ADDITIONAL LICENSE AUTHORIZATIONS
For HPE CMS SIM/eSIM Management software product

PRODUCTS AND SUITES COVERED

<table>
<thead>
<tr>
<th>Products</th>
<th>E-LTU or E-Media available*</th>
<th>Non-production use category</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE Dynamic SIM Provisioning</td>
<td>Yes</td>
<td>Production and non-production licenses are available</td>
</tr>
<tr>
<td>HPE Remote SIM Provisioning Manager</td>
<td>Yes</td>
<td>Production and non-production licenses are available</td>
</tr>
</tbody>
</table>

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

DEFINITIONS

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

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active</td>
<td>An active resource is configured and in use, as opposed to a passive, or standby resource, which will be used only on failure of the currently active resource</td>
</tr>
<tr>
<td>Base LTU</td>
<td>The mandatory LTU(s) for a given software component upon which licenses for capacity and/or optional features would need to be added</td>
</tr>
<tr>
<td>BHM</td>
<td>The number of Busy Hour Messages that are handled by the MSE platform. It is the average number of messages seen by the platform in the busiest one hour of a day, or of a week, or of a month. The messages could be incoming or outgoing, and could be MAP or Diameter messages</td>
</tr>
<tr>
<td>CMP</td>
<td>Connectivity Management Platform, is an optional feature of the DSP platform. It allows the operator web-based and API-based management of their Machine-to-Machine subscriptions</td>
</tr>
<tr>
<td>Consumption</td>
<td>Right to use the Software for a limited period of time with variable capacity, reported in arrears and with potential renewal upon term expiration.</td>
</tr>
<tr>
<td>DSP</td>
<td>Is the Dynamic SIM Provisioning software system to manage registration, provisioning, activation and updating of SIM cards, based on specific features chosen by the customer</td>
</tr>
<tr>
<td>E-LTU and E-Media</td>
<td>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</td>
</tr>
<tr>
<td>eUICC/eSIM</td>
<td>An eUICC card is an Embedded Universal Integrated Circuit Card, also called embedded SIM, or eSIM.</td>
</tr>
<tr>
<td>Feature LTU</td>
<td>The optional LTU(s), which enable specific optional features</td>
</tr>
<tr>
<td>FTA</td>
<td>First Time Attach, is an optional component of the DSP solution. It provides authentication and provisioning of new or re-activated SIMs cards</td>
</tr>
<tr>
<td>Geo-redundancy</td>
<td>Geographic redundancy, is duplication of the software over two or more physical sites, to enable the installation and configuration of the same software on standby. The geo-redundant site can only be activated on failure of the active site</td>
</tr>
<tr>
<td>Internal Use</td>
<td>Access and Use of the software for purposes of supporting your non-commercial, internal operations or functions</td>
</tr>
<tr>
<td><strong>Instance</strong></td>
<td>Means each implementation of the application installed on a Server.</td>
</tr>
<tr>
<td><strong>IMSI</strong></td>
<td>International Mobile Subscriber Identity; it uniquely identifies a GSM subscriber</td>
</tr>
<tr>
<td><strong>Licensee</strong></td>
<td>Licensee is the end user individual or entity who has acquired the rights to use the software per a valid purchase order and which is subject to the End User License Agreement and this ALA</td>
</tr>
<tr>
<td><strong>LTU</strong></td>
<td>License To Use. License to Use is used when a license key is required to enable product use.</td>
</tr>
<tr>
<td><strong>MSE</strong></td>
<td>Multimedia Services Environment</td>
</tr>
<tr>
<td><strong>Non-Commercial License</strong></td>
<td>Entitles customer to use DSP software only on non-production system</td>
</tr>
<tr>
<td><strong>Non-production system</strong></td>
<td>means a system which has the licensed software product installed, and is to be used solely for the purpose of a) developing Licensee add-on applications; b) migration testing, e.g. to test version upgrades; c) Pre-production staging, e.g., to test new applications before deployment; or d) support-related testing. This system is not authorized for any production or commercial usage</td>
</tr>
<tr>
<td><strong>Production System</strong></td>
<td>a system which has the commercially licensed software product installed and is to be used for collecting data, executing product logic, or sending/receiving messages for production or commercial usage</td>
</tr>
<tr>
<td><strong>SIM</strong></td>
<td>An individual Subscriber Identity Module card in the DSP system</td>
</tr>
<tr>
<td><strong>Solution</strong></td>
<td>Means a collection of software to address a specific business issue.</td>
</tr>
<tr>
<td><strong>Standby or Passive</strong></td>
<td>A resource which is configured, but is not being used to provide a function during normal operation, as opposed to an Active resource which is configured and is being used. A standby resource can be activated for business continuity upon failure of the Active resource. The passive, or standby platform, cannot be used for commercial or non-commercial purpose, unless the active platform is down</td>
</tr>
<tr>
<td><strong>SU</strong></td>
<td>SIM Updater, is an optional feature of the DSP platform. It provides over-the-air updates of SIM cards, managed by the DSP platform</td>
</tr>
<tr>
<td><strong>Subscriber</strong></td>
<td>An individual receiving a service for a given SIM or mobile device</td>
</tr>
<tr>
<td><strong>Subscription</strong></td>
<td>Right to Use the Software for a limited period of time, with upfront defined fixed capacity and with potential renewal upon term expiration.</td>
</tr>
<tr>
<td><strong>TAS</strong></td>
<td>Telecom Application Server</td>
</tr>
<tr>
<td><strong>Token</strong></td>
<td>The unit of capacity for DSP base licenses. Generic tokens keep the license structure simple. The mapping between token and transaction capacity is defined. For e.g. a 15 token license is needed for 500 K Warm SIM activations a month</td>
</tr>
<tr>
<td><strong>Base Transaction</strong></td>
<td>A base transaction is an external service request to either activate, de-activate, register or re-activate, received by the HPE DSP or RSPM system. A service request which includes multiple requests for base transactions, is counted as the sum of the individual sub-requests in the request</td>
</tr>
<tr>
<td><strong>WFMG</strong></td>
<td>Work Flow Manager</td>
</tr>
</tbody>
</table>
SOFTWARE SPECIFIC LICENSE TERMS

