



VANTAGE DATABASE MANAGEMENT GUIDE

Vantage Version 8.3

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Electromagnetic Emissions: FCC Part 15 Subpart B, ICES-003, EN 55032, EN/BS 55024, EN/BS EN 55035, EN 61000-3-2, BS EN 61000-3-2, EN 61000-3-3, BS EN 61000-3-3, VCCI-CISPR 32, AS/NZS CISPR 32

Electromagnetic Immunity: EN 55035

Safety: IEC 62368-1, EN 62368-1, CSA C22.2 No. 62368-1-14, UL 62368-1

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Lithium coin cells. Perchlorate Material-special handling may apply. See

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Contact Telestream Customer Service for additional Regulatory Compliance certificates.

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Vantage Information, Assistance, FAQs, Forums, & Upgrades	Web Site: telestream.net/telestream-support/vantage/support.htm
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Planning and Managing a Vantage Database

This guide lists Vantage database requirements and explains how to plan, install, and maintain the database for a [Vantage domain](#).

Installing a database in preparation for Vantage is easiest when you plan carefully, and you have a working knowledge of Windows server administration, Microsoft SQL Server, and installation and configuration of enterprise-level software. Consult your IT group for assistance as necessary.

Note: Go to telestream.net/telestream-support/vantage/support.htm to browse the Vantage web library, user guides, patches, application notes, and other documents.

Topics

- [Operating System Requirements](#)
- [Database Server Requirements for SQL Standard](#)
- [Database Selection and Configuration](#)
- [Installing MS SQL Server](#)
- [Installing the Vantage Database](#)
- [Backing Up and Restoring the Vantage Database](#)
- [Shrinking a Full Database](#)
- [Moving the Vantage Domain Database to Another Database](#)

Operating System Requirements

The Vantage domain database and the MS SQL Server for Vantage should be installed and operated only on Windows Server 2019 | 2022 | 2025 Standard or Data Center Edition.

Note: Operating system support presented here is current at the time of publication. However, updates to supported operating systems may occur. Verify that the server on which you plan to install Vantage meets the platform requirements, as specified at telestream.net/vantage/tech-specs.htm.

Database Server Requirements for SQL Standard

The following recommendations are for customers running SQL Standard. To determine which version of SQL to use, please refer to the [Guidelines for Selecting SQL Express or SQL Standard](#).

Telestream recommends using “per core” SQL Standard licensing when using Vantage. In this licensing scenario, all physical cores on the server (or virtual machine) must be licensed. Please contact your IT department or Microsoft for more information about SQL Standard licensing options. For Microsoft’s discussion of licensing by cores, refer to this URL: microsoft.com/licensing/guidance/Core-based-licensing-models.

Telestream recommends the following hardware for dedicated database servers:

Component	Specification
CPU	64-bit, 4 physical cores, 8 MB cache, 3.0 GHz or greater. For example, Intel E3-1230 v2.
RAM	32 GB DDR minimum, 64 GB or more recommended for high job volumes; 1600 MHz recommended
OS/Software HDD	RAID-1, 2 drive volume, minimum 7200 RPM, SSD preferred
Database HDD	RAID-5, 3 drive volume, minimum 250 GB per drive, 7200 RPM
Network	Dual 1 GbE or greater NICs

Please see the following page and table for additional guidelines.

When choosing your database server, the primary consideration is how many clients will access job status views simultaneously. Real-time job status views are the largest consumer of database CPU resources.

Use the information in this table to guide you in selecting a server and configuring the system.

Job Status View Clients	Database Server	Notes
1 or 2 clients	4-core server	IIS and the Workflow Designer may run on the database server.
3-8 clients	4-core server	IIS and Workflow Designer must run on a separate server.
More than 8 clients	8-core server (or more)	Contact Telestream for guidance if you plan to deploy more than 20 clients.

Note: These recommendations ensure sufficient CPU headroom for activities such as Workflow Portal operation, running large Vantage arrays, deleting jobs, etc.

For additional guidelines on database installation in a [Vantage domain](#), see [Database Selection and Configuration](#).

Database Selection and Configuration

If no other Microsoft SQL database version is already installed, Vantage automatically installs Microsoft SQL 2022 Express. If a Microsoft SQL database is already installed, Vantage detects it and does not install the default Express version.

Vantage is supported on the following Microsoft database products:

- Microsoft SQL Server 2019 Express | Standard | Enterprise
- Microsoft SQL Server 2022 Express | Standard | Enterprise.

SQL Server should be installed and operated only on these operating systems:

- Windows Server 2019 Standard | Data Center Edition
- Windows Server 2022 Standard | Data Center Edition
- Windows Server 2025 Standard | Data Center Edition.

These topics provide guidelines for choosing and implementing your database:

- [Guidelines for Selecting SQL Express or SQL Standard](#)
- [Guidelines for an Array Installation with SQL Standard](#)
- [Other Database Configurations](#)
- [Improving Uptime with Mirroring or Availability Groups](#)
- [Installing the Vantage Database](#)

Note: SQL database tools must not be used to move a Vantage domain database of one version to a later version of Vantage. To upgrade Vantage, only use Vantage installers or the Vantage Database Deployment Utility.

Note: Depending on the security requirements of your organization's IT department, the default credentials (sa/vantage12!) used by the SQL and Vantage database installers may be insufficient. In such cases, Telestream recommends using the SQL installer, which allows you to specify a custom user/password, then installing the Vantage domain database with the Database Deployment Utility and providing your custom user/password as specified.

