



Additional License Authorizations

for HP CMS OSS Fulfillment products

Products and suites covered

Products	E-LTU or E-Media available *	Non-Production use category **
HP Trueview Inventory	Yes	
HP Trueview Reconciliation	Yes	
HP Service Activator	Yes	
HP Service Activator Activation Function	Yes	
HP Service Activator Extension Function	Yes	
HP Service Activator Utility	Yes	
HP Service Provisioner	Yes	
HP Service Provisioner Technology Extension	Yes	
HP NFV Director	Yes	
HP NFV Director Adapter Function	Yes	

* 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 www.hp.com/go/SWlicensing.

Definitions

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

Term	Definition
Cluster Node	<i>means a Server installed in a cluster</i>
Fulfillment Cluster/Dev/Test	<i>The Cluster/Dev/Test LTU is a cluster Server or test Server license for high-end platforms. The Cluster/Dev/Test LTU may only be used in one production system cluster or one test environment when a HP Service Activator LTU has been purchased.</i>
Cold Standby System	<i>means a non-production standby system which is NOT up and running. If the production system breaks down, or needs to be taken out of service, You are required to switch on and start the Cold Standby System in order to take over for the Production System.</i>
Core	<i>means the sub-component of the CPU that actually performs the reading and executing of the instruction. Single-core processors can only process one instruction at a time. Multiple-core processor a processing system composed of two or more independent cores.</i>
Device or Dev	<i>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.</i>
E-LTU and E-Media	<i>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-</i>



Term	Definition
	<i>LTU or E-Media products.</i>
Instance	means each implementation of the application installed on a Server.
Low end platform	means platform for licensees with limited functionality such as no cluster support and only 32 bits Java runtime environment.
<i>Internal Use</i>	means access and Use of the software for purposes of supporting your internal operations or functions.
<i>LTU</i>	means License To Use
Mobile Subscriber	means an individual receiving a service for a given mobile device.
PAYG or “Pay as you grow”	means a perpetual license scheme based on evolution of a specific usage criterion with pre-defined thresholds. As threshold is reached, the customer is required to purchase additional license as part of jointly agreed monitoring process involving HP and customer. Detailed PAYG conditions need to be agreed in the commercial agreement.
Production System	means a system which has a HP software product installed and is running some or all of the product’s processes to be used for collecting data, executing product logic, or sending/receiving messages.
RTU or Right To Use	Right to Use is used when there is no license key required to enable the product use.
Server	means any designated computer system in which an Instance or Instances of the software is installed.
Solution	means a collection of software to address a specific business issue.
Solution Pack	means a collection of software within a business solution, to implement a sub function.
Unlimited or Unltd	means without restrictions in terms of number of systems, devices, or media depending on the context.
NFV	means Network Function Virtualization
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 Trueview Inventory / HP Trueview Reconciliation

- HP Trueview provides two main functions from the eTOM map : Inventory (HP Trueview Inventory) and Discovery and Reconciliation (HP Trueview Reconciliation).
- HP Trueview Inventory can be used separately or combined with HP Trueview Reconciliation
- HP Trueview Reconciliation can be used to populate HP Trueview Inventory or any other external Inventory System that is capable to fully receive/read/process the data from HP Trueview Reconciliation.
- HP Trueview Inventory is sold as LTU per Server and requires one separate license per Production System Server and one per Server for Fulfillment Cluster/Dev/Test use.
- The HP Trueview Inventory license key is tied to the MAC address of the Server.
- An HP Trueview Inventory license is not restricted in its use by the number of users.

