



Vantage 8.2

Installation Guide

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Before You Install Vantage

Use this chapter to understand and plan for the hardware, software, database, and network requirements before performing a Vantage domain installation. You'll also learn about Vantage installers, how to obtain a Vantage license, and some distributed Vantage domain planning advice—this topic is about what you need to know before you install a Vantage domain.

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

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

Topics

- [Server Hardware Requirements](#)
- [Operating System Requirements](#)
- [Third-Party Software Requirements](#)
- [Network Requirements](#)
- [Database Selection and Configuration Guidelines](#)
- [Vantage Installers Overview](#)
- [Licensing Overview](#)
- [Planning for a Vantage Array Installation](#)

Server Hardware Requirements

Vantage is optimized for multi-core processors that support Windows operating systems. The following topics provide more information on Vantage server hardware requirements:

- [Ensure Maximum Server Performance](#)
- [Vantage Server Requirements](#)
- [Database Server Requirements for SQL Standard](#)

Ensure Maximum Server Performance

To ensure maximum server performance for all servers in the Vantage domain, be sure to set the Windows Control Panel Power Options as follows:

Set the Power Options to High Performance with Sleep disabled:

1. Navigate to Start > Control Panel > Power Options.
 2. Select the *High Performance* plan.
 3. Set Sleep mode to *Never* (never sleep).
 4. Select *Change advanced power settings*, and set all critical functions so that they are always ON (this usually means setting them to *Never turn OFF*).
- Also disable any real-time processes that may interfere with performance, such as virus scanning of media files as they are being captured, automatic real-time software updates, and real-time file indexing.

Vantage Server Requirements

Vantage server requirements depend on which domain components (services, media files, and database) are installed on the server, as well as how much media you plan to store on the server. The following table lists the hardware requirements for servers that host Vantage and SQL Express database services.

| Hardware | Requirements |
|------------------------------------|---|
| Processor | 64-bit dual six-core processors or greater; 8 MB cache or greater recommended. |
| RAM | At least 32GB; 64GB or greater recommended, depending on the volume of concurrent transcode sessions planned. |
| Disk space | All-in-one installations: 500 GB; approximately 1 GB for Vantage services and clients, approximately 500 MB for the Transcode and Analysis Engine, and approximately 400 GB for the Vantage store media and database. The initial database size is approximately 100 MB. |
| Ethernet/Fibre | All-in-one installations: Gigabit Ethernet (GbE / 1 GigE) minimum. (Dual Ethernet may be needed in some situations). Vantage arrays: Gigabit Ethernet (GbE / 1 GigE) minimum. Recommend dual bonded Ethernet or 10GigE. The Vantage domain database and all Vantage services should be on the same subnet. |
| Numeric Processing Instruction Set | MMX, SSE, and SSE2 enabled. |

Database Server Requirements for SQL Standard

Correctly specifying the hardware and planning the database is crucial for optimal Vantage system operation. For hardware requirements and other guidelines for a SQL Standard database, please refer to the *Planning and Managing a Vantage Database* chapter and these specific topics before you install Vantage or the database:

- [Operating System Requirements](#)
- [Database Server Requirements for SQL Standard](#)
- [Guidelines for Selecting SQL Express or SQL Standard](#)

Operating System Requirements

The following topics describe the operating system requirements for Vantage components:

- [Vantage Web Applications](#)
- [Vantage Client Software](#)
- [Vantage Services, Domain Database, and MS SQL Server OS](#)

Note: Automatic Windows and software updates and automatic restarts of Vantage servers should be disabled. Schedule update installations and system restarts only during planned maintenance periods to prevent disruption of Vantage operations.

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.

Vantage Web Applications

Vantage web applications should be installed on an IIS server running on the same subnet as the Vantage domain database, so that the web applications can auto-discover the Vantage domain. To improve the performance of Vantage web applications and Vantage services, place the Vantage web applications on a dedicated server, separate from the Vantage domain database and Vantage services. The following list ranks the possible Vantage web application configurations from most preferred (#1) to least preferred:

1. Dedicated Vantage web application server.
2. Vantage web applications installed on a Vantage domain database server that does not host Vantage services.
3. Vantage web applications installed with the Vantage domain database and Vantage services on the same server (includes all-in-one domains).

Vantage web applications should only be installed and operated on the following operating systems:

- Windows Server 2016 (64-bit) Standard or Data Center Edition
- Windows Server 2019 (64-bit) Standard or Data Center Edition
- Windows Server 2022 (64-bit) Standard or Data Center Edition
- Microsoft IIS 10.0 or later is required.
- .NET 4.8 is required.

Installation of the IIS and .NET components is covered as part of web app installation in the next chapter: [Installing and Configuring Vantage Web Applications](#). The web apps installer installs .NET 4.8 for you automatically if it is not already present.

Vantage Web Applications Browser Requirements

Telestream recommends the following browsers for use with the Vantage web apps:

- Internet Explorer 11—32-bit or 64-bit (Windows only)
- Chrome—current version (MacOS X and Windows)
- Safari—current version (MacOS X only)

Note: To use Vantage web applications with Internet Explorer, you must configure Internet Explorer as described below. Also note that Firefox is not recommended because it does not allow previewing in the web-based Workflow Portal on Windows Server systems.

Note: Supported browsers for Lightspeed Live Capture may differ slightly from those listed above. Consult the Live Capture User Guide published on the Telestream web site for current requirements.

To configure Internet Explorer for use with Vantage web applications, do this:

- Enable Active Scripting—Open Internet Explorer, select *Tools > Internet options*, select the Security tab, click *Custom level*, scroll down to Scripting, click the *Active scripting Enable* radio button, click OK, and click OK.
- If you are using Internet Explorer on a Windows Server operating system, disable Enhanced Security Configuration (ESC) using the Windows Server Manager (Server Manager > Security Information > Configure Internet Explorer ESC).

Vantage Client Software

Vantage client programs (Vantage Management Console, Vantage Workflow Designer, and Vantage Workflow Portal) may be installed and run directly on a Vantage server, or on client workstations.

Vantage client programs are supported on the following operating systems:

- Windows 10 and Windows 11
- Windows Server 2016, 2019, or 2022 (x64 with Desktop Experience) Standard or Data Center edition.

Note: To effectively operate Vantage services and their client programs in an array, and with other networked systems, you must disable the Windows Firewall and upgrade all systems to the latest Microsoft service packs and security updates.

Vantage requires Windows Desktop Experience (see [Install the Desktop Experience](#)).

Note: Desktop Experience is required so that the Vantage transcoders, clients, and preview player can function correctly.

If you connect to the server using a Remote Desktop Protocol (RDP) product, you must also install the Desktop Composition role feature.

Once Desktop Composition is installed, you must also enable the Desktop Composition policy.

Note: If you cannot install or enable Desktop Composition because needed options are grayed out, group policies set by your IT administrator may be preventing access.

Vantage Services, Domain Database, and MS SQL Server OS

Vantage services, the Vantage domain database, and MS SQL Server should be installed and operated only on the following operating systems (64-bit recommended for performance):

- Windows Server 2016, 2019, or 2022 (x64 with Desktop Experience) Standard or Data Center Edition.

All Vantage services and Telestream core services have been qualified on Windows Server 2016, 2019, and 2022 except as noted below:

- Screen MediaMate—Tested and deployed by Screen; see Screen’s documentation.

For all third party Vantage services (besides Aspera), refer to the respective third party manufacturer’s documentation for supported operating systems.

Windows Server Configuration Requirements

The following topics describe additional Windows requirements for Vantage:

- [Install the Desktop Experience](#)
- [Understand User Account Control Admin Approval Mode](#)
- [Power Options Settings](#)

Install the Desktop Experience

Prior to installing Vantage, the Microsoft Desktop Experience must be installed on Vantage servers (except dedicated database servers) for Vantage clients and services. The Desktop Experience feature provides Windows 7 features on your server and is required by several actions, including the Analyze, Conform, Timed Text, and various Flip actions as well as Vantage clients and the proxy preview player.

To install the Windows Desktop Experience follow the procedure below for your OS.

Windows Server 2016, 2019, or 2022 Desktop Experience

When you install Windows Server 2016, 2019, or 2022 you can choose Windows Server (Server with Desktop Experience). This installs the Desktop Experience along with the server OS. No additional installation steps are required.

Understand User Account Control Admin Approval Mode

If User Account Control: Run all administrators in Admin Approval Mode is enabled, run the installers by right-clicking the installer and selecting Run as Administrator. If this feature is disabled, you can run the installer normally.

To verify the setting value (Enabled | Disabled):

1. Display the command window (Start > Command Prompt).
2. In the command window, type `secpol.msc` and press Enter.
3. In the Local Security Policy window, select Local Policies > Security Options. In the Policy column, find User Account Control: Run all administrators in Admin Approval Mode and view the Security Setting.

Power Options Settings

All Vantage servers should be set to High Performance in the Power Options Control Panel. This ensures that the network interface cards never sleep, which is desirable to ensure all Vantage servers remain in communication with each other all the time.

1. In Windows, display the Control Panel folder.
2. Search for Power Options.
3. Click Power Options, and select High Performance.
4. Close the Control Panel.

Third-Party Software Requirements

The following topics describe Vantage software requirements and recommendations for third-party products:

- [QuickTime Requirements](#)
- [.NET Framework Requirements](#)
- [Anti-Virus Software Recommendations](#)

Caution: If you do not install/upgrade all required software, Vantage may not operate correctly.

QuickTime Requirements

The Telestream Media Transcode and Analysis engine requires QuickTime version 7.6.9 if you plan to transcode QuickTime files. Obtain the free QuickTime installer from Apple.com at this URL:

<http://appldnld.apple.com/QuickTime/041-0025.20101207.Ptrqt/QuickTimeInstaller.exe>

Note: The Vantage Setup installer checks for QuickTime, and if QuickTime is not present, the installer installs QuickTime 7.6.9 for you if you have an Internet connection. If there is no Internet connection or QuickTime is present but outdated, the installer displays a message advising you to install QuickTime manually. Please use the URL above to download the correct version. If QuickTime is installed and up-to-date, the installer leaves QuickTime untouched.

After installation, be sure to uncheck (disable) *Check for Updates*, so that version 7.6.9 is not updated without your knowledge; then restart the server.

If you do not install the correct QuickTime version, encoding some formats causes this error: "An error occurred during execution of the Transcode Task: RenderSession Configuration Error, message: Requested encoder | decoder not installed."

Note: Because QuickTime for Windows has security vulnerabilities as stated by the US Department of Homeland Security (DHS), you may prefer not to install it on your computers. If QuickTime is not installed, a number of Vantage functions will not operate, such as portal proxy playback and several Flip action functions. For details about the QuickTime vulnerability and the effect of removing it from Vantage systems, see the [Telestream and QuickTime statement](#) on the Telestream.net web site.

QuickTime 7.7.9 for Workflow Portal Client

The Workflow Portal desktop client preview player works best with QuickTime 7.7.9. This is the recommended version to use on Vantage client machines.

.NET Framework Requirements

- Microsoft .NET Framework 4.8 is required on Vantage servers, client workstations, and web apps installations. This .NET version is installed automatically by the Vantage or web apps installer on all operating systems, if not already present.

Anti-Virus Software Recommendations

Telestream recommends that you do not use anti-virus software on Vantage servers. You should not enable real-time scanning. If you do use anti-virus software, you should identify Vantage as a safe or trusted application. Telestream recommends that you disable real-time file scanning, because it will impact performance and potentially lock files being processed, impacting Vantage's ability to operate properly.

Note: Be sure to turn off anti-virus software during Vantage installation or install the anti-virus software after you install Vantage.

Network Requirements

These topics provide information on Vantage network requirements and guidelines:

- [IP Address and Subnet Recommendations](#)
- [Port Requirements](#)
- [Firewall Guidelines](#)
- [Windows Authentication Guidelines](#)
- [Time Synchronization Guidelines](#)

IP Address and Subnet Recommendations

The following topics recommend best practices for configuring Vantage servers on your network. These are some principles governing Vantage operation on a network:

- Vantage Services communicate with each other (peer-to-peer) and require reliable communication to prevent services from being treated as offline or failed.
- Services require reliable communication with the database.
- UDP, which is used for database discovery and services, does not work across subnets. This affects domain setup but not day-to-day operation.
- Desktop client software applications require access to the SQL database.

Static IP Addresses Recommended

Telestream recommends using static IP addresses and/or a host file for all machines within a Vantage domain. This is especially important when the network does not have a DNS server. Static IP's help ensure that there is an explicit machine name to host IP correlation, which has proven to be the most effective way to maintain a large cluster.

Single Subnet Recommended

In a Vantage array installation, Telestream recommends that you install the Vantage domain database, Vantage services, and client programs in the same subnet to avoid communication issues. Within Vantage client and web applications, the service discovery feature automatically discovers all Vantage domains within a subnet. If you must access a Vantage domain from outside the subnet that hosts the Vantage domain database, you can use a DNS host name or IP address to specify the domain.

Using Vantage Across Multiple Subnets

You can use Vantage across multiple subnets, provided you adhere to these requirements:

- The subnet must be reliable (not dropping significant numbers of packets); otherwise there will be sporadic communication between services.
- DNS configurations must be set properly (for example, static host entries must be used if DHCP is used for dynamic IP addresses).

- Use host files to ensure that dynamic machine identities do not exist.
- Firewalls need to be disabled or have the appropriate ports open (see [Firewall Guidelines](#) later in this chapter).
- Check ALL subnets where services may be running to ensure that firewalls are configured correctly.
- Client software running on a different subnet generally works without issues.

Considerations When Using Vantage on Multiple Subnets

Vantage software cannot discover services across subnets; when building the Vantage Domain you will need to add services manually:

Open the Vantage Management Console and add services to the domain as follows:

1. Select Services in the left column.
2. Click the Add Services icon in the right panel Services tool bar.
3. Select My Service/Machine is not listed.
4. Enter the machine name or IP address, and click OK.
5. Select the services you wish to add.

Additionally, Vantage client software may not be able to discover the Vantage database across subnets. The first time you run the client software, do this:

1. Select My Domain is not Listed.
2. Provide the host name for the database, and click OK.

Troubleshooting Network Issues

The following list provides common network issues and solutions:

Symptom—Jobs are stalled in the waiting (yellow) state and are not being assigned to services:

- Problems: (1) Services go offline and online arbitrarily. (2) Services of that type are not available due to firewall restrictions.
- Solution: Review and update firewall settings.
- Problem: Services are not available at all.
- Solution: Review services to ensure that they are running.

Symptom—Services toggle in the Management Console, arbitrarily going offline and back on again. Service logs show “Unable to communicate with service”:

- Problem: May be a DHCP problem where IP addresses are changing.
- Solution: Ensure host tables are updated so that every service machine has a fixed name or use static IP addresses.
- Problem: May be an unreliable network causing other services to think that the service has failed.

- Solution: Analyze packet loss on the network to locate points of unreliability
- Problem: May be asymmetrical firewall configurations where machine A can communicate with B, but not vice versa.
- Solution: Review firewalls between services and ensure parity in terms of which ports are open.

Symptom—Services cannot be discovered in the Management Console, even when using explicit service names:

- Problem: Firewall configuration is likely blocking network traffic.
- Solution: Update firewall information to reflect requirements (see [Firewall Guidelines](#) later in this chapter).

Port Requirements

Vantage services are pre-configured with default TCP and HTTP port numbers listed below. To enable network communications between Vantage services, ensure that there are no port number conflicts or blockages between the applications on each Vantage server.

Note: For instructions on viewing or changing the default port settings, search for *Configuring Vantage Services* in the *Vantage Domain Management Guide*.

Vantage Services Ports

This table identifies each Vantage service and its TCP and HTTP ports.

| Vantage Service | Ports |
|--------------------|-----------------------|
| Alchemist | TCP: 8743, HTTP: 8742 |
| Analysis | TCP: 8673, HTTP: 8672 |
| Aspera | TCP: 8701, HTTP: 8700 |
| AudioTools | TCP: 8713 HTTP: 8712 |
| Aurora | TCP: 8689, HTTP: 8688 |
| Avid | TCP: 8739, HTTP: 8738 |
| Baton | TCP: 8703, HTTP: 8702 |
| Catalog | TCP: 8665, HTTP: 8664 |
| Cerify | TCP: 8727 HTTP: 8726 |
| Vantage Cloud | TCP: 8737 HTTP: 8736 |
| Communicate | TCP: 8663, HTTP: 8662 |
| Edit | TCP: 8699, HTTP: 8698 |
| emotion | TCP: 8733 HTTP: 8732 |
| FileCatalyst | TCP: 8715, HTTP: 8714 |
| IPTV VOD Transcode | TCP: 8697, HTTP: 8696 |
| Live | TCP: 8721 HTTP: 8720 |
| MediaMate | TCP: 8685, HTTP: 8684 |
| Metadata | TCP: 8675, HTTP: 8674 |
| Metric | TCP: 8719, HTTP: 8718 |

| Vantage Service | Ports |
|-----------------|-----------------------|
| Monitor | TCP: 8659, HTTP: 8658 |
| Multiscreen | TCP: 8683, HTTP: 8682 |
| Nexidia | TCP: 8725, HTTP: 8724 |
| Publish | TCP: 8731, HTTP: 8730 |
| Pulsar | TCP: 8717, HTTP: 8716 |
| SDK | TCP: 8677, HTTP: 8676 |
| Signiant | TCP: 8709, HTTP: 8708 |
| Staging | TCP: 8687, HTTP: 8686 |
| Timed Text | TCP: 8735 HTTP: 8734 |
| Traffic | TCP: 8681, HTTP: 8680 |
| Transcode | TCP: 8671, HTTP: 8670 |
| Transport | TCP: 8661, HTTP: 8660 |
| VidChecker | TCP: 8705, HTTP: 8704 |

Vantage Windows Client Ports

To enable network communication with Vantage Windows client programs, open the following ports.

| Vantage Clients or Third Party Software | Ports to Open |
|---|------------------------|
| Workflow Portal, Dublist Portal | TCP: 54980 |
| Vantage client programs SQL database access | TCP: 1433, 49150-49300 |
| Vantage Dublist Portal (Thick Client) pre-qualification support | TCP: 8681 |
| SQL Browser service | UDP: 1434 |
| TCP/IP network access (Microsoft Windows share/storage) | TCP: 445 |

Firewall Guidelines

Telestream recommends that you disable the Windows Firewall on all computers that will communicate with or support Vantage services. The default Windows Firewall configuration blocks access between Vantage services running on multiple Vantage servers and from other Vantage workstations, such as those running Vantage client

software. If you do run a firewall, these ports must be open to allow Vantage to communicate.

| Third Party Software | Ports |
|---|--|
| Avid—Unity Client, Transfer Engine, Web Services | Discovery: UDP port 8321. For other ports, see Avid Administration Guide Avid Software Installation and Configuration Guide. |
| FTP (Passive mode) | TCP: 20, 21. Custom FTP port numbers can be entered in Vantage workflows. Also, FTP uses additional port numbers as specified in the protocol specifications. Refer to the protocol specifications for additional information. |
| Grass Valley AMP | Port 3811 by default. |
| Harris NEXIO | TCP: 2098 |
| HTTP | TCP: 80 |
| Microsoft Distributed Transaction Coordinator (DTC) | User configurable; default port: 3372 when TIP is enabled. See Microsoft documentation for details. |
| Server Message Block (SMB) | TCP: 137–139, 445, UDP: 137–139, 445 |
| SFTP | TCP: 22 Custom SFTP port numbers can be entered in Vantage workflows. Also, SFTP uses additional port numbers as specified in the protocol specifications. |
| SMTP | TCP: 25. (default)—configured on Vantage servers as described in Configuring Vantage Email Notifications in the Vantage Domain Management Guide. |
| WS-Discovery | TCP: 46123, UDP: 3702 |

Note: Third-party port numbers are provided for convenience, but are beyond Telestream’s control and subject to change. The list is incomplete because of the many server products available. Contact product vendors for port usage details.

