SFWHA 6.0) VSS based snapshot at a volume-level is supported, but snapshots at a LUN level will not work due to a Microsoft issue.

Client Selections for Backup Policies

The information in the Client Selection column of the table below is the client type that should be selected when installing NetBackup as a client on the Operating System/Version and Architecture listed in this table.

Where support is shown for "Windows Server 2008" or "Windows Server 2008 R2" it is implied that Standard Edition, Enterprise Edition, Datacenter Edition, and Web Edition are supported.

Where support is shown for "Windows Server 2012" or "Windows Server 2012 R2" it is implied that Standard Edition, Datacenter Edition, Essentials Edition, and Foundation Edition are supported.

OS	CPU Architecture	NetBackup 8.0 Client Selection
AIX 7.1, 7.2	POWER	RS6000,AIX6
AIX 6.1	POWER	RS6000,AIX6
Canonical Ubuntu 16.04	x86-64	Linux,Debian2.6.18
Canonical Ubuntu 15.04	x86-64 [1]	Linux,Debian2.6.18
Canonical Ubuntu 14.10	x86-64 [1]	Linux,Debian2.6.18
Canonical Ubuntu 14.04	x86-64 [1]	Linux,Debian2.6.18
Canonical Ubuntu 12.04	x86-64 [1]	Linux,Debian2.6.18
CentOS 7	x86-64	Linux,RedHat2.6.18
CentOS 6	x86-64	Linux,RedHat2.6.18
CentOS 5	x86-64 [1]	Linux,RedHat2.6.18
Debian GNU/Linux 8	x86-64	Linux,Debian2.6.18
Debian GNU/Linux 7	x86-64	Linux,Debian2.6.18
HP-UX 11.31	IA64	HP-UX-IA64,HP-UX11.31
Linx 6.0 Update 60	x86-64	Linux, Debian 2.6.18
NeoKylin Linux Advanced Server 7.0 Update 2	x86-64	Linux, Debian 2.6.18
NeoKylin Linux Advanced Server 6.0 Update7	x86-64	Linux, Debian 2.6.18
Mac OS X 10.10	x86-64	MACINTOSH,MacOSX 10.8
Mac OS X 10.9	x86-64	MACINTOSH,MacOSX 10.8
Mac OS X 10.8	x86-64	MACINTOSH,MacOSX 10.8

OS	CPU Architecture	NetBackup 8.0 Client Selection
Novell Open Enterprise Server 11	x86-64	Linux,SuSE2.6.16
Novell Open Enterprise Server 2	x86-64	Linux,SuSE2.6.16
OpenVMS 8.4	IA64	OpenVMS,OpenVMS_I64
OpenVMS 8.3	IA64	OpenVMS,OpenVMS_I64
OpenVMS 8.2	IA64	OpenVMS,OpenVMS_I64
Oracle Linux 7	x86-64	Linux,RedHat2.6.18
Oracle Linux 6	x86-64	Linux,RedHat2.6.18
Oracle Linux 5	x86-64	Linux,RedHat2.6.18
Red Hat Enterprise Linux 7	x86-64	Linux,RedHat2.6.18
Red Hat Enterprise Linux 7	z/Architecture	Linux-s390x,IBMcSeriesRedHat2.6.18
Red Hat Enterprise Linux 6	x86-64	Linux,RedHat2.6.18
Red Hat Enterprise Linux 6	z/Architecture	Linux-s390x,IBMcSeriesRedHat2.6.18
Red Hat Enterprise Linux 5	x86-64 [1]	Linux,RedHat2.6.18
Red Hat Enterprise Linux 5	z/Architecture [1]	Linux-s390x,IBMcSeriesRedHat2.6.18
Solaris 11	SPARC	Solaris,Solaris10
Solaris 11	x86-64	Solaris,Solaris_x86_10_64
Solaris 10	SPARC	Solaris,Solaris10
Solaris 10	x86-64	Solaris,Solaris_x86_10_64
SUSE Linux Enterprise Server 12	x86-64	Linux,SuSE2.6.16
SUSE Linux Enterprise Server 12	z/Architecture	Linux-s390x,IBMcSeriesSuSE2.6.16
SUSE Linux Enterprise Server 11	x86-64	Linux,SuSE2.6.16
SUSE Linux Enterprise Server 11	z/Architecture	Linux-s390x,IBMcSeriesSuSE2.6.16
Windows Server 2016	x86-64	Windows-x64,Windows
Windows Storage Server 2016	x86-64	Windows-x64,Windows
Windows Server 2012 and R2	x86-64	Windows-x64,Windows
Windows Storage Server 2012 and R2	x86-64	Windows-x64,Windows
Windows Server 2008	x86-32 [1]	Windows-x86,Windows
Windows Server 2008 and R2	x86-64	Windows-x64,Windows

OS	CPU Architecture	NetBackup 8.0 Client Selection
Windows 10	x86-64	Windows-x64, Windows
Windows 8	x86-64	Windows-x64, Windows
Windows 8.1	x86-64	Windows-x64, Windows
Windows 7	x86-32	Windows-x86, Windows
Windows 7	x86-64	Windows-x64, Windows
Windows Vista	x86-32	Windows-x86, Windows
Windows Vista	x86-64	Windows-x64, Windows

1. NetBackup 8.1 and later does not support this operating system on this CPU architecture.

Compatibility between NetBackup versions

For compatibility between major versions, the latest available release of NetBackup is compatible with media servers and clients that run a release of NetBackup that is up to one major version behind. However, this compatibility ceases to be supported in any configuration once the previous major version has reached its End of Support Life.

For information on Veritas End of Life Policy, refer to https://www.veritas.com/support/en_US/article.000116439

NetBackup does not support any scenario where a media server or client runs a software release update version that is higher than that of their Master server. For more information, refer to the NetBackup Release Notes and the NetBackup Upgrade Guide: https://www.veritas.com/support/en_US/article.000116412

NetBackup Master Server	NetBackup Media Server	NetBackup Client
8.0	7.0	7.0
8.0	7.0.1	7.0, 7.0.1
8.0	7.1, 7.1.0.x	7.0, 7.0.1, 7.1, 7.1.0.x
8.0	7.5, 7.5.0.x	7.0, 7.0.1, 7.1, 7.1.0.x, 7.5, 7.5.0.x
8.0	7.6, 7.6.0.x	7.0, 7.0.1, 7.1, 7.1.0.x, 7.5, 7.5.0.x, 7.6, 7.6.0.x
8.0	7.6.1, 7.6.1.x	7.0, 7.0.1, 7.1, 7.1.0.x, 7.5, 7.5.0.x, 7.6, 7.6.0.x, 7.6.1, 7.6.1.x
8.0	7.7	7.0, 7.0.1, 7.1, 7.1.0.x, 7.5, 7.5.0.x, 7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7
8.0	7.7.1	7.0, 7.0.1, 7.1, 7.1.0.x, 7.5, 7.5.0.x, 7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1
8.0	7.7.2	7.0, 7.0.1, 7.1, 7.1.0.x, 7.5, 7.5.0.x, 7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1, 7.7.2
8.0	7.7.3	7.0, 7.0.1, 7.1, 7.1.0.x, 7.5, 7.5.0.x, 7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3
8.0	8.0	7.0, 7.0.1, 7.1, 7.1.0.x, 7.5, 7.5.0.x, 7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3, 8.0
8.1	7.7	7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7
8.1	7.7.1	7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1
8.1	7.7.2	7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1, 7.7.2
8.1	7.7.3	7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3
8.1	8.0	7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3, 8.0
8.1	8.1	7.6, 7.6.0.x, 7.6.1, 7.6.1.x, 7.7, 7.7.1, 7.7.2, 7.7.3, 8.0, 8.1

Other general rules for compatibility:

- OpsCenter/OpsCenter Analytics must always be running the same or higher Dot-Zero or Single-Dot or Double-Dot release as the master servers in the environment.
- All components (master, media, client, console, and agent) on an individual system must be at the same version.
- Backup images created under an older version of NetBackup will always be recoverable with a newer version of NetBackup

- A new feature may not be functional until the master, media and client are updated.
- Administration Consoles cannot be at an earlier version than the NetBackup server version they connect to via the "change server" functionality in the console

Deduplication Supported Operating Systems

If you are looking for information regarding PureDisk support, and not media server deduplication, reference article <http://www.veritas.com/docs/000008731>

For further details on recommended hardware reference NetBackup Deduplication: Additional Usage Information: <http://www.veritas.com/docs/000041111> .

Where support is shown for "Windows Server 2008" or "Windows Server 2008 R2" it is implied that Standard Edition, Enterprise Edition, Datacenter Edition, and Web Edition are supported.

Where support is shown for "Windows Server 2012", or "Windows Server 2012 R2" it is implied that Foundation Edition, Essentials Edition, Standard Edition, and Datacenter Edition are supported.

Media Server Deduplication (MSDP) is supported in an Infrastructure as a Service (IaaS) environment on any cloud platform that meets minimum requirements. For additional details on minimum and recommended configurations see NetBackup Media Server Deduplication (MSDP) in the Cloud https://www.veritas.com/support/en_US/article.000004584.