Guidelines for Selecting SQL Express or SQL Standard

The decision about whether to use SQL Express or Standard depends on your planned maximum database size and the expected average volume of database traffic. These topics provide information to help you choose which database to use:

- [Comparing SQL Express and SQL Standard](#)
- [Vantage Guidelines for SQL 2022 Express](#)

Comparing SQL Express and SQL Standard

SQL Express and SQL Standard database limitations are compared in this table:

SQL 2019 2022 Express	SQL 2019 2022 Standard
Max. Sockets / Cores: 1:4	Max. Sockets / Cores: 4:24 4:24 4:32
Max. DB RAM: 1.4 GB	Max. DB RAM: 128 128 256 GB
2019 2022 Database Size: 10 GB	Max. Database Size: 524 PB

Microsoft offers additional information about SQL Server capabilities and limitations on its web site.

Vantage ships with SQL 2022 Express, which is suitable for single-node installations or arrays up to four nodes. For very large installations, SQL Standard may be required.

Vantage Guidelines for SQL 2022 Express

Vantage ships with SQL 2022 Express, which is suitable for single-node installations or arrays up to four nodes. For very large installations, SQL Standard may be required.

These guidelines indicate the **maximums** for using Vantage with SQL 2022 Express:

- **Transcoding:** SQL 2022 Express supports up to 15,000 Vantage jobs in the database at a time. This assumes that each job contains 10 actions. More actions in a job require more storage, allowing fewer jobs.
- **TrafficManager:** SQL 2022 Express supports up to 1,500 TrafficManager commercials in inventory at a time.
- **Vantage Array:** Up to four Vantage servers can simultaneously connect to SQL 2022 Express as part of an array. This includes any redundant or backup machines.

Database Shutoff Feature for SQL Express

If a Vantage single-node or array installation using SQL Express nears the SQL Express database size limit, Vantage stops accepting jobs. Attempts to submit jobs manually launches a warning dialog indicating that the database is at or near capacity. To release space in the database, see the procedure in the Managing a Vantage Domain chapter: *Shrinking a Full Database* in the Vantage Domain Management Guide.

Guidelines for an Array Installation with SQL Standard

For high traffic installations, Vantage performance improves when you use SQL Standard and separate the database from Vantage services. These guidelines provide increasing levels of performance improvement:

- Always place SQL Standard and the database on a dedicated server, separate from Vantage services, the [Vantage store](#), and the input and output files. This approach provides the largest increase in performance.
- Place the Vantage database files on a dedicated physical drive or RAID array, separate from the operating system.

Note: Installing a Vantage domain database on a separate server does not require an extra Vantage license for that server.

When installing a Vantage array with SQL Standard, ensure that the server hardware meets the requirements described in [Operating System Requirements](#). To improve database availability, see [Improving Uptime with Mirroring or Availability Groups](#).

Recommendations for Large Arrays

For arrays containing 10 or more nodes, consider these additional recommendations: .

Feature	Recommendation
Server memory for DB < 32 GB	64 GB
Server memory for DB > 32 GB	128 GB
Cores	16 cores minimum, 24 cores recommended.
Partitioning	Create a dedicated partition for SQL Server data.
SSD or hard drives	SSDs may provide better performance but only in cases of high I/O. Use SQL to monitor I/O wait times and PERFMON to measure average disk I/O latency. Latency should be less than 0.020 seconds (20 ms).

Other Database Configurations

Vantage systems can work with other special database configurations:

- For a fully redundant system, you can use SQL Server Standard with Mirroring. This requires professional services from Telestream with machines and licenses for two SQL Server Standard databases, plus a third machine running the free SQL Server Express.
- Large volume systems can use SQL Enterprise.
- You can use SQL with Clustering.

Improving Uptime with Mirroring or Availability Groups

SQL Server Availability Groups or database mirroring can prevent Vantage domain interruption if a single database server fails.

Telestream supports Basic Availability Groups for SQL Server 2019 Standard | SQL Server 2022 Standard. Database mirroring is also supported.

SQL Enterprise with Clustering may also be used for high availability.

A mirrored database requires the following physical servers:

- A dedicated server to host the principal database
- A dedicated server (of similar capability to the principal database server) to host the mirror database
- An optional dedicated server to host the witness server.

The witness database is a lightweight service which can run effectively on a low-end server, but cannot be installed on a database server.

Basic Availability Groups require:

- A dedicated server to host the primary replica database
- A dedicated server (of similar capacity) to host the secondary replica database
- A reliable witness file share server.

Note: This guide does not provide instructions for installing or implementing a mirrored database or Availability Groups. Consult your database administrator or contact your Telestream representative regarding installation service options.

Note: Telestream strongly recommends using a dedicated server for the witness server to ensure uninterrupted operation in case of a database failover. If the witness server function is placed on a server with Vantage services, transcoding can consume too many resources and prevent timely database switchover.

Note: If a mirrored database fails over, the domain change is not reflected in Vantage client program title bars, which still show the original domain name. Users can correct this by using File > Change Vantage Domain in the clients to select the new domain.

Installing MS SQL Server

If you are creating or upgrading a Single-Node Vantage installation, pre-installing the database is not necessary. The Vantage Setup installer will install MS SQL Server Express and the Vantage database automatically on the single-node server with the Vantage applications and services.

However, if you are installing or upgrading an existing Vantage array on multiple servers, you need to have MS SQL Server Standard (or better) installed before you install the Vantage product using the Vantage Setup installer. This procedure will guide you

through the MS SQL Server Standard installation, and the procedure that follows ([Installing the Vantage Database](#)) will install or upgrade the Vantage database. After SQL Server and the Vantage database are installed, you can install the Vantage array using the Vantage Setup installer.