Windows Authentication Guidelines

By default, Vantage services use the Windows *Local System account* when accessing file space for media storage and delivery. When all Vantage services, clients, and delivery targets are on one server, the default configuration works well. When any Vantage service, client, or delivery target is on another computer, Windows authentication requirements must be met to enable communication between multiple computers.

The following topics provide additional authentication guidelines:

- [About Vantage Windows Authentication](#)
- [Configuration Guidelines for the Vantage Windows User Account](#)
- [Configuring Folders for Vantage Access](#)

About Vantage Windows Authentication

A Vantage domain requires authentication planning when workflows require Vantage to ingest media from or send media to another computer. For remote file access, use the following guidelines:

- Configure each Vantage service that accesses files on another server to use a Windows log in ID and password. For example: *VantageWinUser*.
- Configure each remote storage folder to support access from the log in ID for Vantage services.
- If the same service operates on multiple Vantage servers, and requires access to files at a remote location, configure the same log in ID and password for all instances of that service.

For example, if the Transcode service is running on three servers, it operates as one Transcode service with three instances or *nodes*. Vantage requires that every Vantage node within a service use the same log in ID.

Note: When a service is comprised of multiple nodes, the Local System account, which is the default log in ID for all-in-one installations, cannot be used because it represents a different user on each system.

Configuration Guidelines for the Vantage Windows User Account

To support Vantage service access to other Vantage servers and file folders on other computers, Telestream recommends that you create a Vantage user account within the Windows domain or workgroup. To distinguish the Vantage Windows user account from regular Vantage user accounts, use a name that indicates that this is a Windows user account. For example, VantageWinUser.

Your Windows domain or workgroup administrator can configure the Vantage Windows user account before Vantage installation. When configuring this account, consider the following guidelines:

- The Vantage Windows user account should be added to the local administrator group on each server so that Vantage has the proper authority to run Vantage services and install Vantage software.
- The Vantage Windows user account must be authorized to log in as a service (see your Windows domain or workgroup administrator), so that Vantage services can log in as the Vantage Windows user on each Vantage server.
- The Vantage Windows user account should have appropriate read and write permission to network locations that Vantage will access. These network locations include the Vantage store and input and output storage locations.
- You can use the Vantage Windows user account to install the Vantage software.

For instructions on configuring services to use the Vantage Windows user account, see [Setting the Vantage Windows Log On ID for Services](#).

Configuring Folders for Vantage Access

Vantage servers and clients may need access to folders on other computers for any of the following:

- Input of files in watch folders
- Manual submission of input files
- Storage of output files for future Vantage use
- Delivery of output files to remote destination folders

The following topics describe how to configure folders for Vantage use:

- [Configuring Folder Access Within the Windows Domain or Workgroup](#)
- [Configuring Folder Access Outside of the Windows Domain or Workgroup](#)
- [Configuring Access to a SAN System](#)

Note: Vantage cannot access network locations defined using a Windows mapped drive. You must use a universal naming convention (UNC) path to define network locations for Vantage use.

Configuring Folder Access Within the Windows Domain or Workgroup

If you create a Vantage Windows user account as described in [Configuration Guidelines for the Vantage Windows User Account](#), granting Vantage access to any folder within the domain is as simple as granting access to the Vantage Windows user. If Vantage workflow designers, operators, or administrators also need access, grant folder access to their Windows user names.

Configuring Folder Access Outside of the Windows Domain or Workgroup

When Vantage needs to access computers in a different Windows domain or workgroup, the Windows log in ID from the current domain or workgroup is not accepted. To support Vantage service access, you can configure a Vantage authorization record as described in [Specifying Authorization Credentials for Remote Folder Access](#) in the Vantage Domain Management Guide.

Configuring Access to a SAN System

When you want to access files in a SAN system, be aware that some systems expose the shared drive as a letter (mapped) drive (for example, X:) that is visible on any client of the SAN. Although Vantage cannot reference a Windows mapped drive, you can reference SAN drives via a drive letter, provided that each Vantage server is a client of the SAN and that all mount points use the same letter.

Time Synchronization Guidelines

When a Vantage domain includes multiple servers and workstations, you should verify that all the computers are set to the same regional settings and the correct time zone. Otherwise, the timestamps associated with Vantage events may display incorrectly and time-driven events might not occur on schedule.

When verifying time configuration in your Vantage domain, be sure to check the configurations:

- All servers with Vantage services
- All Vantage domain database servers
- All Vantage web hosts
- All file servers that support Vantage stores and folders
- All workstations that run Vantage Workflow Designer, Vantage Workflow Portal, Dublist Portal, and Vantage Management Console (VMC) clients.

Network time protocols on your network should keep the time within tolerances, as long as you correctly configure the following:

- The time zone for each server or workstation should be correct for the respective time zone.
- Any adjustment for daylight savings time should be consistent on all servers and workstations within the same time zone.

Database Selection and Configuration Guidelines

The Vantage database has very specific requirements, and its configuration differs depending on your expected processing workload and whether you are installing Vantage in a single-node or array configuration. For detailed database requirements, please see the following topics included in the [Planning and Managing a Vantage Database](#) chapter, in the Vantage Database Management Guide, or in the Vantage Domain Management Guide:

- [Operating System Requirements](#)
- [Database Server Requirements for SQL Standard](#)
- [Database Selection and Configuration Guidelines](#)

Vantage Installers Overview

These topics introduce the Vantage installers:

- [Obtaining Vantage Installation Packages](#)
- [Vantage Installation Package Contents](#)

Note: The Vantage installer on a USB memory stick is available upon request. Contact sales@telestream.net to request the installer on a memory stick.

Obtaining the Vantage Installation Package

The Vantage installation package (along with other installers) is published on Telestream's web site. To download it, follow these steps:

1. In a browser, go the Telestream Download Center at dynamic.telestream.net/downloads/login.asp?prodid=vantage&message=login and log in.
2. If you don't have a Telestream account, click Create an Account to display the Create a Telestream Account page. Fill out the form and click Create Account. You can use your user name and password immediately. Telestream will send you a confirmation email with directions to finish creating your account.
3. On the login page, enter your user name and password, then click Log In.
4. On the Downloads page, enter your License ID, follow steps to continue, and click the download icon to download the Vantage 8.2 installation zip file.
Select a folder (or desktop) destination and click Save to download and save the zip file on your computer.
5. The Download Progress window displays as the file downloads. When the download is complete, the installer ZIP file is in your downloads folder. Close the browser window.

If you are ready to install Vantage now, proceed to [Installing Vantage](#).

Other installers may be provided to enable you to install individual components, client programs, ComponentPacs and patches. Later, in the [Installing Vantage](#) chapter, you'll use these installers to install Vantage as directed.

Vantage Installation Package Contents

The installation package includes the following installers:

- [Vantage Setup Installer](#)
- [Vantage Database Deployment Utility](#)
- [Vantage Client Installer](#)
- [Vantage Web Applications Installer](#)

Vantage Setup Installer

The `Vantage_8.2.##_Setup.exe` installer is the primary Vantage installation program. It installs all of the server software and all of the client Windows programs—everything needed for a complete Vantage domain.

When you install Vantage programs and services, you can choose:

- Single Node—to install all components on a single server
- Array Node—to install selected components on a Vantage array server.
- Vantage Cloud Designer—to install a subset of single node Vantage domain components and a configuration component for Workflow Designer which constrains it to the actions and features that operate in Cloud mode.

Cloud mode refers to hybrid workflows that run partly on-premises and partly in Vantage Cloud. A Cloud Designer Vantage domain is intended for use only for designing and uploading workflow to Vantage Cloud. In a Vantage Cloud Designer domain, you do not activate workflows locally in Workflow Designer. Instead, you use the HostedWorkflows Manager in Workflow Designer to upload workflows directly into Vantage Cloud, where the workflows execute.

A Vantage Cloud Designer domain is permanently configured for workflow design and upload operations—it is not intended to enable you to dynamically change Workflow Designer mode back to the on-premises feature set or execute workflows on-premises.

You can also choose Install Products or Custom Install. The Install Products option enables you to select licensed product groups; Custom Install enables you to select individual components within product groups.

Based on options, Vantage Setup performs these tasks and installs these programs:

- Creates a Telestream directory for Vantage and related files. For single node domains only, this directory includes a local store and a default catalog.
- Installs Intel Performance Primitives software for Intel processors
- Checks for QuickTime (used by the Telestream Media Transcode and Analysis engine and the Workflow Portal program) and installs it if missing or advises if it is obsolete.
- Installs SQL Server 2022 Express *IF* Express or Standard are not already installed. If the installer detects an existing SQL Server installation, it skips installing Express.
- Creates a SQL instance named VANTAGE (only for automatic Express installations)

- Creates the Vantage domain database on the VANTAGE instance
- Installs the Telestream Media Transcode and Analysis engine
- Installs Vantage services and client programs according to your selections, including web applications for arrays
- Creates Control Panel Programs and Features entries for Telestream Media Transcoding and Analysis and Vantage 8.2. Other Vantage installers may add list entries, such as Vantage Clients or Vantage web applications.
- Creates desktop shortcuts for Vantage client applications on the desktop.

Vantage Database Deployment Utility

The Vantage Database Deployment Utility enables you to install or upgrade the Vantage domain database into an existing SQL installation, such as when installing the database as part of a Vantage array database server installation. You must first install SQL. Then when you run the utility, it populates the SQL Server instance and creates the Vantage domain database on the instance. You specify the name of the instance (typically, VANTAGE) to populate the database into.

Note: If a SQL instance named VANTAGE already exists, Database Deployment utility updates the existing instance (while retaining all your data).

Vantage Client Installer

The Vantage Client installer (*Vantage_8.2.##_Client_Applications.msi*) provides a convenient installer for quickly installing Vantage client applications on client workstations. The Client installer can install the Management Console, Workflow Designer, Workflow Portal, and Dublist Portal.

Vantage Web Applications Installer

The Vantage web applications installer installs these Vantage web applications:

- *Vantage Dashboard*—allows administrators to view Vantage system information.
- *Vantage Job Status Views*—enables operators to view job status information, and if properly authorized, execute job controls.
- *Vantage Workflow Portal*—allows operators to perform operator-intervention media processing tasks via an Internet connection.
- *Vantage Dublist Portal*—allows managing and processing of dublists for the Traffic-Manager option.

Licensing Overview

The following topics describe Vantage licensing:

- [Using Vantage in Demo Mode](#)
- [Obtaining a Vantage License](#)
- [Adding or Replacing License Files](#)

Note: A Vantage domain with more than one node requires one Vantage Array license per node.

Using Vantage in Demo Mode

When you install Vantage without a license, Vantage operates in demo mode. Demo mode allows you to design workflows, input Windows Media (WMV and AVI) files for transcoding (with a watermark), and analyze a few seconds of video and audio. Some features that are not available in demo mode include:

- Support for monitoring and delivering to broadcast servers
- Support for conversion of XML files and third party integrations

Note: If you'd like to unlock the entire set of features in Vantage for a time-limited trial, please contact your Telestream sales representative, or contact the Telestream sales team at sales@telestream.net. Demonstration mode is limited to all-in-one single node domains.

Obtaining a Vantage License

You must obtain, install, and activate a Vantage license to:

- Test a Vantage array in demo mode
- Operate Vantage in production
- Upgrade Vantage from one version to another
- Add more Vantage services (more Transcode services, for example)
- Add licensed features (the Advanced Avid option, for example).

Please contact your Telestream sales representative or contact the Telestream sales team at sales@telestream.net to determine your Vantage requirements and obtain or update your license. When your license has been prepared, Telestream will email you the license as an attachment.

For Telestream contact details, go to www.telestream.net/company/contact-telestream.htm.

When you receive the license (an XML file), save it in a safe place for installation and activation at the end of the installation process.

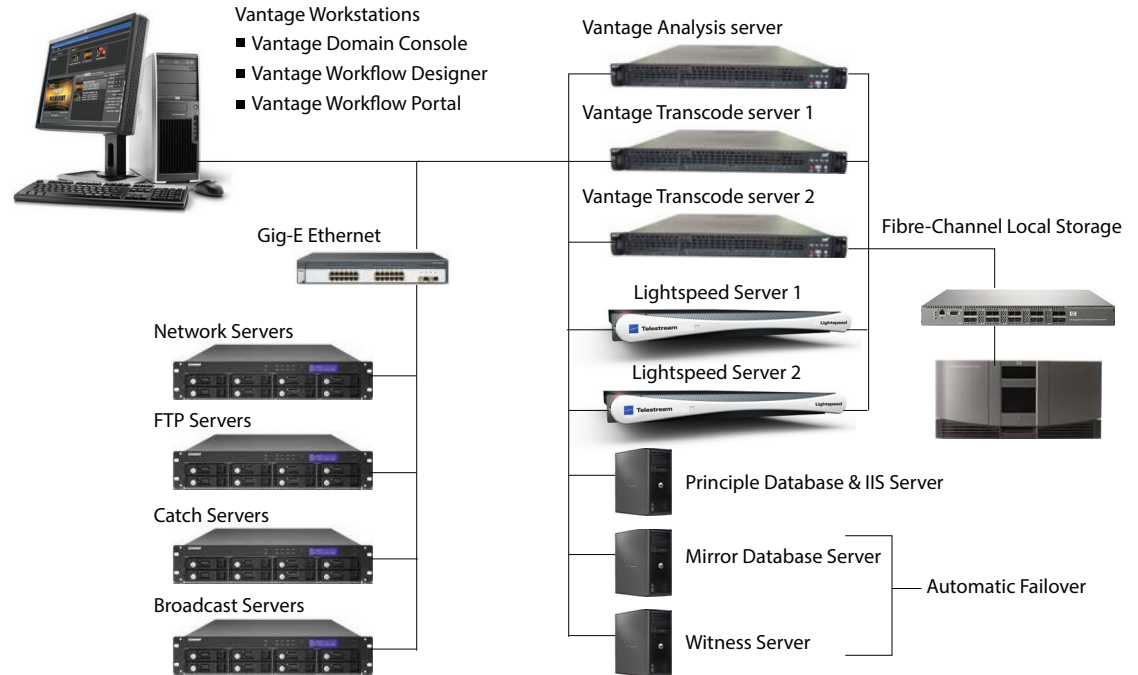
Adding or Replacing License Files

Depending on your requirements, you may obtain a new license file or you may obtain updated files. Contact Telestream Sales or Customer Service, and follow their instructions for adding or updating license files.

Note: You can evaluate an All-in-One Single Node Vantage installation without installing a license. Demo mode allows you to design workflows, perform transcoding with a watermark, and analyze short video or audio clips. However, in demo mode (no license is installed), some features (such as broadcast server protocols) are disabled, and Vantage can only read Windows Media (WMV and AVI) files for transcoding or analysis. You cannot operate a Vantage array without a license.

Planning for a Vantage Array Installation

Prior to installing a Vantage array, Telestream recommends that you develop a system diagram, indicating each server and the Vantage services and client programs it should host, plus the database server (and optional mirror and witness server).



The diagram should also identify which computers host client programs (Vantage Management Console, Vantage Workflow Designer, and Vantage Workflow Portal).

Additionally, document all network resources utilized by the Vantage domain (file sources and destinations).

When adding Vantage services to scale performance, Telestream generally recommends adding one or more Vantage transcoding servers, which is typically the first service to max out server capacity. Multiple transcode servers improves load balancing and speeds overall job throughput. Secondly, if you use the Vantage Analysis Service heavily, consider hosting it on a dedicated server as well.

Note: Each server hosting Vantage services requires a Vantage Array or Vantage Enterprise System Management license. Dedicated database servers do not require a special license.

Note: When naming servers, do not use underscores in the names. Underscores are not valid URL characters and will prevent the web applications from connecting to the Vantage domain.

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 www.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 the following operating systems (64-bit only):

- Windows Server 2016, 2019, or 2022 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: <http://www.microsoft.com/licensing/about-licensing/briefs/licensing-by-cores.aspx>.

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 |
| Operating System | Windows Server 2016 2019 2022 |

| Component | Specification |
|------------------|--|
| CPU | 64-bit, 8 physical core processors, 2.0 GHz or greater. For example, Intel ES-2640 v2. |
| RAM | 24 GB DDR minimum required, 32 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 |
| Operating System | Windows Server 2016 2019 2022 |

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: The recommendations above ensure sufficient CPU headroom for activities such as Workflow Portal operation, running large 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 database systems:

- Microsoft SQL Server 2016 Express | Standard | Enterprise
- Microsoft SQL Server 2019 Express | Standard | Enterprise
- Microsoft SQL Server 2022 Express | Standard | Enterprise

The MS SQL Server for Vantage should be installed and operated only on the following operating systems (64-bit recommended for performance):

- Windows Server 2016 Standard | Data Center Edition
- Windows Server 2019 Standard | Data Center Edition
- Windows Server 2022 Standard | Data Center Edition

The following topics provide guidelines for choosing and implementing a 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.

Guidelines for Selecting SQL Express or SQL Standard

The decision about whether to use SQL Standard or Express depends on your planned maximum database size and the expected average volume of database traffic. The following 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 2016 2019 2022 Express | SQL 2016 2019 2022 Standard |
|----------------------------|-----------------------------|
| Max. Cores: 4 | Max. Cores: 16/24/24 |
| Max. DB RAM: 1 GB | Max. DB RAM: 64/128 /128 GB |
| Database Size: 10 GB | Max. Database Size: 524 PB |

Microsoft offers additional information about SQL Server capabilities and limitations at this URL: <http://msdn.microsoft.com/en-us/library/cc645993>.

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 installs SQL 2022 Express, which allows up to 10GB of database storage. Due to this storage limitation, SQL Express is not suitable for every Vantage installation.

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

- **Transcoding:** SQL 2022 Express can support 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 can support 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 other services such as the operating system and Vantage services. The following 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 Standard with Mirroring. This requires professional services from Telestream with machines and licenses for two SQL Standard databases, plus a third machine running the free SQL 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 Standard 2016 | SQL Standard 2019 | SQL Standard 2022. Database mirroring is supported with SQL Server 2014 | SQL Server 2016 | SQL Server 2019.

