



VERITAS™

Backup Exec™ 16

Licensing Guide

Confidential: Internal and Registered Partners under NDA
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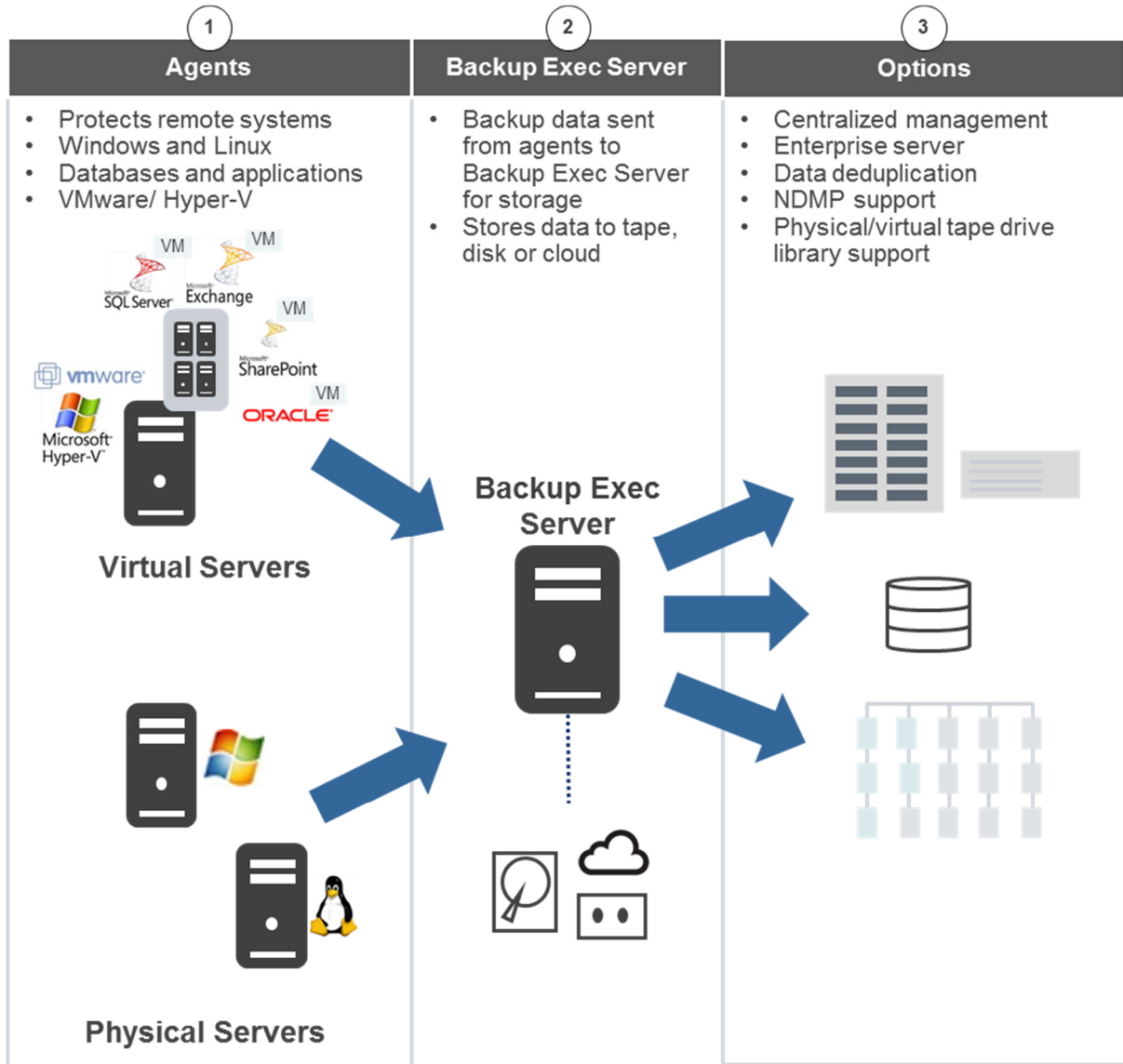
Product Overview

Veritas Backup Exec™ 16 delivers powerful, flexible and trusted data protection across virtual, physical and cloud environments, protecting your organization's data regardless where it resides. Using patented technology, Veritas Backup Exec™ protects your mission-critical data to virtually any storage device including tape, disk and cloud. Recovery is fast and efficient: with a few simple clicks, you can quickly search and restore granular file or application objects, applications, VMs, and servers directly from backup storage. Integrated global de-duplication and powerful cloud storage connectors help you reduce storage costs and increase operational efficiency. Veritas Backup Exec™ saves time and money with a single, unified data protection platform that helps ensure your critical information is always protected and recoverable in the event of a disaster or data loss.

Note: Backup Exec is not compatible with VMware ESXi free version/ read-only vAPI. Please see the software compatibility list (SCL) for details.

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Below is an illustration of the Backup Exec solution



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Packaging and Licensing Overview

Backup Exec is easy-to-use and easy-to-license. Backup Exec has different capacity based offerings based on the level of protection and functionality you need in a backup solution.

