



Additional License Authorizations

For HPE Storage Management software products

Products and suites covered

PRODUCTS	E-LTU OR E-MEDIA AVAILABLE [*]	NON-PRODUCTION USE CATEGORY ^{**}
HP Storage Essentials Application Viewer	Yes	Class 1
HP Storage Essentials Backup Manager	Yes	Class 1
HP Storage Essentials Chargeback Manager	Yes	Class 1
HP Storage Essentials Enterprise Edition	Yes	Class 1
HP Storage Essentials Historical Database Reporter	Yes	Class 1
HP Storage Essentials NAS Manager	Yes	Class 1
HP Storage Essentials Performance Edition	Yes	Class 1
HP Storage Essentials Performance Pack	Yes	Class 1
HP Storage Essentials Provisioning Manager	Yes	Class 1
HP Storage Essentials Report Optimizer	Yes	Class 1
HP Storage Essentials Standard Edition	Yes	Class 1
HP Storage Operations Manager Premium Edition	Yes	Class 1
HP Storage Operations Manager Ultimate Performance Edition	Yes	Class 1

^{*} Any product sold as E-LTU or E-Media shall be delivered electronically regardless of any contrary designation in a purchase order.

^{**} Non-production use rights, if any, can be found at hpe.com/software/SWlicensing.

Definitions

Capitalized terms not otherwise defined in this ALA document are defined in the governing agreement.

TERM	DEFINITION
Array	means a collection of data items that are given a single name and distinguished by numbers.
Concurrent Users or CC Users or CCU	means the software is licensed by the amount of users that simultaneously use the software. The software can be installed on any number of computers, provided that the actual usage of the software does not exceed the number of licenses purchased.
Device or Dev	means an addressable entity, physical or virtual, including but not limited to router, switch, bridge, hub, server, PC, laptops, handheld device or printer that resides within the range defined for interrogation and asset tracking.

TERM	DEFINITION
E-LTU and E-Media	means products which are electronically delivered only, and as such any reference to FOB Destination or delivery methods that are stated on your purchase order other than electronic shall be null and void with respect to these E-LTU or E-Media products.
Internal Use	means access and Use of the software for purposes of supporting your internal operations or functions.
LTU	means License To Use.
MAL	means a managed application license specific to a software application such as used for Microsoft® Exchange Server Viewer and Database Viewer (Oracle database, Sybase and Microsoft SQL).
MAP	means a managed access port.
TB	means terabytes which designates the amount of physical capacity that can be managed.
Term License to Use or Term LTU	means a software license to use (LTU) which indicates in its license description that the license is valid for a specific period of time such as One Month (1M), One Year (1Y) etc. Term LTU's are not perpetual licenses.
Term Support	means a fixed period support offering that is only valid during the time period of the associated Term LTU.
Use	means to install, store, load, execute and display one copy of the software.

Software specific license terms

Software products with software specific license terms are described below. Software products covered by this ALA document (as listed above) and not covered in this section do not have software specific license terms.

HP Storage Essentials Backup Manager

HP Storage Essentials Backup Manager TB licensing is based on the maximum number of TBs backed up in a 1-day period including partial, incremental, and full backups for Veritas NetBackup or HP Data Protector. HP Storage Essentials Backup Manager MAL licensing is based on a single MAL per Server. A Server is deemed to manage up to 50TB of storage backed up daily. Example: a customer backs up 40 TB daily, would need 1 MAL license, a customer who performs a 40 TB incremental or differential backup daily, but a 70 TB full back up on the weekends would be required to be licensed for 2 MAL's.

HP Storage Essentials Chargeback Manager, HP Storage Essentials Enterprise Edition, HP Storage Essentials Provisioning Manager, HP Storage Operations Manager Premium Edition, HP Storage Operations Manager Ultimate Performance Edition

These products are licensed by MAP. The following details how to determine the number of MAP licenses required.

Interconnect devices:

- For a fully populated switch (i.e., all blades are installed and all ports in all blades have GBIC/SFPs installed), all ports are counted towards MAPs total. If no interconnect devices add up the number of GBIC/SFPs installed in the FC switch and that is the MAPs total.