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 installation 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 2016 | 2019 | 2022 Standard](#)
- [Installing the Vantage Database](#)

Installing SQL Server 2016 | 2019 | 2022 Standard

Follow these steps to install SQL Server 2016 SP1 Standard | SQL Server 2019 Standard | SQL Server 2022 Standard on a server (skip this topic if you have already installed either of these versions):

1. Launch setup from the SQL Server 2016 | 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.
16. (SQL Server 2016) Install SQL Server 2016 Service Pack 1 (SP1):
<https://www.microsoft.com/en-us/download/details.aspx?id=54276>

Installing SQL Server Management Studio

Management Studio is not automatically installed for SQL Server 2016 | 2019 | 2022. To install and configure it, follow these steps:

1. Browse to <https://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 2016 | 2019 | 2022, 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.

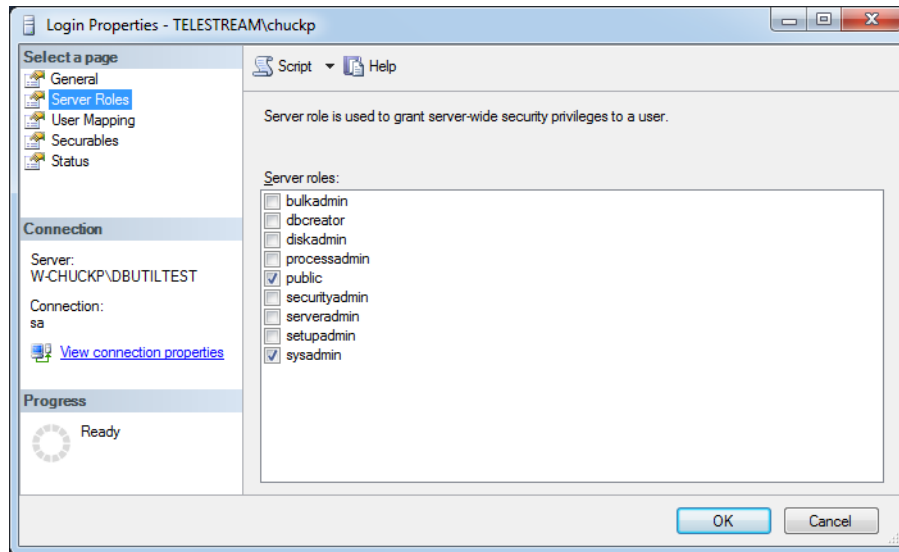
The user account installing the Vantage database must have the *sysadmin* role assigned. The steps below explain how to assign a role.

- 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

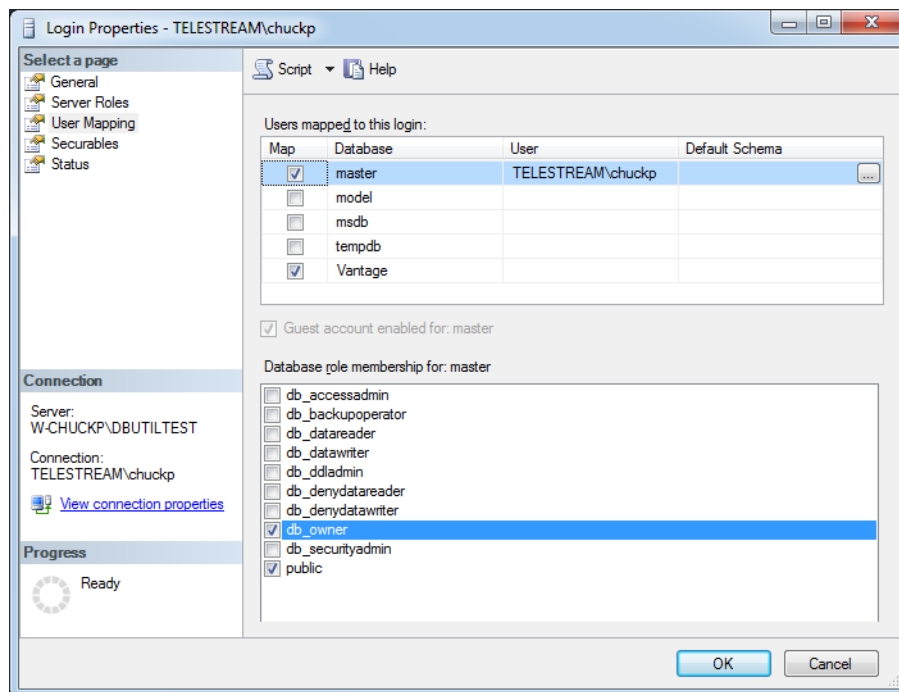
1. In the SQL Server Management Studio > Object Explorer panel, expand Security, and expand Logins.
2. Right-click the *sa* user or another user that you want to use as the administrator login, and select Properties.

3. Go to Server Roles and enable *public* and *sysadmin*. Click *OK*. This gives the user system administrator privileges for the database instance.



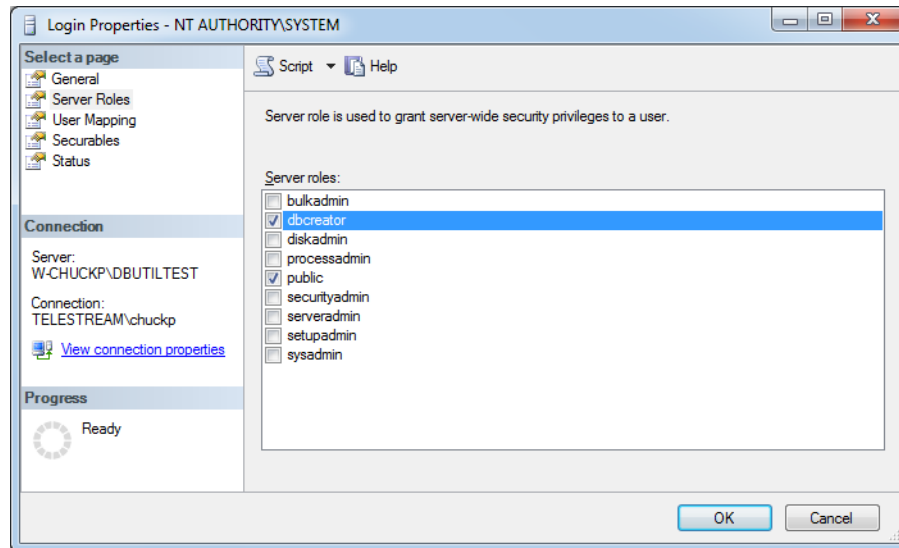
Configuring the Vantage User Role

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_8.2.##_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.

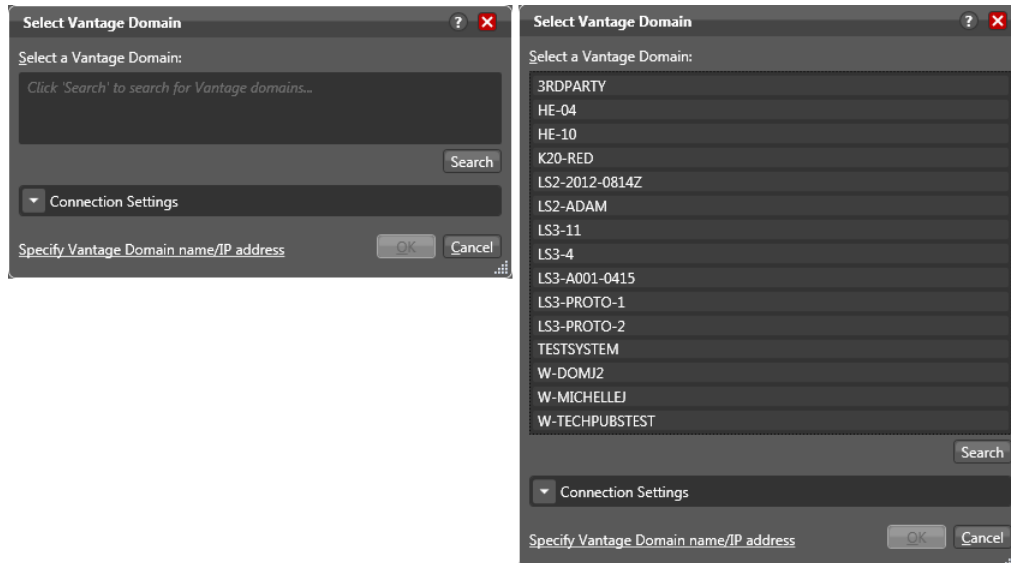
8. Browse to Configure the installation locations for the Installation base, the default Vantage Store. Defaults are recommended.
9. Enable Install Vantage Database to install the Vantage database.
10. Optionally, to specify a different location for the database files than the default location, change 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 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.

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_8.2 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_8.2 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.

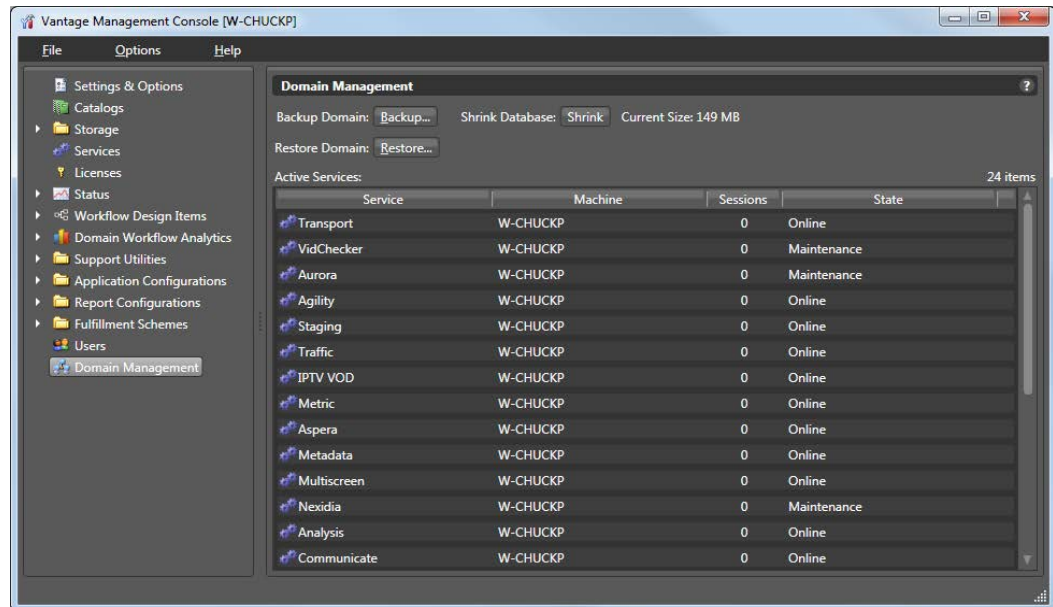
Because the restore feature irretrievably destroys the contents of the current database, Telestream recommends that you back up the current database before restoring a previous database. Backing up the current database captures all database changes made since the last backup, and it gives you a backup 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 2016 | 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_8.2.##_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.

Installing Vantage

This chapter describes how to install Vantage on a fresh server—one that does not host Vantage—and how to configure Vantage and Microsoft SQL Server and supporting software.

If you are upgrading an existing Vantage installation to the current version, skip this chapter and proceed to [Upgrading and Modifying Vantage](#).

Before performing the tasks in this chapter, please be sure you have reviewed and planned for all requirements presented in [Before You Install Vantage](#) and you have downloaded the Vantage installer package ([Obtaining the Vantage Installation Package](#)).

Note: To obtain the Vantage installer or browse the Vantage library of user guides, application notes, integration guides and other documents, go to www.telestream.net/telestream-support/vantage/support.htm.

Topics

- [Installation Prerequisites and Overview](#)
- [Installing Vantage on a Single Node Server](#)
- [Installing a Vantage Array](#)
- [Installing a Vantage Cloud Designer Domain](#)
- [Post-Installation Steps for Single Nodes and Arrays](#)
- [Command Line Installation](#)

Installation Prerequisites and Overview

The following topics summarize Vantage prerequisites and provide an overview of the installation steps.

- [Installation Prerequisites](#)
- [Installation Overview](#)
- [Extracting and Running the Installer](#)

Installation Prerequisites

These prerequisites are required by Vantage:

- Microsoft .NET Framework 4.8 is required on Vantage servers, client workstations, and web apps installations. This .NET version is installed automatically by the Vantage or web apps installer on all operating systems, if not already present.
- Microsoft .NET 3.5 SP1 is also required on Vantage servers where you plan to install the Vantage Transcode service. This .NET version must be installed manually using Server Manager on servers that require it. After installation, open Server Manager > Roles > Server Roles, and check Web Server (IIS) to enable it. Then enable the services listed in IIS role service requirements table, in [Installing Vantage Web Applications](#).
- QuickTime 7.6.9 from Apple.com is required by the Telestream Transcode & Analysis engine. If it is not present, the installer installs it. If it is outdated a message advises you to update it. You can use this link to download it: [QuickTime version 7.6.9](#).

Note: If you prefer not to install QuickTime because of known security vulnerabilities, a number of Vantage functions will not operate, such as portal proxy playback and several Flip action functions. For details about QuickTime issues, see the [Telestream and QuickTime statement](#) on the Telestream web site.

- The Windows servers must be correctly configured, including these options:
 - Desktop Experience installed (required by clients and the Analyze, Conform, and various Flip actions)
 - UAC set as desired and correct privileges (admin or user) used to install Vantage
 - Power Options set to High Performance to prevent the server from sleepingPlease see [Windows Server Configuration Requirements](#) in the [Before You Install Vantage](#) chapter for instructions.

Note: Automatic Windows and software updates and automatic restarts of Vantage servers should be disabled. Schedule update installations and system restarts only during planned maintenance periods to prevent disruption of Vantage operations.

With the prerequisites satisfied, you're ready to install Vantage in one of these ways:

- (1) A single node (all-in-one) domain installation (everything on one server)

(2) An array (multi-node) installation with distributed processing on multiple servers.

Note: For details about Vantage Cloud Designer installation, see [Installing a Vantage Cloud Designer Domain](#).

Differences between the two installation types are listed here:

| Single Node Installation | Array Multi-Node Installation |
|---|---|
| <ul style="list-style-type: none"> • Installs Intel Performance Primitives and checks for QuickTime and .NET versions. • Installs MS SQL 2022 Express unless deselected or MS SQL is already installed. • Automatically installs or updates Domain Database and SQL, if present. • Creates Vantage Store (C:\VantageStore\), as well as Catalog (default), and Samples folders in C:\Program Files (x86)\Telestream\Vantage. • Installs the Vantage Media Transcode & Analysis engine, if needed. • Installs clients: Management Console, Workflow Designer, Workflow Portal, and Dublist Portal. | <ul style="list-style-type: none"> • Installs Intel Performance Primitives and checks QuickTime and .NET versions. • Does not install MS SQL 2022 Express or install/update the Domain Database unless selected. MS SQL Standard is preferred (customer supplied). • Does not create Store, Catalog, or Samples folders but does create C:\Program Files (x86)\Telestream\Vantage folders. • Installs the Vantage Media Transcode & Analysis engine, if needed. • Installs clients: Management Console, Workflow Designer, Workflow Portal, and Dublist Portal. • Installs web apps, if selected. |

Note: A Vantage array requires one Vantage Array license per node. Installation of an array requires additional steps compared to installation on a single node.

Note: On your Vantage servers use only the *Vantage_8.2.##_Setup.exe* installer to install client components. On client machines, you can use either the *Vantage_8.2_Client_Application.msi* installer or the *Vantage_8.2.##_Setup.exe* installer to install clients, but don't switch installers later if you make client installation changes.

Installation Overview

The Vantage installer and associated utilities, files, and guides are packaged in a zip file—*Vantage-8.2.zip*—you should have already downloaded it ([Obtaining the Vantage Installation Package](#)). Also see [Vantage Installers Overview](#) for installer details.

The overview and flowchart (below) summarize the main Vantage installation steps with links to detailed procedures. Be sure to follow all steps in this chapter carefully and in sequence from beginning to end.

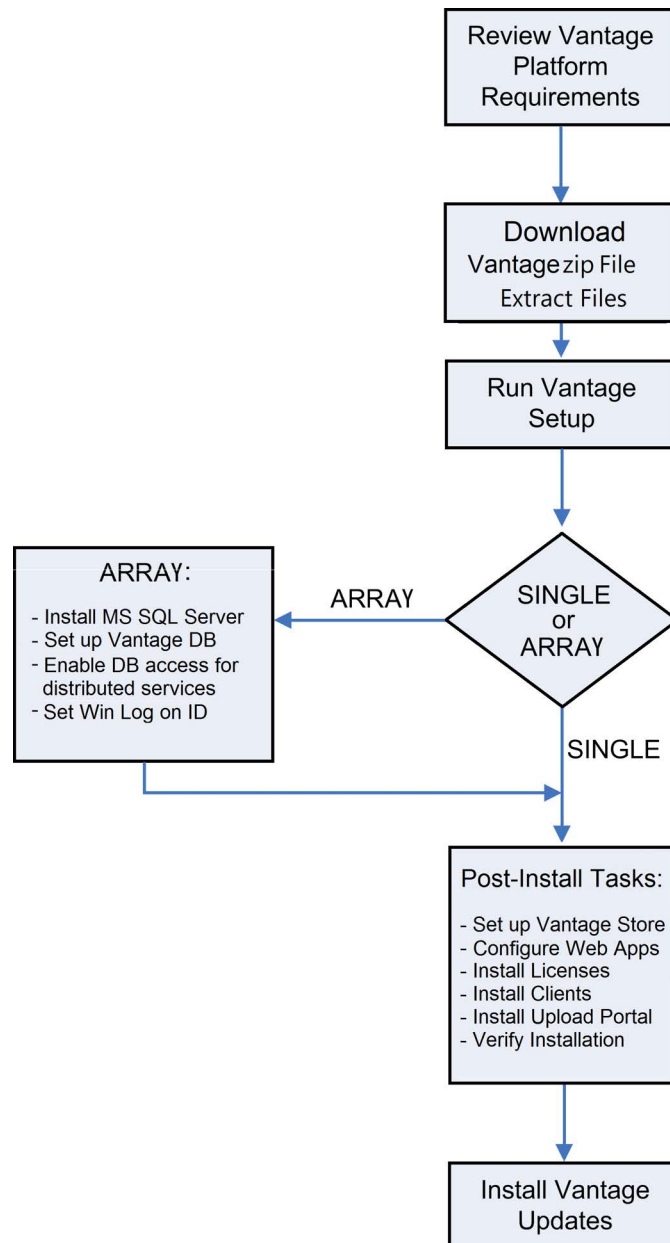
Note: If you are upgrading an existing Vantage installation, skip this chapter and refer instead to this chapter: [Upgrading and Modifying Vantage](#).

See the [Before You Install Vantage](#) chapter in this guide to ensure your hardware, OS, and software meet the Vantage requirements and you have downloaded the Vantage installer package.

To perform a new installation, follow the steps and links below.