By features:

Product features		Capacity Edition Lite	Capacity Edition
		Per front-end TB	Per front-end TB
Protection coverage	Virtual	✓	✓
	Physical	✓	✓
Platform support	Windows	✓	✓
	Linux	✓	✓
	VMware	✓	✓
	Hyper-V	✓	✓
Application support	Microsoft Exchange	✓	✓
	Microsoft SQL Server	✓	✓
	Microsoft SharePoint	✓	✓
	Active Directory	✓	✓
	Oracle	✓	✓
	Lotus Domino	✓	✓
Other key features	Enterprise Vault	✓	✓
	Physical to Virtual conversion	✓	✓
	Centralized Management		✓
	Advanced Disk Backup		✓
	Deduplication		✓
	Physical Tape Drive Library Support	Single drive	Multiple drives
	Virtual Tape Drive Library Support	Single drive	Multiple drives
NDMP support		✓	

By Agents/Options:

	Capacity Edition Lite	Capacity Edition
	Per front-end TB	Per front-end TB
Backup Exec Server	✓	✓
Agent for Windows	✓	✓
Agent for Applications and Databases	✓	✓
Agent for VMware & Hyper-V	✓	✓
Agent for Linux	✓	✓
Agent for Remote Media for Linux Servers		✓
Enterprise Server Option		✓
Library Expansion Option		✓
Deduplication Option		✓
VTL Unlimited Drive Option		✓
NDMP Option		✓

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Our capacity offerings include unlimited deployment of Backup Exec server, agents and/or options, provided your front-end terabytes does not exceed the volume of data (in TB) specified by your license. 'Front-end terabyte' is defined as the size of the protected uncompressed data (i.e. data that has not been de-duplicated). You may purchase as many TBs you need according to the size of your data that needs to be protected.

Discounts are available for higher data volumes. Tier discounts will be applied at the time of transaction on individual order line quantity. Below are the quantity tiers.

- 1 TB
- 2 to 5 TB
- 6 to 15 TB
- 16 to 25 TB
- 26 plus TB

Example licensing scenarios

Example A:

Customer environment and needs	Customer needs to purchase
<ul style="list-style-type: none"> • 3 TBs of data (this includes data growth) • Needs deduplication 	<ul style="list-style-type: none"> • 3 x Backup Exec Capacity Edition <ul style="list-style-type: none"> ○ At the 2 to 5 TB tier

Example B: *Optimized duplication scenario*

Customer environment and needs	Customer needs to purchase
<ul style="list-style-type: none"> • 7 TBs of data (this includes data growth) • Needs to duplicate data to a cold DR site 	<ul style="list-style-type: none"> • 7 x Backup Exec Capacity Edition <ul style="list-style-type: none"> ○ At the 6 to 15 TB tier

Example C: *Private cloud scenario*

Customer environment and needs	Customer needs to purchase
<ul style="list-style-type: none"> • 2 TBs of data (this includes data growth) • Needs to duplicate data to a cold DR site hosted by a local ISP/partner 	<ul style="list-style-type: none"> • 2 x Backup Exec Capacity Edition <ul style="list-style-type: none"> ○ At the 2 to 5 TB tier

Example D:

Customer environment and needs	Customer needs to purchase
<ul style="list-style-type: none"> • 1 TB of data (this includes data growth) • No special backup needs 	<ul style="list-style-type: none"> • 1 x Backup Exec Capacity Edition Lite <ul style="list-style-type: none"> ○ At the 1 TB tier

Licensing FAQs

How many TBs do I purchase?

You need to purchase licenses for the amount of front-end data (data that is uncompressed/not de-duplicated) that you will back up within the next year. If you think the volume of data you need to back up will increase, but are unsure by how much, we recommend you factor in a 20% data growth rate and include that amount in the total TBs purchased. Refer to the table below as a guide.

Current TBs	Recommended TBs to purchase
1	2
2	3
3	4
4	5
5	6
10	12

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Is there an easy way to measure the amount of front-end data I have?

Yes. We have created the new Veritas Capacity Assessment Tool (VCAT) where it measures the amount of front-end terabytes of data to be protected in a customer's environment. The results in the reports generated by this tool helps customers to understand and streamline the Backup Exec licensing requirements. The tool is free and is available for download via the following link: <http://www.veritas.com/docs/000025175>

What if I purchased 5 TBs and need to purchase an additional 1 TB at a later time, does that incremental purchase qualify for a volume discount?

No. The first purchase would qualify for the 2 to 5 tier discount. The second purchase would qualify for the 1 TB tier price. The discounts are based per line per order. At renewal time, you can receive the appropriate tier discount for the aggregate amount if renewing all license amounts at the same time.

Can I buy Capacity Edition Lite and buy the Deduplication Option from the a la carte model?

No. Mixing the capacity model with other licensing models is not allowed. In this case, if deduplication is needed then Capacity Edition should be purchased and not the Capacity Edition Lite.

I have 1 main site and 2 remote sites, can I purchase Capacity Edition for the main site and Capacity Edition Lite for the remote sites?

No. You must purchase the same capacity license for all sites.

If I buy Capacity Edition Lite and then later decide that I need more features, can I upgrade to Capacity Edition?

Yes. Upgrading from Capacity Edition Lite to Capacity Edition is allowed. We have cross grade SKUs that are available to easily allow the upgrade.