Software products with software specific license terms are described below.

HPE Dynamic SIM Provisioning

Perpetual licenses based model

The HPE Dynamic SIM Provisioning (DSP) software Base LTU’s are based on the number of transactions/subscriptions handled by the DSP software. DSP is a multi-tenant Solution on a Production System and enables to activate new SIMs attaching to the network used by Subscribers.

The Commercial Base LTU’s include –

1. **HPE DSP Workflow Manager E-LTU** allows the use of DSP Work Flow Manager sub-system in a DSP platform for any SIM management activity.

2. **HPE DSP Token Capacity E-LTU** allows the licensed number of Base Transactions on the DSP platform based on the number of Tokens purchased. The Base Transactions could relate to any of the following capabilities - Warm SIM activations, sleeping SIM de-activations or IMSI profile management. A 15 Token capacity LTU would imply a license for any of the following –
   - 500K warm SIM activations a month, OR
   - 500K sleeping SIM de-activations a month

A set of 15 Tokens can be used to enable any one of the transaction capabilities. It cannot be split over multiple low volume capabilities.

1. **HPE DSP Token Capacity E-LTU** allows the use of the Service Activator Workflow Engine in DSP platforms, up to the allowed Token capacity. The SA Tokens are needed whenever DSP Tokens are used. One SA Token is needed for every 8 DSP Tokens purchased. SA Tokens are also needed whenever OTA capacity Tokens are purchased. The HPE SA licenses are specifically for the purpose of DSP solution, and cannot be used outside of DSP scope.