1. Copy the Vantage installer package that you downloaded to the target server and unzip it.
2. Run the *Vantage_8.2.##_Setup.exe* installer. See [Extracting and Running the Installer](#) for details.
3. Install the database and install all licensed Vantage components using the installer as explained in one of these two topics:
 - Single computer installation: [Installing Vantage on a Single Node Server](#)
 - Array installation: [Installing a Vantage Array](#)
 - Vantage Cloud Designer installation: [Installing a Vantage Cloud Designer Domain](#)To install product feature groups (recommended) when you run the installer, select *Install Product* and select the product groups for which you have licenses, or to install individual components, select *Custom Install* and select specific components.
4. If installing a new Vantage array, set up database access for distributed services and Windows log on IDs:
 - [Adding Vantage Services](#)
 - [Setting the Vantage Windows Log On ID for Services](#).
5. Continue post-installation tasks: [Post-Installation Steps for Single Nodes and Arrays](#)
 - [Setting Up a Vantage Store](#)
 - [Installing and Configuring Vantage Web Applications](#)
 - [Enabling Vantage Licenses](#)
 - [Installing Client Programs on Client Workstations](#)
 - [Configuring Client DB Access and User Administration](#)
 - [Verifying the Installation](#)

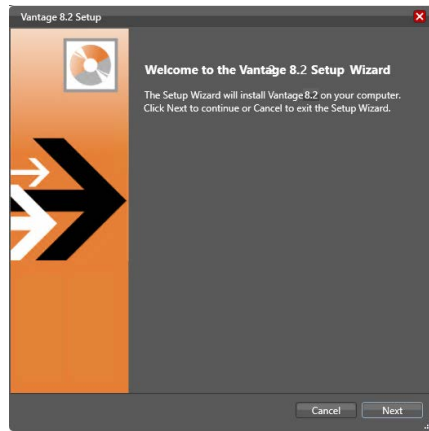
6. Install Vantage updates, if any. See [Updating Vantage Between New Versions](#) in the [Upgrading and Modifying Vantage](#) chapter.



Extracting and Running the Installer

1. See [Vantage Installers Overview](#) for details on obtaining and unzipping the zip file.
2. Run the `Vantage_8.2.##_Setup.exe` installer.

3. Click Next to start installation, then follow the prompts.



When installation completes, the final panel indicates if installation was successful.

4. Click Done to close the installer.

Note: If you extract and copy the setup file away from the ComponentPacs Directory before running it, the installation still succeeds, but no ComponentPacs are installed. If the server is part of a Vantage array, the ComponentPacs are retrieved from another server in the Vantage domain. Additionally, redistributable components are installed from the Internet rather than from the copies in the ComponentPacs Directory.

Installing Vantage on a Single Node Server

An all-in-one Vantage domain is one in which all Vantage server components are installed and operate on a single server (node). The components include the Vantage software and services, the Vantage domain database, and Vantage client programs (Vantage Management Console, Vantage Workflow Designer, Vantage Workflow Portal, and Vantage Dublist Portal). Additional licensed client programs can also be installed separately on client workstations.

Note: A Vantage domain with more than one node is a Vantage Array and requires one Vantage Array license per node. Installation differs for an array. See [Installing a Vantage Array](#) and skip these single node instructions.

The fastest, easiest, and recommended way to install a new Vantage installation on a single node is to follow the steps below to install everything at once.

If you need to update or reinstall specific individual components, follow the instructions in the [Upgrading and Modifying Vantage](#) chapter.

To install all licensed Vantage components on a single server, follow these steps:

1. Log into the target server with a local administrator account, and make sure that virus-checking software and Windows Firewall are off.
2. Run the *Vantage_8.2.##_Setup.exe* installer. See [Vantage Installers Overview](#) for details.
3. In the Welcome panel, click Next to display the license agreement.
4. In the license agreement panel, click I accept the terms in the License Agreement (if you accept the terms), and click Next (or click Cancel).
5. On the Select the type of Vantage system you want to install on panel, select *Single Node Installation* (default) and click Next.
6. Select the type of installation you want to perform: *Install Product(s)* or *Custom Install*. *Install Product(s)* lists products and options in licensed groups, which you can select. *Custom Install* lists every Vantage component and option and allows you to select what you want.
7. In the Install Product(s) or Custom Install display, check the boxes by the components you want to install, and click Next.
At a minimum, you should choose to install the Transcode/Transcode Pro group. If licensed, you may choose multiple options that include additional services, Workflow Designer, and Workflow Portal.
8. Browse to Configure the installation locations for the Installation base, the default Vantage Store, and the Vantage database. Defaults are recommended.
9. In the *Ready to Install* panel, click *Install* to begin product installation. This process takes a few minutes to complete and shows progress and components being installed as it runs. See [Installation Guidances](#) below for details.

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, the installer installs SQL Server 2022 Express. Similarly, if no Vantage database is found, the installer installs a new Vantage database. If the installer locates a Vantage database is found, the installer upgrades it. Upgrading preserves workflows, design items, job history, catalogs, stores, application configurations, user settings and licenses.

10. When installation is complete, the installer displays *Finished*. Click Next.

The dialog displays Installation successful!

11. Click Done to close the installer.

Initial Vantage installation is now complete and these components have been installed:

- Microsoft SQL Server 2022 Express, including Browser, Native Client, Support Files
- Telestream Media Transcoding and Analysis
- Vantage services and clients
- Vantage domain database
- Client shortcuts on the desktop: Workflow Designer, Management Console, Workflow Designer, and Dublist Portal.

If any components failed to install, you can run the installer again—select a Custom Install and check only the components you want to install again.

Installation Guidances

These notes provide additional installation details:

- Depending on the security requirements of your organization's IT department, the default login/password (sa/vantage12!) used by the SQL and Vantage Database installer may be insufficient. In such cases, Telestream recommends using the SQL installer, which allows for specification of a custom user/password, then installing the Vantage domain database with the Database Deployment Utility and providing your custom user/password as specified.
- The fastest workaround for this issue is to unjoin the machine from the domain and then install Vantage as a local Windows user. You may then rejoin the domain after Vantage is installed.
- Telestream recommends that you do not use anti-virus software on Vantage servers. If you prefer to use anti-virus software, identify Vantage as a safe/trusted application. For additional information on using Vantage with anti-virus software, see [Anti-Virus Software Recommendations](#). For more information on using Vantage with the Windows Firewall, see [Firewall Guidelines](#).
- If Intel Performance Primitives (IPP) is not present, the Vantage installer installs it.
- If QuickTime is not installed, the installer downloads and installs it for you if you have an Internet connection. If an outdated version is present or there is no Internet connection, the installer displays a message advising you to install it manually.

The Telestream Transcode and Analysis engine requires QuickTime version 7.6.9. You can use this link to download it: [QuickTime version 7.6.9](#). If you install QuickTime manually, uncheck (disable) *Check for Updates*, so QuickTime is not updated automatically. Then restart the server and re-run *Vantage_8.2.##_Setup.exe* again to continue.

- Microsoft .NET Framework 4.8 is required on Vantage servers, client workstations, and web apps installations. This .NET version is installed automatically by the Vantage or web apps installer on all operating systems, if not already present.
- Microsoft .NET Framework 3.5 SP 1 is also required on Vantage servers that run the general purpose Flip action, but it is not required on other servers or client machines. You install this version manually, using Server Manager on servers that require it. After installation, open Server Manager > Roles > Server Roles, and check Web Server (IIS) to enable it. Then enable the services listed in IIS role service requirements table, in [Installing Vantage Web Applications](#).

Quick Installation Check

At this point, the Vantage installation should be functioning, though not licensed. Double-click the Vantage Management Console icon on the desktop to start it. By default, no login is required. If you enable User Administration under Settings & Options > General to require a login, you can log in with the default user name *administrator* and no password.

Next, continue with the following post-installation tasks: [Post-Installation Steps for Single Nodes and Arrays](#).

Installing a Vantage Array

A Vantage array consists of two or more Vantage components distributed among two or more servers for optimum speed and efficiency. Typically a Vantage array implements the Vantage domain database on one server and the Vantage Services, Transcode Engine, Clients, and Vantage web applications on another server. It is even possible to split Vantage Services and the Vantage Transcode Engine across multiple servers for maximum throughput and to put the web applications on their own server.

To implement a [Vantage domain](#) across multiple servers, specific configurations must be applied to all computers that host any [Vantage services](#) or host the [Vantage domain database](#) for the array.

A Vantage array installation and configuration generally takes from one hour to several hours to install, depending on the complexity (number of servers). To install a Vantage array, perform the tasks in the specified order:

1. [Setting Up SQL Server and the Vantage Domain Database](#)
2. [Installing Vantage Array Components](#)
3. [Adding Vantage Services](#)
4. [Setting the Vantage Windows Log On ID for Services](#)

Note: Each Vantage domain requires one Vantage Array license per server.

Setting Up SQL Server and the Vantage Domain Database

If you are upgrading an existing Vantage installation, you already have SQL Server installed. Skip this step and go to the next step, [Installing Vantage Array Components](#).

Note: 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.

Although you can install and operate the Vantage domain database and Vantage services on the same server (as is done in an all-in-one, single node domain), Telestream recommends that you use a dedicated server for the Vantage array domain database and that you use Microsoft SQL Server Standard instead of SQL Server Express used in single node installations.

To install SQL Server and set up the Vantage domain database, follow these steps:

1. Install SQL server—see [Installing MS SQL Server](#).
2. Install the database—see [Installing the Vantage Database](#).

Installing Vantage Array Components

When SQL Server and the Vantage domain database is installed, you're ready to install the Vantage Array components, including Vantage services, transcoders, and clients. Telestream recommends that you install these components on a different server than your database for maximum operating efficiency.

Note: In a Vantage array, each node that will process Cloud jobs must have the following installed: Vantage, the Cloud Service, the Transcoding Services (IPTV, Post Producer, Transcoder, Analysis, Multiscreen, and Timed Text) and at least one ComponentPac.

Once the associated Vantage service was installed, the job completed successfully.

To install the Vantage components, follow these procedures in the order presented:

1. [Installing Vantage Services, Transcode Engine, and Clients](#)
2. [Adding Vantage Services](#)
3. [Setting the Vantage Windows Log On ID for Services](#)

Installing Vantage Services, Transcode Engine, and Clients

This procedure installs the Vantage services, Transcode & Analysis Engine, Vantage Management Console, and Vantage Workflow Designer on a server. If you prefer, you can divide these components among multiple servers for greater processing efficiency. To do so, select only the components you want to install on the current server when you perform step 7 below.

Note: Vantage installers modify Windows Distributed Transaction Coordinator (MSDTC) properties to meet Vantage services and database communication requirements. This modification is automatic, and requires no action on your part.

To install the Vantage components, do this:

1. Log into the target server with a local administrator account. Make sure that virus-checking software and Windows Firewall are turned off.

Note: Telestream recommends not using anti-virus software on Vantage servers. If you use anti-virus software, you should identify Vantage as a safe/trusted application. Be sure to turn off anti-virus software during Vantage installation or install anti-virus software after installing Vantage.

2. Run the *Vantage_8.2.##_Setup.exe* installer. See [Vantage Installers Overview](#) for details.
3. In the Welcome panel, click Next to display the license agreement.
4. In the license agreement panel, click *I accept the terms in the License Agreement* (if you accept the terms) if you agree, and click Next.

5. Select *Array {Multi-Node}* Installation when the dialog instructs you to “Select the type of Vantage system you want to install.” Then click Next.
6. 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.
7. In the Install Product or Custom Install panel, check the boxes by the components you want to install, and click Next.

At a minimum, you should choose to install the Transcode/Transcode Pro selection. If licensed, you may choose multiple options that include additional services, the Workflow Designer, the Workflow Portal, and web applications.

Note: If Vantage web applications have never been installed and you are not installing them on a Lightspeed server, leave them unchecked in the installer and install them later as explained in [Installing and Configuring Vantage Web Applications](#). If they have been installed before (and IIS is already configured), or you are installing on a Lightspeed server, you can check the installer to install them now.

8. Browse to Configure the installation location for the Installation base.
9. In the Ready to Install panel, click *Install* to begin product installation. This process takes a few minutes to complete and shows progress and components being installed as it runs. See [Installation Guidance](#) below for details.
10. When installation is complete, the progress text displays *Finished*. Click Next.
11. The dialog displays Installation successful! Click Done to close the installer.

This completes the initial Vantage installation. *Vantage 8.2* is now visible in the Control Panel > Programs and Features list, and Vantage should be functional, though not licensed. To test this, launch the Vantage Management Console from its desktop icon.

If any components failed to install, you can run the installer again selecting a Custom Install and checking only the components you want to install again.

Installation Guidance

The following notes provide additional installation details:

- Telestream recommends that you do not use anti-virus software on Vantage servers. If you prefer to use anti-virus software, identify Vantage as a safe/trusted application. For additional information on using Vantage with anti-virus software, see [Anti-Virus Software Recommendations](#). For more information on using Vantage with the Windows Firewall, see [Firewall Guidelines](#).
- If Intel Performance Primitives (IPP) isn't present, the Vantage installer installs it.
- If QuickTime is not installed, the installer downloads and installs it for you if you have an Internet connection. If an outdated version is present or there is no Internet connection, the installer displays a message advising you to install it manually. The Telestream Transcode and Analysis engine requires QuickTime version 7.6.9. You can use this link to download it: [QuickTime version 7.6.9](#). If you install QuickTime manually, uncheck (disable) *Check for Updates*, so QuickTime is not updated automatically. Then restart the server and re-run *Vantage_8.2.##_Setup.exe* again to continue.
- Microsoft .NET Framework 4.8 is required on Vantage servers, client workstations, and web apps installations. This .NET version is installed automatically by the Vantage or web apps installer on all operating systems, if not already present.
- Microsoft .NET 3.5.1 is also required on Vantage servers that run the general purpose Flip action, but it is not required on other servers or client machines. This .NET version must be installed manually using Server Manager on servers that require it. After installation, open Server Manager > Roles > Server Roles, and check Web Server (IIS) to enable it. Then enable the services listed in IIS role service requirements table, in [Installing Vantage Web Applications](#).
- When a service joins a domain, if it is unable to acquire an array license, it remains in maintenance mode and logs an error. See the Vantage Management Console > Support Utilities > Error Log.

Quick Installation Check

No license is required for this type of domain. Double-click the Vantage Management Console icon on the desktop. By default, no login is required. If you enable User Administration under Settings & Options > General to require a login, you can log in with the default user name *administrator* and no password.

Next, continue with post-installation tasks as appropriate: [Post-Installation Steps for Single Nodes and Arrays](#).

Installing a Vantage Cloud Designer Domain

A Vantage Cloud Designer domain is a single node (all-in-one) domain, in which only those Vantage server components are installed and operate on a single server for designing workflows for execution in Vantage Cloud. Workflows are uploaded to Vantage Cloud with the HostedWorkflows Manager in Workflow Designer. After installation, you should add your Telestream Cloud account(s) to the domain via the Vantage Management Console.

No Vantage license is required to use a Vantage Cloud Designer domain.

The components include Vantage software and services, the Vantage domain database, and Vantage client programs—Vantage Management Console and Vantage Workflow Designer.

To install Vantage Cloud Designer components, follow these steps:

1. Log into the target server with a local administrator account, and make sure that virus-checking software and Windows Firewall are off.
2. Copy the *Vantage_8.2.##_Setup.exe* installer to the server, and run the *Vantage_8.2.##_Setup.exe* installer. See [Vantage Installers Overview](#) for details.
3. In the Welcome panel, click Next to display the license agreement.
4. In the license agreement panel, click I accept the terms in the License Agreement (if you accept the terms), and click Next (or click Cancel).
5. On the Select the type of Vantage system... panel, select *Vantage Cloud Designer Installation* and click Next.
6. On the Configure Installation Locations panel, accept the default directories or browse to configure the installation locations for the Installation base, the default Vantage Store, and the Vantage database. Defaults are recommended.
7. In the *Ready to Install* panel, click *Install* to begin product installation. This process takes a few minutes to complete and shows progress and components being installed as it runs. See [Installation Guidances](#) below for details.

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, the installer installs SQL Server 2022 Express. Similarly, if no Vantage database is found, the installer installs a new Vantage database. If the installer locates a Vantage database is found, the installer upgrades it. Upgrading preserves workflows, design items, job history, catalogs, stores, application configurations, user settings and licenses.

8. When installation is complete, the installer displays *Finished*. Click Next.
The dialog displays Installation successful!
9. Click Done to close the installer.

Initial Vantage installation is now complete and these components have been installed:

- Microsoft SQL Server 2022 Express
- Vantage domain database

- Vantage services and Windows clients—Workflow Designer and Management Console
- Windows client shortcuts on the desktop.

If any components failed to install, you can run the installer again—select a Custom Install and check only the components you want to install again.

Installation Guidance

These notes provide additional installation details:

- Depending on the security requirements of your organization's IT department, the default login/password (sa/vantage12!) used by the SQL and Vantage Database installer may be insufficient. In such cases, Telestream recommends using the SQL installer, which allows for specification of a custom user/password, then installing the Vantage domain database with the Database Deployment Utility and providing your custom user/password as specified.
- The fastest workaround for this issue is to unjoin the machine from the domain and then install Vantage as a local Windows user. You may then rejoin the domain after Vantage is installed.
- Telestream recommends that you do not use anti-virus software on Vantage servers. If you prefer to use anti-virus software, identify Vantage as a safe/trusted application. For additional information on using Vantage with anti-virus software, see [Anti-Virus Software Recommendations](#). For more information on using Vantage with the Windows Firewall, see [Firewall Guidelines](#).
- If Intel Performance Primitives (IPP) is not present, the Vantage installer installs it.
- Microsoft .NET Framework 4.8 is required on Vantage servers, client workstations, and web apps installations. This .NET version is installed automatically by the Vantage or web apps installer on all operating systems, if not already present.

Quick Installation Check

No license is required for this type of domain. Double-click the Vantage Management Console icon on the desktop. By default, no login is required. If you enable User Administration under Settings & Options > General to require a login, you can log in with the default user name *administrator* and no password.

Next, continue with post-installation tasks as appropriate: [Post-Installation Steps for Single Nodes and Arrays](#).

Adding Vantage Services

When Vantage services are installed on a server, the installer looks for the Vantage domain database on the server. If the Vantage domain database is present, all services are configured to connect to that domain. If no Vantage domain database is present, the Vantage services are not configured, and you must configure each service to connect to the appropriate Vantage domain.

Note: If you change the Vantage database password, you must update each service's configuration (see [Configuring Vantage Services](#) > Setup tab) to identify the database and credentials so that the services can log in.

To add Vantage services to a Vantage domain, follow these steps:

1. Start the Vantage Management Console by double-clicking its desktop icon, select the domain to manage, and log in.

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

2. Select Services in the component (left) panel.

The Services details (right) panel shows all services on all servers that are connected to the domain you selected.

3. Click the Add Service button  to display the Select Service dialog.

The Select Service dialog lists all Vantage services running in this subnet, and the list includes unassigned services and services running on other Vantage domains.

4. Select one or more services to add to this domain, and click OK to add them.

Services are identified by name, machine or host, and Vantage domain. Make sure that you do not select services that are properly attached to another domain. To select multiple services, use shift-click to select a series of services, or use Ctrl-click to select individual services.

If you are moving a service from one domain to another, the Vantage Management Console displays the Reassign Services window. Click OK to add them to this domain.

Continue now with the next task: [Setting the Vantage Windows Log On ID for Services](#).