I am an existing customer with a la carte licensing and would like to switch to Capacity Edition, is that allowed?

Yes. We have cross grade SKUs to allow customers with active and/or expired maintenance licenses with non-capacity based Backup Exec license to easily migrate to our capacity offerings.

Are there other licensing options available?

Yes. A la carte and V-Ray Edition are still available. Please see appendix.

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Migration to Capacity

Our capacity based offerings are our newer and easier way to license and manage Backup Exec. We are offering both active and expired maintenance customers to migrate to capacity.

Eligible Backup Exec products that qualify for migration and migration ratios:

<ul style="list-style-type: none">• Backup Exec Server, 1:1• Agent for Windows, 1:1• Agent for Applications and Databases, 1:1• Agent for VMware & Hyper-V, 1:1• Agent for Remote Media for Linux, 1:1• Agent for Linux, 1:1• Agent for Mac, 1:1*• Library Expansion Option, 1:1• Enterprise Server Option, 1:1• Deduplication Option, 1:1	<ul style="list-style-type: none">• NDMP Option, 1:1• VTL Unlimited Drive Option, 1:1• File System Archiving Option*, 1:1• Exchange Mailbox Archiving Option*, 1:1• V-Ray Edition, 1:1• Small Business Edition*, 1:1• Small Business Edition Agent for Windows*, 1:1• Backup Exec Appliance Essential Protection Suite*, 1:5• Backup Exec Appliance Total Protection Suite*, 1:5
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* Product is EOL, however licenses can be turned in for the above migration ratio.

Migration ratio examples:

- For every 1 Agent for Windows, you can get 1 TB of capacity licenses
- For every 1 Backup Exec Appliance Essential Protection Suite, you can get 5 TBs of capacity licenses

Active Maintenance Customers

Utilize Capacity Cross Grade SKUs for active licenses where customers pay just for capacity maintenance. License upgrade cost is waived.

Terms and Conditions:

- Active maintenance only.
- Existing original license needs to have been purchased before 7 November 2016.
- Customer can choose between upgrading to Capacity Edition or Capacity Edition Lite.
- If customer wishes to migrate in the middle of their current maintenance period, they must forfeit the remaining support period. No credit will be given for unused support.
- Customer does not have to purchase the same amount of TBs as the amount of eligible number of Backup Exec licenses they have.
- If customer needs more TBs than the amount of eligible Backup Exec licenses they have, they need to purchase the remaining TBs at the standard price.
- Eligible license turned in for migration will be retired.
- The Capacity Cross Grade SKUs for active maintenance licenses must be used to migrate to capacity.

Expired Maintenance Customers

Utilize Capacity Cross Grade SKUs for expired maintenance licenses where customers may pay up to 35% off license MSRP + capacity maintenance.

Terms and Conditions:

- Expired maintenance only.
- Customer can choose between upgrading to Capacity Edition or Capacity Edition Lite.

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- Customer does not have to purchase the same amount of TBs as the amount of eligible number of Backup Exec licenses they have.
- If customer needs more TBs than the amount of eligible Backup Exec licenses they have, they need to purchase the remaining TBs at the standard price.
- Eligible license turned in for migration will be retired.
- The Capacity Cross Grade SKUs for expired maintenance licenses must be used to migrate to capacity.

Example migration scenarios

Pretend today's date is 15 December 2016

Example A:

Customer's licenses and support dates

Qty	License	Original License	Support Start Date	Support End Date	Status
1	BE Server	7/1/2013	7/1/2016	7/1/2017	Active
1	Agent for Windows	7/1/2013	7/1/2016	7/1/2017	Active
1	Agent for Apps and Databases	9/1/2012	9/1/2016	9/1/2017	Active
1	Agent for VMware & Hyper-V	9/15/2013	9/15/2014	9/15/2015	Expired
Total Active Maintenance Eligible Products					3
Total Expired Maintenance Eligible Products					1

In this scenario, customer can get up to: 3 TBs of capacity licenses at the active maintenance cross grade price and 1 TB of capacity license at the expired maintenance price.

Customer environment and needs	Customer needs to purchase
<ul style="list-style-type: none"> • 2 TBs of data (includes data growth) 	<ul style="list-style-type: none"> • 2 x Backup Exec Capacity Edition Lite, Cross Grade <ul style="list-style-type: none"> ◦ At the 2 to 5 TB tier • <i>Customer does not need to purchase all 4 TBs that they can get for the cross grade</i>

Example B:

Customer's licenses and support dates

Qty	License	Original License	Support Start Date	Support End Date	Status
2	BE Server	10/1/2013	10/1/2016	10/1/2017	Active
2	Agent for Windows	5/1/2015	5/1/2016	5/1/2017	Active
2	Agent for Apps and Databases	10/1/2013	10/1/2016	10/1/2017	Active
1	Agent for VMware & Hyper-V	3/1/2014	3/1/2016	3/1/2017	Active
1	Enterprise Server Option	10/1/2014	10/1/2016	10/1/2017	Active
1	Deduplication Option	8/1/2013	8/1/2014	8/1/2015	Expired
Total Active Maintenance Eligible Products					8
Total Expired Maintenance Eligible Products					1