This guide does not provide instructions for installing a mirrored database and implementing mirroring. Consult your database administrator or contact your Telestream representative regarding installation service options. To set up the Vantage domain database, follow these procedures in the order listed:

- [Installing SQL Server 2019 | 2022 Standard](#)
- [Installing the Vantage Database](#)

Installing SQL Server 2019 | 2022 Standard

Follow these steps to install SQL Server 2019 Standard | SQL Server 2022 Standard (skip this topic if you have already installed any of these versions):

1. Launch setup from the SQL Server 2019 | 2022 Standard installation media.
2. In the *SQL Server Installation Center*, select *Installation* on the left.
3. Select *New SQL Server Stand-alone installation or add features to an existing installation*.
4. On the Product Key page (For SQL Server 2022, this is called the Edition page), enter the product key and click *Next*.
5. Accept the license terms and click *Next*.
6. Click *Next* on the Microsoft Update page and the Install Rules page.
7. On the Feature Selection page, click *Feature Selection on the left*, enable *Database Engine Services* and click *Next*.
8. On the Instance Configuration page, select *Named instance*, enter *VANTAGE* and click *Next*.
9. Click the cell where the SQL Server Database Engine Row and Account Name column intersect. After selecting the cell, click the drop-down list and select *<<Browse...>>*.
10. In the *Enter the object name to select* field, type *NETWORK SERVICE* and click OK. Then click *Next* on the Server Configuration page.
11. On the Database Engine Configuration page, select *Mixed Mode (SQL Server authentication and Windows authentication)*. Enter *vantage12!* for the password and click the *Add Current User* button.
12. (Optional) If you would like to specify a non-default location for the database files, go to the Database Engine Configuration page, select the Data Directories tab, and change the Data root directory path.
13. Click *Next* on the Database Engine Configuration page.
14. Click *Install* on the Ready to Install page.
15. When installation completes, click *Close* and close the SQL Server Installation window.

Installing SQL Server Management Studio

Management Studio is not automatically installed for SQL Server 2019 | 2022. To install and configure it, follow these steps:

1. Browse to msdn.microsoft.com/en-us/library/mt238290.aspx.
2. Click the link to "Download SQL Server Management Studio." Supported versions are 19.2 or later.
3. After the download completes, launch the setup and click Install.
4. Click Close when the installation completes.

After the SQL Server Management Studio has been installed, it must be used to set the maximum limit for SQL Server's memory consumption:

1. From the Start menu, launch the SQL Server Management Studio.
2. Connect to the instance using SQL Server Authentication:
Server name: \VANTAGE
Authentication: SQL Server Authentication
Login: sa
Password: vantage12!
3. Right-click the hostname at the top of the Object Explorer tree and select Properties.
4. From the Select a page panel, go to *Memory* and set *Maximum server memory (in MB)* to 75% of the host system's memory. For example, if the system's memory is 8 GB (8192 MB), then the maximum server memory for SQL should be set to 6 GB (6144 MB) ($8192 \times 0.75 = 6144$).
5. Click *OK* to close the Microsoft SQL Server Management Studio window.

Now that SQL Server Standard is installed and configured for Vantage, install the Vantage domain database as explained in this topic: [Installing the Vantage Domain Database](#). The Vantage installer will detect that SQL Standard is already installed, will not install SQL Express, and will attach to the installed instance.

Installing the Vantage Database

If you have already installed MS SQL Server, the Vantage Installer allows you to install or upgrade your existing Vantage database in the existing SQL installation. You can install in any of these MS SQL database versions:

- SQL Express
- SQL Standard | SQL Standard with Mirroring | SQL Standard with Clustering. Clustering requires SQL Enterprise. For SQL Standard, Telestream supports SQL Basic Availability Groups.
- SQL Enterprise | SQL Enterprise with Clustering

Before you begin, perform the prerequisite procedure following.

Prerequisites for SQL Instance Installation

It is assumed you have already created a SQL database instance into which a Vantage database instance can be deployed. The instance must meet these prerequisites before you can use the Vantage utility to deploy a Vantage database instance:

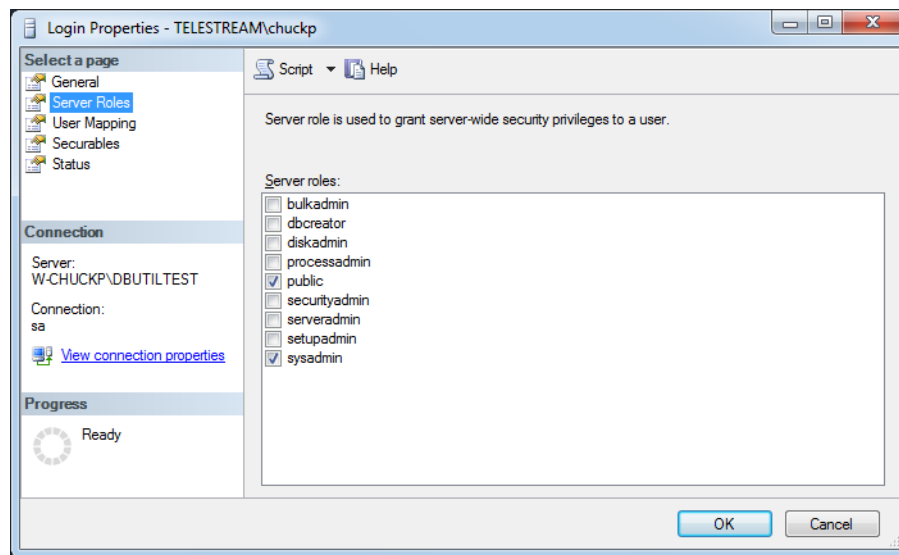
- The SQL instance must be deployed as a named instance.
- The SQL instance must include a SQL or active directory user account. The user can be sa or another account, and any password may be used.