Setting the Vantage Windows Log On ID for Services

Note: This topic does not apply to Vantage Cloud Designer domains.

After installation, the default log on ID for each Vantage service is the *Local System account*. This log on ID provides access to files on the local server only. If a service, such as Transcode, requires access to files on another server, the Local System account cannot provide that access. If Vantage services need access to input folders, output folders, or a Vantage store that is on another computer, you must do this:


- Create a Vantage Windows user ID for the service.
- Grant access to the Vantage Windows user ID on the other computers.

For more information, see [Windows Authentication Guidelines](#).

Most Vantage services require a Vantage Windows user ID to access files on other computers.

For services of the same type, the Windows log on ID for that service must be the same on all Vantage servers in the domain. For example, all Analysis services within the domain must use the same log on ID. However, the Catalog service, which does not access files, can remain set to use the Local System account.

To change the log on ID for a Vantage service, do this for that service on each Vantage server in the array:

1. In the Vantage Management Console, click Services in the left panel.
2. Select a service in the list (Shift-click or Ctrl-click to select multiple services).
3. Click the Change Service Logon button  or right-click and select Change Service Log On. A dialog opens, requesting the logon.
4. Select Local System account to use the account currently accessing Vantage from your local machine, or select *This account* and fill in the user name and password for the account that has access to the desired network location.
5. Click OK. A message confirms that the logon is changing.

Note: Changing a service logon restarts that service. Also note, when changing the logon for multiple services simultaneously, some services may not restart properly. If this occurs, go to Start > Services on the server, select the affected services, and click (or right-click) Restart to manually restart the services.

6. Grant file access to the new user on all Vantage servers that the service must access.

Quick Installation Check

Double-click the Vantage Management Console icon on the desktop to launch it. By default, no log in is required. If you enable User Administration under Settings & Options > General to require a login, you can log in with the default user name *administrator* and no password.

Verify the Vantage portal (home page): Enter this URL in a browser directly on the server: *http://localhost/Vantage/*. Or, from another workstation: *http://[server name]/Vantage*.

Next, continue with the following post-installation tasks: [Post-Installation Steps for Single Nodes and Arrays](#).

Post-Installation Steps for Single Nodes and Arrays


This section includes post-installation procedures common to both single node and Vantage array domains. After initial installation is finished, continue with these steps:

- [Setting Up a Vantage Store](#)
- [Installing and Configuring Vantage Web Applications](#)
- [Enabling Vantage Licenses](#)
- [Installing Client Programs on Client Workstations](#)
- [Configuring Client DB Access and User Administration](#)
- [Verifying the Installation](#)

Setting Up a Vantage Store

A Vantage store is a required folder that serves as a temporary location to store media files while Vantage processes them. It is used by the transcoders and the Workflow Portal (including the Workflow Portal web app) and must be in place before you use the domain. A Vantage array installation does not automatically set up a Vantage Store, so you will need to create one now. An all-in-one, single-node installation creates a default storage location at `C:\VantageStore\` and also creates a Vantage catalog. However, you may prefer to set up a more convenient location for processing your Vantage jobs.

To create a Vantage store, follow these steps:

1. If you have not created a Windows share to serve as the Vantage store, create it now and make it available to the Vantage Windows user. For more information, see [Configuring Folders for Vantage Access](#).
2. Open the Vantage Management Console.
3. Click Storage in the left panel to display the Vantage storage options.
4. Select Vantage Stores to display the Vantage Stores list in the details (right) panel.
5. Click the New Vantage Store toolbar button  to open the Add New Store dialog.
6. Type a name for the store in the Name text box.

The name that you enter here is the name that displays in Workflow Designer when an action is configured to access a media file or attachment.

7. To specify the store root directory, do this:
 - a. Click Modify to display the Browse for Folder dialog box.
 - b. Open Network, open the computer name, and then select the root directory for the store.
 - c. Click OK.

You can also type a UNC path in the Location text box. For example, `\\Computer-Name\Sharename`.

Note: If you use a local drive letter to specify a directory, only Vantage services and clients on the same computer can access the store. If the Vantage store is on a different computer, you must publish a share and grant access to the appropriate Windows users before it will appear in the Browse for Folder dialog. For more information, see [Windows Authentication Guidelines](#) in the [Before You Install Vantage](#) chapter.

8. Click the Save button  to save the new store.

Installing and Configuring Vantage Web Applications

Vantage web applications (for Vantage arrays only) provide convenient operator and administrator browser-based access to Vantage without the overhead of running the full Vantage clients. Functions include the Dashboard, Job Status Views, Workflow Portal, Dublist Portal and Live Capture. When planning web apps installation, it is recommended that you run them on a separate server from the Transcoder & Analysis Engine with the firewall enabled, since users may be accessing the web apps remotely.

If you are updating existing web apps, the server is already configured. See [Updating Vantage Web Applications](#) for an abbreviated procedure.

If you are installing web applications for the first time, use the following procedure.

The following topics explain web application installation and configuration:

- [Installing Vantage Web Applications](#)
- [Using Web Apps with Active Directory](#)
- [Managing Web Workflow Portal Client Alias Support](#)
- [Bypassing Database Login](#)
- [Enabling Vantage Licenses](#)

Installing Vantage Web Applications

When installing the Vantage web applications on a server for the first time, the procedure is different for Lightspeed servers and standard servers:

- Standard servers—You must set up IIS first. If IIS is already installed, you must create the configuration that supports Vantage web applications. Start at [Step 1](#) below.
- Lightspeed servers—Lightspeed servers ship with IIS properly installed. There is no need to set up IIS on a Lightspeed server. Skip the steps below and see [Updating Vantage Web Applications](#) for an abbreviated installation procedure.

To install IIS and the Vantage web applications, follow these steps:

1. Log on to the target server with a local administrator account.
2. If you are installing on a Lightspeed server, skip to [Step 1](#).
3. Verify that your IIS server and .NET framework requirements are met (also see [Vantage Web Applications](#)):
 - IIS 10.0 or later is required.
 - .NET 4.8 is required.

Note: .NET 4.8 is installed by the web apps installer if it is not already present.

4. Install and/or configure IIS on the target server:
 - a. Open the Control Panel Administrative tools, and open the Server Manager.
 - b. Make these selections to install and configure:

Install—Server Manager > Local Server > Roles and Features > Add Roles & Features.

 - Installation Type: Role-based or feature based installation > Next.
 - Server Selection: Select a server from the server pool > LOCAL SERVER > Next.
 - Server Roles: Web Server IIS + Management Tools > Add Features > Next.
 - Features: Accept default setting > Next.

Configure—Role Services: Enable services listed in the following table and click Next.

 - Confirmation: Click *Specify an alternate source path* and enter the path of the SxS folder located in the Sources folder on the Server 2016 installation disk (example: D:\sources\sxs).
 - Click Install, and after installation finishes, press Close.

| Service | Install/Select | Uninstall/Deselect |
|-------------------------|--|--|
| Common HTTP Features | Static Content Default Document Directory Browsing HTTP Errors | HTTP Redirection WebDAV Publishing |
| Application Development | .NET Extensibility 4.5/4.6 For Windows Server 2019: .NET Extensibility 4.7 For Windows Server 2022: .NET Extensibility 4.8 ASP.NET 4.5/4.6 For Windows Server 2019: ASP.NET 4.7 For Windows Server 2022: ASP.NET 4.8 ISAPI Extensions ISAPI Filters | .NET Extensibility 3.5 Application Initialization ASP ASP.NET 3.5 CGI Server Side Includes WebSocket Protocol |
| Health and Diagnostics | HTTP Logging Request Monitor | Logging Tools Tracing Custom Logging ODBC Logging Tracing (2016) |
| Security | Request Filtering | Basic Authentication Windows Authentication Digest Authentication Client Certificate Mapping Authentication IIS Client Certificate Mapping Authentication URL Authorization IP and Domain Restrictions |
| Performance | Static Content Compression | Dynamic Content Compression |

| Service | Install/Select | Uninstall/Deselect |
|-----------------------|---|--|
| Management Tools | IIS 6 Management Console IIS 6 Management Compatibility IIS 6 Metabase Compatibility IIS 6 WMI Compatibility IIS 6 Scripting Tools IIS 6 Mgmt. Console | IIS Management Scripts and Tools Management Service |
| FTP server | | FTP server FTP Service FTP Extensibility |
| IIS Hostable Web Core | | IIS Hostable Web Core |

1. Run the *Vantage_8.2.##_Setup.exe* installer to begin web apps installation. Choose an Array > Custom installation, and check the box to install only the web applications (all else unchecked).
 Alternatively, you can run the separate *VantageWebApplicationsSetup.exe* installer.

Note: Ideally, you should install Vantage web apps on a different server from any of the services which perform transcoding. However, you can put both on a single node if necessary. **Also note:** Run the web apps installer after you have installed all other Vantage components. Running the *Vantage_8.2.##_Setup.exe* installer after the web apps installer removes the web apps.

2. In the Welcome panel, click Next.
3. Click *I accept...* to accept the license terms after reading them, and click Next (or click Cancel if you do not agree to the license terms).
4. In the Select Installation Address panel, click Next to accept the default configuration or change as required and click Next.

Note: You should not change the Application Pool default value: *DefaultAppPool*.

5. Click Install to begin installation and follow the installation steps to completion.
6. In the Installation Complete panel, click Finish.
7. If Vantage services were running before the Vantage web applications installation, restart them using Microsoft Services (Start > Administrative Tools > Services).
8. Provide the Vantage web applications login requirements to each of your Vantage users, so that they know how to access them. The URL for the Vantage web applications is: *http://[hostname]/Vantage* where [hostname] is the server where you installed them.

Note: For information on the browser requirements for Vantage web applications, see [Vantage Web Applications Browser Requirements](#).

Note: If your installation uses the Workflow Portal web application, configure support for this program as described in [Managing Web Workflow Portal Client Alias Support](#).

Using Web Apps with Active Directory

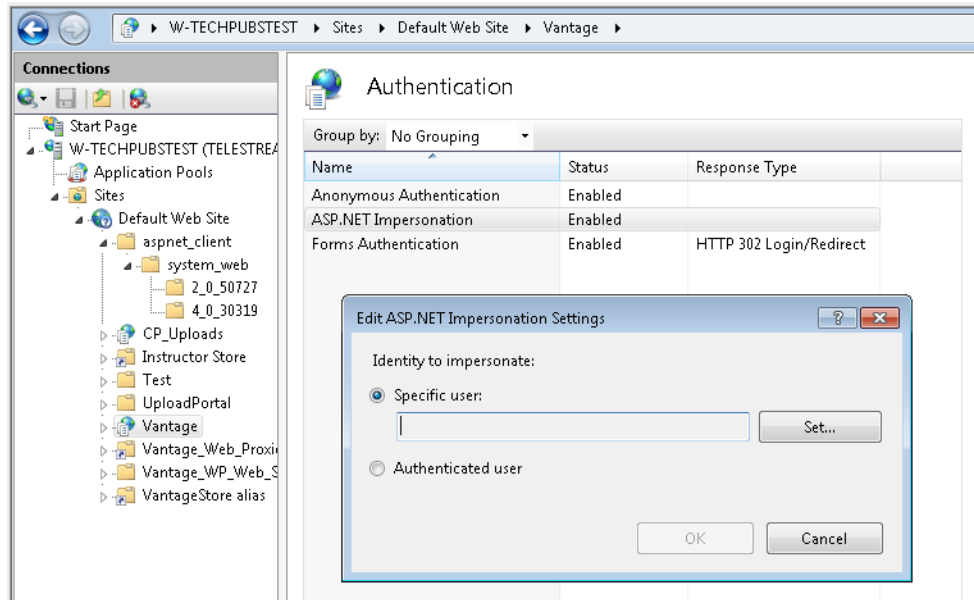
If you are using Vantage with Active Directory enabled in Vantage Management Console Settings & Options, you may receive a server error message when you attempt to log into Vantage web apps. To resolve this issue, you should set up IIS for *ASP.NET Impersonation*.

ASP.NET Impersonation assigns one special account as the authentication account for web apps with all necessary privileges and allows Vantage users to log in using that account. For example, you might create the Windows account called *WebAppsUser* on the server where the web apps are installed. You then assign that user the desired Windows permissions, which must include assignment to the local administrators group. Finally, set up impersonation as described below. With impersonation operating, when Vantage users access the IIS server to run the web apps, IIS substitutes the credentials from the special account to log them into IIS and allow access to the web apps.

To set up ASP.NET impersonation for the web apps, follow these steps:

1. Create a Windows Active Directory account *with local administrator privileges* to act as the impersonator on the IIS server where the web apps are installed.
2. Click Start and enter IIS in the Search Programs field. Then select Internet Information Services Manager from the list of search results.
3. In the IIS Connections panel, expand the top tier (hostname), expand Sites, Expand Default Web Site, and click Vantage.
4. In the IIS group under Vantage Home in the center panel, double-click Authentication. The Authentication panel opens.
5. Right-click ASP.NET Impersonation, and select Enable. The state of this feature changes to Enabled.
6. Right-click ASP.NET Impersonation, and select Edit.
7. Select Specific User, and click Set....
8. Fill in the User Name and password for the Active Directory user created in step 1 to use for logging into the web apps, and click OK.

Now when authorized Vantage users log into the web apps, IIS impersonates the local admin user you specified and allows the Vantage users web apps access.



Managing Web Workflow Portal Client Alias Support

The Vantage Workflow Portal web app requires HTTP access to Vantage stores for viewing of proxy media files using the automatically installed HTML5 Video Player on client computers. If your Vantage installation does not use the Workflow Portal web client, or if operators will not be using the Workflow Portal web client to view proxy files, you do not need to configure alias support.

Providing HTTP access to Vantage stores for proxy viewing requires the following:

- Create and configure a virtual directory on the IIS server that references the Vantage store. A virtual directory must be created for every store that will store proxy files for the Workflow Portal web application.
- Create and configure a Vantage alias for the virtual directory.
- Create and configure a Workflow Portal configuration using the Vantage Management Console to support operator management.
- Install the HTML5 Video Player on computers that will view proxy media files using the Workflow Portal web application. This happens automatically when you install the Vantage web applications including the Workflow Portal web app.

The following topics describe how to manage an alias for a Vantage store:

- [Creating an IIS Virtual Directory](#)
- [Creating an Alias for Each Vantage Store in the Vantage Management Console](#)
- [Modifying an Alias](#)
- [Deleting an Alias](#)

Creating an IIS Virtual Directory

For detailed instructions to create an IIS virtual directory, refer to the Microsoft IIS product documentation. The following procedure provides an example of how to configure a virtual directory on an IIS server:

1. If not already installed, install the Vantage web applications as described in [Installing and Configuring Vantage Web Applications](#).
2. On the server that hosts the Vantage web applications, select Start > Administrative Tools > Computer Management.
3. In the left panel of the Computer Management window, expand Services and Applications and select Internet Information Services (IIS) Manager.
4. In the Connections panel, expand the server entry, and expand the Sites entry.

Note: In some situations, adding or removing a virtual directory causes web Dashboard sessions to close. This does not change the web Dashboard configuration or operation. Web Dashboard users can simply restart the program.

5. Right click Default Web Site and select Add Virtual Directory.

6. Configure the virtual directory as follows:

a. Enter an Alias name for the virtual directory.

Consider using a name that is easy to associate with the Vantage store directory, and note this name, as you will need to use it to create a Vantage alias.

b. Type the path to the Vantage store directory in the *Physical path* text box, or click the browse button to the right of the text box and select a directory.

For an all-in-one domain, the path to the default *Local Store* is C:\VantageStore. The default path works only when the store and the Vantage web applications are located on the same server.

If your Vantage store is located on a network attached storage device or other network accessible location, enter the UNC path to the location (for example, //myserver/myStore/).

c. Click *Connect as*, click *Specific user*, and click *Set*.

d. Enter user name and password information for a Windows user with access to the Vantage store directory, and click OK twice.

If required, the user name should include a domain name. For example, user@domain.net or VantageGuru@MyCompany.net. You can also enter <domain>\user.

Note: If you are operating in a Windows workgroup, the IIS server machine name and the machine name of the file share for the Vantage store should have the same local account name (VantageUser, for example) and password. This allows for easy authentication from IIS to the Vantage store location. In this case, the user name in the Set Credentials window can be specified simply as VantageUser.

e. Click *Test Settings*.

The Test Connection dialog should show that the Authentication and Authorization tests passed.

f. Click *Close*.

g. Click *OK* to complete the virtual directory configuration.

The virtual directory should now display in the Computer Management window as a folder below the web site you modified.


h. Repeat this procedure for all Vantage stores that will store proxy files for use with the Workflow Portal web application.

Creating an Alias for Each Vantage Store in the Vantage Management Console

After you create virtual directories for your Vantage stores, you need to create a Vantage alias in the Vantage Management Console for each Vantage store that will store proxy files:

1. Start the Vantage Management Console, select the domain to manage, and log on.

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

2. Select Storage in the left panel, and Vantage Stores in the main panel.
3. Create a new store or click an existing store in the Vantage Stores list.
4. In the Alias field, enter the virtual directory alias you created in the previous procedure: *http://[IIS hostname]/Virtual Directory*.
5. Click the Save button  to save the changes.
6. Repeat this procedure for all Vantage stores that will store proxy files for use with the Workflow Portal web application.

Modifying an Alias

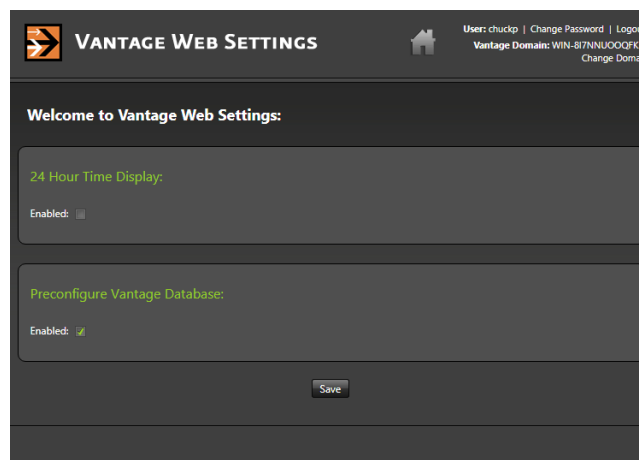
After you have created an alias, you can modify the alias path by simply typing in the Alias field and saving the changes.

Deleting an Alias

To delete an alias, select the alias path in the Alias text box, press Delete, and save.

Bypassing Database Login

To keep database credentials secure and simplify operator login, an administrator can configure operator accounts to automatically log into the database without showing the login and password. To configure this option, log in as an administrator, select Settings, check Preconfigure Vantage Database, and click Save:



Enabling Vantage Licenses

If you are implementing Vantage in a new production environment or you did not back up your previous database, enable your new licenses now using this procedure. If you have not yet obtained a license or if you need additional licenses, contact Telestream.

The following topics describe Vantage license installation:

- [Installing a Vantage License](#)
- [Activating a Vantage License Offline](#)
- [Troubleshooting License Installation Problems](#)
- [Resolving a DEP Conflict](#)


Note: A Vantage domain with two or more nodes requires one Vantage Array license for each node. Additional licenses are required to activate optional features.

