ADDITIONAL LICENSE AUTHORIZATIONS
For HPE DRAGON 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><strong>HPE DRAGON 7.0 Data Retention</strong></td>
<td>Yes</td>
<td>Production and non-production licenses are available **</td>
</tr>
<tr>
<td><strong>HPE DRAGON 7.0 Large Archive</strong></td>
<td>Yes</td>
<td>Production and non-production licenses are available **</td>
</tr>
<tr>
<td><strong>HPE DRAGON Oracle OEM 7.0</strong></td>
<td>Yes</td>
<td>Production licenses are available</td>
</tr>
<tr>
<td><strong>HPE DRAGON MySQL OEM 7.0</strong></td>
<td>Yes</td>
<td>Production licenses are available</td>
</tr>
<tr>
<td><strong>HPE DRAGON DPI 7.0</strong></td>
<td>Yes</td>
<td>Production and non-production licenses are available **</td>
</tr>
<tr>
<td><strong>HPE DRAGON 7.1 Data Retention</strong></td>
<td>Yes</td>
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</tr>
<tr>
<td><strong>HPE DRAGON 7.1 Large Archive</strong></td>
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</tr>
<tr>
<td><strong>HPE DRAGON Oracle OEM 7.1</strong></td>
<td>Yes</td>
<td>Production licenses are available</td>
</tr>
<tr>
<td><strong>HPE DRAGON MySQL OEM 7.1</strong></td>
<td>Yes</td>
<td>Production licenses are available</td>
</tr>
<tr>
<td><strong>HPE DRAGON DPI 7.1</strong></td>
<td>Yes</td>
<td>Production and non-production licenses are available **</td>
</tr>
<tr>
<td><strong>HPE DRAGON Storage</strong></td>
<td>Yes</td>
<td>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>Call Data Record or CDR</td>
<td>Means a data record produced by a telephone exchange or other telecommunications equipment that documents the details of a telephone call or other communications transaction (e.g., text message) that passes through that facility or Device</td>
</tr>
<tr>
<td>CDR/day</td>
<td>means the number of Call Data Record amount per day –</td>
</tr>
<tr>
<td>Core</td>
<td>means a part of a CPU that executes a single stream of compiled instruction code. Single-core processors can only process one instruction at a time. Multiple-core processors (CPUs) imply a processing system composed of two or more independent cores. Processing cores can be physical or virtual depending on whether the processor holding the cores is embedded in a physical machine or a virtual machine.</td>
</tr>
<tr>
<td>Cold Standby System</td>
<td>means a standby Non-Production System which is NOT up and running. If the Production System breaks down, or needs to be taken out of service, licensee is required to switch on and start the Cold Standby System in order to take over for the Production system.</td>
</tr>
<tr>
<td>CPU</td>
<td>means a system in a single integrated circuit package with one or more discrete processing Cores.</td>
</tr>
<tr>
<td>Device or dev</td>
<td>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.</td>
</tr>
<tr>
<td>Development and Test</td>
<td>means a Non-Production System which has the licensed software product installed, and is running the product's processes solely for the purpose</td>
</tr>
</tbody>
</table>
System, or Dev/Test means a) developing Licensee add-on applications; b) migration testing; c) pre-production staging; d) version upgrades/configurations and transition purposes; or e) support-related testing. This system is not authorized for any production or commercial usage.

**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.

**Event**
- means a tuple or a well defined occurrence meaningful for information system; an event typically represents some value, message, pattern or a marker that can be recognized within an ongoing stream of incoming inputs such as network traffic, specific signals, thresholds crossed, counts accumulated, and so on.

**Gbit/s**
- means the amount of Gigabit per second of IP network traffic that is measured for the "equivalent link" connected to the HPE DRAGON DPI Server: Licensing is based on bandwidth for an equivalent link (the max between uplink and downlink throughput). Symbol is Gbit/s or Gb/s, often abbreviated “Gbps”

**Hot Standby System**
- means a Non-Production System that is ready to take over from the Production System if the Production System breaks down or needs to be taken out of service.

**Instance**
- means each implementation of the application installed on a Server.

**Internal Use**
- means access and Use of the software for purposes of supporting your internal operations or functions.

**IPDR**
- means IP session Data Record. HPE DRAGON DPI platform provides one record per IP session, either TCP or UDP

This is one licensing schema option for the DRAGON DPI

**LTU**
- means License To Use.

**Non-Production System**
- means internal-use which is limited to Use on Development or Test System and / or Hot and Cold Standby System

**Production System**
- means a system or a set of systems which have a HPE 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.

**Server**
- means any designated computer system in which an Instance or Instances of the software is installed.

**TB**
- means terabytes which designates the amount of physical capacity that can be managed

**UDR**
- means User Data record. HPE DRAGON DPI platform internally correlates and aggregates IPDRs in real time per subscriber and per period of time (ex 60 mn). These records are called UDR. This is one licensing schema option for the DRAGON DPI

**Unlimited**
- means without restrictions in terms of number of systems, Devices or media, depending on the context.

**Use**
- means to install, store, load, execute and display one copy of the software

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**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.

