Hewlett Packard Enterprise

Additional License Authorizations

For HPE HAVEn and Vertica Analytics Platform software products

Products and suites covered

PRODUCTS	E-LTU OR E-MEDIA AVAILABLE *	NON-PRODUCTION USE CATEGORY **
HP HAVEn Applications Framework Visualizer	Yes	Class 3
HP Vertica Community Edition	No	N/A
HP Vertica Enterprise Edition	Yes	Class 4
HP Vertica Enterprise Edition Add-On for Hadoop Distributed File System	Yes	Class 3
HP Vertica Express Edition	Yes	Class 4
HP Vertica Premium Edition	Yes	Class 4
HP Vertica Flex Zone	Yes	Class 4
HP Vertica for SQL on Hadoop	Yes	Class 3

* 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.hpe.com/go/SWlicensing**.

Definitions

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

TERM	DEFINITION
Core	means a part of a CPU that executes a single stream of compiled instruction code.
CPU	means a system in a single integrated circuit package with one or more discrete processing Cores.
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.
GB	means gigabytes which designates the amount of physical capacity that can be managed.
HDFS	means Hadoop distributed file system.
IDOL Raw Data Size	means the uncompressed size of all documents, including text and meta data, that are stored in a node table excluding any deleted documents that have not been purged.
Instance	means each implementation of the application installed on a Server.

LTU	means License To Use.
MP	means monthly payment for the term LTU and Term Support. When MP is indicated in the product description customer is required to submit a purchase order inclusive of both for the term of the license.
Named User or *Nmd User*	means a specific individual authorized by you to access the software regardless of whether they are actively using the software.
Node	means a type of Node as further defined in the Software specific terms below.
On Disk Size	means the compressed size of data in an HP Vertica Flex Zone database measured by how much space it occupies on a hard disk drive ("On Disk Size"). HP includes all logical HP Vertica Flex Zone database entities (stored in Flex tables) in the On Disk Size measurement. HP excludes the following from the On Disk Size measurement: - data stored in real (materialized) columns - multiple projections (underlying physical copies) of data from a logical database entity (table); i.e. data appearing in multiple projections of the same table is only counted once - data stored in temporary tables - data stored in the Write Optimized Store (WOS) - data stored in system tables such as monitoring tables, data collector tables, query repository tables, Database Designer work tables, etc. - views
ORC or *Optimized Row Columnar Format*	means open source format used in Hadoop.
Raw Data Size or *Vertica Raw Data Size*	means the uncompressed data stored in an HP Vertica database as if such uncompressed data had been exported from the database in text format ("Raw Data Size"). HP includes all logical database entities (tables) and all derived and aggregate tables in the Raw Data Size measurement. Data stored in Flex Tables will be counted as one tenth the capacity stored in a regular table (e.g. 1TB loaded into Flex Tables will count as 100GBs towards the license capacity). HP excludes the following from the Raw Data Size measurement: - multiple projections (underlying physical copies) of data from a logical database entity (table); i.e. data appearing in multiple projections of the same table is only counted once - data stored in temporary tables - deleted data that remains in the database - data stored in the Write Optimized Store (WOS) - data stored in system tables such as monitoring tables, data collector tables, query repository tables, Database Designer work tables, etc. - views - copies or adaptations for back-up or archival purposes or when copying or adaptation is an essential step in the authorized use of the HP Vertica software
Server or *SVR*	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.
Term License to Use or *Term LTU*	means a software license to use (LTU) which indicates in its license description that the license is valid for a specific period of time such as One Month(1M) , One Year(1Y) etc. Term LTU's are not perpetual licenses.
Term Support	means a fixed period support offering that is only valid during the time period of the associated Term LTU.
Unlimited or *Unl*	means without restrictions in terms of number of systems, devices or media, depending on the context.
User	means a user whose use is restricted to the type of software that is being licensed.

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 HAVEn Applications Framework Visualizer

HP HAVEn Applications Framework Visualizer ("Visualizer") is licensed per TB (measured in Raw Data Size) for HP Vertica software and per 250 GB (measured in Idol Data Size for HP IDOL software indexed on the HP Vertica software and HP IDOL software Instances accessed by the application(s) running the Visualizer. The following additional restrictions apply to the use of Visualizer:

- 1 unit of Visualizer license is authorized as follows:

    a)   5 Named Users

b)   Scan/discover/analyze 1 TB of Vertica Raw Data Size and 250Gigabytes of IDOL Raw Data Size.

- The Visualizer license does not include a license for HP Vertica Express Edition, HP Vertica Premium Edition and/or HP IDOL Premium Edition. You are required to purchase a separate license for at least one of these products in order to use Visualizer.

- The table below indicates the limitation on the number of CPU Cores which can run Visualizer:

NUMBER OF VISUALIZER LICENSES MEASURED IN UNITS	MAXIMUM NUMBER OF CORES
2 – 20 *	4
21 – 50	8
51 – 100	12
101 – 200	16

* Initial purchase of Visualizer requires a minimum of two licenses.

- The use of the Studio functionality which is part of Visualizer (SDK SOFTWARE) is limited to developing applications that are hosted on Visualizer. HPE BEARS NO RESPONSIBILITY FOR THE CONSEQUENCES OF USE BY LICENSEE OF THE SDK SOFTWARE AS MODIFIED BY LICENSEE, ANY SOFTWARE CREATED BY LICENSEE AND SDK LIBRARIES, MAKES NO REPRESENTATIONS AND DISCLAIMS ALL WARRANTIES WITH RESPECT TO THE SDK SOFTWARE AS MODIFIED BY LICENSEE, ANY SOFTWARE CREATED BY LICENSEE AND SDK LIBRARIES, AND DOES NOT GUARANTEE THE PERFORMANCE OF THE SDK SOFTWARE AS MODIFIED BY LICENSEE, ANY SOFTWARE CREATED BY LICENSEE OR SDK LIBRARIES, INCLUDING WITHOUT LIMITATION THAT ANY SDK LIBRARIES WRITTEN AGAINST ONE VERSION OF THE SDK SOFTWARE WILL BE BINARY COMPATABLE WITH FUTURE VERSIONS OF THE SDK SOFTWARE.