Installing a Vantage License

Note: You should remove a license from one domain before you use it in another domain—you cannot use the same license in more than one domain at a time.

Note: Also note that you can install demo licenses as described below or by using the Workflow Designer *File > Add/Update Demo License...* menu selection. See the *Vantage User Guide* for details.

When you receive a license (an XML file), install it using these steps:

1. Store a copy of the license file in a safe place.
Always keep a backup in case you need to move the database later.
2. Store a copy of the license file in a location that is accessible to the server where you are installing the license, and note the directory where the file is stored.
3. Start the Vantage Management Console—double-click its desktop icon.
4. In the left panel, select Licenses.
5. In the right panel, click the Add/Update a license button  in the toolbar to display the Add/Update License dialog.
6. Navigate to the folder containing the licenses, select the licenses, and click Open.
If this computer has an Internet connection, Vantage prompts you to accept the license agreement. If Vantage displays an error message, see [Troubleshooting License Installation Problems](#).
7. Click *I Accept...* if you agree to the license terms, and click OK.
8. In the Licensing Changed panel, read the message and click OK.
9. Repeat this procedure to install additional licenses.

When installation completes, the license is stored in the Vantage domain database for use by all Vantage services and clients in the domain. Telestream recommends that you archive a copy, in case you need to move the license to another Vantage domain later.

Activating a Vantage License Offline

If the computer has no Internet connection, an error message displays, indicating the problem. The Vantage Management Console might not have access to the Internet, or the network firewall might be prohibiting web server (HTTP) traffic.

You can activate the Vantage license yourself using a different computer, or you can call Telestream Customer Service and they will assist you to activate your license.

To activate your license with a different computer, do this:

1. Click Cancel to continue. Vantage displays the product activation dialog.
2. Click the option to activate using a different computer and click Next.
Vantage displays a dialog to activate using another computer, including the installation ID for your license.
3. Click Save and create a text file that contains the activation key.
4. Save this file locally and copy this file to a computer with Internet access or save it directly to a share on (or accessible to) a computer which has Internet access.
After saving the file, leave the dialog open and proceed to the computer with Internet access to validate the Installation ID.
5. On the computer with Internet access, open a web browser and navigate to the URL listed in the Offline Activation Required dialog.
6. Open the installation ID text file and copy and paste the Installation ID into the Installation ID field on the web page.
7. Click Submit – Vantage connects to the licensing server.
The licensing server validates the installation ID and returns a page displaying your unique activation key composed of ten groups of numbers and letters.
8. If your Vantage server is not immediately adjacent, print this page or write down the activation key.
9. Return to the Vantage server you wish to activate, enter the activation key in the licensing dialog, and activate the license.
The activation key should be accepted and the Vantage license activated, as confirmed by a dialog.

Troubleshooting License Installation Problems

These are common problems that might occur during license installation:

- General licensing engine failure—the licensing server may be momentarily unavailable; wait one to two minutes, and then repeat the license procedure.
- No Internet connection—see [Activating a Vantage License Offline](#).
- Data Execution Prevention (DEP) conflict—see [Resolving a DEP Conflict](#).

Resolving a DEP Conflict

If Vantage displays an error saying that licensing cannot run with *Data Execution Prevention* enabled, follow these steps:

1. Right-click My Computer to display the System Properties dialog.
2. On the Advanced tab, click the Performance Settings button to display the Performance Options window.
3. On the Data Execution Prevention tab, check *Turn on DEP for all programs and services except those I select*.
4. Click Add and navigate to the Vantage Management Console executable:
(C:\Program Files (x86)\Telestream\Vantage\VantageManagementConsole.exe).
5. Click Open, and click OK to apply this change.
6. Click OK to restart the computer and activate the license.

The activated license is stored in the Vantage domain database for use by Vantage services in this domain.

Note: If you move your Vantage domain database to another server, remove your license to deactivate it, and then import it and activate it again in the new database. Be sure to keep your license file (XML) as a backup.

Installing Client Programs on Client Workstations

The Vantage client Windows programs include the Vantage Management Console, Vantage Workflow Designer, Workflow Portal, and Dublist Portal. These are installed on the Vantage server during initial installation, but they may also be installed on other workstations for use by administrators, workflow designers, and operators.

To install the Vantage client programs on a workstation, do this:

1. Log into the target workstation with a local administrator account, and make sure that virus-checking software and Windows Firewall is off.
2. Copy the *Vantage_8.2.##_Client_Applications.msi* installer or the *Vantage_8.2.##_Setup.exe* installer to the workstation where you want to install the clients, or make the installer available on a network share.

Note: Installers should not be mixed. Use the same installer for all subsequent client installation changes. Mixing installers may produce unexpected results. Also note that the Vantage Setup installer uses considerable storage for the zipped and unzipped files. If space is limited on your client workstations, use the Client Applications installer.

3. Double-click the installer program to run it.
4. In the Welcome panel, click Next to display the license agreement.
5. Read the Vantage Software License Terms and Conditions, click *I Accept...* if you agree to license terms, and click Next.
6. If using *Vantage_8.2.##_Client_Applications.msi* (downloaded from the Telestream website Vantage download section) as a zip file...
 - a. Select which client apps to install.
 - b. Select where to install and click Next.
 - c. Skip to [Step 8](#).
7. If using *Vantage_8.2.##_Setup.exe...*
 - a. Select Single Node or Array Node installation and click Next.
 - b. Select Custom Install, Client Applications, and click Next.
8. In the Ready to Install panel, click Install.
9. When installation completes, click Finish to close the installer.

Updating VOD DAI Workflow Portal Configurations

The VOD DAI Workflow Portal provides variables for Group Contiguous Ads and Enable Local Column Headers. Local Ad Descriptors are also included.

To make use of these features, portal configurations created with versions prior to Vantage 7.2 must be recreated in Vantage 8.2. VOD Workflow Portal project files should also be recreated with Vantage 8.2 (if the Vantage 6.3 customer-only VOD DAI Local Ad Portal patch has not been applied) to make use of Local ad descriptors.

If you don't recreate configurations and project files from prior to 7.2, existing portal configurations and project files will continue to operate as before, but the current features will not be available.

Configuring Client DB Access and User Administration

The Vantage client and web applications connect to the Vantage database using the system administrator (sa) role by default. To provide greater security, you may want to create additional SQL roles for users that have a lower level of control. Additionally, you can restrict access to Vantage by enabling user administration and creating user accounts.

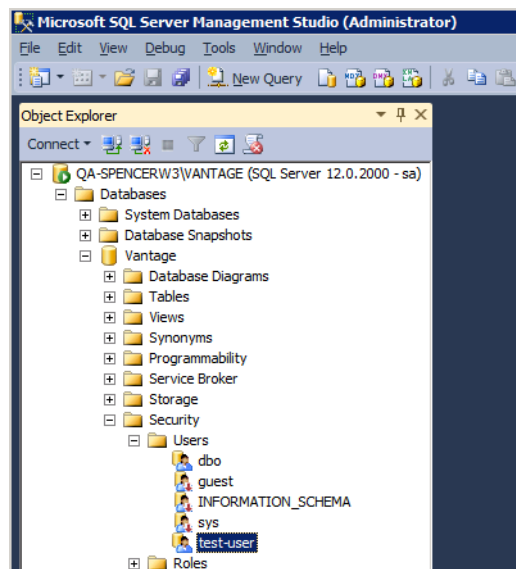
The following procedures explain how to set up client database roles and Vantage user accounts.

Configuring Vantage DB Users

To create a new user for logging into the Vantage database, follow these steps:

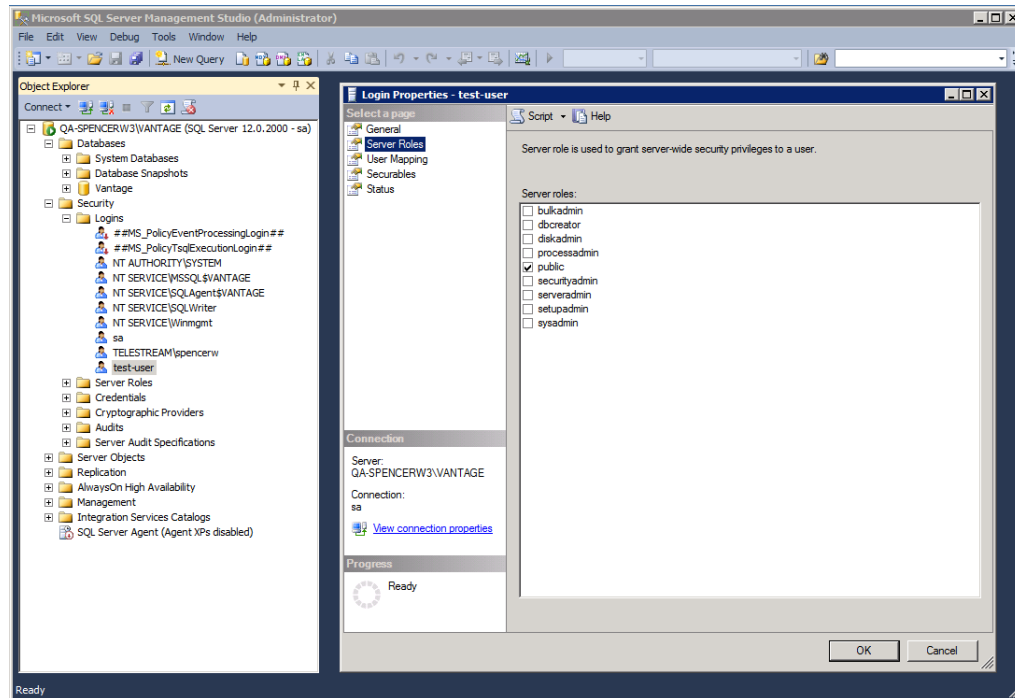
1. Launch the SQL Server Management Studio on the Vantage database server.
2. In Object Explorer, access Databases > Vantage > Security.
3. Right-click New and select User.
4. In the new user dialog box General page, select a user type and enter a login, password, and select other options.
5. Click OK when finished.

The new user now displays in the Users list:



6. Expand Security, and expand Logins.
7. Right-click the new user and select Properties.

8. In the Login Properties window, go to Server Roles and enable public. Click OK.

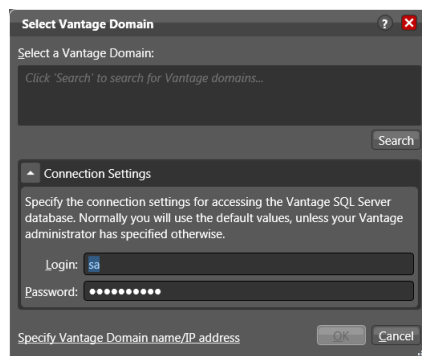


The next step is to move to the client host and save the same user login and password for the client apps to use when logging into the Vantage database.

Configuring Client Login Connection Settings

To configure client apps to use the new client login to the database, follow these steps:

1. Open a client or web app and select (File >) Change Vantage Domain.
2. Click Search and select the Vantage domain from the list of domains.
3. Click the Connection Settings drop-down menu.
4. Enter the client database user and password in the Login and Password fields
5. Click OK.
6. Repeat these steps for each client application.



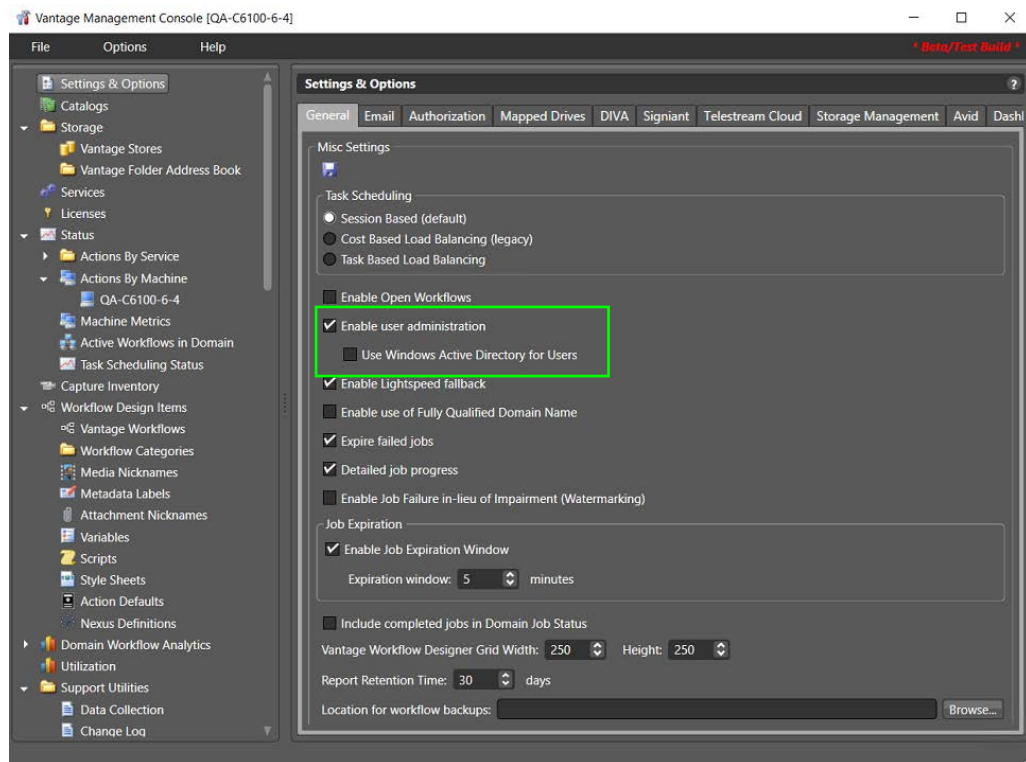
Enabling User Administration

The Vantage User Administration feature is disabled by default, so no login is required to use Vantage client apps. If you want to improve security by requiring a Vantage login, follow these steps:

1. Open the Vantage Management Console.
2. Select Settings and Options in the left panel.
3. Select the General tab.
4. Check Enable User Administration.
5. Check Use Windows Active Directory for Users if you want to use Windows logins for accessing Vantage. Leave this option unchecked to create unique Vantage user accounts for each user.

If Active Directory is enabled, ASP.NET Impersonation configuration is required, as documented earlier in this chapter under [Using Web Apps with Active Directory](#).



See *Managing Users* in the Vantage Management Console Help system for more information.

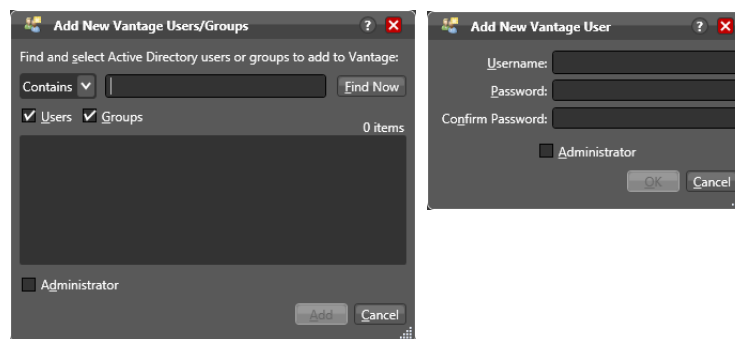


Next, continue in the Vantage Management Console to create user accounts as explained in the next topic.

Creating Vantage Users

If you enabled Vantage User Administration, create users as follows:

1. Click the New User button  or right-click and select *New User*.
2. For Windows Active Directory, search for and select a user. For a Vantage user account, enter the username and password (and confirm the password).
3. Check the Administrator check box if you want the new user to be an administrator.
4. For non-administrators, check User cannot change password, if you want to protect the password from being changed by the user.
5. Click OK or Add to add the user, and then click *Save*  to save your changes.
6. Repeat this process to create as many Vantage users as you need.



This completes the process of setting up clients and web apps for database and user access. Now when you start a client or web app, the client app will log into the Vantage database with the database user account you created with public privileges. Then the app will ask the user to log into Vantage with their Vantage or Windows Active Directory user account. This configuration provides a better level of security than the default settings.

Verifying the Installation

At this point in the installation, you should have a fully installed, fully functioning Vantage domain. Before installing updates or doing further system configuration, do a thorough check of all domain components to verify they are fully operational.

Launch the following desktop shortcuts to make sure they are working:

- Vantage Management Console
- Vantage Workflow Designer
- Vantage Workflow Portal
- Vantage Dublist Portal
- Vantage Web Apps—use a browser to access this URL:
`http://[server name]/Vantage/`

Testing the domain at this point assures you that everything has been installed correctly or allows you to pinpoint any components that need reinstalling or configuring.

Once your system is known to work correctly, you can proceed to the next topic, installing updates. If any problems develop after updating, you will know that the update caused the problem, and you can focus on resolving the problem with the update.

Note: Existing workflows do not require updating to run as they did on the earlier Vantage release. However, new options in actions do not display automatically and are not usable until you upgrade each action as described in the *Vantage User Guide*.

Note: Automatic Windows and software updates and automatic restarts of Vantage servers should be disabled. Schedule update installation and system restarts only during planned maintenance periods to prevent disruption of Vantage operations.

Command Line Installation

Vantage includes the capability of installing from the command line, either attended (full UI) or unattended (silent, no UI). For example, system administrators may wish to install Vantage on multiple servers of an array by using an unattended command line installation mode that does not require you to answer any questions or manually select any options. Alternatively, you can initiate an attended full UI installation from the command line as well.

Note: Unattended (silent) installation is intended for installing on array nodes that do not include the database or QuickTime, since the database and QuickTime cannot be installed using this mode.

The Vantage 8.2 zip file consists of the Vantage Setup file along with other components, including ComponentPacs. When you unzip this file, it extracts the installation and supporting files to a directory of your choosing.

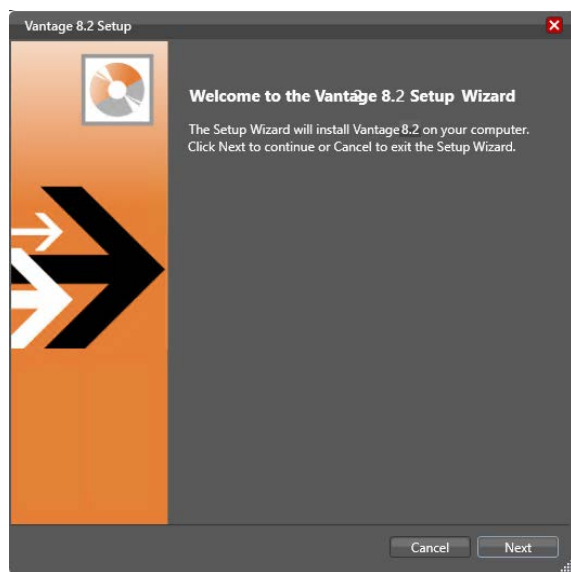
The extracted directory contains a number of directories and files. These include:

- The *ComponentPacs* directory which contains required Vantage ComponentPacs.
- The *tools* directory which contains the Vantage Database Deployment utility.
- The *Vantage_8.2.##_Setup.exe installer*; the main Vantage installation program.