The user account installing the Vantage database must have the *sysadmin* role assigned. The steps below explain how to assign a role.

- The user account running the Vantage database can use *db_owner* and *dbcreator* roles instead of *sysadmin*, if you prefer the user to have lower privileges.

Configuring the Administrator Role

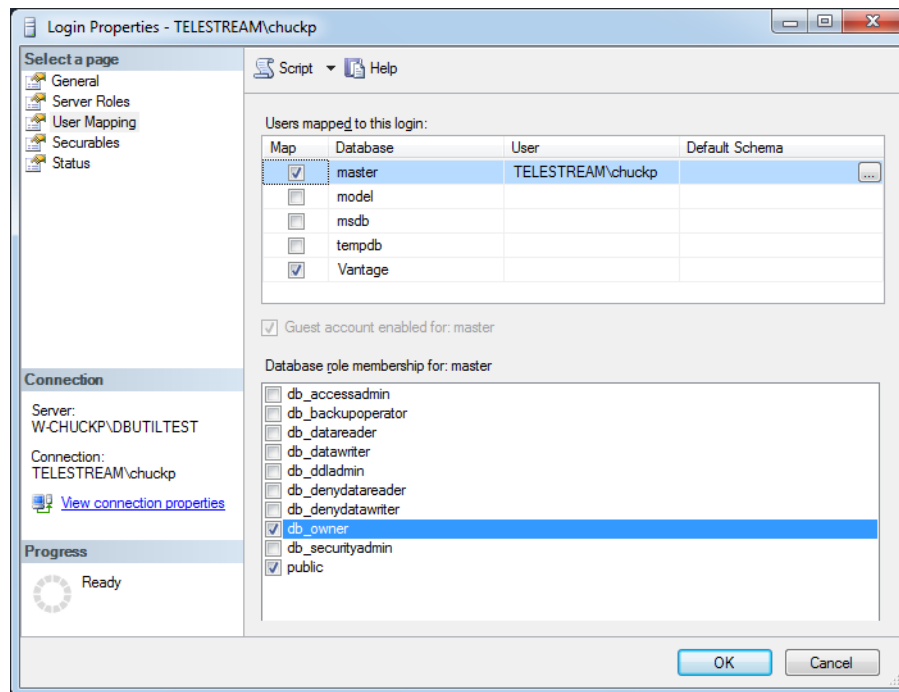
1. In the SQL Server Management Studio > Object Explorer panel, expand Security, and expand Logins.
2. Right-click the *sa* user or another user that you want to use as the administrator login, and select Properties.
3. Go to Server Roles and enable *public* and *sysadmin*. Click OK. This gives the user system administrator privileges for the database instance.



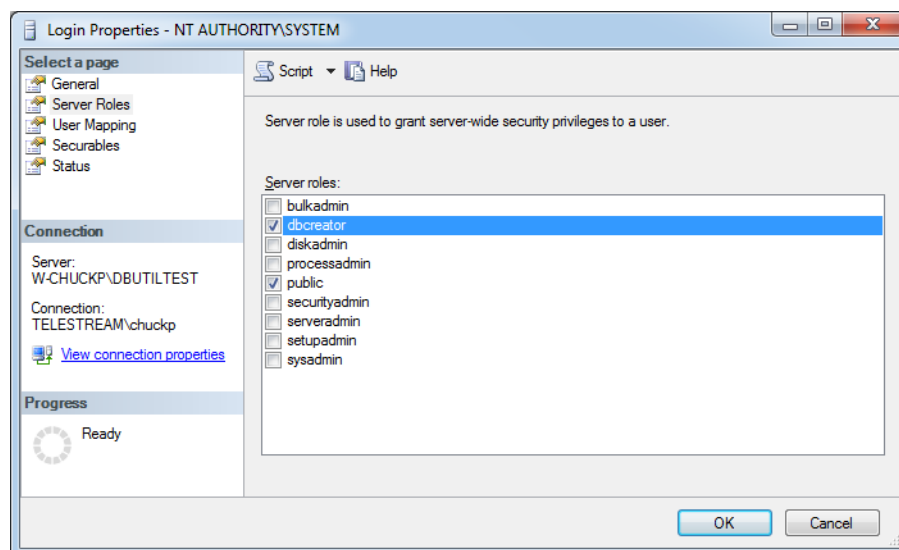
Configuring the Vantage User Role

1. Right-click the current Windows user and select Properties.

2. Click User Mapping. Check master or Vantage (if present) in the database column, and check *db_owner*. Click OK.



3. Right-click the Windows user and select Properties again.
4. Click Server Roles and check *dbcreator* to enable it. Click OK. This provides the current Windows user sufficient privileges to run the Vantage database instance.



5. From the Select a page panel, go to *Memory* and set *Maximum server memory* (in MB) to 75% of the host system's memory. For example, if the system memory is 8 GB

(8192 MB), then the maximum server memory for SQL should be set to 6 GB (6144 MB) ($8192 \times 0.75 = 6144$).

6. Click OK to close the Microsoft SQL Server Management Studio window.

Installing the Vantage Domain Database

Perform these steps to install a clean new Vantage domain database instance into the previously-installed SQL database:

1. Log into the database server with a local administrator account, and make sure that virus-checking software and Windows Firewall is off.

Note: To effectively operate Vantage services with other networked devices or systems, you must turn off Windows Firewall.

