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 [**]
HPE Vertica Community Edition (previously called HP Vertica Community Edition)	No	N/A
HPE Vertica Express Edition (previously called HP Vertica Express Edition)	Yes	Class 4
HPE Vertica Premium Edition (previously called HP Vertica Premium Edition)	Yes	Class 4
HPE Vertica for SQL on Hadoop (previously called 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 **software.microfocus.com/about/software-licensing**.

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.

TERM	DEFINITION
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 HPE Vertica Flex Zone database measured by how much space it occupies on a hard disk drive ("On Disk Size"). HPE includes all logical HPE Vertica Flex Zone database entities (stored in Flex tables) in the On Disk Size measurement. HPE 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 File	means Optimized Row Columnar (ORC) file format.
Parquet File	means Columnar data format.
Raw Data Size or *Vertica Raw Data Size*	means the uncompressed data stored in an HPE Vertica database as if such uncompressed data had been exported from the database in text format ("Raw Data Size"). All logical database entities (tables) and all derived and aggregate tables are included in the Raw Data Size measurement. All data stored in external tables in the ORC or Parquet format is included in the Raw Data Size.. 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). The following is excluded 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 • data stored in flattened tables used for de-normalization purposes • 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 HPE Vertica software
Read Optimized Store Format or *ROS Format*	means the internal columnar format in which the Vertica system stores data for query purposes.
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.

HPE Vertica Community Edition (previously called HP Vertica Community Edition)

HPE Vertica Community Edition license terms are the same as the HPE 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 HPE Vertica Community Edition. HPE Vertica Community Edition license includes the HPE Vertica Pulse and HPE Vertica Place features which are valid for use for thirty (30) days from the time of download of such features. HPE 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.

HPE Vertica Express Edition (previously called HP Vertica Express Edition)

HPE Vertica Express Edition terms are the same as the HPE Vertica Premium Edition license terms listed below.

The following features and functionality are not included with licenses of HPE Vertica Express Edition:

1. Advanced SQL Functions

    A. Analytical Functions

    B. Patterns Matching Functions

    C. Time Series Functions

2. ROLAP SQL Functions

    A. ROLLUP Aggregate

    B. GROUPING SETS Aggregate

    C. CUBE Aggregate

    D. Pivot

3. Geospatial Analysis Function via Vertica pre-built UDX (HPE Vertica Place UDx)

4. Sentiment Analysis Function via Vertica pre-built UDX (HPE Vertica Pulse UDx)

5. R Integration via Vertica pre-built UDX

6. Python Integration via Vertica pre-built UDX

7. Workload Analyzer

8. KV Interface

9. Fault Groups

10. Live Aggregate Projections

11. Text Search

12. FIPS 140-2 Support

13. Flattened Tables

14. Parquet Export

15. Predictive Analytics Functions

    A. Normalization, outlier detection, sampling, imbalanced data processing and missing value imputation functions

    B. Linear regression, logistic regression, k-means, naïve bayes, random forests, singular value decomposition, support vector machines, generalized boost models, neural networks, page rank, k nearest neighbors

    C. Confusion matrix, receiver operator characteristic (ROC), error rate, lift table, mean squared error, r squared, wald statistics

16. Advanced SQL Functions

    A. Analytical Functions

    B. Patterns Matching Functions

    C. Time Series Functions

17. ROLAP SQL Functions

    A. ROLLUP Aggregate

    B. GROUPING SETS Aggregate

    C. CUBE Aggregate

    D. Pivot

18. Geospatial Analysis Function via Vertica pre-built UDX (HPE Vertica Place UDx)

19. Sentiment Analysis Function via Vertica pre-built UDX (HPE Vertica Pulse UDx)

20. R Integration via Vertica pre-built UDX

21. Python Integration via Vertica pre-built UDX

22. Workload Analyzer

23. KV Interface

24. Fault Groups

25. Live Aggregate Projections

26. Text Search

27. FIPS 140-2 Support

28. Flattened Tables

29. Parquet Export

30. Predictive Analytics Functions

    A. Normalization, outlier detection, sampling, imbalanced data processing and missing value imputation functions

    B. Linear regression, logistic regression, k-means, naïve bayes, random forests, singular value decomposition, support vector machines, generalized boost models, neural networks, page rank, k nearest neighbors

    C. Confusion matrix, receiver operator characteristic (ROC), error rate, lift table, mean squared error, r squared, wald statistics

HPE Vertica for SQL on Hadoop (previously called HP Vertica for SQL on Hadoop)

HPE 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. HPE Vertica for SQL on Hadoop is for deployment on Hadoop nodes. Includes 1 TB of Vertica ROS formatted data on HDFS.

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

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

2. Spatial Analysis Function (HPE Vertica Place UDx)

3. Sentiment Analysis Function (HPE Vertica Pulse UDx)

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

5. Advanced SQL Functions

   A. Analytical Functions

   B. Pattern Matching Functions

   C. Time series Functions

6. ROLAP SQL Functions

   A. ROLLUP Aggregate

   B. GROUPING SETS Aggregate

   C. CUBE Aggregate

   D. Pivot

7. Text Search

8. Live Aggregate Projections

9. Flattened Tables

10. FIPS 140-2 Support

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

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

13. Backup and Restore utility (vbr.py)

14. Predictive Analytics Functions

   A. Normalization, outlier detection, sampling, imbalanced data processing and missing value imputation functions

   B. Linear regression, logistic regression, k-means, naïve bayes, random forests, singular value decomposition, support vector machines, generalized boost models, neural networks, page rank, k nearest neighbors

   C. Confusion matrix, receiver operator characteristic (ROC), error rate, lift table, mean squared error, r squared, wald statistics

HPE Vertica Premium Edition (previously called HP Vertica Premium Edition)

HPE 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. HPE 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.

The use of HDFS as a storage location is permitted and counts against the licensed capacity.

The HPE Vertica Premium Edition includes a limited, revocable (as provided herein), nonexclusive right to use the source code of the HPE Vertica SDK Software ("SDK Software), without right to transfer or sublicense, for the sole purpose of creating libraries and functions for use with the HPE 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 HPE 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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