OS	CPU Architecture	Media Server Dedupe	Client Deduplication	Minimum NetBackup Level
AIX 7.1	POWER	Yes	Yes	8.0
AIX 6.1	POWER	Yes	Yes	8.0
HP-UX 11.31	IA64	Yes	Yes	8.0
Oracle Linux 7	x86-64	Yes	Yes	8.0
Oracle Linux 6	x86-64	Yes	Yes	8.0
Red Hat Enterprise Linux 7	x86-64	Yes	Yes	8.0
Red Hat Enterprise Linux 6	x86-64	Yes	Yes	8.0
Red Hat Enterprise Linux 5	x86-64 [1]	Yes	Yes	8.0
Solaris 11 [2]	x86-64	Yes	Yes	8.0
Solaris 10 [2]	x86-64	Yes	Yes	8.0
Solaris 11 [2]	SPARC	Yes	Yes	8.0
Solaris 10 [2]	SPARC	Yes	Yes	8.0
SUSE Enterprise Linux Server 12	x86-64	Yes	Yes	8.0
SUSE Enterprise Linux Server 11	x86-64	Yes	Yes	8.0
Windows Server 2016 Storage Server	x86-64 (64-bit only)	Yes	Yes	8.0
Windows Server 2016 [3]	x86-64	Yes	Yes	8.0

OS	CPU Architecture	Media Server Dedupe	Client Deduplication	Minimum NetBackup Level
Windows Server 2012 R2 Storage Server	x86-64 (64-bit only)	Yes	Yes	8.0
Windows Server 2012 R2 [4]	x86-64	Yes	Yes	8.0
Windows Server 2012 [4]	x86-64	Yes	Yes	8.0
Windows Server 2008 R2	x86-64 (64-bit only)	Yes	Yes	8.0
Windows Server 2008 R2 Storage Server	x86-64 (64-bit only)	Yes	Yes	8.0
Windows Server 2008	x86-64 (64-bit only)	Yes	Yes	8.0
Windows Server 2008 Storage Server	x86-64 (64-bit only)	Yes	Yes	8.0
Windows 8	x86-64	No	Yes	8.0
Windows 7	x86-64	No	Yes	8.0

1. NetBackup 8.1 and later does not support this operating system on this CPU architecture.
2. ZFS file system is not supported as a backend storage location for a MSDP disk pool.
3. See the File System Compatibility table for support details regarding the Windows 2016 NTFS data deduplication feature, and the ReFS file system.
4. See the File System Compatibility table for support details regarding the Windows 2012 NTFS data deduplication feature, and the ReFS file system.

File System Compatibility

NetBackup supports backing up file data on all POSIX compliant file systems. The table below represents the platform configurations that have been tested for compatibility with ACLs and other extended attributes. Unless otherwise noted in the table below, ACLs and other extended attributes are not supported.

NetBackup has improved its integration with the Veritas File System (VxFS) product to ensure interoperability on all compatible VxFS versions. If you run a VxFS version that is older than VxFS 4.0 then you need to install new VxFS libraries on the client to back up the systems that run VxFS. You can search and download the appropriate VxFS libraries to your system from Patch Central on the Veritas Support Web site. See, <https://sort.veritas.com/patch/finder.>>

Note :

- For Linux Operating Systems, the backup and restore of extended attributes set by the chattr command on XFS, ZFS, BTRFS etc. is not supported
- Cross platform restore of extended attributes is not supported.

OS	Versions	CPU Architecture	File System	ACL	Other Extended Attributes or Named Data Streams	Notes / Exceptions
AIX	6.1, 7.1	POWER	VxFS	Yes	Yes	- Support for file system compression on VxFS requires Storage Foundation 6.0.1 or later. Please check Storage Foundation Release Notes for Operating System levels. - Flashbackup does not support Disk Layout Versions 8 or greater. Disk Layout Version 8 was introduced in VxFS 5.1
AIX	7.1, 7.2	POWER	GPFS 3.5, GPFS 4.1, GPFS 4.1.1, GPFS 4.2, GPFS 4.2.2	Yes	Yes	GPFS metadata is supported in NetBackup (ACLs, EAs, StoragePools, and Replication).
AIX	6.1, 7.1, 7.2	POWER	JFS/JFS2	Yes	No	
CentOS	5, 6, 7	x86-64	Ext2, Ext3, Ext4, XFS, VxFS	Yes	Yes	- Support for file system compression on VxFS requires Storage Foundation 6.0.1 or later. Please check Storage Foundation Release Notes for Operating System levels.
Debian GNU/Linux	7,8,9	x86-64	Ext2, Ext3, Ext4, XFS, JFS	Yes	Yes	XFS and JFS support starts from Debian 9
HP-UX	11.31	IA64	Base JFS or UFS	Yes	Yes	
HP-UX	11.31	IA64	VxFS	Yes	Yes	- Support for file system compression on VxFS requires Storage Foundation 6.0.1 or later. Please check Storage Foundation Release Notes for Operating System levels. - Flashbackup does not support Disk Layout Versions 8 or greater. Disk Layout Version 8 was introduced in VxFS 5.1
Linx	6.0	x86-64	Ext2, Ext3, Ext4	Yes	Yes	- Update 60 and later

OS	Versions	CPU Architecture	File System	ACL	Other Extended Attributes or Named Data Streams	Notes / Exceptions
NeoKylin Linux Advanced Server	7.0	x86-64	Ext2, Ext3, Ext4	Yes	Yes	- Update 2 and later
NeoKylin Linux Advanced Server	6.0	x86-64	Ext2, Ext3, Ext4	Yes	Yes	- Update 7 and later
Mac OS X	10.8, 10.9, 10.10	x86-64	HFS/HFS+	Yes	Yes	- Resource forks supported. - HFS compression is not supported when restoring files; data is restored in uncompressed format.
Novell Open Enterprise Server	2	x86-64	Ext2, Ext3, ReiserFS, XFS, NSS, VxFS	Yes	Yes	- Support for file system compression on VxFS requires Storage Foundation 6.0.1 or later. Please check Storage Foundation Release Notes for Operating System levels. - NSS file system attributes, rich ACLs, trustees, and multiple data streams are not supported. - Flashbackup does not support Disk Layout Versions 8 or greater. Disk Layout Version 8 was introduced in VxFS 5.1
Novell Open Enterprise Server	11	x86-64	Ext2, Ext3, ReiserFS, XFS, NSS, VxFS	Yes	Yes	- Support for file system compression on VxFS requires Storage Foundation 6.0.1 or later. Please check Storage Foundation Release Notes for Operating System levels. - NSS file system attributes, rich ACLs, trustees, and multiple data streams are not supported. - Flashbackup does not support Disk Layout Versions 8 or greater. Disk Layout Version 8 was introduced in VxFS 5.1
Oracle Linux	5, 6, 7	x86-64	Ext2, Ext3, Ext4, XFS, VxFS	Yes	Yes	- Support for file system compression on VxFS requires Storage Foundation 6.0.1 or later. Please check Storage Foundation Release Notes for Operating System levels.
Red Hat	5, 6, 7	x86-64	Ext2, Ext3, Ext4, XFS, VxFS	Yes	Yes	- Support for file system compression on VxFS requires Storage Foundation 6.0.1 or later. Please check Storage Foundation Release Notes for Operating System levels. - Flashbackup does not support Disk Layout Versions 8 or greater. Disk Layout Version 8 was introduced in VxFS 5.1
Red Hat	7	x86-64	GPFS 4.1, GPFS 4.1.1, GPFS 4.2	Yes	Yes	GPFS metadata is supported in NetBackup (ACLs, EAs, StoragePools, and Replication). GPFS is not supported from Red Hat Enterprise Linux 7.3 as the default kernel version of Red Hat Enterprise Linux 7.3 is 3.10.0-514.el7.x86_64 and these file system versions supports until kernel 3.10.0-229.el7.x86_64
Red Hat	6	x86-64	GPFS 3.5, GPFS 4.1, GPFS 4.1.1, GPFS 4.2	Yes	Yes	GPFS metadata is supported in NetBackup (ACLs, EAs, StoragePools, and Replication).

OS	Versions	CPU Architecture	File System	ACL	Other Extended Attributes or Named Data Streams	Notes / Exceptions
Red Hat	5, 6, 7	x86-64	GFS2	Yes	No	
Red Hat	5, 6, 7	z/Architecture	Ext2, Ext3	No	Yes	
Solaris	10	SPARC	VxFS, UFS	Yes	Yes	- Support for file system compression on VxFS requires Storage Foundation 6.0.1 or later. Please check Storage Foundation Release Notes for Operating System levels. - Flashbackup does not support Disk Layout Versions 8 or greater. Disk Layout Version 8 was introduced in VxFS 5.1
Solaris	10	x86-64	VxFS, UFS	Yes	Yes	- Support for file system compression on VxFS requires Storage Foundation 6.0.1 or later. Please check Storage Foundation Release Notes for Operating System levels.
Solaris	10	SPARC	ZFS	Yes	Yes	- ZFS file system is not supported as a backend storage location for an MSDP disk pool.
Solaris	10	x86-64	ZFS	Yes	Yes	- ZFS file system is not supported as a backend storage location for an MSDP disk pool.
Solaris	11	SPARC	UFS, ZFS	Yes	Yes	- ZFS file system is not supported as a backend storage location for an MSDP disk pool.
Solaris	11	x86-64	UFS, ZFS	Yes	Yes	- ZFS file system is not supported as a backend storage location for an MSDP disk pool.
SUSE SLES	12	x86-64	Ext2, Ext3, Ext4, ReiserFS, XFS, BTRFS	Yes	Yes	BTRFS file system is not supported with sub-volumes and snapshots.
SUSE SLES	12	z/Architecture	Ext2, Ext3, Ext4, ReiserFS, XFS, BTRFS	No	Yes	BTRFS file system is not supported with sub-volumes and snapshots. EA is not supported from NetBackup 7.7.3 for SUSE 12 SP2
SUSE SLES	11	z/Architecture	Ext2, Ext3, ReiserFS	No	Yes	
SUSE SLES	10, 11	x86-64	Ext2, Ext3, Ext4, ReiserFS, XFS, NSS, VxFS	Yes	Yes	- Support for file system compression on VxFS requires Storage Foundation 6.0.1 or later. Please check Storage Foundation Release Notes for Operating System levels. - NSS file system attributes, rich ACLs, trustees, and multiple data streams are not supported. - Flashbackup does not support Disk Layout Versions 8 or greater. Disk Layout Version 8 was introduced in VxFS 5.1
Ubuntu	16.04	x86-64	Ext2, Ext3, Ext4	Yes	Yes	
Ubuntu	15.04	x86-64	Ext2, Ext3, Ext4	Yes	Yes	
Ubuntu	14.10	x86-64	Ext2, Ext3	Yes	Yes	