Note that Oracle or Posgres EDB is a prerequisite

Optional licenses include -

HPE DSP optional licenses enable specific optional DSP features, like CMP, SU and FTA. The number of licenses needed is based on the number of related transactions, for the feature.

- **DSP SIM Updater (SU)**
  - **DSP SU E-LTU** enables the SU feature in the DSP platform.
  - **DSP SIM Updater RAM option E-LTU** enables remote applet management. It allows installation, update and deletion of applets from the SIM card.
  - **DSP SIM Updater RFM option E-LTU** enables remote file management. It allows read, write of information in the SIM Elementary Files.
  - **DSP SIM Updater Capacity E-LTU** allows over the air updates of the licensed capacity of SIMs. The capacity license is not needed when the user requirement is only for EF IMSI update for the DSP activation use case.
  - **DSP SIM Updater Campaign Manager E-LTU** optional is to enable the campaign manager feature of the DSP portal.
  - **DSP SIM Updater HTTP Support LTU** is an optional E-LTU to enable OTA updates of SIM cards via HTTP protocol.
• DSP Connectivity Management Platform (CMP).
  o DSP Connectivity Management Platform (CMP) E-LTU enables the CMP graphical portal in a DSP platform for management of IOT and M2M subscriptions, by operators, and their enterprise customers.
  o DSP CMP Capacity E-LTU allows management of the licensed capacity of machine to machine (M2M) SIMs/eSIMs.
  o DSP GSMA RSP Cons SM is an optional license needed for management of eSIMs on consumer devices and integrated with HPE (or third party) RSPM (SM-DP+). If this LTU is used then the CMP capacity LTU is needed for the number of consumer device eSIMs that will be managed by CMP.
  o DSP GSMA RSP M2M SM is an optional license needed for management of eSIMs on M2M devices and integrated with HPE (or third party) RSPM (SM-SR and SM-DP). If this LTU is used then the CMP capacity LTU is needed for the number of M2M device eSIMs that will be managed by CMP.

• DSP First Time Attach (FTA)
  o DSP First Time Attach (FTA) E-LTU enables the FTA feature for authentication and provisioning of new, or sleeping, SIM cards on their first attach to the network.
  o DSP FTA Capacity E-LTU enables the FTA feature up to the quantity of licensed SIM cards. Unused capacity in one year cannot be transferred to any following year.
  o HPE Multimedia Services Environment (MSE) for DSP 10K BHM Capacity Unit E-LTU allows use of the MSE of TAS for MAP and Diameter message handling by the FTA component, up to the licensed capacity. A capacity upgrade on the platform to add FTA capacity should be matched by a corresponding increase in BH Messaging Capacity LTU.

HPE DSP Chargeable Feature E-LTU enables various special developments done on demand.

HPE DSP WFMG Passive site E-LTU enables multi-site redundancy of the DSP platform. One license allows one Geo-redundant site. It allows features and capacity identical to the active platform, except the SU option, which requires a separate license for the passive site. The Geo-redundant DSP site can be activated only on failure of the active DSP site.

HP SIM Updater Passive Site E-LTU enables multi-site redundancy of the SU feature in a DSP platform. One license allows one Geo-redundant site. It allows use of the SU feature on the standby DSP platform, with identical capacity as the active site. The Geo-redundant SU site can be activated only on failure of the active SU site.

HPE DSP Non-Commercial E-LTU are used only on non-production systems for test and development purposes only. The license enables a single Instance of the platform, with no failover.

  • HPE DSP Workflow Manager (WFMG) Non-Commercial E-LTU – enables the use of DSP WFMG in a non-commercial system
  • HPE SIM Updater Non-Commercial E-LTU – enables the SU feature in a non-commercial DSP system
  • HPE DSP FTA Non-Commercial E-LTU – enables the FTA feature in a non-commercial DSP system
Term licenses based models

**HPE SIM Management 3M Consumption Fee E-LTU:** This license gives the right to use the HPE DSP software during a limited period, with a minimal term of 1 year to be extended or renewed.