- HP Trueview Reconciliation is sold as LTU per Server and requires one separate license per Production System Server and one per Server for Fulfillment Cluster/Dev/Test use.
- The HP Trueview Reconciliation license key is tied to the MAC address of the Server.
- HP Trueview Reconciliation is licensed using PAYG model and is measured by the number of network elements (“NE”). A maximum configuration of 1,000 NE is associated with HP Trueview Reconciliation license. In the event of growth of the solution (i.e. increase of number of NE), additional capacity needs to be purchased. The license is based on maximum number of NE reached at a time (and will not go down if the capacity decreases). Purchase of extra capacity needs to happen as soon as limit of current system is reached (and not as a result of verification by HP)
- A HP Trueview Reconciliation license is valid only for physical discovery.
- To also discover logical information, service stitching needs to be implemented. It requires that HP Trueview Reconciliation technology extension is purchased. It is licensed per technology deployed in the solution (one technology can be deployed several times with only one license within the same Production System Server)
- For a HP Trueview Reconciliation extension, additional adapters need to be purchased separately and can be deployed to complement discovery. It is licensed per adapter deployed in the solution (one adaptor can be deployed several times with only one license).
- In the event that HP Trueview Inventory and HP Trueview Reconciliation are deployed on the same Server that is not used for a Production System (i.e. development system, test system), only one license for non-production system is required.

HP Service Activator

- The HP Service Activator software is licensed using the PAYG model, unless explicitly licensed using a different model in a separate commercial agreement.
- HP Service Activator is sold as LTU. The license key will be tied to Customer Name.
- HP Service Activator is licensed using the PAYG model and is measured by the number of tokens. A minimum configuration of 15 tokens is defined. In the event of growth of the solution, additional capacity needs to be purchased.
- The license is based on maximum number reached (and will not go down if the capacity decreases).
- Purchase of extra capacity needs to happen as soon as limit of current system is reached (and not as a result of verification by HP)
- Generic tokens have been introduced to keep the product structure simple for a given solution. The mapping between token and transaction capacity is defined in a separate mapping table (See Table 1)
- A transaction is defined as a Service Request (Create, Update, Delete, Query) received by HP Service Activator from the Order Management system or any northbound system requesting services. A Service Request which consists of a bulk request for transactions is counted as the sum of all sub-requests in the request.
- The capacity can be either a number of transactions per Unit of time (e.g.: TPS, Transaction Per Seconds) or a transaction quantity (e.g.: number of Site Activations, number of subscribers).
- HP Service Activator license can be used for production or non-production system (development, test, pre-production) irrespective of the number and type of Servers deployed, including high-availability.
- HP may decide in its sole discretion to include certain HP CMS software components in activation solution
- HP Service Activator license may be used for a single legal entity only and a specified purpose.

Table 1: Capacity Mapping Table

Application Domain	Software components	Mapping	Comment
Business Solution for VPN (Corporate Products)	HPSA Core / HPSAVPN / HPNA-adapter + HPNNMi-adapter	Transaction per Unit of time: 1 TPD (*) = 2 tokens	Applicable for L2 and L3 corporate VPNs (**)
Business Solution for VPN (Retail products)	HPSA Core/ HPSAVPN	Transaction per Unit of time: 5 TPD (*) = 1 token	Applicable for L2 and L3 retail VPNs
Business Solution for Mobile (MSA)	HPSA Core / SOSA / MSA	Transaction per Unit of time: 1 TPS(*) = 2 token	Applicable for Mobile only (2/3 G, LTE , 4G)
		Transaction per Subscriber 10,000 subscribers = 1 token	
Customer (CFS) Activation	HPSA Core	Transaction per Unit of time: 1 TPS (*) = 1 token	None

- **HP SERVICE ACTIVATOR Tier X LTU** is licensed for a specific platform according to the license terms of the product solution it is sold with. The license cannot be sold independently of a product solution without a SKU. The license may only be used for the solution it was sold with.
- **HP SERVICE ACTIVATOR Tier X Cluster/Dev/Test LTU** is licensed for a specific platform according to the license terms of the product solution it is sold with. The license cannot be sold independently of a product solution

without a SKU. The HP Service Activator Tier X Cluster/Dev/Test License may only be used in a clustered or test environment. The license may only be used for the solution it was sold with.