In this scenario, customer can get up to: 8 TBs of capacity licenses at the active maintenance cross grade price and 1 TB of capacity license at the expired maintenance price. -- CONTINUE TO NEXT PAGE--

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Customer environment and needs	Customer needs to purchase
<ul style="list-style-type: none"> • 10 TBs of data (includes data growth) • Needs deduplication • Needs central management 	<ul style="list-style-type: none"> • 8 x Backup Exec Capacity Edition Cross Grade <ul style="list-style-type: none"> ○ At the 6 to 15 TB tier -continue on next page- • 1 x Backup Exec Capacity Edition Cross Grade Expired Maintenance <ul style="list-style-type: none"> ○ At the 1 TB tier • 1 x Backup Exec Capacity Edition <ul style="list-style-type: none"> ○ At the 1 TB tier

Migration FAQs

I have 5 active maintenance Backup Exec eligible licenses, do I have to purchase 5 TBs of capacity license?

No. You can purchase up to 5 TBs of capacity licenses. You do not need to purchase all 5 TBs. If you only need 3 TBs, you can purchase that amount.

Can I exchange the remaining Backup Exec eligible active maintenance licenses for capacity licenses at the active maintenance cross grade price at a later time?

Yes. But only if the remaining a la carte licenses are on active maintenance. Once they are expired, the licenses will be only eligible for the special price for expired licenses (which is a higher price point).

What if I have 4 active maintenance Backup Exec eligible licenses but I need to purchase 5 TBs of capacity licenses?

You will need to purchase 1 TB at the standard price.

What if I am a new customer and I purchase a la carte and then decide later to go to capacity, can I get the special cross grade price for active maintenance licenses?

No. The special cross grade price for active maintenance are only for licenses purchased before 6 April 2015. This is to prevent price arbitrage from happening.

Are there any cross grade offers for new customers who purchase a la carte after 7 November 2016 and then decides later to go to capacity?

No. We need to be initially selling new customers the capacity licenses.

Migration Order Instructions

- All migration orders must attach proof of purchase of existing licenses.
- The following are proof-of-purchases that are accepted: Install Base ID, Renewal Service Contract ID
- Due to legal requirements, Backup Exec Appliance cross grades must follow the below additional instructions:
 - Customers must complete and sign a Certificate of Destruction form. Please contact a Veritas rep to obtain the document.
 - Key form details:
 - Serial #(s): this is the actual serial # that is on the Backup Exec Appliance HW
 - Signature: this needs to be a handwritten signature. Electronic signatures are not accepted.
 - Veritas rep must attach the Certificate of Destruction form to the order. Deal ID must be referenced on the PO.

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Version Upgrade Entitlements and Upgrade Mechanisms

If you are an existing Backup Exec customer, you can upgrade previously installed Backup Exec versions to Backup Exec 16. Depending on the status of your maintenance contract with Veritas, you may be entitled to upgrade Backup Exec 16 free of charge. See the table below to determine if you are entitled to this no-cost upgrade.

Version Entitlements:

Maintenance Status	Description
Backup Exec customers with active maintenance contracts	Customers with any version of Backup Exec who have a current maintenance/support contract can update all their existing backup licenses covered by their maintenance contract free of charge to Backup Exec 16.
Backup Exec customers with expired maintenance contracts	Customers with any version of Backup Exec who have expired maintenance are required to purchase the Expired Maintenance Upgrade SKUs (e.g., up to 35% off license MSRP) of their existing licenses to upgrade to Backup Exec 16.

Upgrade Mechanisms:

Customers with active maintenance

Backup Exec Version	Backup Exec 16 Upgrade
Any version of Backup Exec with maintenance	<ul style="list-style-type: none"> – Upgrade to Backup Exec 16 at no charge through the licensing portal on https://my.veritas.com – Backup Exec 15 and lower license keys will not work in Backup Exec 16 – Customers running 2010 R3 SP4 or a later version can upgrade directly to Backup Exec 16 – Customers running 2010 R2 or an earlier version of Backup Exec has to first upgrade to version 2010 R3 SP4 or higher, and then upgrade to Backup Exec 16.

Customers with expired maintenance or new customers switching from a competitor product

Backup Exec Version	Backup Exec 16 Upgrade
Any version of Backup Exec without maintenance or new customers switching from a competitor product to Backup Exec 16	<ul style="list-style-type: none"> – Upgrade to Backup Exec 16 and save up to 35% off license MSRP. – If you are an existing Backup Exec 15 or prior version expired maintenance customer, you are required to purchase expired maintenance upgrade SKUs (35% off license MSRP) for all of your existing core products, agents and options to access Backup Exec 16. – If you are switching from a competitor product to Backup Exec 16, you may save up to 35% off license MSRP via competitive upgrade SKUs.

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Discontinued Products and Entitlement

The following information shows the recent Backup Exec products that have been discontinued and the replacement product/licenses and quantity a customer is entitled to.