OS	Versions	CPU Architecture	File System	ACL	Other Extended Attributes or Named Data Streams	Notes / Exceptions
Ubuntu	12.04, 14.04	x86-64	Ext2, Ext3, VxFS	Yes	Yes	- Support for file system compression on VxFS requires Storage Foundation 6.0.1 or later. Please check Storage Foundation Release Notes for Operating System levels.
Windows	2008, Vista, 7	x86-32	NTFS	Yes	Yes	
Windows	2008, 2008 R2, 2012, 2012 R2, 2016, Vista, 7, 8, 10	x86-64	NTFS	Yes	Yes	Regarding the Microsoft Windows Server data deduplication feature: - NTFS deduplication volume may be backed up to any type of storage unit. - Optimized Backup occurs for NTFS deduplication volumes when possible. Per Microsoft design, any restore from Optimized Backup is non-optimized. This means, after restore, files are in non-optimized form until the next optimization is run by the OS schedule. Be sure adequate space is available for restore. - By design, TIR is not supported on NTFS deduplication volumes. - FlashBackup is not supported with NTFS deduplication volumes.
Windows	2012, 2012 R2, 2016	x86-64	ReFS	Yes	Yes	The ReFS file system is supported with the following caveats: - Installing the NetBackup master, media server or client components on an ReFS volume is not supported. - Restoring files backed up from an NTFS file system to an ReFS file system is not supported. As a workaround, restore the files the NTFS file system, remove attributed not supported by ReFS and then copy the files to the ReFS volume. - MSDP cannot be installed on an ReFS volume. - FlashBackup is not supported with the ReFS file system

NetBackup Administration Consoles

The NetBackup Java Administration Console is an interface to configure and manage NetBackup installed on the same machine. The interface can run on any NetBackup Java-capable system.

The Backup Archive and Restore (BAR) console is an interface to the NetBackup client. The Backup, Archive, and Restore utility performs backups and archives for the system on which it is installed and restores for this system and other clients.

For information on how to install the consoles mentioned above reference the NetBackup Installation Guides. And for information on usage reference the NetBackup Administrator's Guides.

The table below is a list of the platforms that support the NetBackup-Java Administration Console and the Backup Archive and Restore Interface.

Note, if a supported NetBackup client is not listed in the table below the client is supported for backup and restore, but it does not support any of the available graphical interfaces.

Where support is shown for "Windows Server 2008" or "Windows Server 2008 R2", it is implied that Standard Edition, Enterprise Edition, Datacenter Edition, and Web Edition are supported.

Where support is shown for "Windows Server 2012" it is implied that Standard Edition, Datacenter Edition, Essentials Edition, and Foundation Edition are supported.

Where support is shown for "Windows Server 2016" it is implied that Standard Edition, Datacenter Edition, Essentials Edition, and Foundation Edition are supported.

Administrative consoles for supported versions of NetBackup are included in the NetBackup installation packages.

Starting at version 8.1, console versions are installed for all versions of NetBackup that are not beyond their End of Support Life (EOSL).

For information on supported versions of NetBackup see [<https://sort.veritas.com/eosl.>](https://sort.veritas.com/eosl)

OS	CPU Architecture	NetBackup-Java Administration Console	Backup, Archive, and Restore Interface
AIX 7.2	POWER	Y	Y
AIX 7.1	POWER	Y	Y
AIX 6.1	POWER	Y	Y
HP-UX 11.31	IA64	Y [1]	Y
Red Hat 7	x64	Y	Y
Red Hat 7	z/Architecture	Y	Y
Red Hat 6	x64	Y	Y
Red Hat 6	z/Architecture	Y	Y
Red Hat 5	x64 [2]	Y	Y
Red Hat 5	z/Architecture [2]	Y	Y

OS	CPU Architecture	NetBackup-Java Administration Console	Backup, Archive, and Restore Interface
Solaris 11	SPARC	Y	Y
Solaris 11	x64	Y	Y
Solaris 10	SPARC	Y	Y
Solaris 10	x64	Y	Y
SUSE Linux Enterprise Server 12	z/Architecture	Y	Y
SUSE Linux Enterprise Server 12	x64	Y	Y
SUSE Linux Enterprise Server 11	x64	Y	Y
SUSE Linux Enterprise Server 11	z/Architecture	Y	Y
SUSE Linux Enterprise Server 10 SP2 and later	x64	Y	Y
Windows Server 2016	x64	Y	Y
Windows Server 2012 R2	x64	Y	Y
Windows Server 2012	x64	Y	Y
Windows Server 2008 R2	x64	Y	Y
Windows Server 2008	x86	N	Y
Windows Server 2008	x64	Y	Y
Windows 8.1	x64	Y	Y
Windows 8	x64	Y	Y
Windows 7	x86	N	Y
Windows 7	x64	Y [3]	Y
Windows Vista	x86	N	Y
Windows Vista	x64	Y	Y
Windows 10	x64	Y	Y
CentOS 5	x64 [2]	Y	Y
CentOS 6	x64	Y	Y
CentOS 7	x64	Y	Y
Oracle Linux 5	x64	Y	Y
Oracle Linux 6	x64	Y	Y
Oracle Linux 7	x64	Y	Y

1. The NetBackup Java user interface may not start in environments that run the HP-UX 11.31 operating system. To start properly, the Java user interface requires up-to-date patches to the HP-UX 11.31 operating system. Workaround: Before you launch the NetBackup Java user interface, you must install the HP-UX 11.31 patches that are required for Java™ 8.0 for the Quality Pack that you have installed on your system. For more information, see the following HP site: [<ftp://ftp.hp.com/pub/softlib/hpuxjava-patchinfo/index.html>](ftp://ftp.hp.com/pub/softlib/hpuxjava-patchinfo/index.html)
2. NetBackup 8.1 and later does not support this operating system on this CPU architecture.
3. Reference Article; TECH63372 Windows 7 Java Console Disappearing [<http://www.veritas.com/docs/000035201>](http://www.veritas.com/docs/000035201) for further details.

NetBackup in the Cloud

NetBackup now supports cloud-based Master Servers and Media Servers as part of extending data protection into workloads in the cloud. For more information, see the "360 Data Management" <https://www.veritas.com/360.html?inid=us_veritas_home_trend_cloud> page.

NetBackup in the Cloud - Links to Solution Information

More information on solutions that deploy NetBackup in the Cloud is available at the links below.

Vendor	URL
Amazon	< https://www.veritas.com/solution/amazon-web-services >

NetBackup in the Cloud - Vendor Compatibility

Contents

[Amazon](#)

Amazon

This solution deploys a NetBackup Master or Media Server in an Amazon Web Services EC2 instance, using the AWS CloudFormation feature.

Amazon Machine Image (AMI) for NetBackup

Operating System	NetBackup template file	NetBackup Master Server support	NetBackup Media Server support	Supported Locales / Regions
Microsoft Windows Server 2012 R2	Link to the AWS CloudFormation NetBackup 8.0 AMI template file < https://s3.amazonaws.com/ami-nb/NBU-8_0.json >	Yes	Yes	Asia Pacific (Mumbai), Asia Pacific (Seoul), Asia Pacific (Singapore), Asia Pacific (Sydney), Asia Pacific (Tokyo), Canada (Central), Europe (Frankfurt), Europe (Ireland), Europe (London), South America (Sao Paulo), US East (N. Virginia), US East (Ohio), US West (N. California), US West (Oregon)

NetBackup Media Server Encryption Option (MSEO)

Operating system requirements are the same for both MSEO key management server and media server installations.

The Media Server Encryption Option and its documentation is available for download at <https://symantec.flexnetoperations.com/>.

Where support is shown for "Windows Server 2008" it is implied that Standard Edition, Enterprise Edition, Datacenter Edition, and Web Edition are supported.

Where support is shown for "Windows Server 2008 R2" it is implied that Standard Edition, Enterprise Edition, Datacenter Edition, and Web Edition are supported.

Where support is shown for "Windows Server 2012" it is implied that Standard Edition, Datacenter Edition, Essentials Edition, and Foundation Edition are supported.