HP Service Activator Activation Function

- A target is a network element, element manager or service platform which is needed to be configured to provide services (HLR, AuC, EIR, etc.).
- An HPSA adaptor is the component which knows how to interact with a specific target (login and logout, activation commands, error codes, etc). Only one HPSA adaptor is built for each target type. An adaptor may evolve with additional functions over time.
- An HPSA Activation Function is associated with only one capability offered by the target (resource service). Each adaptor will support one or more activation functions (e.g. activation of voice, activation of data, activation of L2/L3 connectivity) implemented in the HPSA adaptor.
- The HPSA Activation Function is sold as RTU and requires an HP Service Activator Core installation, which must be ordered separately
- The HPSA Activation Function license is valid for the use of one activation function
- The HPSA Activation Function license can be used for production or non-production systems (development, test, pre-production) irrespective of the number and type of Servers deployed.
- The HPSA Activation Function license may be used for a single legal entity only

HP Service Activator Extension Function

- A library of productized features to complement core HPSA solution is available centrally
- Each feature– based on its complexity – is assigned a weight (See Table 2)
- The HP Service Activator Extension Function is sold as RTU and requires an HP Service Activator Core installation, which must be ordered separately
- The HPSA Extension Function license is valid for the use of a feature of weight 1.
- Several HPSA Extension Function licenses can be combined to use a feature of weight greater than one.
- The HPSA Extension Function license can be used for production or non-production system (development, test, pre-production) irrespective of the number and type of Servers deployed.
- The HPSA Extension Function license may be used for a single legal entity only

Table 2 : extension function mapping

Function name	description	weight
HP Network Automation Integration	Provides full configuration lifecycle support	2
NNMi Integration	Provides dataload and Services State sharing capability	3
Web Service Connectivity	Web Service Integration Framework	4
Solution Container	Presentation layer on top of HPSA core allowing to build customer specific GUI using best practices from HPSA R&D	4

Service Order Smart Adapter (SOSA)	Lightweight implementation of Service Order management, it provides catalog based decomposition of Service Orders into simple activation tasks	6
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HP Service Activator Utility Solution

- The HP Service Activator Utility solution is comprised of several RTUs depending on the number of subscriber meters (MU – Meter Units) used within the utility company network. The utility base must always be purchased. When the capacity of the allowed MU for the utility based is exceeded, additional utility tiers must be purchased. The summed number of allowed MU for all the utility tiers must exceed the actual number of MU in the network.
- HP Service Activator Utility Base LTU: Allows up to 30,000 (30K) Meter Units and includes one LTU of the HP Service Activator Software. A LTU for each additional cluster node Server requires a separate Tier X license.
- HP Service Activator Utility Tier A RTU: Requires a Utility Base LTU. One Utility Tier A RTU is required for every 10,000 (10K) MUs, where the number of MUs exceeds 30,000 (30K) MUs. The maximum number of MUs supported in this tier is 500,000 (500K) MUs.
- HP Service Activator Utility Tier B RTU: Requires a Utility Base LTU and 47 Utility Tier A RTUs. One Utility Tier B RTU is required for every 100,000 (100K) MUs, where the number of MUs exceeds 500,000 (500K) MUs. The maximum number of MUs supported in this tier is 2,000,000 (2M) MUs.
- HP Service Activator Utility Tier C RTU: Requires an Utility Base LTU, 47 Utility Tier A RTUs, and 15 Utility Tier B RTUs. A Utility Tier C RTU is required for every 100,000 (100K) MUs, where the number of MUs exceeds 2,000,000 (2M). The maximum number of MUs supported in this tier is 5,000,000 (5M) MUs.
- HP Service Activator Utility Tier D RTU: Requires a Utility Base LTU, 47 Utility Tier A RTUs, 15 Utility Tier B RTUs, and 30 Utility Tier C RTUs. A Utility Tier D RTU is required for every 100,000 (100K) MUs, where the number of MUs exceeds 5,000,000 (5M). The maximum number of MUs supported in this tier is 10,000,000 (10M) MUs.
- HP Service Activator Utility Tier E RTU: The HP Service Activator Utility Tier E is required on top of the Utility Base LTU, 47 Utility Tier A RTUs, 15 Utility Tier B RTUs, 30 Utility Tier C RTUs, and 50 Utility Tier D. A Utility Tier E RTU is required for every 1,000,000 (1M) MUs, where the number of MUs exceeds 10,000,000 (10M).