Discontinued Product	License Meter	Quantity	Replacement Product	License Meter	Quantity
Small Business Edition	Server	1	Capacity Edition Lite	TB	1
Small Business Edition Agent for Windows	Server	1	Capacity Edition Lite	TB	1
File System Archiving Option	Server	1	--	--	--
Exchange Mailbox Archiving Option	10 user pack	1	--	--	--
Agent for Mac	Server	1	--	--	--
V-Ray Edition 2 to 6 cores	CPU	1	V-Ray Edition	CPU	1
V-Ray Edition 8+ cores	CPU	1	V-Ray Edition	CPU	1

Small Business Edition end-of-life entitlement and cross grade information

Small Business Edition (SBE) customers on active maintenance were converted to Capacity Edition Lite. SBE customers who have purchased the following agents: Agent for Windows, Agent for Linux and Agent for Mac; will need to turn in each agent for 1 TB each as mixing licensing models is not allowed. Please refer to the Migration Section (pg. 8).

Example A:

Customer's licenses and support dates

Qty	License	Original License	Support Start Date	Support End Date	Status
1	BE Small Business Edition	9/1/2013	9/1/2016	9/1/2017	Active
1	Agent for Windows	5/1/2015	5/1/2016	5/1/2017	Active
1	Small Business Edition Agent for Windows	9/1/2013	9/1/2016	9/1/2017	Active
Total Active Maintenance Eligible Products					3

In this scenario, customer can get up to: 3 TBs of Capacity Edition Lite licenses. 2 TBs of the licenses will be automatically converted to Capacity Edition Lite; 1 TB license needs to be obtained through cross grading because Agent for Windows is not an EOL product.

Customer environment and needs	Customer needs to purchase
<ul style="list-style-type: none"> 5 TBs of data (includes data growth) 	<ul style="list-style-type: none"> 2 x Backup Exec Capacity Edition Lite (automatically converted) <ul style="list-style-type: none"> At the 2 to 5 TB tier 1 x Backup Exec Capacity Edition Lite (purchase utilizing cross grade) <ul style="list-style-type: none"> At the 1 TB tier 2 TB Capacity Edition Lite (needs to be additionally purchased utilizing standard SKU) <ul style="list-style-type: none"> At the 2 to 5 TB tier

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Small Business Edition EOL FAQs

I am an SBE customer on active maintenance, when can I expect to receive entitlement to Capacity Edition Lite?

All active SBE licenses were automatically converted to Capacity Edition Lite in our systems at the EOL date which was 6 July 2015. You should automatically see the entitlement on your next renewal. Or you can login to the licensing portal to see it instantly.

I have SBE licenses that are expired, will I be eligible to receive entitlement to Capacity Edition Lite?

No. Only active licenses receive entitlement to Capacity Edition Lite. If you would like to migrate to Capacity Edition Lite, you can migrate your expired licenses. Please refer to the Migration Section (pg. 8).

I have an Agent for Windows license and Agent for Linux license that I purchased with my SBE licenses, will those licenses be automatically entitlement mapped to Capacity Edition Lite?

No. Because Agent for Windows and Agent for Linux are products that are not EOL, those will not be automatically converted to Capacity Edition Lite. You will need to convert those licenses through the migration process by turning them in for Capacity Edition Lite licenses. Please refer to the Migration Section (pg. 8).

I have an Agent for Windows license and Agent for Linux license that I purchased with my SBE license, which would total to 3 TBs of Capacity Edition Lite after all licenses convert (either through the automatic entitlement or by cross grading), but I only need to protect 2 TBs of data. Do I need to cross grade all agents?

No. If you only need 2 TBs of Capacity Edition Lite, you only need to cross grade one of the agents. Cross grading 1 agent and the automatic conversion of the 1 SBE license brings the total to 2 TBs.

I understand the entitlement mapping was 1 to 1 (i.e. 1 TB Capacity Edition Lite for every 1 TB SBE license), I had 1 SBE license, however I have 2 TBs of data, how do I address this situation to make sure I am compliant?

You will need to purchase 1 additional TB of Capacity Edition Lite.

Will I be losing any product functionality on the entitlement to Capacity Edition Lite?

No. You will be actually gaining more functionality and data protection coverage. You are able to deploy an unlimited amount of Backup Exec server, Agent for Windows, Agent for VMware & Hyper-V, Agent for Applications and Databases, and Agent for Linux. You also are now able to protect VMware, Oracle and Enterprise Vault should the need arise as your environment grows.

Additional Information

- For more detailed information on Backup Exec including hardware and software compatibility guides, technical support and the administration guide, please visit: https://www.veritas.com/content/support/en_US/15047.html
- To easily determine the amount of front end terabytes needed for the capacity model, please download the FREE Veritas Capacity Assessment Tool (VCAT) from the following link: <http://www.veritas.com/docs/000025175>
- To manage and obtain license keys, please visit the licensing portal on: <https://my.veritas.com>
- For licensing support, please visit: <https://licensing.veritas.com>

- End of Standard Support and End of Support Life

Version	Release Type	End of Availability	End of Limited Support and Start of Partial Support	End of Support Life
Backup Exec 2010	Major	5 March 2012	5 September 2014	1 February 2017
Backup Exec 2012	Major	2 June 2014	2 December 2016	5 May 2017
Backup Exec 2014	Major	6 April 2015	6 October 2017	7 November 2018
Backup Exec 15	Major	7 November 2016	7 November 2017	7 November 2018

- Evaluate Backup Exec 16 FREE for 60 days. Backup Exec 16 will run in evaluation mode for 60 days when no license key is entered during the installation. During this 60-day period all features and options are available for evaluation. To try Backup Exec 16 free for 60 days, please visit: <https://www.veritas.com/trial/en/us/backup-exec-16.html>

Appendix

Traditional Packaging and Licensing

A la carte

Build and configure your own backup solution by determining the agents and options that are needed depending on your physical and/or virtual environment and backup needs.