The consumption fee will be calculated on a monthly basis, based on the number of SIM activations/events stored during the month, and invoicing will occur quarterly in arrears based on the usage.

Interfering or disabling any software designed to allow HPE to monitor consumption will be a material breach of this license. After termination of the consumption contract, the customer has no further rights to use the DSP software.

Minimum number of transactions charged per month is 100k transactions.

The term licenses apply to production related platforms.
HPE Remote SIM Provisioning and Management

Perpetual licenses based model

The HPE Remote SIM Provisioning and Management (RSPM) software perpetual base licenses depend on whether the platform needs to manage M2M eSIMs for enterprise customers, or consumer eSIMs for connected devices. The license capacity for the Production System is based on the number of profile Base Transactions expected to be handled by the RSPM software per year.

RSPM is a multi-tenant solution.

The RSPM commercial perpetual base licenses for M2M include –

1. **HPE RSPM M2M SM-DP and SM-SR E-LTUs** base licenses needed to enable the Subscription Manager Data Preparation (SM-DP), and Subscription Manager Secure Routing (SM-SR) modules for M2M segment. Either the SM-DP, or the SM-SR, or both licenses could be purchased, depending on the user requirement.

2. **HPE DSP SIM Updater (SU) E-LTU** enables the SU feature at the back of the SM-SR platform.

3. **HPE RSPM M2M Capacity E-LTUs** allow the licensed number of profile transactions (i.e. a transaction being either a download, an activations or an EIS registration) by the RSPM platform. The tier 1 licenses need to be exhausted for allowed capacity, before moving to tier 2 and so on for the same customer site. Either the SM-SR/SM-DP base licenses or the Tier 0 licenses (for SM-SR/SM-DP) up to allowed capacity, are needed as prerequisite to the capacity licenses. The tiers are as follows -
   - HPE RSPM M2M 100K Transactions per year Tier 1 max 500K
   - HPE RSPM M2M 100K Transactions per year Tier 2 max 5 Mn
   - HPE RSPM M2M 100K Transactions per year Tier 3 max 10 Mn
   - HPE RSPM M2M 100K Transactions per year Tier 4 max 20 Mn
   - HPE RSPM M2M 100K Transactions per year Tier 5 more than 20 Mn

4. **HPE RSPM M2M Starter kit E-LTUs** combine the base and capacity license LTUs for very low volume requirements. They are also called Tier 0 licenses. Either the SM-DP feature, or the SM-SR feature, or both together, can be chosen.
   - HPE RSPM M2M SM-SR 10K Transactions per year Tier 0 max 50K
   - HPE RSPM M2M SM-DP 10K Transactions per year Tier 0 max 50K

The same system can then be upgraded for higher capacity, by purchasing the needed quantity of RSPM M2M capacity LTU, after the T0 tier capacity is exhausted.

The RSPM commercial perpetual base licenses for consumer include –

1. **HPE RSPM consumer SM-DP+ E-LTU** base license is needed to enable the Subscription Manager Data Preparation (SM-DP+) module for consumer segment.

2. **HPE RSPM Consumer Capacity E-LTUs** allow the licensed number of profile downloads by the RSPM platform. The tier 1 licenses need to be exhausted for allowed capacity, before moving to tier 2 and so on for the same site of the CSP customer. Either the base SM-DP+ license or the Tier 0 licenses (for SM-DP+) up to allowed capacity, are needed as prerequisite to the capacity licenses. The tiers are as follows -
   - HPE RSPM Consumer 100K Download per year Tier 1 max 500K
   - HPE RSPM Consumer 100K Download per year Tier 2 max 5 Mn
   - HPE RSPM Consumer 100K Download per year Tier 3 max 10 Mn
   - HPE RSPM Consumer 100K Download per year Tier 4 max 20 Mn
HPE RSPM Consumer 100K Download per year Tier 5 more than 20 Mn

3. **HPE RSPM Consumer Starter kit E-LTU** combines the base and capacity license LTUs for very low volume requirements. It is also called Tier 0 license. The same system can then be upgraded for higher capacity, by purchasing the needed quantity of RSPM Consumer capacity LTU, after the T0 tier capacity is exhausted.