2. Stop the SQL Server Agent Service in Start > Services, if it is running.
3. Run the *Vantage_8.3.##_Setup.exe* installer. See [Vantage Installers Overview](#) for details.
4. When the Welcome dialog displays, click Next to display the license agreement.
5. License Agreement—Click I Accept if you agree to the license terms, and then click Next.
6. Select Array {Multi-Node} Installation and click Next.
7. Select the type of installation you want to perform: Install Product or Custom Install. Install Product lists products and options in licensed groups. Custom Install lists every Vantage component and option and allows you to select what you want. Click Next.
8. Browse to Configure the installation locations for the Installation base, the default [Vantage store](#). Defaults are recommended.
9. Enable Install Vantage Database to install the Vantage database.
10. Optionally, to specify a different location for the database files than the default location, change the Database store directory path.
11. When Ready to Install displays, click Install to begin installation, which takes a few minutes. Progress is displayed as the installation takes place.

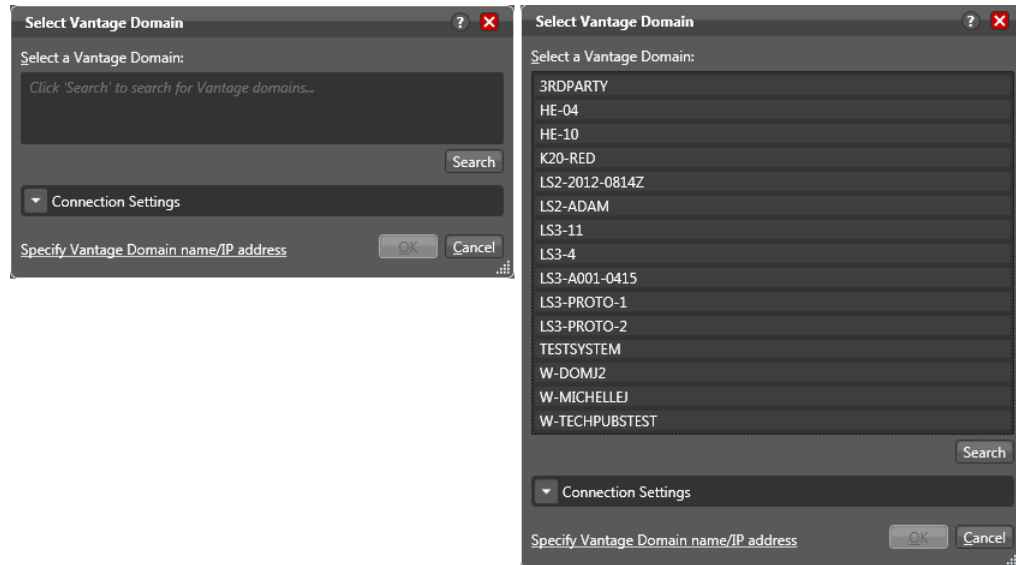
Note: The Vantage Setup program checks for an existing SQL Server installation, and if found, Setup skips the installation of SQL Server. If SQL Server is not found, SQL Server 2022 Express is installed. Similarly, if no Vantage database is found, a new one is installed. If a Vantage database is found, it is upgraded; upgrading preserves workflows, design items, job history, catalogs, stores, application configurations, user settings and licenses.

12. Click Next when the installer indicates it is finished.
13. The installer displays *Installation was successful!* (or indicates errors if unsuccessful). Click Done to close the installer application. Database installation is complete.

14. Launch the SQL Server Management Studio.
15. Connect to the instance using SQL Server Authentication:
 - Server name: \VANTAGE
 - Authentication: SQL Server Authentication
 - Login: sa
 - Password: vantage12!
16. Right-click the hostname at the top of the Object Explorer tree and select Properties.
17. Go to Memory on the left and set "Maximum server memory (in MB)" to 75% of the server's memory. Click OK.
18. You are now ready to install or upgrade Vantage:
 - a. **New Vantage Installations:** If you are installing a new Vantage instance, run the Vantage_8.3 installer again, select *Array {Multi-Node} Installation*, select *Custom*, select the components you want, but do NOT select *Database*. This ensures Vantage installs, but the database is not touched.
 - b. **Upgrading Vantage:** If you are upgrading an existing Vantage instance, use the Control Panel Programs and Features to remove only Vantage but leave MS SQL and the domain database in place. Then run the Vantage_8.3 installer, select *Array {Multi-Node} Installation*, select *Custom*, select the components you want, but do NOT select *Database*. This ensures Vantage installs, but the upgraded database is not touched.

19. After Vantage installation, use the Vantage Management Console > File > Change Vantage Domain (shown below) to find and connect your Vantage installation to the deployed database. Use the Search button to populate the list.

If you installed a Vantage database with a custom name and password, you may need to select *Specify Vantage Domain name/IP Address*. Then enter the server name, the custom database name, expand the *Connection* settings, and enter the custom Login and Password. When you click OK, the Vantage Management Console should connect to the database and begin normal operation.



REMINDER: If you use Windows authentication, you must also set the SQL Server service Log On to the same Windows account that you use for database authentication. To change the SQL Server service Log On, select Start > Administrative Tools > Services > SQL Server > Properties > Log On > This account.