Product	Licensed per	Details
Backup Exec Server	Backup Exec Server	<p>The Backup Exec Server manages the backup environment (agents/options) and all tape/ disk storage devices used for backup. Each Backup Exec environment requires at least one Backup Exec Server.</p> <p>Each Backup Exec Server license includes: 1 Agent for Windows (to protect the local physical Backup Exec Server)</p>
Agent for Windows	Windows Server	<p>Protects files on local or remote servers that are open and in use at the time of backup. Ability to create Intelligent Disaster Recovery media for tape-based disaster recovery.</p>
Agent for Applications and Databases	Application server/ database instance	<p>Protects the following applications: Microsoft Exchange Server, Active Directory, Microsoft SQL Server, Microsoft SharePoint, Oracle, Enterprise Vault.</p> <p>Each Agent for Applications and Databases license includes: 1 Agent for Windows or 1 Agent for Linux for the same server that the Application or Database is being installed on.</p> <p><u>Microsoft Exchange Server</u> Restore features of individual email, folders, mailboxes in seconds. Reduce backups and speed up recovery times with a “one pass” backup which allows for: full Exchange recovery, individual mailbox recovery, individual email recovery. When in a 2-node active/passive cluster server configuration, you need only license the active node. When licensing an Exchange DAG (Database Availability Group) environment, a license for the Exchange Agent will be required on each Exchange server in the DAG. Exchange servers that function only as a Client Access Server (CAS) are not required to be licensed; however they will need the remote agent installed.</p> <p><u>Active Directory</u> Restores individual Active Directory objects, user preferences, etc. without rebooting Active Directory Domain Controllers. When in a 2-node active/passive cluster server configuration, you need only license the active node.</p> <p><u>Microsoft SQL Server</u> Quickly restore data from local or remote backup destinations. Recover up-to-the-minute data changes. Single pass backup allows for full instance, individual database and file group recovery.</p>

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Product	Licensed per	Details
-this product section continues on the next page-		<p>When in a 2-node active/passive cluster server configuration, you need only license the active node.</p> <p><u>Microsoft SharePoint</u> Granular recovery of individual SharePoint objects and documents in seconds. Flexible support for SharePoint Server and SharePoint Services. For a Farm environment, 1 Agent is needed to protect the content database. Each additional member of the SharePoint Farm (i.e. Web Servers, Indexing Servers, Query Servers, SQL Servers, etc.) will each require a separately-licensed Agent for Windows. When in a 2-node active/passive cluster server configuration, you need only license the active node. In a SharePoint Farm, when the SQL server also hosts non-SharePoint data, the customer will need to license an Agent for Applications and Databases to protect that non-SharePoint database data.</p> <p><u>Oracle</u> Integrates with Oracle RMAN technology for backup and recovery operations. Simple point and click choices in the backup job automatically generates RMAN scripts. Multi-stream support for increased performance. Supports both Windows and Linux platforms.</p> <p><u>Enterprise Vault</u> Data protection for Enterprise Vault archives. Recover individual partition files and indexes in seconds. Integrated backup, recovery and archive solution for the Enterprise Vault application. This agent cannot be used to perform any type of email recovery. It is just to protect the Enterprise Server environment (server configuration, vault and database).</p>
Agent for VMware and Hyper-V	Host server	<p>Data protection to an unlimited number of guest virtual machines. Integration with VMware vSphere vStorage API's and Microsoft Volume Shadow Copy Service (VSS) maximizes backup and recovery performance. Granular data recovery of VMware and Hyper-V saves time and lowers cost. Supports and integrates with all key VMware technologies including vStorage API's, vCenter, vMotion, ESX/ESXi and VMware Tools. Granular Recovery Technology (GRT) provides the ability to restore individual files and folders inside of guest virtual machines without restoring the entire guest virtual machine (GRT is available for Windows guest machines only, GRT for Linux OS guest machine is not currently available due to VMware limitation).</p> <p>Each Agent for VMware and Hyper-V license includes: unlimited deployment of Agent for Windows and Agent for Linux. These unlimited agents are restricted to use in the particular ESX/Hyper-V Server Host's virtual machines only.</p> <p>Granular recovery of application data such as Exchange emails and SQL databases require the applicable application agent to be installed. The application servers will need to be licensed individually with the Agent for Applications and Databases per application. For example, if</p>