Extracting and Running the Installer

1. See [Vantage Installers Overview](#) for details on obtaining and extracting the zip file.
2. Open a command prompt.
3. Enter a command to run the installer *Vantage_8.2.##_Setup.exe*:

```
C:\> Vantage_8.2.##_Setup.exe -sp"/install /passive InstallFeatures=ClientFeatures"
```



4. Click Next to start, and follow the prompts to complete the installation. Refer to [Installing a Vantage Array](#) for installation details.

Vantage Setup Installer Commands

Use these topics to perform command line installation of Vantage.

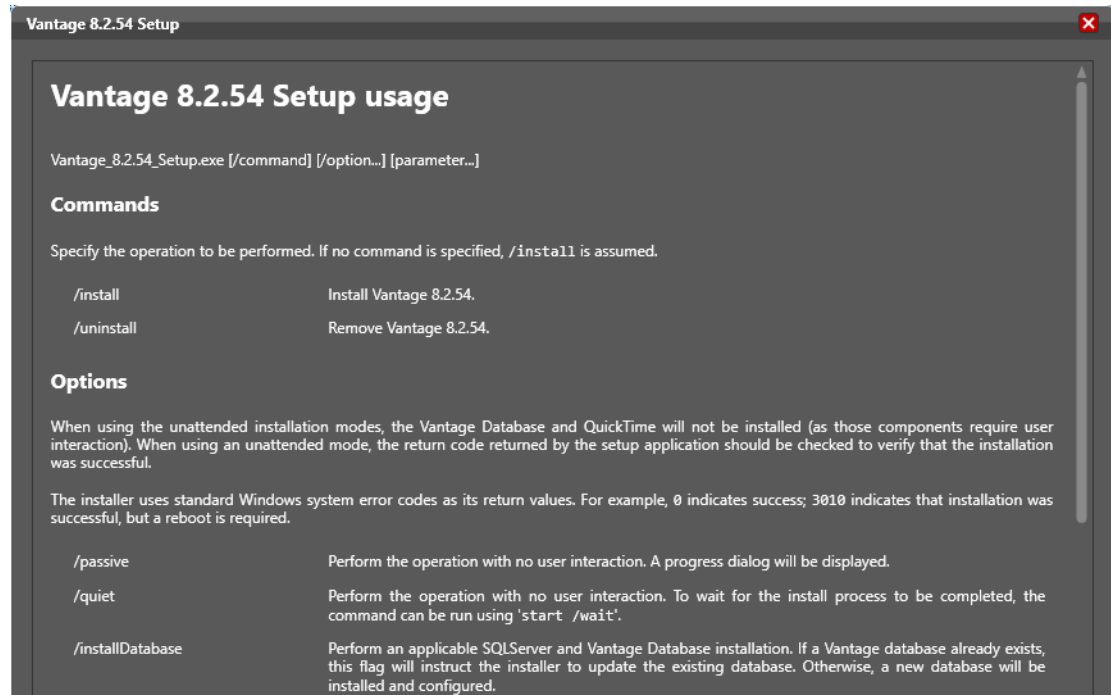
Unpack the installer zip file and run commands with the setup executable manually to control installation separately from extraction.

Help Command

To display the Vantage Setup command list after extraction, open a command window and execute this example help command, where the setup executable is directly on the C root:

```
C:\> Vantage_8.2.##_Setup.exe /?
```

The executable displays this window (the build number—8.2—will have a different suffix than presented here), which lists all of the commands, options, parameters and feature keywords:



Command Syntax

Commands follow this pattern:

```
<path><Vantage_Setup_Filename> /<Option> <Parameter=Value>
<parameter=Value;Value>
```

The path to the executable file is first, followed by no space and the executable name. Next comes a space and a slash, followed by no space and an option. After the option come any parameters, separated by spaces. Multiple features (Values) for a single parameter are separated by a semicolon.

Command Examples

Example 1. Unattended installation of all Vantage services but no client apps:

```
C:\Vantage_8.2.##.#####_Setup.exe /quiet
InstallFeatures=FacilityFeatures
```

Example 2. Start attended full UI installation with customer service credentials:

```
C:\Vantage_8.2.##.#####_Setup.exe /install
ServiceAccount=MyDomain\DomainUser ServicePassword=passphrase
```

Replace the ServiceAccount and ServicePassword credentials above with the local or domain user account credentials that the services run under.

Example 3. Unattended installation of all services and clients:

```
C:\Vantage_8.2.##.#####_Setup.exe /quiet  
InstallFeatures=VantageFeatures
```

Example 4. Unattended installation of clients only:

```
C:\Vantage_8.2.##.#####_Setup.exe /quiet  
InstallFeatures=ClientFeatures
```

Example 5. Unattended installation of web applications:

```
C:\Vantage_8.2.##.#####_Setup.exe /quiet InstallFeatures="Web  
Applications"
```

Note that quotation marks are required above and below because of the space between words.

Example 6: Unattended installation of clients and web apps:

```
C:\Vantage_8.2.##.#####_Setup.exe /quiet InstallFeatures="Web  
Applications;ClientFeatures"
```

Examples of Installing Vantage Services for a Local User

These examples illustrate how to install Vantage services via the command line for a specific local user in a workgroup.

To install Vantage services that use a specific local account:

1. Use the *ServiceAccount* and *ServicePassword* parameters in the command line.
2. Add the following to your command line:

```
ServiceAccount=hostname\User ServicePassword=password
```
3. Edit the values <hostname> and <password> as required for your installation.

See the following examples for specific commands using the steps above.

Example 1. Install Vantage clients, services, and files to the default locations without a database.

- Services use the local administrator in this example to login.
- Modify the *ServiceAccount* and *ServicePassword* values as required:

```
C:\Temp>Vantage_8.2.##_Setup.exe /install /quiet InstallFea-  
tures=VantageFeatures ServiceAccount=hostname\administrator  
ServicePassword=admin
```

Example 2. Install Vantage services and files to the default locations without a Vantage database. Vantage client applications will not be installed.

- Services use the local administrator in this example.
- Modify the *ServiceAccount* and *ServicePassword* values as required:

```
C:\Temp>Vantage_8.2.##_Setup.exe /install /quiet InstallFea-  
tures=FacilityFeatures ServiceAccount=hostname\administrator  
ServicePassword=admin.
```

Example 3. Install Vantage services, Vantage files, and the Vantage database to the default locations. Vantage client applications are not be installed.

- Services use the local administrator in this example.
- Modify the `ServiceAccount` and `ServicePassword` values as required:

```
C:\Temp>Vantage_8.2.##_Setup.exe /install /quiet /installdata-  
base InstallFeatures=FacilityFeatures ServiceAccount=host-  
name\administrator ServicePassword=admin
```

Example 4. Install Vantage services, Vantage files, the Vantage database, and Vantage client applications to the default locations.

- Services use the local administrator in this example.
- Modify the `ServiceAccount` and `ServicePassword` values as required:

```
C:\Temp>Vantage_8.2.##_Setup.exe /install /quiet /installdata-  
base InstallFeatures=VantageFeatures ServiceAccount=host-  
name\administrator ServicePassword=admin
```

Example 5. Install Vantage services, Vantage files and client applications to the default locations. The database is installed to the location defined by `DatabaseDir`.

- Services use the local administrator in this example.
- Modify the `ServiceAccount` and `ServicePassword` values as required:

```
C:\Temp>Vantage_8.2.##_Setup.exe /install /quiet /installdata-  
base DatabaseDir=D:\SampleDatabaseDir InstallFeatures=Vantage-  
Features ServiceAccount=hostname\administrator  
ServicePassword=admin
```

Example 6. Install Vantage services and files to the default locations. The database is installed to a location defined by `DatabaseDir`. Client applications are not installed.

- Services use the local administrator in this example.
- Modify the `ServiceAccount` and `ServicePassword` values as required:

```
C:\Temp>Vantage_8.2.##_Setup.exe /install /quiet /installdata-  
base DatabaseDir=D:\SampleDatabaseDir InstallFeatures=Facility-  
Features ServiceAccount=hostname\administrator  
ServicePassword=admin
```


Upgrading and Modifying Vantage

This chapter explains how to upgrade an existing Vantage installation from a prior version, how to update components, and how to modify an installation.

Topics

- [Upgrading from a Previous Version](#)
- [Installing the Upgrade](#)
- [Updating Vantage Between New Versions](#)
- [Using ComponentPac Management to Update Actions](#)
- [Updating Individual Components](#)
- [Moving the Vantage Domain Database](#)
- [Adding a Server to a Vantage Domain](#)
- [Adding a Lightspeed Server to a Vantage Domain](#)

Upgrading from a Previous Version

To upgrade Vantage from any prior version, follow this procedure to uninstall all components except the domain database before installing the new version:

1. Back up your Vantage database by using the Vantage Management Console Domain Management/Backup feature. You may also want to export all workflows, categories, nicknames, labels, variables, scripts, and other custom components.
2. Log into Vantage Workflow Designer Domain Job Status and stop all jobs or allow all jobs to complete.
3. Close all Vantage client programs and web applications using this domain.
4. For each computer with Vantage client programs installed in this domain, log in with a local administrator account and perform the following steps:
 - a. Open Control Panel > Programs and Features > Uninstall Programs.
 - b. Select Vantage Client Applications (if present) and click Remove or Uninstall.
 - c. Uninstall all Vantage update packs that are installed: Select each Vantage update pack in reverse sequential order (latest to oldest), and click Remove or Uninstall. Perform this step for all installed update packs.
5. On the server hosting Vantage web apps, use the Control Panel uninstall tool (see [Step 4](#)) to select Vantage Web Applications and click Remove or Uninstall.
6. On the servers hosting the Telestream Media Transcode and Analysis engine, log in with a local administrator account and follow these steps:
 - a. Select Start > Administrative Tools > Services to display the Services window.
 - b. Right-click and select Stop for the following services: Vantage Analysis service and the Vantage Transcode service.
 - c. In the Control Panel uninstall tool (see [Step 4](#)), select Telestream Media Transcoding & Analysis Engine and click Remove or Uninstall.
7. On the Vantage database server log in with a local administrator account, and using the Control Panel uninstall tool (see [Step 4](#)), follow these steps:

Note: Subsystems (IPP, QuickTime, etc.) that have been installed during Vantage installation are not removed, and Vantage domain data and media you have created are not removed.

- a. Select Vantage and click Remove or Uninstall. This removes Vantage, but your Telestream folder, including your Database folder and files, remain in place so your Vantage configuration is preserved.
- b. Leave MS SQL Server in place—do not uninstall it.

Note: If you want to change the Microsoft SQL edition (for example, from Express to Standard), or if you want to move the Vantage domain database to a different server, complete the Vantage installation, and then see [Moving the Vantage Domain Database](#).

At this stage, the Vantage software has been removed, but your database contents and service configuration files and the SQL Server are still intact. When you install Vantage, you can reuse these database files and let Vantage upgrade them. Continue now with the next topic, [Installing the Upgrade](#).

Installing the Upgrade

Follow this procedure to upgrade an older Vantage version to a new one.

Caution: Upgrade all components. Upgrading only selected components can result in component mismatches, causing a non-functioning Vantage system. If you have any questions, contact Telestream Vantage Support.

1. Log in to the Vantage server with a local administrator account, and make sure that virus-checking software and Windows Firewall are off. (See [Anti-Virus Software Recommendations](#) and [Firewall Guidelines](#) for details).
2. To protect your data, use the Vantage Management Console to back up your database using the Domain Management/Backup feature to create a backup file. (See [Backing Up the Existing Database](#) for instructions.)
3. Stop any active jobs or allow them to complete. Workflows should be deactivated. Close any open Vantage apps.
4. Run the *Vantage_8.2.##_Setup.exe* installer. See [Vantage Installers Overview](#) for details.
5. In the Welcome panel, click Next to display the license agreement.
6. License Agreement—Click *I Accept* if you agree to the license terms, and then click Next.
7. Select *Custom Install* and select check boxes to install the desired Vantage features, and click Next.
8. In the Ready to Install panel, 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.

9. Click Next when the installer indicates it is finished.
10. When installation is complete, click Finish.
11. The installer displays *Installation was successful!* (or indicates errors if unsuccessful). Click Done to close the installer application. Database installation is complete.
12. If you are upgrading a Vantage Array, you have just completed the database server upgrade. Next, upgrade any other servers in the next step.

13. Repeat these steps for any other servers in the array, such as servers hosting the transcoding engine, services, and web applications. When you run the installer on each server, select the components to install corresponding to the components you are replacing on that server.
14. When all servers and components have been upgraded, the upgrade is complete.
15. Test your workflows to make sure all required items to run the workflows are still present and the workflows still run as expected.

Note: Existing workflows do not require updating to run as they did on earlier Vantage releases. However, you might need to re-create some aspects of existing workflows to take advantage of new user interface components. For example, new options in Flip actions do not display automatically after upgrading. Refer to the *Vantage User Guide* for details about enabling new features in actions and workflows.

Note: If your ComponentPacs from an earlier Vantage version (for example Vantage 8.0) reside in a custom location *other than* C:\Program Files (x86)\Telestream\Vantage\ComponentPacs, you will need to copy the ComponentPacs installed with Vantage from C:\Program Files (x86)\Telestream\Vantage\ComponentPacs to your custom location. You will then need to use the ComponentPac Management feature in the Vantage Management Console to install the ComponentPacs that came with Vantage 8.2. You can see or change the location in which ComponentPacs reside using *ComponentPac Management > ComponentPac storage location* in the Vantage Management Console.

Updating Vantage Between New Versions

Between version upgrades, Telestream may issue *update packs* for the current Vantage version to replace selected components for the purpose of adding small features, bug fixes or improving performance. The Update Pack installers are designed to install smoothly with minimal impact to the overall installation.

To locate and install Vantage update packs, do this:

1. Go to the Telestream Vantage download web site:
<http://dynamic.telestream.net/downloads/download-vantage.asp?prodid=vantage>
2. Review the Vantage download page to determine if there are any update packs that should be installed.
3. If there is an update pack to install, review the release notes that accompany the update and install the update pack according to your requirements and the instructions in the Release Notes.

Note: Unlike ComponentPacs, installed Update Packs are not displayed in the Vantage Management Console. To determine which update packs you already have installed, open Control Panel and review Programs and Features.

Using ComponentPac Management to Update Actions

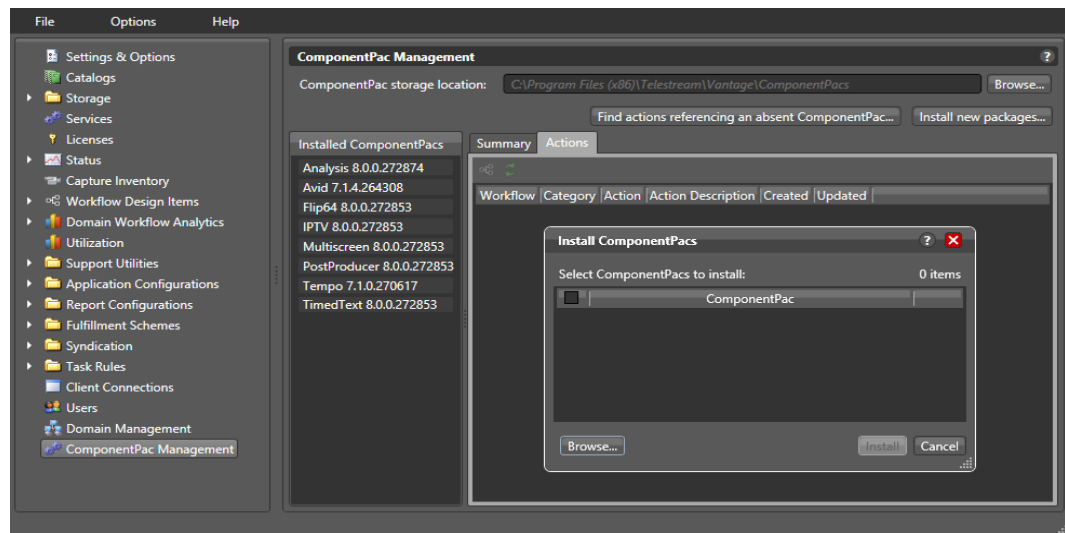
ComponentPacs are uniquely numbered and versioned software libraries that have replaced the component patches previously distributed for updating these specific transcoding-related actions:

- Analyze
- Avid AAF
- Avid Asset Monitor
- Avid Media Creation
- Capture
- Chronicle
- Compose
- Conform
- Flip64
- IPTV Flip
- Multiscreen Flip
- Multiscreen DRM
- Tape Capture
- Tempo
- Timed Text Flip
- Timed Text Conform

These libraries install into an existing Vantage Framework using the ComponentPac Management feature of the Vantage Management Console (below). They must be stored in a central location accessible to all machines in a Vantage Array.

Please note that if a change is required within the Vantage framework to non-transcoder service components, those updates are still made using a Vantage patch or

update pack, not a ComponentPac. Note also that the Flip, Identify, and Examine actions are not managed by the ComponentPac feature.



Installing ComponentPacs

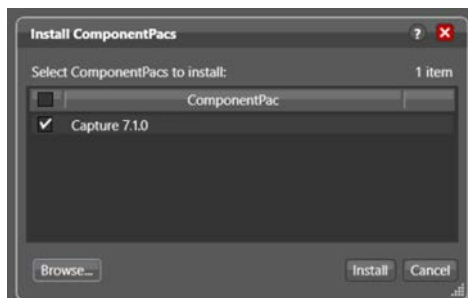
Installing new ComponentPacs as explained below makes them available for use but does not affect existing jobs, actions, or workflows until you explicitly upgrade them.

1. Obtain the new ComponentPac from Telestream.net or Telestream Support and place it in a folder accessible by the Vantage Management Console.
2. Open the Vantage Management Console, and click ComponentPac Management in the left column. Installed ComponentPacs, if any, are listed in the Installed ComponentPacs list on the right.
3. In the right panel Storage Location field, enter or browse to specify a path to a central ComponentPac storage location. *This is where new downloaded packages will be stored and installed from. If you do not specify a path, the default location is used: C:\Program Files (x86)\Telestream\Vantage\ComponentPacs\.*

Note: For an all-in-one (single node) installation, the ComponentPac storage location can be a local path. For a multi-node installation (Vantage array), the ComponentPac storage location must be accessible to the Vantage services on all Vantage servers (via a UNC path or a SAN drive letter with appropriate permissions).

One convenient way to securely install ComponentPacs from a share is to use Vantage Authorization credentials. To do this, create a share for a single user which is a different login than the logins to Windows or Vantage. (Shares can be created for single or multiple users or groups, and the user can be the same or different from the Windows user login.) Then in the Vantage Management Console, go to Settings & Options > Authorization and add the credentials for the share user. Next, restart the services to recognize the new credentials, and then test share access. You can now use the share as your ComponentPac central storage location.

1. Click the *Install new package* button.
2. Browse to where you downloaded the ComponentPac. Click on the ComponentPac to install, and click Open. (Skip if the ComponentPac is already present.)