**HPE Data Retention and Guardian Online**
The following HPE DRAGON products:
- HPE DRAGON 7.0 Data Retention
- HPE DRAGON Oracle OEM 7.0
- HPE DRAGON MySQL OEM 7.0
- HPE DRAGON DPI 7.0
- HPE DRAGON 7.1 Data Retention
- HPE DRAGON Oracle OEM 7.1
- HPE DRAGON MySQL OEM 7.1
- HPE DRAGON DPI 7.1

May be licensed either by the following number of entities:
- Raw Data Size (TB)
- CDR/event per second
- Gbits/s
- CPU Cores deployed within the platform infrastructure following the standard Oracle guidelines

Licenses are purchased in accordance to such entities based on the HPE DRAGON products chosen LTU for the applicable scenarios.

**HPE DRAGON 7.0 and 7.1 Data Retention & Large Archive**
HPE Investigation (Dragon) offers Data Retention, Large Event Archive solutions with a wide range of database technologies for Communication Service providers (CSPs) and other commercial institutes. HPE Data Retention and Large Data Archiving.

HPE DRAGON 7.0 and 7.1 Data Retention & Large Archive editions are licensed according to the two different edition options:
- Dragon Data Retention Edition (sizing criteria CDR/day): it offers DRAGON Manager and Server software module for a single Server deployment connected to its own archive repository deployed on SAN/NAS infrastructure, without including any license for the database, to be provided by the customer or to be licensed with the additional DRAGON Embedded LTUs (for Oracle, MySQL, and Vertica).
- Dragon Large Event Archive Edition (sizing criteria raw input TB): it offers DRAGON Manager and Server software module for a single...
Server deployment connected to its own archive repository deployed on HDFS infrastructure, without including any license for the database, to be provided by the customer or to be licensed with the additional DRAGON Embedded LTUs (for Oracle, MySQL, and Vertica).

The following additional restrictions apply to the Use of HPE DRAGON 7.0 and 7.1 Data Retention & Large Archive editions:

- The purchase of a single HPE DRAGON 7.0 and 7.1 Data Retention & Large Archive editions license entitles the Licensee to install the software on a single physical Server (regardless the number of Instances deployed on it).
- This license does not include any third-party embedded software licenses.
- Licensee may not use the same Production license also for Dev/Test or for Standby nodes for high availability. For each of the additional nodes to be licensed it is required to own HPE DRAGON Additional Environment LTU.
  - Optional but if additional Dragon manager or Dragon Server modules are required. Every physical Server having Dragon software installed needs to be validated with its IP address through the license file.
  - The license file has a single line validating such IP address via the Base license and by the Dragon additional environment.

These DRAGON licenses can be also extended to include optionally the software licenses for HPE elUM that are restricted to DRAGON product only using the specific embedded HPE elUM license.

**HPE DRAGON Embedded Platforms: Oracle & MySQL**

Database management system license can be optionally purchased as embedded in DRAGON products. Database management system license is restricted to HPE’s DRAGON product only. It is licensed by the number of CPU Cores. A specific license is required for Dev/Test which may require an additional license fee. Licensee may use the license for Standby nodes without any additional fee subject to the following limitations:

i. The Standby node will be used less than 10 days and less than ten times in a calendar year;
ii. Database Instances have to be dismounted in the Standby node.

**HPE DRAGON Embedded Platforms: Vertica (§)**

HPE DRAGON products entitles the Use of the Vertica(§) Enterprise Edition in the context of DRAGON solution: Vertica(§) Premium Original Equipment Manufacturer Capacity Terabyte Software E-LTU can be optionally purchased as embedded in DRAGON products.

HPE DRAGON Storage (Vertica(§) Embedded) is licensed per Terabyte according to a tier model and it is licensed limited to the DRAGON Use Case implementation as part of the target Solution.

The following additional restrictions apply to the Use of HPE DRAGON Storage (Vertica(§) Embedded):

i. These licenses are restricted to CMS solutions in the case DRAGON is used as Data Retention and Information Archiving foundation platform.

The Use of HPE Data Analytics Layer Embedded software for different capabilities, products and/or solutions is not permitted under the HPE TASPS DAL licenses

ii. The Non-Production Use rights for the HPE DRAGON Storage (Vertica(§) Embedded) follows the same rules of the HPE DRAGON Storage (Vertica(§) Embedded).


In the event of growth of the solution, additional capacity needs to be purchased. No minimum configuration is required for upsell. 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 HPE). The Non-Production Use rights for the HPE DRAGON Storage are derived by the Non-Production Use rights of Vertica(§) Enterprise.