HP Service Provisioner

- HP Service Provisioner enables Communications Service Providers to automate provisioning of multi-vendor, multi-technology products and services. It provides functionality for service order decomposition, streamlines the execution of the order provisioning flow, and facilitates service order lifecycle management. It includes the following key functions:
 - Service catalog – it implements dynamic products and services specification (Product only includes technical definition of Customer Facing Services (CFS) with all their characteristics). It also includes rules to translate product instances into underlying services instances with mapping of characteristics
 - Dynamic service order management – It covers design and assign process, service decomposition (both catalog driven and through manual interactions), mapping of product and service characteristics throughout hierarchical structure, and order orchestration.
 - Service inventory – It maintains all instances of service request, offering full text search, reporting, versioning and history of data
- The HP Service Provisioner software is licensed using the PAYG model, unless explicitly licensed using a different model in a separate commercial agreement.
- HP Service Provisioner is sold as LTU. The license key will be tied to Customer Name.
- HP Service Provisioner is licensed using the PAYG model and is measured by the number of tokens. A minimum configuration of 10 tokens is defined. In the event of growth of the solution, additional capacity needs to be purchased.
- The license is based on maximum number reached (and will not go down if the capacity decreases).
- Purchase of extra capacity needs to happen as soon as limit of current system is reached (and not as a result of verification by HP)
- Generic tokens have been introduced to keep the product structure simple for a given solution. The mapping between token and capacity is defined in a separate mapping table (See Table 2)
- The capacity can be either a number of transactions per Unit of time (e.g.: TPS, Transaction Per Seconds) or a transaction quantity (e.g.: number of Site Activations, number of subscribers).
- A transaction is defined as a Service Request (Create, Update, Delete, Query) received by HP Service Provisioner from the CRM system or any northbound system requesting services. A Service Request which consists of a bulk request for transactions is counted as the sum of all sub-requests in the request.
- HP Service Provisioner license can be used for production or non-production system (development, test, pre-production) irrespective of the number and type of Servers deployed, including high-availability.
- HP may decide in its sole discretion to include certain HP CMS software components in solution
- HP Service Provisioner license may be used for a single legal entity only and a specified purpose.

Application Domain	Mapping	Comment
Mobile - Entry	Transaction per Subscriber: 100,000 subs=1 token	Total number of subscriber below 5 Million
Mobile – Mid / Large	Transaction per Subscriber: 1,000,000 subs=1 token	Total number of subscriber is above 5 million Prerequisite - license for 5 million subs using entry based mapping is purchased first

VPN Retail - Entry	Transaction per Subscriber: 10,000 subs=1 token	Total number of subscriber below 500,000
VPN Retail – Mid/Large	Transaction per Subscriber: 100,000 subs=1 token	Total number of subscriber is above 500,000 Prerequisite - license for 500,000 subs using entry based mapping is purchased first
VPN Commercial - Entry	Transaction per VPN sites: 1,000 sites=1 token	Total number of sites below 5,000
VPN Commercial – Mid/Large	Transaction per VPN sites : 10,000 sites=1 token	Total number of sites is above 5,000 Prerequisite - license for 5,000 sites using entry based mapping is purchased first

Table 2: HP Service Provisioner Capacity Mapping Table

HP Service Provisioner Technology extension

- HP Service Provisioner components need to be configured for each given network technology.
- To get technology specific configuration of both the service catalog, and the service orchestration an HP Service Provisioner technology extension needs to be purchased. HP Service Provisioner technology extension is sold as RTU, and is licensed per technology deployed in the solution (one technology can be deployed several times with only one license within the same Production System Server)
- As many HP Service Provisioner technology extension licenses are required as different technology implemented in the solution.