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Product	Licensed per	Details
-this product section continues on the next page-		there are 3 virtual machines running Exchange and 2 virtual machines running SQL, then the customer will need to purchase 5 licenses of the Agent for Applications and Databases.
Agent for Linux	Linux Server	Provides file and folder data protection and open file protection for supported Linux distributions. Protects major versions of Linux.
Agent for Remote Media for Linux Servers	Linux Server deployed as a remote media server	Delivers storage flexibility for Linux servers running in a Backup Exec for Windows Server environment. Directly attach a storage device (tape or disk) to a remote Linux server or deploy in a SAN environment for added flexibility and reduced bandwidth requirements for backup jobs on a remote Linux server. A Windows Backup Exec Server is required for job configuration and management.
Library Expansion Option	Tape device	Provides support for additional drives in a multi-drive tape-library, auto-loader or virtual tape library (VTL). Easily manage the target backup location to a specific device. The first library-based drive is included with the Backup Exec Server. Each subsequent drive after the first requires an additional LEO per drive. In a SAN with more than one shared library, the first drive of one library is free. A LEO is required for each subsequent drive. Virtual Tape Libraries (VTL) will need to be licensed in the same manner as a physical tape library or the customer can purchase the Virtual Tape Library Unlimited Drive Option (VUDO). Stand-alone tape drives that are not part of a tape library or auto-loader do not require a LEO.
VTL Unlimited Drive Option	Virtual Tape Library	Provides support for unlimited drives in each Virtual Tape Library attached to Backup Exec Server. When a single VTL is licensed with VUDO, that single license can be used on multiple Backup Exec Servers; however in order to share the VTL with multiple Backup Exec Servers it likely will require the Enterprise Server Option. When VUDO is not licensed, each Virtual Tape Library (VTL) will need to be licensed in the same manner as a physical tape library. VTL's with a single tape drive are supported in the same manner as a physical tape-library/auto-loader and include the first drive free.
Enterprise Server Option -this product section continues on the next page-	Managed Backup Exec Server Environment	<u>Central Administration Server</u> Simplified management of multiple Backup Exec Servers from a single point of control. Improved job resiliency through load balancing Backup Exec Servers. Allows customer to take full advantage of the SAN/iSCSI hardware. Share a tape drive within a library with various Backup Exec Servers on a SAN. Share backup devices between Backup Exec Servers. Prevents multiple Backup Exec Servers from trying to access and use a shared tape device at the same time. Includes Central Admin Server, the functionality of SAN shared-storage and advanced disk-based backup. If Central Admin is managing more than 20 Backup Exec Servers, it should be run on a server running a full version of SQL server. Many customers believe that because their data and library reside on a SAN then the backup traffic will travel across the SAN, this is not the case. In order to utilize the SAN for backup traffic, the server to be protected will need to be upgraded to a Backup Exec Server and will need to perform its own local backups.

Backup Exec 16 Licensing Guide

Product	Licensed per	Details
		<p>Advanced Disk-based Backup Eliminates the need to perform recurring full backups for supported remote resources. Enables Backup Exec to move backup processing from the host computer to the Backup Exec Server. Restore the contents of directories to what they were at the time of any full or incremental backup. Simplifies the management and restore critical data sets. Reduces the weekly backup window. Off-host backups require 3rd party hardware snapshot utilities. Note: the Enterprise Server Option (ESO) license covers the usage of off-host or synthetic capabilities of the Advanced Disk Backup Option (ADBO) therefore you have an unlimited use of these features.</p>
NDMP Option	NDMP based NAS device	<p>Supports the backup and restore of NDMP NetApp, EMC Celerra and IBM N-Series storage configurations with tape devices attached. Protection for NDMP devices residing in remote locations including in a Storage Area Network (SAN) configurations. Automated NDMP filer data duplication to tape. Expands the number of disk targets that can be selected for disk-based data protection. Clustered NAS devices require only a NDMP license for the “active” node in the cluster since both NAS devices have the same data to protect on them.</p>
Deduplication Option	Backup Exec Server	<p>Supports a data-reduction strategy by optimizing storage and network bandwidth. Supports the following deduplication methods: client-side deduplication, either on an intelligent disk device or to a deduplication disk storage device; Backup Exec server-side deduplication with a deduplication disk storage device; appliance deduplication on an OpenStorage device. Supports integrated deduplication at the Backup Exec Server and on remote computers that have the Agent for Windows or the Agent for Linux installed.</p>

Example licensing scenarios

Example A:

Customer environment and needs	Customer needs to purchase
<ul style="list-style-type: none"> • 2 Windows file servers (physical) • 1 Exchange server (physical) 	<ul style="list-style-type: none"> • 1 x Backup Exec Server • 2 x Agent for Windows • 1 x Agent for Applications and Databases

Example B:

Customer environment and needs	Customer needs to purchase
<ul style="list-style-type: none"> • 1 Windows file server (physical) • 1 Exchange server (physical) • 1 SQL server (physical) • 2 ESXi servers with a total combined of 10 VMs, of the 10 VMs 2 are applications • Needs deduplication 	<ul style="list-style-type: none"> • 1 x Backup Exec Server • 1 x Agent for Windows • 2 x Agent for VMware & Hyper-V • 4 x Agent for Applications and Databases • 1 x Deduplication Option

Example C:

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Customer environment and needs	Customer needs to purchase
<ul style="list-style-type: none"> • 2 Windows file server (physical) • 1 SQL server (physical) • 1 SharePoint Farm that has a distributed environment of 1 Web front end server, 1 Index server, 1 Query server (physical) • 3 ESXi servers with a total combined 10 VMs, of the 10 VMs 1 is an application • Needs 3 media servers • Needs central management • Needs deduplication • 2 tape autoloaders with 2 drives each 	<ul style="list-style-type: none"> • 3 x Backup Exec Server • 5 x Agent for Windows • 3 x Agent for VMware & Hyper-V • 3 x Agent for Applications and Databases • 1 x Enterprise Server Option • 1 x Deduplication Option • 2 x Library Expansion Option (because each Backup Exec server includes the first tape drive in a tape library with every Backup Exec Server license)