Hosts and Infrastructure:

- A non-Storage Area Network (SAN) attached server (no HBA) that has the agent installed/discovered will count as 1 MAP.
- A SAN attached server that has the agent installed/discovered will count each FC port as a MAP (a dual ported HBA will count as 2 MAPs).
- A fibre channel switch with 64 Fibre channel active ports counts as 64 MAPs.
- IDE or SCSI ports are not counted in MAP calculations unless they are used to connect to fabric switches or storage systems.
- A Windows server with no CIM Extension installed, but that has been discovered via WMI will count as 1 MAP.
- For NPIV only the physical ports are counted. For example, a customer has 10 HP BladeSystem c-Class blades with one HBA each dual ported and connected to a Brocade NPIV port will count as 12 MAPs (10+(2*1)).
- In the hosted virtual environment, ESX server HBA ports are counted as MAPs. For example, 5 ESX servers with 2 dual ported HBAs counts as 10 MAPs (5*2=10).

Storage Array:

- All discovered storage array controller ports count (for example SMI-S is used to find the arrays). If the array has 8 ports, it will count 8 MAPs. The number of MAPs in a storage system includes all physical connections independent of protocol (including Fibre Channel, ESCON, SCSI and/or FICON, Ethernet, or Gigabyte Ethernet).

HP Storage Essentials Application Viewer

HP Storage Essentials File System Viewer is licensed by MAL. The following details how to determine the number of MAL licenses required.

Standalone Applications:

- Exchange, Sybase, Oracle, MSSQL - 1 MAL per application instance
- 1 Exchange Application Instance = An Exchange Server that hosts many mailboxes
- 1 Oracle Application Instance = 1 Oracle Instance (SID) serving an Oracle database
- 1 MSSQL Application Instance = 1 MSSQL Instance which may contain many MSSQL database underneath.

Clustered Applications:

- Exchange, Oracle and MSSQL failover clusters - 1 MAL per application instance. For example, to manage an Exchange Instance running on a 3 node failover cluster, we need 1 MAL. 1 Exchange Application Instance = An Exchange Server that hosts many mailboxes
- Oracle RAC - 1 MAL per RAC instance. For example, for a 10 instance Oracle RAC serving a single DB, we need 10 MALs

HP Storage Essentials File System Viewer**TB License Definition and Usage:**

- For File System Viewer licensing is calculated based on the scanned space of the volumes. Scanned space is the aggregation of file sizes, which have been successfully scanned by SRM File System Viewer Software. Scanned space of each volume is aggregated to calculate the number of TB required to satisfying the minimum 1 TB license to use (LTU). If you have a 20 GB volume, you need a 1 TB LTU or if there were 10 TBs used by the file system (actual files taking space) then you need to order a quantity of (10 1 TB LTUs or if there were 200 Kb of files scanned then the count is 200 Kb and in this case a minimum 1 TB LTU is required.

HP Storage Essentials Historical Database Reporter

This product is licensed based on a single Concurrent User.

HP Storage Essentials Performance Edition

These products are licensed by MAPs. HP Storage Essentials Performance Edition 150 MAP license manages up to a 150 MAP environment with 1 HP EVA Array and 1 MAL of application or database. HP Storage Essentials Performance Edition 300 MAP license manages up to a 300 MAP environment with 1 HP XP Array and 1 MAL of application or database.

HP Storage Essentials Performance Pack and HP Storage Essentials Performance Pack Enterprise

Licensing is based on a per Array basis. Licensing is determined by the number of Arrays that you plan to monitor.

You can also move a license from one Array to another. For example, the customer has 4 Arrays, but only 2 LTUs. If the customer wants to view a snapshot of performance data, on any of the 4 Arrays with 2 LTUs, they can. By doing so, you will only collect real-time performance data, without interruption, on licensed Arrays. As you move a license around from monitoring Array to Array, you will not collect historical data on unlicensed Arrays; therefore you will see data collections gaps in your collected data. For some customers this is acceptable; for a customer who prefers a complete historical performance history then you want to have one LTU per monitored Array.

HP Storage Operations Manager Premium Edition, HP Storage Operations Manager Ultimate Performance Edition

HP Storage Operations Manager Premium Edition and HP Storage Operations Manager Ultimate Performance Edition include a license to HP Service Health Reporter Standard (SHR) which is licensed by Service Health Node. HP Service Health Reporter is to be used only with HP Storage Operations Manager Premium Edition or HP Storage Operations Manager Ultimate Performance Edition. Any and all other data sources other than HP Storage Operations Manager Premium Edition and HP Storage Operations Manager Ultimate Performance Edition are strictly prohibited in their SHR implementation.



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