   - HPE RSPM Consumer SM-DS Support Opt E-LTU

Note that Oracle or Postgres EDB is a prerequisite.

Optional licenses include -

**HPE RSPM Profile Generation E-LTU** is an optional perpetual license that is needed if HPE RSPM is required to generate eUICC profiles instead of relying on the EUM or eUICC manufacturer. It is a one-time optional fee – with unlimited capacity.

   - **HPE RSPM Profile Generation Option E-LTU**

**HPE RSPM SM-SR SMS Routing Mgt E-LTU** is an optional feature license that is needed if there is a need to route to different SMSCs SMS traffic at the SM-SR level.

**HPE RSPM SM-SR Profile Detection E-LTU** is an optional feature license that is needed if there is a need to poll M2M eUICCs to know which profile is active.

**HPE RSPM SM-DP+ Chargeable Feature E-LTU** is an optional license that is needed if various special developments are done on demand on SM-DP+.

**HPE RSPM SM-DS Support Opt E-LTU** is an optional feature license that is needed to support the interface to SM-Discovery Server component (GSMA or other) at SM-DP+ level.

**HPE RSPM SM-M2M Chargeable Feature E-LTU** is an optional feature license that is needed if various special developments are done on demand on SM-DP or SM-SR.

**HPE RSPM eUICC Profile Lifecycle Opt E-LTU** is an optional license that is needed to add some eUICC profile life cycle management capability on top of the GSMA standards.

**HPE RSPM Non-Commercial E-LTU** is used only on non-production systems for test and development purposes only. The license enables a single Instance of the platform, with no failover.

   - **HPE RSPM Consumers Non-Commercial E-LTU** – enables the use of RSPM for consumer connected device eSIMs in a non-commercial system
   - **HPE RSPM M2M Non-Commercial E-LTU** – enables the use of RSPM for M2M device eSIMs in a non-commercial system
Term licenses based models

Subscription model: prepaid term licenses

**HPE RSPM Consumers 3 months E-LTU** This license gives the right to use the HPE RSPM software during a limited period, and predefined maximum capacity, with a minimal term of 1 year to be extended or renewed.

**HPE RSPM M2M 3 months E-LTU** This license gives the right to use the HPE RSPM software during a limited period, and predefined maximum capacity, with a minimal term of year to be extended or renewed.

Consumption model: postpaid term licenses

**HPE SIM Management 3M Consumption Fee E-LTU** This license gives the right to use the HPE DSP software during a limited period, with a minimal term of 1 year to be extended or renewed. The consumption fee will be calculated on a monthly basis, based on the number of SIM activations/events stored during the month, and invoicing will occur quarterly in arrears based on the usage.

Interfering or disabling any software designed to allow HPE to monitor consumption will be a material breach of this license. After termination of the consumption contract, the customer has no further rights to use the RSPM software.

Minimum number of transactions charged per month is 5k transactions.

The term licenses apply to production related platforms.
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.

D. 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.

E. 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 HPE, pursuant to additional terms and conditions or a separate written agreement for such Use and where applicable license and fees.

F. Licensee agrees that HPE 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"). HPE may make copies of any such books and records. HPE 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. HPE will bear its own costs in connection with an audit. HPE 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 HPE and its auditor with all assistance reasonably required in order to carry out the audit. If an audit reveals underpayments, then Licensee will pay HPE such amounts invoiced by HPE based on the prices for the Software license and Support fees specified in the local published HPE 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 HPE 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 Contactors to agree to, and comply with, the provisions of this section and shall be responsible for their non-compliance.

G. A list of any third party and/or open source related licensing terms may be found on the Software Updates page of the My HPE Software Center at https://myenterpriselicense.hpe.com.