Example D: *Optimized duplication scenario*

Customer environment and needs	Customer needs to purchase
<ul style="list-style-type: none"> • 3 Windows file server (physical) • 1 ESXi server with 5 VMs • 1 SQL Server (physical) • Needs deduplication • Needs to duplicate data to another site • Needs central management 	<ul style="list-style-type: none"> • 2 x Backup Exec Servers • 6 x Agent for Windows • 2 x Agent for VMware & Hyper-V • 2 x Agent for Applications and Databases • 2 x Deduplication Option • 1 x Enterprise Server Option

Licensing FAQs

I am interested in migrating to the simpler capacity licensing, are there cross grade SKUs to upgrade to Backup Exec Capacity?

Yes. We offer both active and expired maintenance customers to upgrade to capacity licensing. Please refer to the Migration to Capacity section of this guide.

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V-Ray Edition

Protects virtual environments only. V-Ray Edition can be mixed with the a la carte licensing model to either add on more features that are not included in the V-Ray Edition or to extend protection to physical environments.

Product	Licensed per	Details
V-Ray Edition	Occupied CPU socket	<p>The components in V-Ray can only be used in virtual environments.</p> <p>Each V-Ray Edition license includes:</p> <ul style="list-style-type: none"> • 1 Backup Exec Server • 1 Agent for VMware & Hyper-V (includes unlimited deployment of Agent for Windows or Agent for Linux – restricted only for use in VMware & Hyper-V virtual machines only) • Unlimited deployment of Agent for Applications and Databases – restricted only for use in VMware & Hyper-V virtual machines only • Deduplication Option <p>To fully protect a VMware or Hyper-V cluster, a license is required for each socket of each node of the cluster.</p> <p>Customer is required to purchase the appropriate agents and options from a la carte licensing to protect any physical systems other than the local physical backup server.</p>

Example licensing scenarios

Example A:

Customer environment and needs	Customer needs to purchase
<ul style="list-style-type: none"> • Virtual environment only • 3 ESXi hosts, dual processors • 15 virtual machines 	<ul style="list-style-type: none"> • 6 x V-Ray Edition

Example B:

Customer environment and needs	Customer needs to purchase
<ul style="list-style-type: none"> • Virtual and physical environment • 3 ESXi hosts, dual processors • 25 virtual machines • 3 Windows file servers (physical) • 1 Linux server (physical) • 1 SQL server (physical) • 1 tape autoloader with 10 drives • Needs deduplication • Needs central management 	<ul style="list-style-type: none"> • 6 x V-Ray Edition • 3 x Agent for Windows • 1 x Agent for Linux • 1 x Agent for Applications and Databases • 9 x Library Expansion Option (because V-Ray Edition includes Backup Exec server and each Backup Exec server includes the first tape drive in a tape library with every Backup Exec Server license) • 1 x Enterprise Server Option

Example C:

Customer environment and needs	Customer needs to purchase
<ul style="list-style-type: none"> • Virtual and physical environment • 2 ESXi hosts, dual processors • 1 Windows file server (physical) 	<ul style="list-style-type: none"> • 4 x V-Ray Edition • 4 x Agent for Windows • 1 x Agent for Linux

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<ul style="list-style-type: none"> • 1 Linux server (physical) • 1 Oracle database (physical) • 1 SharePoint Farm that has a distributed environment of 1 Web front end server, 1 Index server, 1 Query server (physical) • 2 tape autoloaders with 2 drives • 1 Virtual tape library with 10 drives • Needs deduplication • Needs central management 	<ul style="list-style-type: none"> • 2 x Agent for Applications and Databases • 2 x Library Expansion Option (because V-Ray Edition includes BE server and each Backup Exec server includes the first tape drive in a tape library with every Backup Exec Server license) • 1 x VTL Unlimited Drive Option (covers an unlimited amount of virtual tape drives) • 1 x Enterprise Server Option
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Example D: *VMware or Hyper-V cluster scenario*

Customer environment and needs	Customer needs to purchase
<ul style="list-style-type: none"> • 2 node cluster with 2 CPU sockets 	<ul style="list-style-type: none"> • 4 x V-Ray Edition

Licensing FAQs

I also have a physical environment I need to protect in addition to my virtual environment, does V-Ray Edition protect my physical environment?

No. V-Ray Edition only is licensed to protect virtual environment, with the exception that the Backup Exec Server and Deduplication components included in V-Ray Edition can be used to protect your physical environment. You need to purchase the appropriate a la carte agents and options to cover your remaining physical environment and backup needs.

Does the V-Ray Edition license include protection of the local physical Backup Exec Server (media server)?

Yes.

I am interested in migrating to the simpler capacity licensing, are there cross grade SKUs to upgrade to Backup Exec Capacity?

Yes. We offer both active and expired maintenance customers to upgrade to capacity licensing. Please refer to the Migration to Capacity section of this guide.

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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.

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