Media Server OS	CPU Architecture	Minimum NetBackup Level	Minimum MSEO Level
Red Hat 7 (GA and update 1)	x86-64	8.0	7.6.1
Red Hat 6 (GA)	x86-64	8.0	6.1.6
Red Hat 5 update 2 and all subsequent updates	x86-64	8.0	6.1.3
Solaris 11 update 1	SPARC	8.0	7.6
Solaris 11 update 1	x86-64	8.0	7.6
Solaris 10 and all subsequent updates	SPARC	8.0	6.0
Solaris 10 update 4 and all subsequent updates	x86-64	8.0	6.1.1
SUSE Linux Enterprise Server 12 (GA)	x86-64	8.0	7.6.1
SUSE Linux Enterprise Server 11 SP2	x86-64	8.0	6.1.8
SUSE Linux Enterprise Server 11 SP1	x86-64	8.0	6.1.7
Windows 2012 R2 and all subsequent updates	x86-64	8.0	7.6.1
Windows 2012 and all subsequent updates	x86-64	8.0	7.6
Windows 2008 R2 and all subsequent updates	x86-64	8.0	6.1.5
Windows 2008 and all subsequent updates	x86-64	8.0	6.1.2

NetBackup OpsCenter Backup Product Support

There are two OpsCenter products: Veritas NetBackup OpsCenter and Veritas NetBackup OpsCenter Analytics.

OpsCenter does not require any license and is included with the NetBackup Enterprise Server and Server products. OpsCenter provides single deployment configuration and user interface for monitoring, alerting, and reporting functionality. It provides monitoring, management and administration capabilities for NetBackup as well as operational reporting for other products as designated in the following table.

OpsCenter Analytics is the licensed version of OpsCenter. In addition to the features available in the unlicensed OpsCenter version, Analytics offers report customization, chargeback reporting and support for third-party data protection products as designated in the following table. The primary objectives of this product are to help organizations assess their compliance with business standards, e.g., service level agreements, and assist in effective business planning, e.g., future backup requirements via backup trend analysis.

Listed in the table below are the backup and archiving products and versions supported by OpsCenter and OpsCenter Analytics.

Backup Product	Version	Support Level	Analytics License Required
Veritas NetBackup	7.7 and higher versions	All supported NetBackup platforms by Remote Agent. Native OpsCenter agent for Windows 2008 (SP2 and R2) and Solaris 10 and 11. BCS customer are entitled to receive support for the legacy products until 2019. Refer to https://www.veritas.com/support/en_US/business-critical-services/support-extensions-program.html	No
Veritas NetBackup Appliance	See NetBackup Hardware Compatibility List for Appliance support information. http://www.veritas.com/docs/000025228	Data collection happens automatically by NBSL	No
Veritas NetBackup PureDisk	6.2, 6.2.2, 6.5, 6.5.1, 6.5.1.2, 6.6, 6.6.0.1, 6.6.0.2, 6.6.0.3, 6.6.1, 6.6.1.2, 6.6.3a, 6.6.5	PureDisk supported platform (PDOS) by the OpsCenter integrated Agent. You do not need a separate Agent to collect data from PureDisk. You can use the inbuilt Agent of the OpsCenter Server for data collection. To create or configure the data collector, select the Agent that is installed as Integrated Agent.	No

NetBackup OpsCenter Operating System Requirements

OpsCenter Analytics has the same Operating System requirements as OpsCenter.

Check the Operating Systems server table for the exact version of NetBackup in which OpsCenter server support started.

Veritas Cluster Server (VCS) support for OpsCenter 7.1 Server, OpsCenter 7.5 Server, OpsCenter 7.6 Server and OpsCenter 7.7.1 in cluster mode:

VCS versions 4.3, 5.0 MP3 and 5.1 on Solaris

VCS versions 4.2 RP2, 5.1 and 5.1 SP1 on Windows

Veritas Cluster Server (VCS) support for OpsCenter 7.7.2, OpsCenter server 7.7.3, OpsCenter server 8.0, OpsCenter server 8.1 in cluster mode:

VCS version 6.1 on Windows 2008 R2 SP1 and Windows 2012 R2.

OpsCenter Agent and OpsCenter View Builder installations are not supported in a cluster environment.

32-bit View Builder binaries are used on 64-bit platforms.

OS	CPU Architecture	OpsCenter Server	OpsCenter Agent	OpsCenter View Builder
Oracle Linux 7	x86-64	Yes	No	No
Oracle Linux 6	x86-64	Yes	No	No
Oracle Linux 5	x86-64	Yes	No	No
Red Hat Enterprise Linux 7	x86-64	Yes	No	No
Red Hat Enterprise Linux 6	x86-64	Yes	No	No
Red Hat Enterprise Linux 5 [1]	x86-64	Yes	No	No
SUSE Linux Enterprise Server 12	x86-64	Yes	No	No
SUSE Linux Enterprise Server 11 [2]	x86-64	Yes	No	No
Windows 2016	x86-64	Yes	Yes	Yes
Windows 2012 R2	x86-64	Yes	Yes	Yes
Windows 2012	x86-64	Yes	Yes	Yes
Windows 2008 R2	x86-64	Yes	Yes	Yes
Windows 2008	x86-64	Yes	Yes	Yes

1. Netbackup 8.1 and later does not support the OpsCenter server feature on this CPU architecture.

2. NetBackup 8.0 and later does not support SUSE Linux Enterprise Server 11 SP2 or earlier on this CPU architecture

NetBackup OpsCenter Web Browser Requirements

Web Browser	Versions	Notes
Microsoft Internet Explorer	- 7.x, 8.x, 9.0, 10.0, 11.0 - 32-bit and 64-bit	- IE 7.0 and later versions may display a security certificate warning page when you access OpsCenter. Reference "Disabling security certificate warnings permanently from browsers" instructions in the NetBackup OpsCenter Administrator's Guide. - It may not be possible to view reports, jobs, or audit data when exporting from IE 9.0. Alternatively, IE 9.0 may show a "Internet Explorer Cannot Download" error when exporting reports, jobs, or auditing data from OpsCenter. - Reference "Exporting OpsCenter reports or data with IE 9.0" instructions in the NetBackup OpsCenter Administrator's Guide. - Extra steps are required to access the OpsCenter console using Internet Explorer version 7 or 8 on a 32-bit Windows computer. For more information, see "About web browser considerations" in the NetBackup OpsCenter Administrator's Guide. - NetBackup 7.7.2 and later support OpsCenter with IE 11 - The NetBackup OpsCenter Administrator's Guide and other Guides are available by selecting the appropriate NetBackup version link at http://www.veritas.com/docs/000003214
Mozilla Firefox	- 3.0, 3.5.x, 3.6.x, 9.0.1 and above for OpsCenter 7.0 to 7.5. - 15.0 and later versions for OpsCenter 7.6 and later. - 32-bit and 64-bit - 27.0 and later versions for OpsCenter 8.0 and later	- Mozilla Firefox may display an Untrusted Connection page when you access OpsCenter. Reference "Disabling the Untrusted Connection page in Mozilla Firefox" instructions in the Veritas OpsCenter Administrator's Guide.

SAN Media Server/SAN Client/FT Media Server

- Unless otherwise noted the minimum NetBackup level for SAN Client support is NetBackup 6.5 GA.

SAN style backups via SAN Media Server

SAN media servers are NetBackup media servers that back up their own data. SAN media servers cannot back up data that resides on other clients. SAN media servers are useful for certain situations. For example, a SAN media server is useful if the data volume consumes so much network bandwidth that it affects your network negatively.

- Enables LAN-free data protection with high performance access to shared resources.
- Can share tape resources with NetBackup Master and Media Servers.
- Can only back itself up, not other clients.
- Software is installed stand-alone on each cluster node and linked to the virtual host via an application cluster.
- When you define a backup policy for a SAN media server, add only the SAN media server as the client.
- The NetBackup Shared Storage Option is able to use NetBackup SAN media servers.
- There is no platform restriction regarding SAN Media Servers - any Media Server can be a SAN Media Server. The only difference is in the license authentication mechanism. Application and DB Agents are supported with the SAN Media Server.

SAN style backups via SAN Client

A NetBackup SAN client is a NetBackup client on which the Fibre Transport service is activated. The SAN client is similar to the SAN media server that is used for the Shared Storage Option; it backs up its own data. However, the SAN client is based on the smaller NetBackup client installation package, so it has fewer administration requirements and uses fewer system resources.

- It connects to a NetBackup media server over Fibre Channel.
- The NetBackup SAN Client Fibre Transport Service manages the connectivity and the data transfers for the FT pipe on the SAN clients. The SAN client FT service also discovers FT target mode devices on the NetBackup media servers and notifies the FT Service Manager about them.
- Requires SAN connectivity with a Media Server running Fibre Transport Services (reference additional information below in regards to the FT Media Server).

SAN client does not support the following types of backup:

- SharePoint
- Enterprise Vault
- Exchange DAG or CCR backups through a passive node of an Exchange cluster
- All other application and database agents are supported with the SAN Client.

Note: SAN client does support the use of FlashBackup but all restores from FlashBackup backups will use the LAN connection, not the SAN connection.