HP Vertica Community Edition

HP Vertica Community Edition license terms are the same as the HP Vertica Enterprise Edition license terms listed below with the following exceptions: a) Raw Data Size is limited to one (1) TB, b) to be used on no more than three (3) Servers or other resources that act as a single system whether physical or virtual and c) cannot be connected to multiple editions of HP Vertica Community Edition. HP Vertica Community Edition license includes the HP Vertica Pulse and HP Vertica Place features which are valid for use for thirty (30) days from the time of download of such features. HP Vertica Community Edition must be installed on a separate Node from Hadoop when performing queries of the Hadoop native formatted data. A Node means a Server that act as a single computer system whether physical or virtual.

HP Vertica Enterprise Edition

HP Vertica Enterprise Edition is licensed per TB measured in Raw Data Size, on an Unlimited number of central processing units or CPUs and for an Unlimited number of Users. HP Vertica Enterprise Edition must be installed on a separate Node from Hadoop when performing queries of the Hadoop native formatted data. A Node means a Server that act as a single computer system whether physical or virtual.

ORC Reader and ability to read Hadoop ORC File formats directly from HDFS is not included with HP Vertica Enterprise Edition.

The HP Vertica Enterprise Edition includes a limited, revocable (as provided herein), nonexclusive right to use the source code of the HP Vertica SDK Software ("SDK Software), without right to transfer or sublicense, for the sole purpose of creating libraries and functions for use with the HP Vertica Enterprise Edition solely for Licensee's internal use ("SDK Libraries"). Licensee shall own all SDK Libraries provided, however, that the SDK Libraries are to be used by Licensee for Licensee's internal purposes in connection with the use and operation of the HP Vertica Enterprise Edition, and Licensee is expressly prohibited from transferring, assigning, distributing, licensing or selling the SDK Libraries to any third party . If Licensee uses third party or open source software to develop SDK Libraries using the SDK Software, Licensee is solely responsible for complying with any such third party or open source license requirements.

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HP Vertica Enterprise Edition Add-On for Hadoop Distributed File System

HP Vertica Enterprise Edition Add-On for Hadoop Distributed File System is licensed per TB measured in Raw Data Size on an Unlimited number of central processing units or CPUs and for an Unlimited number of Users.

HP Vertica Express Edition

HP Vertica Express Edition terms are the same as the HP Vertica Premium Edition license terms listed above with the following exceptions:

1. Elastic Cluster

2. Geospatial Analysis Function (HP Vertica Place UDx)

3. Sentiment Analysis Function (HP Vertica Pulse UDx)

4. R Analysis Function (R UDx)

5. User Function Creation (UDx)

6. Workload Analyzer

7. KV Interface

8. Fault Groups

9. Live Aggregate Projections

HP Vertica Flex Zone

HP Vertica Flex Zone is licensed TB measured by On Disk Size, on an Unlimited number of CPUs and for an Unlimited number of Users. HP Vertica Flex Zone also includes a 1 TB license for HP Vertica Enterprise Edition.

HP Vertica for SQL on Hadoop

HP Vertica for SQL on Hadoop is licensed per Node, on an Unlimited number of central processing units or CPUs and an Unlimited number of Users. A Node means a Server that act as a single computer system whether physical or virtual.

The following features and functionality are not included with licenses of HP Vertica for SQL on Hadoop:

1. HP Innovations (HP Vertica Place, HP Vertica Pulse, and HP Vertica Distributed R)

2. Spatial Analysis Function (HP Vertica Place UDx)

3. Sentiment Analysis Function (HP Vertica Pulse UDx)

4. User Defined Extensions (R UDxs, C++ UDxs). UDx libraries shipped with Vertica and Java UDxs are included with HP Vertica for SQL on Hadoop license

5. Advanced analytics functions (Live Aggregate Projections and Text Search)

6. Dynamic Workload Management (Secondary Resource Pools – Cascade To Parameter)

7. Vertica Linux (EXT4) File System for storing business data.

8. Backup and Restore utility (vbr.py)

HP Vertica Premium Edition

HP Vertica Premium Edition is licensed per TB measured in Raw Data Size, on an unlimited number of central processing units or CPUs and for an unlimited number of Users. HP Vertica Premium Edition must be installed on a separate Node from Hadoop when performing queries of the Hadoop native formatted data. A Node means a Server that act as a single computer system whether physical or virtual.

ORC Reader and ability to read Hadoop ORC File formats directly from HDFS is not included with HP Vertica Premium Edition.

The HP Vertica Premium Edition includes a limited, revocable (as provided herein), nonexclusive right to use the source code of the HP Vertica SDK Software ("SDK Software), without right to transfer or sublicense, for the sole purpose of creating libraries and functions for use with the HP Vertica Premium Edition solely for Licensee's internal use ("SDK Libraries"). Licensee shall own all SDK Libraries provided, however, that the SDK Libraries are to be used by Licensee for Licensee's internal purposes in connection with the use and operation of the HP Vertica Premium Edition, and Licensee is expressly prohibited from transferring, assigning, distributing, licensing or selling the SDK Libraries to any third party. If Licensee uses third party or open source software to develop SDK Libraries using the SDK Software, Licensee is solely responsible for complying with any such third party or open source license requirements.

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