Additional License Authorizations

For Vertica software products

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Products covered

Products	E-LTU or E-Media available[*]	Perpetual License Non-production use category[**]	Subscription or Term License Non-production use category (if available)
Vertica Community Edition	No	N/A	N/A
Vertica Express Edition	Yes	Class 4	Class 4
Vertica External Data Add-On	Yes	Class 4	Class 4
Vertica for SQL on Data Lakes	Yes	Class 4	Class 4
Vertica Premium Edition	Yes	Class 4	Class 4
Vertica + Voltage Add-On	Yes	Class 4	Class 4

[*] 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/legal/software-licensing**.

Definitions

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

Term	Definition
Client Software	Means Voltage SecureData Client Simple API software running on Windows and Linux (SUSE and RedHat).
Cluster	Means a group of cooperating Vertica Nodes.
Core	Means a physical part of a computer central processing unit that executes a single stream of instruction code.
Data Set	Means the uncompressed data stored in a Vertica database as if such uncompressed data had been exported from the database in text format. All logical database entities (tables) and all derived and aggregate tables are included. All data stored in external tables in the ORC or Parquet format is included. Data stored in Flex Tables (as defined in documentation on **software.microfocus.com/legal/software-licensing**) is included. The following is excluded from the Data Set: ■ 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) as defined in **documentation**

	- 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, provided all such copies or adaptations are stored in a separate Cluster and is not accessible for active querying.
Developed Code	Means the software and scripts developed and/or deployed by Licensee using Voltage SecureData products.
DR Replication	Means a fault-tolerance practice designed to provide an alternate Data Set in the event that a first Data Set becomes corrupt or inaccessible. It is based on the principle of storing a complete replica of the first Data Set on alternate servers thereby establishing an alternate Data Set, and then keeping the alternate Data Set on those alternate servers up-to-date as changes are made to the first Data Set.
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.
Embedded Analytics Application	Means a commercial application that is hosted by the license owner (private data center or public cloud) and includes a custom User Interface. No direct read/write access to the Vertica software is allowed for Embedded Analytics Applications.
External Data Size	Means the size of the data accessed at the source (e.g. HDFS) with the URL path defined by a Vertica external table in Parquet or ORC format.
GB	Means gigabytes which designates the amount of physical capacity that can be managed.
Geo-Replication	Means a network performance-enhancing practice designed to provide improved access to a Data Set for remote uses. It is based on the principle of storing a complete replica of the Data Set on remote servers, and then keeping the Data Set on those servers up-to-date so that remote uses are more performant.
HDFS	Means Hadoop distributed file system.
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 unit of computer hardware comprised of Cores, memory, and storage, executing streams instruction code, and typically a member of a Cluster.
ORC File	Means Optimized Row Columnar file format.
Parquet File	Means Columnar data format.
Raw Data Size *or* Vertica Raw Data Size	Means the size of the Data Set. Data stored in Flex Tables (as defined in documentation on **software.microfocus.com/legal/software-licensing**) 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).
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.
SaaS Fee	See definition for Subscription.

Subscription	Means a Term License that is priced with both Term LTU Fees and Term Support Fees bundled together as a single line item. This license may be used for internal use cases, external access and commercial applications as Embedded Analytics applications.
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 fixed period of time such as One Month (1M), One Year (1Y) etc. Term LTUs are not perpetual licenses, therefore upon expiration of the Term License, no software license asset survives as a standalone element.
Term Support	Means a fixed period support offering that is only valid during the time period of the associated Term LTU. Term Support is not renewable upon expiration of the Term License as a standalone element.
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.

Vertica Community Edition

Vertica Community Edition may be used for evaluation purposes only and the license for Vertica Community Edition is an "Evaluation License" as such term is defined in the then current Micro Focus End User License Agreement (the "EULA") found at **https://software.microfocus.com/en-us/legal/software-licensing**. The Evaluation License for Vertica Community Edition is governed by the terms of the EULA.

