

ADDITIONAL LICENSE AUTHORIZATIONS

for HP CMS OSS Fulfillment products

PRODUCT USE AUTHORIZATIONS

This document provides Additional License Authorizations for the following Software products of HP Communications & Media Solutions business unit:

Products	Products (Continued)
HP Trueview Inventory	HP Trueview Reconciliation
HP Service Activator	HP Service Activation Extension Function
HP Service Activator Activation Function	HP Service Activator Utility Solution
HP Subscription Repository	HP Service Provisioner
HP Business Solution for Metro-Ethernet / HP Business Solution Pack Commercial	HP Business Solution for Mobile / HP Business Solution Pack Retail

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Definitions

Capitalized terms not otherwise defined in this Additional License Authorizations document are defined in the governing Agreement.

Term	Definition
Business Solution	see Solution.
Cluster Node	means a Server installed in a cluster.
Fulfillment Cluster/Dev/Test	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.
Cold Standby System	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.
Core	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.
Device	means an addressable entity including but not limited to router, switch, bridge, hub, Server, PC, laptop, handheld device or printer that resides within the range defined for interrogation and asset tracking.
E-LTU and E-Media	means products which are electronically delivered only, and as such any references 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.
Fixed line service	means a communication services received over fixed line technology such as FTTx, GPON, ADSL, Metro-Ethernet, but not exclusive.
Fixed Line Subscriber	A subscriber receiving a service over a fixed line.
Fulfillment Token	means the metric a licensee is authorized to use.
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.
LTU or License To Use	License to Use is used when a license key is required to enable product 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.



Software specific license terms

Unless otherwise stated, HP OSS Service Fulfillment software products are licensed independent of operating systems. Note that not all products may be available on all platforms.

If the software products are part of a HP solution, the license terms of the solution will take precedence where these Additional License Authorization contradict with the solution license terms.

The following license terms are applicable for HP Service Fulfillment Software products identified above:

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 used be 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	6



	Service Orders into simple activation tasks	
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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 (Core / technology extension)

- HP Service Provisioner manages the end to end lifecycle of service requests received from BSS layer. It includes two generic subcomponents: a SID compliant catalog/inventory and dynamic service design & assign. Those components need to be configured for each given network technology.
- HP Service Provisioner generic components are sold as LTU (HP Service Provisioner foundation) and require one separate license per Production System Server.
- HP Service Provisioner foundation license can be used for production or non-production system (development, test, pre-production)
- 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 may decide in its sole discretion to include certain HP CMS software components in HPSP solution (e.g. HP Subscription Repository).

HP Subscription Repository

- HP Subscription Repository is licensed using PAYG model and is measured by the number of subscriptions. A minimum configuration of 500,000 subscriptions is defined. In the event of growth of the solution (i.e. increase of number of subscriptions), 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)



HP Business Solution Pack Retail (HP Business Solution for mobile)

- HP Business Solution for mobile networks is a combination of one or more HP Business Solution Pack for Retail. It implements end-to-end fulfillment stack (commercial and technical) for mobile networks.
- To allow flexibility and match as closely as possible customer needs, HP Business Solution for mobile networks is defined as a set of HP Business Solution Packs Retail. Each one implementing a different sub-function (e.g.: order entry in commercial fulfillment or activation in technical fulfillment). Only HP Business Solution Packs Retail are licensed, not the entire HP Business Solution for mobile networks.
- HP Business Solution Pack Retail can be used separately, in conjunction with external applications, or combined together with other HP Business Solution Pack Retail licenses, at the time of initial deployment or over time.
- In case several HP Business Solution Packs Retail need to be deployed (to implement several sub-functions), one license is required for each HP Business Solution Pack Retail.
- HP Business Solution Pack Retail license can be used for production or non production system (development, test, pre-production) irrespective of the number and type of Servers deployed.
- HP may decide in its sole discretion to include certain HP CMS software product licenses into the HP Business Solution Pack Retail. HP CMS software products delivered in this context may only be used as part of an HP Business Solutions for Mobile, and any deployment of HP CMS software product in a different context requires a specific license (see HP Service Activator, HP Service Provisioner, etc...).
- HP Business Solution Pack Retail is licensed using the PAYG model and is measured by the number of mobile subscribers. A minimum configuration of 200,000 mobile subscribers is defined. In the event of the growth of the solution (i.e. increase of number of mobile subscribers' number), 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)
- HP Business Solution Pack Retail license may be used for a single legal entity only. The parties may agree otherwise in writing.
- HP Business Solution for mobile can be combined with other HP business solutions to implement convergent solution.
- HP Business Solution Pack Retail license does not provide licenses or right to use of any 3rd-party products, such as order management or inventory systems.