SAN client and NetBackup Deduplication

- SAN Client is a NetBackup optional feature that provides high speed backups and restores of NetBackup clients. Fibre Transport is the name of the NetBackup high-speed data transport method that is part of the SAN Client feature. The backup and restore traffic occurs over a SAN.
- SAN clients can be used with the deduplication option; however, the deduplication must occur on the media server, not the client. Configure the media server to be both a deduplication storage server (or load balancing server) and an FT media server. The SAN client backups are then sent over the SAN to the deduplication server/FT media server host. At that media server, the backup stream is deduplicated.
- Do not enable client deduplication on SAN Clients. The data processing for deduplication is incompatible with the high-speed transport method of Fibre Transport. Client-side deduplication relies on two-way communication over the LAN with the media server. A SAN client streams the data to the FT media server at a high rate over the SAN.

FT Media Server

A NetBackup FT media server is a NetBackup media server on which the Fibre Transport services are activated. NetBackup FT media servers accept connections from SAN clients and send data to the storage units. The host bus adapters (HBAs) that accept connections from the SAN clients use a special NetBackup target mode driver to process FT traffic. The media server FT service controls data flow, processes SCSI commands, and manages data buffers for the server side of the FT pipe. It also manages the target mode driver for the host bus adaptors.

Reference the HCL document Fibre Transport Media Server HBAs section for supported Operating Systems and HBAs. <http://www.veritas.com/docs/000025228>

NetBackup Self Service Support

Veritas NetBackup Self Service offers large enterprises and service providers a single store front for all backup and recovery service offerings. Customers and business users can perform self-service backup and restore operations using intuitive, custom-designed interface themes. A single instance supports the registration of multiple tenants or business units to allow secure separation between clients. Codeless, visually-designed forms and process workflows cater to most self-service needs. Service Level Agreement (SLA) measurement, notification, chargeback, and reporting make it easy to manage the service.

NetBackup 8.0 Self Service Documentation:

- All NetBackup 8.0 Self Service PDFs in a single .zip file: <http://www.veritas.com/docs/000116411>

Self Service Versions	NetBackup Versions
NetBackup 8.0 Self Service	NetBackup 8.0 NetBackup 7.7.3 NetBackup 7.7.2 NetBackup 7.7.1 NetBackup 7.7 NetBackup 7.6.1 NetBackup 7.6.1.1 NetBackup 7.6.1.2
NetBackup 8.1 Self Service	NetBackup 8.1 NetBackup 8.0 NetBackup 7.7.3 NetBackup 7.7.2 NetBackup 7.7.1 NetBackup 7.7 NetBackup 7.6.1 NetBackup 7.6.1.1 NetBackup 7.6.1.2

Virtual Systems Compatibility

This Statement of Support for NetBackup in a Virtual Environment document describes the extent of support for NetBackup within a virtual environment. Ideally, every NetBackup configuration supported in a traditional physical environment would also be supported in any virtual environment without qualification. While that is our mission, it is not always possible.

Therefore, the purpose of this document is to:

- Clarify differences between NetBackup support in physical vs. virtual environments
- Describe general guidelines for support in virtual environments
- Describe impact upon specific NetBackup components: clients, servers, options, etc.
- Provide references to related information

VMware Compatibility

Virtual Systems Compatibility - Reference Article: TECH127089 Statement of Support for NetBackup in a Virtual Environment:
<<http://www.veritas.com/docs/000006177>>

- NetBackup supports all vendor patches (U3a, U3b, etc.) unless otherwise noted.

NetBackup Versions	VDDK Versions	vSphere Versions	vCloud Director Versions	Backup/Restore Host Versions
8.0	6.0.2	vSphere 6.5, 6.5 U1 vSphere 6.0, 6.0 U1, 6.0 U2 , 6.0 U3 vSphere 5.5, 5.5 U1, 5.5 U2, 5.5 U3 vSphere 5.1, 5.1 U1, 5.1 U2, 5.1 U3 For supported vCenter and ESXi versions and additional information, see the VMware VDDK 6.0 release notes URL below.	5.5, 5.5.1, 5.5.2, 5.5.3, 5.5.4, 5.5.5, 5.5.6 5.1, 5.1.1, 5.1.2, 5.1.3 Service Provider Versions: 8.0, 8.0.1, 8.0.2, 8.10, 8.20 5.6.5, 5.6.4, 5.6.3	All 64 bit only: Windows Server 2012 R2, 2012, 2008 R2 Red Hat Enterprise Linux (RHEL) 7.0, 6.6 NetBackup Appliance 3.0 SUSE Linux Enterprise Server (SLES) 12, 11.3
8.1	6.5.1	vSphere 6.5 , 6.5 U1 vSphere 6.0, 6.0 U1, 6.0 U2 , 6.0 U3 vSphere 5.5, 5.5 U1, 5.5 U2, 5.5 U3 For supported vCenter and ESXi versions and additional information, see the VMware VDDK 6.5.1 release notes URL below.	5.5, 5.5.1, 5.5.2, 5.5.3, 5.5.4, 5.5.5, 5.5.6 5.1, 5.1.1, 5.1.2, 5.1.3 Service Provider Versions: 8.0, 8.0.1, 8.0.2, 8.10, 8.20 5.6.5, 5.6.4, 5.6.3	All 64 bit only: Windows Server 2016, 2012 R2, 2012, 2008 R2 Windows 10 Red Hat Enterprise Linux (RHEL) 6.7, 6.8, 7.2, and 7.3 SUSE Linux Enterprise Server (SLES) 11 SP4, 12 SP1

- For vCloud Director 8.0, 8.0.1, 8.0.2 to determine the host name: Refer to <https://www.veritas.com/support/en_US/article.000108257>
- For vCloud Director 8.0, 8.0.1, 8.0.2 NetBackup restores to vCloud: Refer to <<http://www.veritas.com/docs/000108831>>
- NetBackup does not support the vCloud Director 8.20 feature called "Automatic discovery and import of vCenter VMs."
- For vSphere 6.5 support, refer to <<http://www.veritas.com/docs/000116592>>

For supported vCenter and ESXi versions and additional information, see the VMware VDDK 6.0.2 release notes URL below.

Note the following:

- VMware version information can also be obtained from the VMware Product Interoperability Matrix, and is subject to change by VMware. For the latest information, see the following:

[<http://www.vmware.com/resources/compatibility/sim/interop_matrix.php>](http://www.vmware.com/resources/compatibility/sim/interop_matrix.php)

- NetBackup supports installation of the backup host in a virtual machine (VMware "hotadd"). The guest operating systems that NetBackup supports for hotadd are the same as the above.

- For the Linux VMware backup host or restore host, locales other than UTF-8 are not supported.

- NetBackup 8.0 and later supports VMware Virtual Volumes (VVols)

- NetBackup supports all triple-dot versions of VMware vCloud Director, unless otherwise noted.

- Install "VMware ESXi 6.0, Patch Release ESXi600-201511001 (2137545)" for consistent backups. This ESX patch is mandatory, according to VMware, to fix the data loss situation reported in VMware KB article 2136854.

For more information about the cause and the resolution of this issue, see:

[<http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2136854>](http://kb.vmware.com/selfservice/microsites/search.do?language=en_US&cmd=displayKC&externalId=2136854)

VMware VDDK Release Notes:

- VDDK 6.0.2 Release Notes: [<https://www.vmware.com/support/developer/vddk/vddk-602-releasenotes.html>](https://www.vmware.com/support/developer/vddk/vddk-602-releasenotes.html)

• VDDK 6.5.1 Release Notes :
[><https://vdc-download.vmware.com/vmwb-repository/dcr-public/2ab18705-4960-45f8-88a5-830c5a308d9e/770f0c82-82cd-4c9c-b06f-ceb49e565238/vsphere-vddk-651-release-notes.pdf>](https://vdc-download.vmware.com/vmwb-repository/dcr-public/2ab18705-4960-45f8-88a5-830c5a308d9e/770f0c82-82cd-4c9c-b06f-ceb49e565238/vsphere-vddk-651-release-notes.pdf)

Hyper-V Servers Compatibility

Hyper-V Servers Compatibility - Reference Article: TECH127089 Statement of Support for NetBackup in a Virtual Environment:

[<http://www.veritas.com/docs/000006177>](http://www.veritas.com/docs/000006177)

Note:

- NetBackup Client must be installed on the Hyper-V server
- Master and Media Server platform support as supported by the appropriate NBU release

NetBackup Versions	Hyper-V Server Versions	System Center Virtual Machine Manager Versions	Comments
8.0	Hyper-V Server 2016 Hyper-V Server 2012 R2 Hyper-V Server 2012 R2 U1 Hyper-V Server 2012 R2 U2 Hyper-V Server 2012 R2 U3 Hyper-V Server 2012 Hyper-V Server 2008 R2 Hyper-V Server 2008SP2	NetBackup Add-In and Hyper-V Intelligent Policy for • SCVMM 2012 R2 • SCVMM 2012 R2 Rollup 1 through 8 [1] • SCVMM 2016 [2]	• Hyper-V Intelligent Policy supported only for Hyper-V Server 2012 R2 (and associated updates), Hyper-V Server 2016. • VHD and VHDX support

NetBackup Versions	Hyper-V Server Versions	System Center Virtual Machine Manager Versions	Comments
8.1	Hyper-V Server 2016 Hyper-V Server 2012 R2 Hyper-V Server 2012 R2 U1 Hyper-V Server 2012 R2 U2 Hyper-V Server 2012 R2 U3 Hyper-V Server 2012 Hyper-V Server 2008 R2 Hyper-V Server 2008SP2	NetBackup Add-In and Hyper-V Intelligent Policy for • SCVMM 2012 R2 • SCVMM 2012 R2 Rollup 1 through 8 [1] • SCVMM 2016 [2]	• Hyper-V Intelligent Policy supported only for Hyper-V Server 2012 R2 (and associated updates), Hyper-V Server 2016. • VHD and VHDX support

1. Refer to TECH231399 for important notes on SCVMM 2012 R2 Update Rollup 5 and onwards support: <http://www.veritas.com/docs/000025555>

2. Refer to 8.0 release notes : <http://www.veritas.com/docs/000003214>

- Support for the WMI backup method starts at Hyper-V Server 2016. The VSS backup method is supported on all supported Hyper-V servers.
- For the WMI backup method, requires a VM configuration version later than 5.