**HPE DRAGON Embedded Platforms: Vedicis Smart Traffic Collector**

HPE DRAGON Deep Packet Inspection Edition is the product to implement solution for traffic monitoring and for data captures from traffic flows. The product is based on a software IP probes technology for real-time data collection addressing the Deep Packet Inspection (DPI) market. This IP probes technology is sourced by our DRAGON OEM partner Vedicis with its own product named Smart Traffic Collector (STC).

The licensing criteria is based on total Gbits/s throughput per equivalent link and per IPDR/UDR option.

DRAGON Deep Packet Inspection is licensed by ordering the total Gbits/s throughput per equivalent link required by the customer to build its own solution. The customer must also purchase the required additional Dragon LTUs and/or the TA solution family LTUs based on its specific installation and configuration requirements.

In case of high availability set-up, the monitoring throughput should be incremented by 20% (i.e. a production environment sized up to 100Gbits/s throughput, in case of HA the bandwidth to be considered for the software quote is 120Gbits/s).

DRAGON Deep Packet Inspection licensing criteria are first based on the following definitions:

- **Bandwidth definition:**
  - This is the throughput of the pipe defined at peak time. A traffic of 5 Gbits/s is the maximum of bandwidth observed in a link, on the downlink or the uplink.
  - Licensing is based on bandwidth for an equivalent link, and not on the sum of uplink+downlink throughput.
Example: A MNO traffic corresponds to 10 Gbits/s on the downlink and 5 Gbits/s on the uplink. For licensing the sizing is 10 Gbits/s.

- NB: counts of 5 Gbits/s modules:
  - Minimum of 5 Gbits/s modules for deployment
  - At least 1 module of 5 Gbits/s has to be deployed per HW Server or Virtual Machine
  - Example: for 3 platforms managing 10 Gbits/s in total, a minimum of 3 modules of 5 Gbits/s is necessary.
- Maximum of 5 Gbits/s modules:
  - A maximum of 8 modules of 5 Gbits/s is authorized per HW Server.

- Packages
  - IPDR package
  - UDR package

All HPE DRAGON Deep Packet Inspection licenses gives the right-to-use for Gbits/s throughput. Use multiple qty to reach the total throughput. In accordance to the specific LTU tier match by the requested quantity.

<table>
<thead>
<tr>
<th>DRAGON Deep Packet Inspection Tier summary</th>
<th>Up to</th>
<th>Extension LTU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier #1</td>
<td>From 0 to 25 Gbits/s (Downlink*) Max 50 Gbits/s UP+DOWN</td>
<td>5 Gbits/s</td>
</tr>
<tr>
<td>Tier #2</td>
<td>From 25.1 to 50 Gbits/s (Downlink*) Max 100 Gbits/s UP+DOWN</td>
<td>5 Gbits/s</td>
</tr>
<tr>
<td>Tier #3</td>
<td>From 50.1 to 75 Gbits/s (Downlink*) Max 150 Gbits/s UP+DOWN</td>
<td>5 Gbits/s</td>
</tr>
<tr>
<td>Tier #4</td>
<td>From 75.1 to 100 Gbits/s (Downlink*) Max 200 Gbits/s UP+DOWN</td>
<td>5 Gbits/s</td>
</tr>
<tr>
<td>Tier #5</td>
<td>Price per 5 Gbits/s modules Above 2100 Gbits/s (Downlink*)</td>
<td>5 Gbits/s</td>
</tr>
</tbody>
</table>

**HPE DRAGON Consumption based license model for production system**

HPE DRAGON capacity can be purchased in a consumption-based model. With this model, the customer will be invoiced quarterly based on the following term definitions:

- Term license is set to 3 months
- Thus, term contract must be set to a minimal of 3 months, and can be renewed whenever needed

HPE DRAGON Consumption based license model for production system is still based on usage: all licensed features as per the above definitions can be used. The charging is based on CDR per day or per TB size measured* consumption of the different LTUs over each quarter. Following the unit of measure details:

- Number of CDR processed per day.
- Another standard DRAGON unit of measure is given by the amount of TB managed by the DRAGON software itself.
- A derived unit of measure that can be offered along an HPE Greenlake Big Data set-up is based on the number of worker nodes activated part of the DRAGON archive deployed on the Hadoop Data Lake. Interfering with or disabling any software designed to allow HPE to monitor consumption will be a material breach of this license.

In this scenario, it will be also leveraged the DRAGON Tiered pricing approach, offering a more convenient price per measured unit. After termination of the consumption contract, the customer has no further rights to use the DRAGON software. A minimum quantity of measured* consumption will be charged at each invoice. This minimum quantity is set based on the amount licensed by the BASE LTU as summarized below:

- 250 MCDR/day for the Data Retention option
- 25TB for the Large Event Archive option

**ADDITIONAL LICENSE TERMS**

Term

A. Software may contain open source and/or third-party software and associated specifications 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. 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

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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