20. If necessary (for a new installation), install Vantage licenses using the Vantage Management Console > Licenses panel and configure Vantage as described in the Vantage Domain Management Guide.
21. If you have deployed a new database or replaced an existing database with a new one, the domain will not have any ComponentPacs installed. When you run the Vantage Setup installer to install Vantage components and services after deploying the database, the major ComponentPacs will be installed. If you do not run the Vantage Setup installer after database deployment on the database server, or if you wish to install additional ComponentPacs, use the Vantage Management Console > ComponentPac Management feature to install the ComponentPacs.
22. Lastly, if you assigned the Vantage services to the host name of the database server before using the Database Deployment Utility, use the Microsoft Services Console to restart the Vantage services after the database is deployed. Also close and reopen the Vantage Management Console and Workflow Designer. These operations prevent a situation where Vantage action templates and fulfillment schemes do not deploy properly.

Backing Up and Restoring the Vantage Database

The Domain Backup feature allows you to save archival copies of the [Vantage domain database](#) in a separate file. The Domain Restore feature allows you to replace your current Vantage domain database with the contents of a previously-backed up domain. The domain backup and restore features are primarily used for the following:

- Returning the database to a previously backed-up state.
- Preparation for database mirroring.

Note: The domain backup and restore features are not designed for use during Vantage upgrades. If you back up the database from a specific version of Vantage, that backup can only be restored to the same Vantage software version. During a Vantage upgrade, the Vantage installers manage any required database updates as described in *Upgrading from a Previous Version* in the *Vantage Installation Guide* or the *Vantage Domain Management Guide*.

The following topics describe domain backup and restore:

- [Understanding Domain Backup and Restore](#)
- [Backing Up the Domain](#)
- [Restoring the Domain](#)

Understanding Domain Backup and Restore

During a domain backup, Vantage creates a single backup file that contains all workflows, all services, and all jobs registered in the domain. It is important to remember that the backup file contents reflect the domain contents as of the moment the backup file is created. To capture changes made after a backup, you must create another backup.

When you restore a domain, all services are stopped, the current database contents are irretrievably destroyed, and the backup file you specify is used to create the replacement database. The services defined in the backup file are started and the Vantage domain database repopulates with the backup database values.

Because the restore feature irretrievably destroys the contents of the current database, Telestream recommends that you back up the current database before restoring a previous database. Backing up the current database captures all database changes made since the last backup, and it gives you a backup file that you can use to restore the current database if necessary.

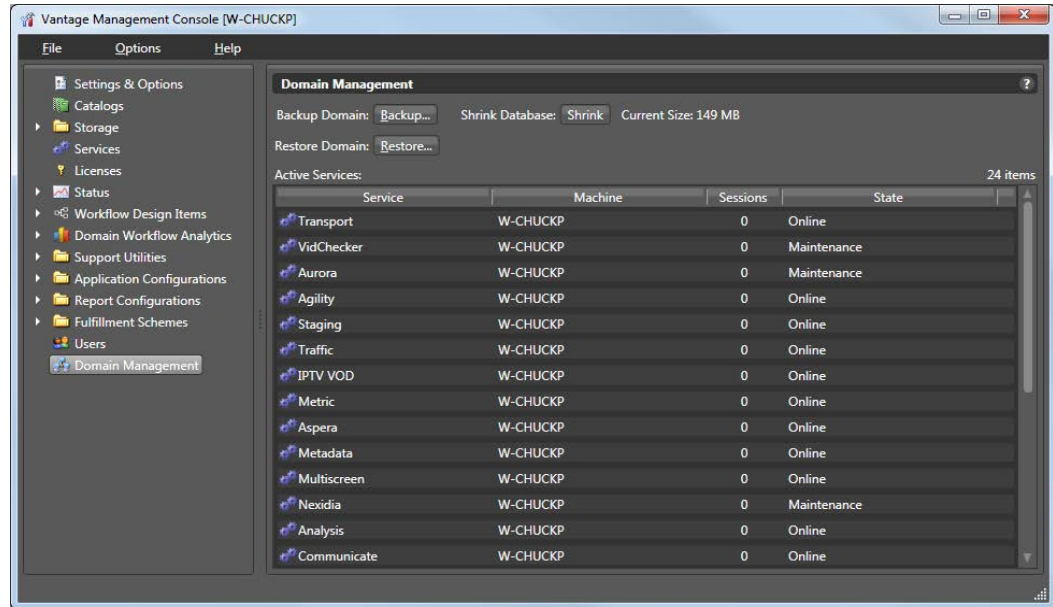
Backing Up the Domain

To back up the Vantage domain database, do this:

1. Start the Vantage Management Console as described in *Starting the Vantage Management Console* in the *Vantage System Administration Guide* or the *Vantage Domain Management Guide*.

2. In the components panel, select Domain Management.

Vantage displays the Domain Management details panel shown here:



3. Verify that all services in the Active Services list are hosting 0 sessions.

Note: Although you can create a successful backup while services are executing workflow tasks, some job records may be lost. It is best to back up the domain when there is no activity in the domain.

4. Click the Backup... button.
5. In the Save the domain dialog, browse to the folder where you want to store the backup file, and click Save.
6. When the Backup Complete message displays, click OK.

Restoring the Domain

CAUTION: Telestream recommends that you restore a Vantage domain using the same machine that created the backup file. If you restore the domain from another machine, the services defined in the database must match the services installed on the other machine.

To restore a Vantage domain database, do this:

1. Start the Vantage Management Console as described in *Starting the Vantage Management Console* in the *Vantage System Administration Guide* or the *Vantage Domain Management Guide*.
2. In the components panel, select Domain Management.
Vantage displays the Domain Management panel shown in the previous figure.
3. To provide the option to return to the current Vantage domain database later, back up the current domain database as described in [Backing Up the Domain](#).

CAUTION: Always back up your current database before restoring it to an earlier backup. Restoring your Vantage domain database overwrites the entire contents of the current database with the contents of the backup file selected.