Notes on the new Hyper-V features in NetBackup 8.0

1. NetBackup 8.0 adds features for faster backup and recovery of Hyper-V virtual machines on Windows Server 2016.

For a description of those features, see the NetBackup for Hyper-V Administrator's Guide for 8.0, available here: <http://www.veritas.com/docs/000003214>

2. Note the following:

The faster Hyper-V backup and recovery features require the new WMI backup method (not VSS).

The WMI backup method does not support backup or restore of user-created checkpoints of the VM.

NetBackup support for Hyper-V Limitations:

1. For the VSS backup method, VMs must reside on the NTFS file system (ReFS or NTFS Deduplication is not supported).

•Note: The WMI backup method supports VMs that reside on either the NTFS or ReFS file systems on Windows Server 2016.

2. For the VSS backup method, block-level incremental backup is not supported.

•Note: The WMI backup method supports block-level incremental backup and Accelerator for VMs on Windows Server 2016.

3. For the VSS backup method, SMB 3.0 is not supported.

•Note: The WMI backup method adds support for the following:

a. VMs hosted on SMB 3.0 file shares on Windows Server 2016.

b. VMs hosted on Windows Storage Spaces and Storage Spaces Direct on Windows Server 2016.

4. File-level recovery from a Hyper-V backup is not supported for any of the following. Recovery of the full VM is supported.

•Any guest OS volume that resides on a 4Kn virtual disk (VHDX file).

• Any guest OS files that reside in a Resilient File System (ReFS) volume that is in the guest OS.

• Any guest OS files that reside in an NTFS deduplicated volume that is in the guest OS.

5. Backup of a Hyper-V guest OS that uses a shared VHDX file is not supported.

Nutanix AHV versions and backup host

Supported Nutanix AHV versions and backup host operating systems

NetBackup for Nutanix AHV protects Nutanix AHV virtual machines by integrating with Nutanix APIs for Data Protection.

NetBackup Versions	Nutanix AHV Versions	Nutanix AOS Versions	Backup/Restore Host Versions
8.1	AHV- 20160601.20 AHV- 20160601.50 AHV- 20160601.54 AHV- 20160925.71 AHV- 20160925.84	5.1.1.3	All 64 bit only: Red Hat Enterprise Linux : 6.0, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 7.1, 7.2, 7.3, 7.4 SUSE Linux Enterprise Server: 11 SP3, 11 SP4, 12 SP1

Note the following:

- To backup other hypervisors like VMware ESX or a Hyper-V on a Nutanix Acropolis cluster, please see VMware ESX or a Hyper-V SCL for support matrix. To backup VMware ESX or a Hyper-V on a Nutanix Acropolis cluster, use a VMware policy or a Hyper-V, respectively
- NetBackup supports installation of the backup host in a virtual machine.
- English only AHV is supported
- Backups are Crash Consistent
- AHV Community Edition is not supported
- The backup host can be a NetBackup 8.1 client or a 8.1 media server or a 8.1 master server. Nutanix-AHV Plugin needs to be installed on the NetBackup client or a media server or a master server to make it a Backup Host. Veritas recommends that you have media server as a backup host
- Backup of VMs having volume groups is not supported since Nutanix doesn't support snapshot of such VMs
- NetBackup currently does not support file-level recovery. Backup and recovery of the entire virtual machine for all guest operating systems is supported.
- SUSE Linux Enterprise Server 11 SP3 and SUSE Linux Enterprise Server 11 SP4 is supported with some known limitations. Please refer the troubleshooting section in the "Veritas NetBackup for AHV Administrator Guide"

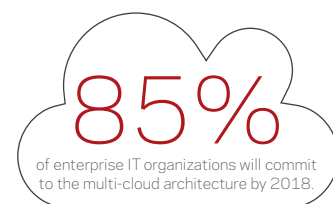


NetBackup™ Enterprise Virtual Client

Modern data protection for the virtualized,
multi-cloud enterprise.

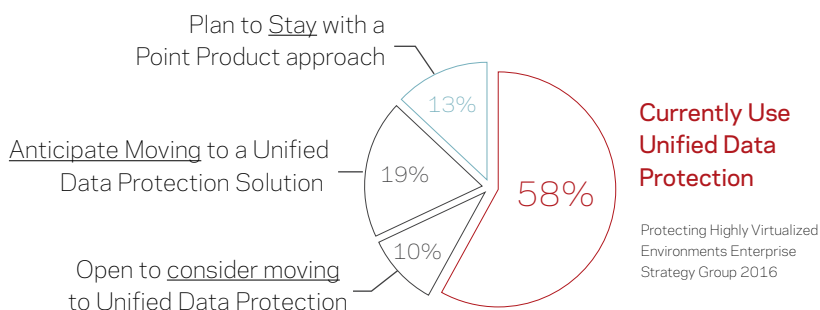
Server virtualization has proven to be one of the most transformative IT technologies of the past two decades for the digital enterprise. It revolutionized the speed with which servers and applications are provisioned and managed, and in the process, unlocked significant amounts of business agility with a more flexible, consolidated IT infrastructure. Today it's common to see 80- 90% of application workloads in a virtual infrastructure that can range from 100s to 100,000s of virtual machines or VMs.

The next transformative technology is multi-cloud. 85% of enterprises have indicated that by 2018, they will have their multi-cloud strategy in place. Unified data protection can simplify VM protection and accelerate your path to the multi-cloud with confidence.



TREND TO CONSOLIDATE VIRTUAL DATA PROTECTION FOR BETTER PERFORMANCE, SUCCESS, AND MULTI-CLOUD

A recent ESG study on protecting highly virtualized environments found that while the 42% of enterprises are using VM-specific solutions today, nearly 70% of those enterprises are considering moving from fragmented, legacy point solutions to unified data protection. Moving to this platform approach simplifies the protection and performance of virtual, physical, multi-cloud and emerging, modern workloads, whether on disk, tape, appliance, cloud, no matter where they reside, all from a single console.



AUTOMATED, RELIABLE, HIGH PERFORMANCE PROTECTION FOR DEMANDING VIRTUAL ENVIRONMENTS

NetBackup™, the market leader of enterprise backup and recovery software, delivers to any size enterprise, unified data protection for their VMware, Hyper-V, and Nutanix AHV virtual environments with proven enterprise scalability, automated VM protection and performance, and enables them to **meet the toughest SLAs and achieve near 100% Backup and Recovery success rates.**

- **New!** in NetBackup 8.1
 - **Selective VMDK Backup and Recovery** – Gain speed and flexibility for granular VMware backup and recovery operations whether it's the entire VM, files/folders, applications, and now VMDKs.
 - **NetBackup Parallel Streaming** – Provides a framework to for on-demand, agentless, downloadable plugins, and deliver dynamically scaled protection for modern, petabyte-scale big data, hyperconverged, and open source workloads.

- **NetBackup CloudCatalyst** – Deliver 3x faster backup to multi-cloud storage and eliminates the need to rehydrate deduplicated data and unnecessary storage cost.
- **Veritas Certified Cloud Storage Connectors** – Simple, single-click multi-cloud backup supported by 40+ fully tested and certified integrated NetBackup cloud storage connectors and deliver cost-optimized multi-cloud storage with choice and confidence.
- **NetBackup Physical and Virtual Appliances** – Fully leverage your virtual environments and simplify the deployment of always-on, “right-for-me” data protection, whether the data center or 1000s of remote offices, with your choice of “out-of-the-box” or download simplicity and performance of integrated NetBackup physical or virtual appliances.
- **Intelligent, Automated Discovery and Backup** – “Set-and-forget” intelligence puts the protection of VMs on cruise control by automating the discovery and backup of VMs and minimizes recovery failures because new or moved VMs weren’t backed up.
- **Intelligent, Automated Load Balancing** – Eliminates the need for complex, manual performance tuning, even as your virtual environment grows, to deliver lightning fast backup performance and near 100% backup success rates.
- **Accelerator** – Protect virtual environments up to 100x faster by capturing and deduplicating only the incremental changes and creating a synthetic full with the fast recovery benefits of a full backup.
- **Instant Recovery** – Give users fast access to up to 10 VMware VM applications simultaneously per media server by powering them up from backup disk and automatically migrate the VMs back to production storage without service disruption.
- **Agentless, Single-Pass Image Backup** – Deliver faster, more granular file and folder level recoveries with NetBackup Granular Recovery Technology (GRT) and its comprehensive indexing, and eliminate the need for time consuming mount-and-browse of every VMDK from a single-pass, agentless backup.
- **VMware and Hyper-V plugins** – Self-service for VM admins can manage the power, scale, and performance of NetBackup data protection through their own familiar consoles.
- **NetBackup Appliances with Enterprise Deduplication** – “Out-of-the-box” performance and simplicity eliminates the need for complex tuning to achieve industry leading performance and scalability in virtual environments. Combined with enterprise deduplication easily scale from 10s to 100s of petabytes of data protection, and it comes with single support from Veritas.
- **Ready for Microsoft™ Windows 2016 and VMware vSphere 2016** – NetBackup is ready when you are.