Vertica Express Edition

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

The following features and functionality (as defined in the **documentation**) are not included with licenses of Vertica Express Edition:

1. Advanced SQL Functions
   a. Patterns Matching Functions
   b. Time Series Functions
2. ROLAP SQL Functions
   a. ROLLUP Aggregate
   b. GROUPING SETS Aggregate
   c. CUBE Aggregate
   d. Pivot
3. R Integration via Vertica pre-built UDX
4. Python Integration via Vertica pre-built UDX
5. Workload Analyzer
6. KV Interface
7. Fault Groups
8. Live Aggregate Projections
9. Text Search
10. FIPS 140-2 Support
11. Flattened Tables
12. Parquet Export
13. 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 statisti

Vertica External Data Add-On

Vertica External Data Add-On for data not stored in the Vertica database, is licensed per TB measured in External Data Size on an unlimited number of Nodes and for an unlimited number of Users. The external data formats permitted are ORC & Parquet. External data in non-optimized formats, such as CSV, are not counted towards the per TB license. The Vertica External Data Add-On is only available for Vertica version 8.1.1 or higher.

Vertica for SQL on Data Lakes (Formerly known as Vertica for SQL on Hadoop)

Vertica for SQL on Data Lakes is licensed per Node for an unlimited number of Users. Vertica for SQL on Data Lakes is for querying Parquet & ORC data on Hadoop Distributed File System (HDFS) OR Supported S3 object storage system. Includes 1 TB of Vertica ROS formatted data   loaded into the Vertica data platform.

Vertica Premium Edition

Vertica Premium Edition is licensed using one of two metrics: 1) per TB measured in Raw Data Size, on an unlimited number of Nodes and for an unlimited number of Users; or 2) per Node measured in Cores, with an unlimited Raw Data Size and for an unlimited number of Users.

If licensed per TB: Licensee is permitted to use a first Data Set for a first Vertica Cluster. Licensee is permitted to use up to two (2) additional identical Data Sets (copies) for no more than three (3) Vertica Clusters for the limited purposes of Geo-Replication and/or DR Replication. Vertica Premium Edition must be installed on a separate Node from Hadoop when performing queries of Parquet and ORC columnar formatted data. The use of HDFS as a storage location is permitted and counts against the licensed capacity.

If licensed per Node: Vertica Premium Edition must be installed on a separate Node from Hadoop when performing queries of the Hadoop native formatted data.

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

Vertica + Voltage Add-On

Vertica + Voltage Add-On, is licensed per Node or per TB (measured in Raw Data Size) for data stored in Vertica with a Vertica Premium or Vertica Express license. If licensed by TB, the Add-On is unlimited to Nodes where the Vertica software is running, and where Voltage SecureData APIs are deployed, and/or where data protected by Voltage SecureData is stored, processed, or used. If licensed by Node, then the Add-On is unlimited on TB's where the Vertica software is running, and where Voltage SecureData APIs are deployed, and/or where data protected by Voltage SecureData is stored, processed, or used.

If licensed by TB, the TB quantity of Vertica + Voltage Add-On sold may not be lower than the total TB quantity of the Vertica database(s) where the Add-On will be used. If licensed by Node, the Node quantity of Vertica + Voltage Add-On sold may not be lower than the total number of Nodes used by the Vertica databases where the Add-On will be used.

The Vertica + Voltage Add-On is only available for Vertica version 9.1 or higher.

This offering includes:

▪ 2 Voltage SecureData Production Key Server

▪ 2 Voltage SecureData Production Web Services Server

▪ Unlimited Voltage SecureData Enterprise Client Simple API for Windows, SUSE Linux and RedHat Linux operating systems and is limited for storing data to and accessing data from Vertica.

▪ Unlimited Voltage SecureData File Processor for Windows, SUSE Linux and RedHat Linux operating systems and is limited for storing data to and accessing data from Vertica.

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