4. Verify that all services in the Active Services list are hosting 0 sessions.

Note: When you restore a domain, all services are stopped, and all information related to any jobs in progress is lost. The restored database contains only the domain information captured when the domain was backed up.

5. Click the Restore... button, read the information dialog that displays, and click OK.
6. In the *Load the domain* dialog, browse to the backup file you want to restore, select the backup file, and click Open.
7. When the Restore Complete message displays, click OK.

Shrinking a Full Database

If a Vantage installation using SQL Express nears the SQL Express database size limit, Vantage stops accepting jobs. Attempts to submit jobs manually launches a warning dialog indicating that the database is at or near capacity.

You may be able to resolve this issue using the Vantage Shrink Database feature, which applies the MS SQL DBCC SHRINKDATABASE command to the existing database to delete unused entries and reduce file size. The shrink process may take some time and may slow database performance, so it should be done only when the Vantage system is not busy.

Use this procedure to shrink the database:

1. Start the Vantage Management Console.

2. In the components panel, select Domain Management.

Vantage displays the Domain Management details panel (see the preceding figure).

3. To protect against potential data loss, use the Backup... button to back up the current domain database as described in [Backing Up the Domain](#).

4. Click the Shrink button to shrink the database.

A dialog pops up to explain that the Shrink command may affect database performance and should be done only when Vantage is not busy.

A Status message indicates progress.

Current Size displays the database size next to the button, so you can see any changes immediately upon completion of the shrink command.

Multiple presses of the button may shrink the database additionally each time.

Moving the Vantage Domain Database to Another Database

You might want to move the Vantage domain database because:

- You are upgrading SQL Server from Express to Standard
- You are upgrading SQL Server from an older version to a newer one
- You are moving the database from one server to another

Note: This procedure backs up the database, moves the database to a different SQL Server version and/or server, and restores the database. Vantage does not support a Vantage restore from one Vantage database version to another. If you are upgrading Vantage and moving the database, upgrade Vantage first, and then move the database.

Note: This guide does not provide instructions for moving a mirrored database. Consult your database administrator or contact your Telestream representative regarding installation service options.

To move a Vantage domain database, follow the procedures in the following topics in the sequence presented:

1. [Preparing for the Move](#)
2. [Backing up the Existing Database](#)
3. [Removing the Vantage Domain Database](#)
4. [Removing Microsoft SQL Server](#)
5. [Installing SQL Server Standard](#)
6. [Installing the Vantage Domain Database](#)
7. [Restoring the Vantage Domain Database Backup](#)
8. [Finishing the Move](#)

Preparing for the Move

If you are upgrading SQL Server, it is recommended but not required that you back up the Vantage domain database. However, if you are moving the Vantage domain database to a new server, you must backup the database, as the backup file will be used to restore the domain on the new server.


To back up the existing Vantage domain database so that it can be transferred to the new database later, follow these steps:

1. Use Vantage Workflow Designer to deactivate all active workflows to prevent new jobs from starting.
2. Use the Job Status Views tab in Vantage Workflow Designer, the Vantage Job Status Views web application, or Vantage Dashboard to either determine when all jobs are complete or stop any jobs in process or in waiting.
3. If you are moving the database to another server, do this:
 - a. Take note of any Storage, Variables, and/or Qualification Rules settings for each service. (In the Vantage Management Console, select Services. In the service panel, click each service and check the tabs at the bottom of the window.)
When you move the Vantage domain database from one server to another, the Storage, Variable, and Qualification rule configuration for each service is lost. Write down any configuration that you want to transfer to the new server.

Note: The service Storage, Variable, and Qualification Rule configuration is not lost when you change the SQL Server version on a server. Skip to Step 4 if you are not moving the Vantage domain database to a different server.

- b. In the Vantage Management Console, remove all services from the Vantage domain as described in *Removing a Service from the Domain* in the *Vantage Domain Management Guide*.

Note: The default Vantage user account is *Administrator* with no password. This account has administrative privileges.

- c. In the Vantage Management Console, select Licenses in the components panel.
 - d. On the Licenses tab, select all licenses and click the Delete button .

Note: To add the licenses back at the end of this procedure, you will need access to the license files. If you do not know where these files are, locate them now before you delete them from the existing database.

4. If you are changing the Microsoft SQL version on a server (and not moving the database to another server), place all services in Maintenance Mode as described in *Entering and Exiting Service Maintenance Mode*.

Backing up the Existing Database

If you're upgrading SQL Server, Telestream recommends that you back up the Vantage database. If you're moving the Vantage domain database to a new server, you must back up the database, as the backup file will be used to restore the domain on the new server.

To back up the existing Vantage domain database so that it can be transferred to the new database later, follow these steps:

1. In the Vantage Management Console, select the domain you want to modify, select Domain Management in the components panel, click Backup..., and use the file save dialog to save the backup file to a safe location.
You will need to access the backup file to restore the Vantage domain database after you move it. For more information, see [Backing Up the Domain](#).
2. Close all Vantage clients—Vantage Workflow Designer, Vantage web applications, Vantage Workflow Portal, Dublist Portal, and Vantage Management Console.

Removing the Vantage Domain Database

The Vantage domain database may or may not be present as a separate entry in the Windows Control Panel Programs and Features window, depending on how it was originally installed.

In either case, the Domain Database must be removed using one of the following procedures:

If the Domain Database is present in the Control Panel list, remove it as follows:

1. Log into the server with a local administrator account.
2. Open the control panel tool to remove programs in your operating system:
Control Panel > Programs and Features > Uninstall Programs.
3. Select Vantage Domain Database and click Remove or Uninstall.