“After consolidating our entire global data protection including VMware on NetBackup, we routinely hit 99.9% backup and recovery success rates.”

“Success is success.”

— Patrick McDonagh, Sr. IT Infrastructure Manager
Boston Scientific

NEW! NETBACKUP ENTERPRISE VIRTUAL CLIENT - FOR THE VIRTUALIZED, MULTI-CLOUD ENTERPRISE

Veritas NetBackup Enterprise Virtual Client (NEVC) provides the Virtualization (VM) Administrator in the small enterprise with market leading unified data protection that delivers enterprise-scale and performance across their entire VMware, Hyper-V, and Nutanix AHV environments. New NEVC is a single, affordable, easy-to-buy SKU purchased on a “per-socket” basis that consists of a bundle of NetBackup Enterprise licenses designed to give any size enterprise everything they need to get up and running fast.

Start today with enterprise proven, unified data protection for your entire virtual and multi-cloud environment:

- Media / Master Server with easy, single click installation
- Protection for an unlimited number of virtual machines
- Includes protection for your critical applications and databases
- Supports heterogeneous Windows/Linux/Solaris environments
- Unlimited dedupe capacity per media server
- 40+ fully certified, integrated cloud storage connectors (NetBackup 8.1)
- Cloud Catalyst for industry leading cloud storage deduplication performance (NetBackup 8.1)
- Parallel Streaming for agentless, dynamically scaled modern workload protection (NetBackup 8.1)

Here's what's included in NEVC:

- 1x Enterprise Server Windows/Linux/Solaris Tier 4 license
- 1x Enterprise Client Windows/Linux/Solaris Tier 4 license
- 1x Application/DB Agent Windows/Linux/Solaris Tier 4 license
- 1x Data Protection Optimization Option (DPOO) license with unlimited deduplication capacity
- Note: SKU Bundle includes 12 months of support with additional support available for purchase

This offer is based upon a per-socket meter consisting only of the sockets powering the physical hardware hosting the supported hypervisors. Infrastructure powering NetBackup such as Master/Media servers are not counted as part of the per-socket meter.

ABOUT VERITAS TECHNOLOGIES LLC

Veritas Technologies empowers businesses of all sizes to discover the truth in information—their most important digital asset. Using the Veritas platform, customers can accelerate their digital transformation and solve pressing IT and business challenges including multicloud data management, data protection, storage optimization, compliance readiness and workload portability—with no cloud vendor lock-in. Eighty-six percent of Fortune 500 companies rely on Veritas today to reveal data insights that drive competitive advantage. Learn more at www.veritas.com or follow us on Twitter at [@veritastechllc](https://twitter.com/veritastechllc).

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For specific country offices and contact numbers, please visit our website.
veritas.com/about/contact

VERITAS™
The truth in information.

V0377 07/18



CLIENTE
**TJAL- Tribunal de
Justiça de Alagoas**

FABRICANTE
Veritas

DATA
22/03/2019

VALIDADE
60 Dias

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INSTITUCIONAL

ARVVO Tecnologia

Somos uma empresa brasileira, experiente no mercado de tecnologia, focada em oferecer soluções e serviços que possam ajudar pessoas, gestores e empresas a alcançar seus objetivos. Estender as possibilidades de sucesso de seus clientes na definição e implantação das melhores soluções.

A ARVVO fornece aos seus clientes serviços de excelência adequados a sua necessidade, com o objetivo de minimizar os riscos e custos, agregando valor aos seus negócios.

DECLARAÇÃO DO OBJETO

Eventual e futura contratação, pelo sistema de Registro de Preços, de empresa especializada na prestação de serviços de solução de backup para o Tribunal de Justiça do Estado de Alagoas.

VALOR DO PROJETO

LOTE III - SOFTWARE DE BACKUP				
ITEM	DESCRIÇÃO	QUANT	VALOR UNITÁRIO	VALOR TOTAL
1	Solução de Backup Veritas - Netbackup enterprise virtual client wls cpu hardware tier 4 onpremise standard license; - Netbackup ent client wls 1 server hardware tier 2 onpremise standard perpetual license - Netbackup client application and db pack wls 1 server hardware tier 2 onpremise standard perpetual license	2	R\$ 150.000,00	R\$ 300.000,00
2	Treinamento Oficial	1	R\$ 40.000,00	R\$ 40.000,00
3	Serviço de Instalação do Software	1	R\$ 10.000,00	R\$ 10.000,00
			Valor Total	R\$ 350.000,00
Trezentos e cinquenta mil reais.				



DADOS DA EMPRESA

Razão Social da Empresa: ARVO TECNOLOGIA, CONSULTORIA E SERVIÇOS

CNPJ Nº: 25.359.140/0001-81

Inscrição Estadual: 07.778.347/001-93

Endereço Completo: SHN QD.01 BL A SALA 1.114, ED. LE QUARTIER, C.E.P: 70.701-010

Telefone/Fax: (061) 3553-9006

Prazo de Pagamento: Conforme edital

Impostos, Custos e Despesas: Inclusos

Declaramos que tomamos conhecimento de todas as informações e condições para o cumprimento das obrigações deste objeto.

Brasília - DF, 22 de Março de 2019.

Atenciosamente,



André Oliveira
andre.oliveira@arvo.com.br
Diretor

VERITAS NETBACKUP™ 8

UNIFIED DATA PROTECTION FOR THE CLOUD-READY ENTERPRISE

VERITAS

ENTERPRISE-CLASS DATA PROTECTION

Long recognized as the market leader of enterprise backup and recovery software, Veritas NetBackup™ is built to protect the largest and most demanding data center environments. NetBackup delivers breakthrough capabilities for virtualized and cloud-based deployments that go well beyond what traditional backup practices can achieve.

- **Comprehensive**—As a single, unified solution to protect all of your data assets, NetBackup provides support for virtually every popular server, storage, hypervisor, database, application, and cloud platform used in the enterprise today.¹
- **Scalable**—High performance, intelligent automation, and centralized management based on a flexible, multitier architecture enables NetBackup to adapt to the growing needs of a fast-paced, modern enterprise.
- **Integrated**—From backup appliances to cloud storage, NetBackup integrates at every point in the technology stack to improve reliability and performance.
- **Innovative**—With hundreds of patents awarded in areas including backup, recovery, virtualization, deduplication, and snapshot management, NetBackup continues a long tradition of bringing advanced technologies to market first. No backup software has won Best of VMworld as many times as NetBackup.²
- **Proven**—For over a decade, NetBackup has led the industry as the most popular enterprise data protection software by market share and is used by many of the largest enterprises on the planet. When you need your data back, you can trust NetBackup.

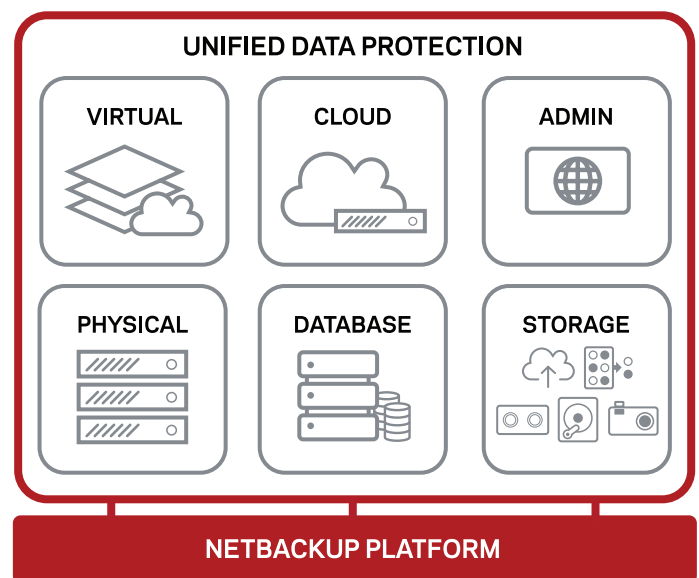


Figure 1. NetBackup offers scalable data protection for the enterprise with a single, unified solution across cloud, virtual, and physical deployments.

PROTECT ANY WORKLOAD

One of the hallmarks of enterprise IT is its heterogeneity. The wide variety of platforms, applications, and infrastructure often grows with the size of the enterprise. NetBackup supports a vast array of environments and integrates with every layer of the infrastructure stack to unify your entire data protection strategy.

- **Operating systems**—NetBackup integrates with dozens of server operating system (OS) versions, including Microsoft Windows®, Linux®, and UNIX® files.
- **Virtual systems**—NetBackup integrates with leading hypervisors including VMware vSphere® and Microsoft® Hyper-V.
- **Databases and applications**—NetBackup integrates with leading relational database and application platforms, including IBM DB2®, Microsoft® Exchange Server, Microsoft SQL Server®, Oracle®, SAP®, and others.
- **Storage systems**—NetBackup protects data at the storage system level by integrating with various snapshot, replication, and NDMP facilities from EMC®, HP, Hitachi, IBM®, NetApp®, and others.
- **Cloud platforms**—NetBackup supports the backup and recovery of workloads within virtually any cloud environment by using NetBackup infrastructure hosted within the cloud.