HP NFV Director

- The HP NFV Director software is licensed using the PAYG model, unless explicitly licensed using a different model in a separate commercial agreement.
- HP NFV Director is sold as LTU. The license key will be tied to Customer Name.
- HP NFV Director is licensed using a combination of a mandatory Base platform license and a PAYG model measured by the number of tokens. No minimum configuration is defined. In the event of growth of the solution, additional capacity needs to be purchased.
- The HP NFV Base platform license can be used for production or non-production system (development, test, pre-production) irrespective of the number and type of Servers deployed.
- The HP NFV Director Base platform license includes the following common base adapter functions that do not need to be purchased separately: Openstack and Cloud OS adapters (for configuration and monitoring), generic SNMP adapter (for monitoring), generic CLI, http, LDAP adapters (for configuration)
- The PAYG license is based on maximum number reached (and will not go down if the capacity decreases).
- Purchase of extra capacity needs to happen as soon as limit of current system is reached (and not as a result of verification by HP)
- The PAYG license applies only to production environment.
- Generic tokens have been introduced to keep the product structure simple. The mapping between token capacity is defined in a separate mapping table (See Table 2)
- HP may decide in its sole discretion to include certain HP CMS software components in the NFV Director solution
- HP NFV Director license may be used for a single legal entity only and a specified purpose.

Table 2: Capacity Mapping Table

Component	Token Usage	Comment
VNF Component	1 token for Configuration 1 token for Monitoring 2 tokens for Automation	A VNF component is a Virtual Network Function component as defined in the VNF Descriptor and stored in a NFV Director <u>inventory</u> production database
VIM	1 token	A VIM is a Virtual Infrastructure Manager instance stored in a NFV Director <u>instance</u> production database
Physical server or physical device	0.01 token (1 token for 100 servers/devices)	A Physical server or physical device instance stored in NFV Director <u>instance</u> production database
The number of token needed is obtained by multiplying the number of VNF Component tokens by either a) the number of VIM tokens or b) the number of Physical servers or device tokens (when no VIM is used)		

HP NFV Director Adapter Function

- A target is a VNF manager, Virtual Infrastructure manager (VIM), network element, element manager or application which is needed to be configured, monitored or automated for orchestration with NFV Director.
- A HP NFV Director adaptor is the component which knows how to interact with a specific target. Only one HP NFV Director adaptor is built for each target type. An adaptor may evolve with additional functions over time.
- A HP NFV Director Adapter Function is associated with only one orchestration capability associated with the target. The capabilities currently supported are configuration, monitoring and automation.
- The HP NFV Director Adapter Function is sold as RTU and requires an HP NFV Director Base platform installation, which must be ordered separately
- The HP NFV Director Base platform license includes the following common base adapter functions that do not need to be purchased separately: Openstack and Cloud OS adapters (for configuration and monitoring), generic SNMP adapter (for monitoring), generic CLI, http, LDAP adapters (for configuration)
- The HP NFV Director Adapter Function license is valid for the use of one orchestration capability per target.
- The HP NFV Director Adapter Function license can be used for production or non-production systems (development, test, pre-production) irrespective of the number and type of Servers deployed.
- The HP NFV Director Adapter Function license may be used for a single legal entity only

Additional license terms

Term

- A. Software contains software and associated specifications licensed from third parties that are confidential to, and trade secrets of, such parties. You will not take any action other than to Use it as authorized under the agreement as part of the software products and will not disclose it to third parties.
- B. You shall install and use the software as authorized in the applicable agreement only as a complete product and may not use portions of such software on a standalone basis separate from the complete software unless expressly authorized in the Supporting Material, specifications or an applicable agreement.
- C. Unless stated otherwise, you are authorized to Use one Device at a time for your Internal Use.

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