If the Domain Database is not present in the Control Panel list, remove it as follows:

1. Log into the server with a local administrator account.
2. Open the control panel tool to remove programs in your operating system:
Control Panel > Programs and Features > Uninstall Programs.
3. Select Vantage and click Change.
4. Deselect the check box for Vantage Domain Database and continue with removal.

Removing Microsoft SQL Server

When you are upgrading Microsoft SQL Server or moving the Vantage domain database to another server, you may want to remove the old version of SQL Server.

To remove Microsoft SQL Server, follow these steps:

1. Log into the server with a local administrator account.
2. Open the control panel tool for removing programs:
Control Panel > Programs and Features > Uninstall Programs.
3. Select Microsoft SQL Server and click Remove or Uninstall.

Note: If you are prompted to stop the SQL Server (VANTAGE) service, go to Start > Services and stop the service before clicking Retry to continue with uninstalling.

Note: If you have multiple instances (for example SQLEXPRESS and VANTAGE), you will need to remove them both.

4. Select Microsoft SQL Server Native Client and click Remove or Uninstall.

Note: Uninstalling the SQL Server does not delete your Vantage workflows, resources, or transaction history. It leaves your domain database files intact in [Install_Drive]:\Program Files\Telestream\Vantage\Database. For information on removing the database files, see *Uninstalling Vantage from a Server* in the Vantage Installation Guide or the Vantage Domain Management Guide.

At this point, the SQL Server is removed but the database files and any Vantage services and clients that were installed on the server remain installed. The domain cannot resume operation until the SQL Server is reinstalled on this server or set up on another server.

Installing SQL Server Standard

Please see [Installing SQL Server 2019 | 2022 Standard](#) earlier in this chapter. After installing SQL, continue with the next topic to install the Vantage database.

Installing the Vantage Domain Database

This task installs the Vantage domain database instance. Follow these steps:

1. Log into the database server with a local administrator account, and make sure that virus-checking software and Windows Firewall is off.

Note: To effectively operate Vantage services with other networked devices or systems, you must turn off Windows Firewall.

2. Stop the SQL Server Agent Service in Start > Services, if it is running.
3. Run the *Vantage_8.3.##_Setup.exe* installer. See [Vantage Installers Overview](#) for details.
4. When the Welcome dialog displays, click Next to display the license agreement.
5. License Agreement—Click I Accept if you agree to the license terms, and then click Next.
6. Select Array {Multi-Node} Installation and click Next.
7. Select the type of installation you want to perform: Install Product or Custom Install. Install Product lists products and options in licensed groups. Custom Install lists every Vantage component and option and allows you to select what you want. Click Next.
8. Browse to Configure the installation locations for the Installation base, the default [Vantage store](#). Defaults are recommended.
9. Enable Install Vantage Database to install the Vantage database.
10. When Ready to Install displays, click *Install* to begin installation, which takes a few minutes. Progress is displayed as the installation takes place.

Note: The Vantage Setup program checks for an existing SQL Server installation, and if found, Setup skips the installation of SQL Server. If SQL Server is not found, SQL Server 2022 Express will be installed. Similarly, if no Vantage database is found, a new one is installed. If a Vantage database is found, it is upgraded; upgrading preserves workflows, design items, job history, catalogs, stores, application configurations, user settings, and licenses.

11. Click Next when the installer indicates it is finished.
12. The installer displays *Installation was successful!* (or indicates errors if unsuccessful). Click Done to close the installer application. Database installation is complete.

If you are upgrading SQL Server on the same server, the upgrade is almost complete. Vantage should have discovered the old database files. Now you need to finish the process as described in [Finishing the Move](#).

If the old database files are not found, or if you are installing the Vantage domain database on a different server, restore the database from the backup file as described in [Restoring the Vantage Domain Database Backup](#).

Restoring the Vantage Domain Database Backup

To restore the Vantage domain database using the backup file you previously created, follow these steps:


1. Start the Vantage Management Console on any Vantage server in the domain.

Note: If you have moved the Vantage domain database to a new server, the name of the Vantage domain changed to the name of the new host server.


2. In the Vantage Management Console, select the domain to modify, select Domain Management in the components panel, click Restore..., and select the file to restore. For more information, see *Backing Up the Domain* in the *Vantage System Administration Guide* or the *Vantage Domain Management Guide*.

Finishing the Move

To finish the move, you must enable the services you disabled when preparing for the move. If you moved the Vantage domain database to another server, you must also install Vantage licenses. To return Vantage to operation, follow these steps:

1. If you changed the Microsoft SQL version on a server (and did not move the database to another server), do this:
 - a. Remove all services from Maintenance Mode as described in *Entering and Exiting Service Maintenance Mode* in the *Vantage System Administration Guide* or the *Vantage Domain Management Guide*.
 - b. Skip to [Step 4](#).
2. If you moved the Vantage domain database to a different server, activate Vantage Domain licenses as follows:
 - a. In the Vantage Management Console, open the domain you want to modify, and select Licenses in the components panel.
 - b. On the Licenses tab, click the Add License button  and use the open file dialog to select the license file.

If your domain has multiple license files (for multiple features), repeat this step for additional licenses.

- 3.** If you moved the database to another server, update the configuration of services as follows:
 - a.** In the Vantage Management Console, open the domain you want to modify, and select Services in the components panel.
 - b.** In the Services panel, click the Add Service button  and use the dialog to select a service to add.
 - c.** If any Storage, Variables, and/or Qualification Rules settings were configured for the service, add them now.
 - d.** Repeat this step for each service until all services are updated.
- 4.** Use Vantage Workflow Designer to reactivate all workflows.