HP Business Solution Pack Commercial (HP Business Solution for metro-Ethernet/VPN)

- HP Business Solution for metro-Ethernet is a combination of one or more generic HP Business Solution Pack for Commercial. It implements end-to-end fulfillment stack (commercial and technical) for metro-Ethernet /VPN network.
- To allow flexibility and match as closely as possible customer needs, HP Business Solution for metro-Ethernet is defined as a set of HP Business Solution Packs Commercial. Each one implementing a different sub-function (e.g.: order entry in commercial fulfillment or activation in technical fulfillment). Only HP Business Solution Packs Commercial are licensed, not the entire HP Business Solutions for metro-Ethernet.
- HP Business Solution Pack Commercial can be used separately, in conjunction with external applications, or combined together with other HP Business Solution Pack Commercial licenses at the time of initial deployment or over time.
- In case several HP Business Solution Packs Commercial need to be deployed (to implement several sub-functions), one license is required for each HP Business Solution Pack Commercial.
- HP Business Solution Pack Commercial license can be used for production or non production system (development, test, pre-production) irrespective of the number and type of Servers deployed.
- HP may decide in its sole discretion to include certain HP CMS software product licenses into the HP Business Solution Pack Commercial. HP CMS software products delivered in this context may only be used as part of an HP Business Solutions for Metro-ethernet/VPN, and any deployment of HP CMS software product in a different context requires a specific license (see HP Service Activator, HP Service Provisioner, etc...).



- HP Business Solution Pack Commercial is licensed using the PAYG model and is measured by the number of orders/month. A minimum configuration of 2,000 orders/month is defined. In the event of growth of the solution (i.e. increase of number of orders/month' number), additional capacity needs to be purchased. HP Business Solution Packs Commercial 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)
- HP Business Solution Pack Commercial license may be used for a single legal entity only. The parties may agree otherwise.
- HP Business Solution for metro-Ethernet can be combined with other generic HP Business Solution Packs to implement convergent solution.
- HP Business Solution Pack Commercial license does not provide licenses or right to use of any 3rd-party order management or inventory products.



Additional license terms

The Software described in this Additional License Authorization (“ALA”) is governed by the agreement set forth on the quote for the order referencing this Software. The terms of this ALA shall govern delivery of the Software and specifically take precedence over any different terms in such agreement to the extent of a conflict.

Term	Definition
A.	Software contains Software and associated Specifications licensed from third parties that are confidential to, and trade secrets of, such parties. Licensee 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.	Licensee 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 Transaction Documents, Specifications or an applicable Agreement.
C.	Unless stated otherwise, Licensee is authorized to Use one Device at a time for Licensee’s Internal Use.
D.	Licensee accepts Software upon delivery.
E.	Third party suppliers are intended beneficiaries under this Agreement and independently may protect their rights in the Software in the event of any infringement. All rights not expressly granted to Licensee are reserved solely to HP or its suppliers.
F.	Licensee must reproduce all copyright notices that appear in or on the Software (including documentation) on all permitted copies or adaptations. Copies of documentation are limited to Internal Use.
G.	Licensee may not Use or allow any other person or entity to Use Software or Support for the provision of commercial timesharing, service bureau, managed, outsourcing, ASP, subscription or other services to any person or entity without written authorization from HP, pursuant to additional terms and conditions or a separate written agreement for such Use and where applicable licenses and fees.
H.	Licensee agrees that HP may audit relevant books and records (including electronic), devices computers and systems of Licensee and its service providers, consultants and contractors (collectively, “Contractors”) relating to the Software in order to verify Use of the Software in compliance with the Software license terms (“License Terms”) . HP may make copies of any such books and records. HP may conduct the audit itself, or at its option may use an independent third party. Audits may be conducted at any sites of Licensee, and its Contractors where copies of the Software are installed, Used or accessed, including remotely. HP will bear its own costs in connection with an audit. HP shall provide at least twenty one (21) calendar days prior notice of any audit, except when it has reasonable cause to suspect that there is an infringement of its intellectual property rights, in which case only two (2) working days’ notice is required. Any audit would be performed during Licensee’s normal business hours in a manner that minimizes disruption to Licensee’s business. Licensee and its Contractors shall provide HP and its auditor with all assistance reasonably required in order to carry out the audit. If an audit reveals underpayments, then Licensee will pay HP such amounts invoiced by HP based on the prices for the Software license and Support fees specified in the local published HP price list in effect on the date of completion of the audit. If the underpayment exceeds by 5% the prices payable by Licensee for the Software and Support during the period covered by the audit, then Licensee will also pay the costs reasonably incurred by HP in connection with the audit and seeking compliance with this sub-section . HP’s rights and remedies in this section shall be without prejudice to any additional rights or remedies it may have at law or in equity for Licensee’s non-compliance with these License Terms. Licensee shall cause its Contractors to agree to, and comply with, the provisions of this section and shall be responsible for their non-compliance.

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