CHOOSE YOUR STORAGE

A lot has changed since the days of traditional tape backup. Enterprises now have many choices where they store backups. NetBackup integrates this diverse collection of storage targets without compromising manageability.

- **Cloud storage**—NetBackup supports a growing list of third-party cloud storage providers such as AWS, Microsoft® Azure, Google, and SwiftStack that can be easily incorporated into NetBackup policies.
- **Purpose-Built Backup Appliances (PBBA)**—NetBackup uses its OST interface to integrate with a wide range of PBBAs.



Figure 2. Veritas NetBackup™ 5240 is an integrated enterprise backup appliance with expandable storage and intelligent deduplication.

- **Disk**—Ordinary disk volumes can be organized into disk pools under NetBackup control.
- **Storage system snapshots**—NetBackup can orchestrate hardware snapshots using proprietary capabilities from vendors such as NetApp and EMC.
- **Tape**—NetBackup brings mainframe-class media management to a massive selection of supported tape drive and robotic hardware configurations.

BREAK THE BACKUP WINDOW

It's not uncommon for IT organizations to report data growth of 40-60 percent per year. To keep up, you need backups that run as fast as possible without disrupting production activity. NetBackup combines innovative design with the latest technical advancements to deliver impressive performance numbers with minimal impact.

- **Accelerator**—Eliminate full backups once and for all. With Veritas NetBackup™ Accelerator, only changed blocks are backed up each time. These blocks are combined with previous backups to synthesize a new full backup for quick recovery.
- **Snapshots**—Let the storage system run backups for you. With Veritas NetBackup™ Replication Director, snapshots are orchestrated, cataloged, and replicated using storage technologies from vendors such as NetApp and EMC.

BACKUP REMOTELY

Whether backing up a remote office, a cloud-hosted workload, or a customer site as part of a backup service, backups over a wide area network (WAN) or the Internet must be as efficient as possible. NetBackup leverages the latest change tracking and deduplication technologies to make these backups not just possible, but practical.

- **Virtual Appliance for Remote Offices**—Veritas NetBackup™ Virtual Appliance is an integrated solution deployable for remote offices. It provides simplified and secure data protection in a small footprint at lower cooling and power costs. With built-in deduplication benefits, you can significantly decrease storage and network utilization.
- **Extreme data reduction**—By combining Veritas NetBackup™ Accelerator change tracking with Veritas NetBackup™ Intelligent Client Deduplication, backup traffic is further reduced and full backup seeding is noticeably faster. WAN optimization can further increase performance by as much as ten times when backups are transferred to the primary site.

RESCUE YOUR BUSINESS

The unthinkable happens. Services are down and the clock is ticking. There's no time to waste: it's time to recover from backup. NetBackup is ready with fast, reliable recovery options to get your systems up and running as quickly as possible.

- **Instant Recovery**—Recover VMs by booting them directly from backup disk.
- **Snapshot recovery**—Roll systems back to an earlier point in time by recovering an online hardware snapshot.
- **Veritas NetBackup Bare Metal Restore™**—Quickly prepare a physical system for restore, eliminating the need for manual reconfiguration.
- **Veritas NetBackup™ Granular Recovery Technology (GRT)**—NetBackup Granular Recovery Technology (GRT) indexes the contents of data sources, making it easy to restore specific items without endless trial-and-error restore attempts.

PREPARE FOR DISASTER RECOVERY

No business will survive if it keeps its data in one place. Protect your business from natural disasters and site outages by keeping a copy off-site or in the cloud. NetBackup can help you automate disaster recovery (DR) readiness regardless of what storage or transport method is used.

- **Veritas NetBackup™ Auto Image Replication (AIR)**—With NetBackup AIR, backup images and catalogs are automatically replicated over a network to other NetBackup domains on-premises or in the cloud, according to preset policies.
- **Snapshot replication**—Hardware snapshots created using NetBackup Replication Director can be automatically replicated to other storage systems at off-site locations, all under the control of NetBackup.
- **Tape vaulting**—Vault automatically ejects the proper tapes from a robotic library, tracks the movement of tapes to and from off-site storage facilities, and prints daily reports to include with the daily shipment or email to your records management vendor.
- **Integration with Veritas™ Resiliency Platform**—Meeting business uptime Service Level Objectives across hybrid clouds with multiple point products and different data sources can be complicated and costly. Resiliency Platform from Veritas helps you proactively ensure resiliency for applications across your heterogeneous environments regardless of whether your data source is replication, or a combination of replication and NetBackup data sources.

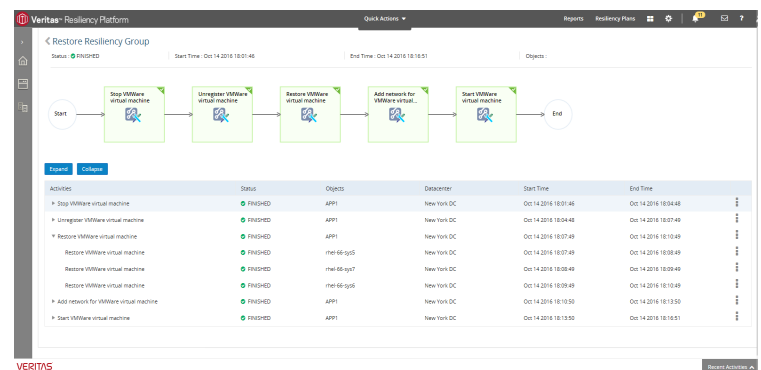


Figure 3. Veritas Resiliency Platform can orchestrate complex NetBackup site recovery operations with a single click.

DEPLOY QUICKLY

Experienced IT professionals know how difficult it can be to deploy or upgrade backup systems. Not only do backup servers and storage require their own care and feeding, but backups interact with just about every server, storage, or network component. NetBackup eases this burden and offers a fully integrated, turnkey appliance that combines software with server and storage.

- **Agentless backup for VMs**—Agents within VMs are unnecessary for backups, greatly simplifying the deployment and maintenance of backup software across a virtual environment.
- **NetBackup appliance family**—For the fastest deployments, consider deploying NetBackup appliances. NetBackup appliances come preinstalled with all necessary hardware and software components and can be set up within minutes.

STREAMLINE OPERATIONS

With constant pressures of relentless data growth and escalating service requests, IT is always challenged to do more with less. NetBackup helps you maximize staff productivity so you can invest more in your core business.

- **Centralized, policy-based management**—All NetBackup policies are configured from a single management console enforced by the NetBackup master server.
- **NetBackup™ Copilot for Oracle®**—Oracle DBAs maintain control over primary backup and recovery operations while secondary operations (duplication, replication, cataloguing) are managed by NetBackup admins and policies.

- **Console plug-ins for Hyper-V and vSphere**—Plug-ins for the VMware vSphere® web client and Microsoft® System Center Virtual Machine Manager (SCVMM) give VM admins direct control over backup and restore operations.
- **Intelligent automation**—NetBackup intelligent policies for virtual machines and databases automatically discover new VMs and database instances, including them in future backups to help you ensure all data is protected.
- **Veritas NetBackup™ Self Service**—Offers business users a single “store front” to perform self-service backups and restores using custom-designed interfaces. A single instance can register multiple tenants to allow secure separation. SLA measurement, notification, and reporting make it easy to manage.

PLAN FOR THE FUTURE

No successful organization stands still. There are always improvements to make, processes to optimize, and costs to reduce. NetBackup provides extensive reporting and analytics to help understand past results and clarify the road ahead.

- **Point-and-click operational reporting**—Veritas NetBackup™ Ops Center quickly identifies tape drive utilization, success rates, and unprotected areas across NetBackup, and provides contextual reporting based on line-of-business, geography, or application across a heterogeneous environment.
- **Long-term trending and analysis**—Better predict backup storage consumption by tracking growth rates over time, including pre- and post-deduplication, for easier ROI tracking, and deduplication rates.
- **Integration with Veritas™ Information Map**—Information Map renders your information environment in visual context and guides users towards unbiased, information-governance decision making. Using the Information Map’s dynamic navigation, customers can identify areas of risk, areas of value and areas of waste across their storage environment and make decisions which help reduce information risk and optimize information storage.



Figure 4. Veritas Information Map renders your information environment in visual context and guides users towards unbiased, information-governance decision making.

UNIFIED DATA PROTECTION FOR THE CLOUD-READY ENTERPRISE

Veritas NetBackup™ 8 reduces the staggering complexity of enterprise data protection through a unified solution built on converged infrastructure, scales with relentless growth through best-in-class performance at petabyte-level capacity, and paves the way to IT-as-a-Service through convenient, self-service operation. It lays the foundation for universal data management, enabling rapid visualization of data and accelerating cloud adoption with minimal risk. As IT transforms from cost center to business enabler, NetBackup is engineered to solve the diverse challenges of today and tomorrow, and ultimately give organizations the confidence to move faster and take bigger risks trusting that their information will be safe.

ABOUT VERITAS TECHNOLOGIES LLC

Veritas Technologies LLC enables organizations to harness the power of their information, with solutions designed to serve the world’s largest and most complex heterogeneous environments. Veritas works with 86 percent of Fortune 500 companies today, improving data availability and revealing insights to drive competitive advantage.

¹ For more information, please refer to the NetBackup Master Compatibility List.

² Best of VMworld, Business Continuity and Data Protection category: 2007, 2008, 2010, 2012.

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