3. Check the desired ComponentPac in the Install ComponentPacs window, and click Install to install and register the package with the domain.
4. When installation finishes and the package displays in the Installed ComponentPacs list, restart all affected services on all nodes to deploy the ComponentPacs. ComponentPacs are unpacked and made ready for use when the Vantage services targeted by the ComponentPac are restarted. Unpacked ComponentPacs are stored in `C:\Program Files (x86)\Telestream\Vantage\Components\` on each Vantage service node.

Notes:

1. New actions and workflows created in the Workflow Designer use the latest installed ComponentPac. However, existing actions and workflows must be selected and upgraded to use the latest ComponentPac. If they are not upgraded, they will continue to use the ComponentPac with which they were created. See the *Vantage User Guide* for detailed action and workflow upgrade instructions.
2. Workflows created with a previous version of Vantage (such as Vantage 6.3) use the earliest ComponentPac installed. When you upgrade a workflow created with an older Vantage version, the actions are tied to the ComponentPacs installed.
3. The Session Log available in the Workflow Designer Job Status or Domain Job Status panel lists which ComponentPac was used for a completed job.
4. If a Vantage service is unable to unpack a ComponentPac (such as when the Vantage service does not have the appropriate user credentials to access the file location of where the ComponentPac file resides), an entry is added to the service trace log to record the issue.
5. If you convert a single-node Vantage domain to a multi-node Vantage domain and if the installed ComponentPacs reside in a local path, the ComponentPacs must be copied or moved to a shared folder location and re-installed or re-registered.
6. If you have deployed a new database or replaced an existing database with a new one using the Database Deployment Utility, 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 as described in the preceding steps.

- 7.** Upgrading Vantage via an update pack may cause ComponentPac actions to be shown as eligible for upgrade even though a new ComponentPac has not been installed. This is normal behavior for update packs. You can upgrade the ComponentPac actions or not, as you prefer.
- 8.** Attempting to install a future ComponentPac that doesn't match the current Vantage version fails to install the ComponentPac and displays an error message: "ComponentPacs built for a future release of Vantage are not supported, and will not be installed."

Upgrading Actions and Workflows

When upgraded, existing actions and workflows can use the latest installed ComponentPacs, framework upgrades, or component patches. These instructions briefly explain how to upgrade existing actions and workflows. See the *Vantage User Guide* for detailed action and workflow upgrade instructions.

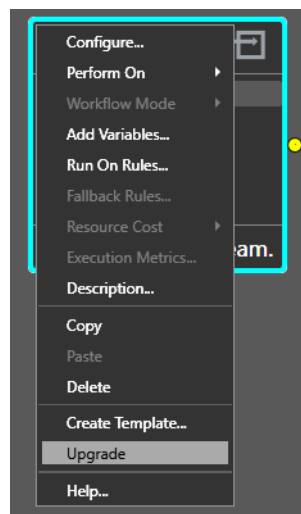
Note: Once an action is upgraded it can't be directly downgraded. However, you can restore workflows to their pre-upgraded state by importing the automatic backup copy that Vantage places in the C:\VantageWorkflowBackup directory (local to the Workflow Designer client). A log file describing the upgrades is also included in that directory.

Note: If you want to change the location of automatic ComponentPac backups, open the Vantage Management Console, select *Settings and Options*, and browse for a new *Location for workflow backups*.

Note: During service startup, if multiple ComponentPacs are available, the service uses the highest-versioned ComponentPac to populate the action template in the database. This process updates default action configurations and also ensures that newly created actions will always use the latest ComponentPac.

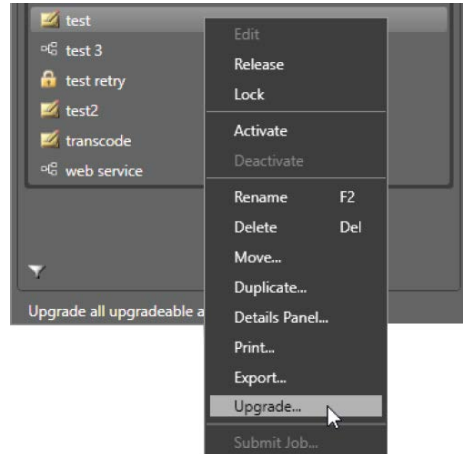
Upgrading an Action

To upgrade an action in Workflow Designer, right-click the action in its workflow and select Upgrade from the context menu.



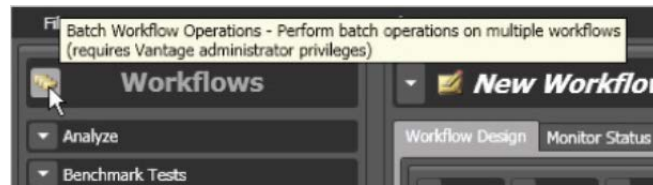
Upgrading a Workflow

To upgrade a workflow in Workflow Designer, right-click the workflow in the workflow list on the left, and select *Upgrade* from the context menu.



Upgrading Workflow Batches

To upgrade workflows in batches or all at once, click the Batch Workflow Operations button in the upper left corner of the Workflows list, or select File > Batch Workflow Operations > Check for Upgrades.



Locking Against Upgrades

You can also lock workflows to protect against upgrades until you are ready, providing Secured Version Control. To do so in the Vantage Workflow Designer right-click the workflow in the workflow list and select Lock. You can also select Lock for multiple workflows using the Batch Workflow Operations dialog.

Removing ComponentPacs

To remove old ComponentPacs:

1. Open the Vantage Management Console, and click ComponentPac Management in the left column. Installed ComponentPacs are listed in the Installed ComponentPacs list on the right.
2. Click the package you plan to uninstall and check the Actions panel for affected workflows and actions.

Export all workflows that reference the ComponentPac you want to uninstall (to back them up), and then delete the workflows in Vantage.

3. Click the Uninstall button in the ComponentPac Management window while the package to be removed is selected.

Note: The Uninstall button displays *only* when a package is not used by any actions.

4. After uninstallation completes, restart the affected Vantage services. If the Workflow Designer was open, close it and reopen so all the changes to take effect.

The selected old package is removed and no longer displays in the ComponentPac Management list.

Updating Individual Components

At times, you may be instructed by Telestream Support to update specific components that are not handled by the ComponentPac feature.

Caution: Updating individual components should be done only as recommended by Telestream. Upgrading only selected components can result in component mismatches, causing a non-functioning Vantage system. If you have any questions, contact Telestream Vantage Support before updating.

The *Vantage_8.2.##_Setup.exe* installer allows you to add (or re-install) individual Vantage components (services, clients, T&A Engine) as your needs change. You can rerun the installer, select *Modify* at the first screen, and check the components you want to add.

These topics explain how to install individual components:

- [Updating the Vantage Domain Database](#)
- [Updating Vantage Server Components](#)
- [Updating Vantage Clients on Client Workstations](#)
- [Updating Vantage Web Applications](#)
- [Moving the Vantage Domain Database](#)

Updating the Vantage Domain Database

This procedure guides you in updating your Vantage database without removing or changing your SQL Server version.

To update the Vantage domain database, follow these steps:

1. Log in to the target server with a local administrator account, and make sure that virus-checking software and Windows Firewall are off.

Note: For additional information on Vantage use with anti-virus software, see [Anti-Virus Software Recommendations](#). For more information on Vantage use with the Windows Firewall, see [Firewall Guidelines](#).

2. To protect your data, open the Vantage Management Console and back up your database using the Domain Management/Backup feature to create a backup file. See [Backing Up the Existing Database](#) if you need detailed instructions.
3. Run the Vantage_8.2.##_Database_Deployment_Utility.exe installer.
4. In the Welcome panel, click Next to display the license agreement. Click *I Accept* if you agree to the license terms, and then click Next.

5. The Database Install Mode dialog displays—click Next.

This instructs the Vantage installer to upgrade your database and preserve information for workflows, design items, job history, catalogs, stores, application configurations, user settings and licenses.

6. When the Destination Folder dialog displays, accept the default folder or click Change to select an alternate directory on another drive; then click Next.
7. When the Ready to Install Vantage Domain Database dialog displays, click *Install* to begin database installation. This process takes a few minutes to complete.

The Vantage installer upgrades your database and preserves information for workflows, design items, job history, catalogs, stores, application configurations, user settings and licenses.

Note: Existing workflows do not require updating to run as they did on earlier Vantage releases. However, you might need to re-create some aspects of existing workflows to take advantage of new user interface components. For example, new options in Flip actions do not display automatically after upgrading. Refer to the *Vantage User Guide* for details about enabling new features in actions and workflows.

8. When installation is complete, click Finish to quit.

Updating Vantage Server Components

The following procedure updates or modifies the existing Vantage installation to add or remove components. If you are upgrading from one version of Vantage to another, do not use this procedure; instead see [Upgrading from a Previous Version](#).

Note: If you plan to update Vantage and Vantage web applications on the same server, you can avoid a Vantage service restart by first updating Vantage web applications. See [Updating Vantage Web Applications](#). After installing the web apps, return here and continue this procedure.

1. Log in to the target server with a local administrator account, and make sure that virus-checking software and Windows Firewall are off.

Note: Telestream recommends not using anti-virus software on Vantage servers. If you use anti-virus software, you should identify Vantage as a safe/trusted application. See [Anti-Virus Software Recommendations](#) and [Firewall Guidelines](#).

2. Run the *Vantage_8.2.##_Setup.exe* installer.
3. Select *Modify which products and features are installed*. (This option is presented only if you use the installer originally used to install Vantage, which you should be careful to do. You should not use a newer installer unless instructed by Telestream.)
4. Select *Custom Install*.
5. Check the boxes for all Vantage components on this server that you want to install, and uncheck any you want to remove, and click Next.
6. When the Ready to Install dialog displays, click *Install* to begin installation. This process takes a few minutes and shows progress as it runs.

If Intel Performance Primitives (IPP) is not present, it is installed. For existing installations, it should already be present.

If QuickTime is not installed (it should be), the installer installs it for you. If you need to install it manually, use this link to download it: [QuickTime version 7.6.9](#).
7. When installation is complete, click Finish to close the installer.

Note: For an All-in-One Single Node installation, Vantage creates a temporary storage area on the local hard drive, and creates a default Vantage catalog in the database.

8. Open the Vantage Management Console, select Services in the left panel, and verify that the services you installed are Online and those you removed are Offline.
9. If you changed the clients, verify that the icons on the desktop changed accordingly.

Updating Vantage Clients on Client Workstations

The following procedure explains how to update Vantage clients installed on client machines. To update clients on Vantage Servers, see [Updating Vantage Server Components](#). These client programs can be updated:

- Vantage Management Console (VMC)
- Vantage Workflow Designer
- Vantage Dublist Portal
- Vantage Workflow Portal

You can use either the *Vantage_8.2.##_Client_Applications.msi* installer or the *Vantage_8.2.##_Setup.exe* installer to update clients on client machines. When installing on client machines, the client installer is recommended because it downloads faster and takes up less space during installation than the Vantage installer.

Note: Do not mix installers. Whether you use the Vantage installer or the client installer to install the clients, use the same installer for all subsequent client installation changes on that machine. Mixing installers may produce unexpected results.

Using the Client Installer to Install or Update Clients

Install or update Vantage clients using the *Vantage_8.2.##_Client_Applications.msi* installer:

1. Use Windows Control Panel Programs and Features to uninstall existing clients.
2. Run the *Vantage_8.2.##_Client_Applications.msi* installer as an administrator.
3. Accept the license, and select the installation location.
4. Check the clients you want to install and uncheck those you want to remove.
5. Follow the installer steps to complete the installation.

Note: If you simply want to add or remove existing applications, the client installer allows you to Change, Repair, or Remove. These options are presented if you leave the applications in place before running the installer. If you choose Change, applications you check will be installed, and applications you uncheck will be removed.

Using the Vantage Installer to Install or Update Clients

Install or update Vantage clients as follows using the *Vantage_8.2.##_Setup.exe* installer:

1. Use Windows Control Panel Programs and Features to uninstall existing clients.
2. Run the *Vantage_8.2.##_Setup.exe* installer as an administrator.
3. Select Single Node Install.
4. Select Custom Install.

5. Check the clients you want to install and uncheck those you want to remove.
6. Browse to select where to install the clients.
7. Follow the installer steps to complete the installation.

Updating Vantage Web Applications

Vantage web applications may be installed as part of a Vantage Array and may be updated separately or as part of an array upgrade.

Note: If you are updating the Vantage web applications on a server that also hosts Vantage services, the Vantage web applications upgrade will stop those services, which will interrupt Vantage operation. Plan to upgrade the Vantage web applications when the upgrade will cause the least interruption to Vantage users. This is not an issue when the Vantage web applications are installed on a dedicated server.

If you are updating the Vantage web applications from version 3.0 or later, you do not need to repeat the IIS and .NET server preparation described for new installations. To update Vantage web applications, do this:

1. Uninstall the web apps using the Windows Programs and Features Control Panel.
2. Download and run one of these installers as an administrator:
 - Vantage main installer: *Vantage_8.2.##_Setup.exe*.
 - Vantage web applications installer *VantageWebApplicationsSetup.exe*

To run the EXE as an administrator, right-click and choose “Run as Administrator”.

Note: The *Vantage_8.2.##_Setup.exe* will remove the web apps if you run it after installing them. Finish installing all Vantage components on the server before you install the web apps.

3. In the Welcome panel, click Next.
4. Read the license agreement, and if you accept the terms, click *I Agree*, and Next.
5. If using the *Vantage_8.2.##_Setup.exe* installer, select Array Installation, select Custom Install, scroll the list, and select Web Applications.
6. In the Select Installation Address panel, leave the Application Pool default setting at *DefaultAppPool*, and click Next.
7. Click Install to start the installation.
8. In the Installation Complete panel, click Finish.
9. If Vantage services were running before the Vantage Web Applications upgrade, restart those services using Vantage Management Console > Services or the Microsoft Services tool (Start > Administrative Tools > Services).

Note: If you experience any problems with the upgrade, refer to [Troubleshooting Vantage Installation](#). For information on the browser requirements for Vantage web

applications, see [Vantage Web Applications Browser Requirements](#) in *Before You Install Vantage*.

Moving the Vantage Domain 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: If you are moving the database in conjunction with a Vantage upgrade, you should complete the upgrade prior to moving 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](#)

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 a version 3 Vantage database to a version 4 domain.

Preparing for the Move

If you are upgrading SQL Server, it is recommended that you back up the Vantage domain database, but it is not required. 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 (refer to *Managing Services* in the *Domain Management Guide* for details).

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 (refer to *Managing Services* in the *Domain Management Guide* for details).

Backing Up the Existing Database

If you are upgrading SQL Server, it is recommended that you back up the Vantage domain database. 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. 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.

2. Close all Vantage clients—Vantage Workflow Designer, Vantage web applications, Vantage Workflow Portal, Dublist Portal, and the 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 in to 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 in to 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 *Removing Vantage* chapter of the *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 Standard* in the Vantage Installation Guide or the Vantage Domain Management Guide. After installing SQL, continue with the next topic below.

Installing the Vantage Domain Database

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

1. Log in to 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. From the tools folder (created when you extracted the files (see [Vantage Installers Overview](#)) run the Vantage_8.2.##_Database_Deployment_Utility.exe installer.
4. When the Vantage Database Deployment Utility dialog displays, you can review the license agreement. Click *Accept* if you agree to the license terms, and click Next.
5. Select the Host, Instance, and Authentication Mode to use. Click Connect.

Note: Consult the Database Deployment Utility application note available on the Telestream web site for more details.

6. Follow the prompts to install a new Vantage domain database.
Depending on your requirements, select Upgrade or Replace Existing Database when the install dialog displays, and click Install:
Upgrade—instructs the Vantage installer to upgrade your database and preserve information for workflows, design items, job history, catalogs, stores, application configurations, user settings and licenses.
Replace Existing Database—instructs the Vantage installer to replace your existing database with a new blank database. All information for workflows, design items, job history, catalogs, stores, application configurations, user settings, and licenses will be deleted.

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

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 (File > Change Vantage Domain), select Domain Management in the left components panel, click Restore..., and select the file to restore. For more information, refer to the *Database* chapter of the *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. (In the Management Console, select Services in the left panel, Ctrl-click to select all services in the right panel, right-click to select Exit Maintenance Mode, and click OK.)
 - 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.

Adding a Server to a Vantage Domain

This table lists the types of servers you might want to add to a Vantage domain and shows where you can find instructions for adding these servers.

| Server Type | Instructions |
|--------------------------------|---|
| Vantage Lightspeed server | <p>A Vantage Lightspeed server can be added to a Vantage domain that uses Vantage version 4.0 or later. When you add a Vantage Lightspeed server to a Vantage domain, the Lightspeed server must be running the same Vantage version as the Vantage domain.</p> <p>The Vantage Lightspeed server ships with an installed Vantage domain database, and all Vantage services on the Lightspeed server are assigned to that Vantage domain database. To add the Vantage services on the Lightspeed server to the existing domain, use the Vantage Management Console to reassign the services.</p> <p>After you reassign the Vantage services, Telestream recommends that you remove the Vantage domain database on the Lightspeed server so that the old Vantage domain is no longer advertised to Vantage client programs and web applications.</p> <p>To remove the Vantage domain database from the Lightspeed server and reassign services, see Adding a Lightspeed Server to a Vantage Domain.</p> |
| Vantage domain database server | <p>A Vantage domain can host one Vantage domain database, which can be installed on a single or mirrored database server.</p> <p>If your Vantage domain has a Vantage domain database on a single database server, you can do this:</p> <ul style="list-style-type: none">• Move the Vantage domain database to another server as described in Moving the Vantage Domain Database.• Add a database server to mirror the current server. <p>This guide does not provide instructions on setting up a mirrored database server. Consult your database administrator or contact your Telestream representative regarding installation service options.</p> |

| Server Type | Instructions |
|---------------------------------|--|
| Vantage array server | Additional Vantage array servers add more throughput capacity to your Vantage domain. When you add a Vantage array server to a Vantage domain, the server must be running the same Vantage version as the Vantage domain. For instructions on adding a Vantage array server, see Installing Vantage Array Components in the <i>Domain Management Guide</i> . |
| Vantage web applications server | For instructions on adding a Vantage web applications server, see Installing and Configuring Vantage Web Applications in the <i>Domain Management Guide</i> . |
| Vantage store | You can add multiple Vantage stores to a domain. A Vantage store can reside on a dedicated server or with Vantage services. For instructions on setting up a Vantage store, see Setting Up a Vantage Store in the <i>Domain Management Guide</i> . |

Adding a Lightspeed Server to a Vantage Domain

This topic describes how to add a Lightspeed server to an existing Vantage domain. A Vantage domain can host just one Vantage domain database. When you add a Lightspeed server to an existing domain, Telestream recommends that you remove the Vantage domain database and SQL Server on the Lightspeed server so that Vantage does not advertise the unused Vantage domain on the Lightspeed server, and so that memory used by the SQL Server becomes available for Vantage use.

Note: The Lightspeed server and the existing Vantage domain must be using the same Vantage release, which must be Vantage 4.0 or later.

To add a Lightspeed server to an existing Vantage domain, follow the procedures in the following topics in the sequence presented:

1. [Moving Licenses to Another Domain](#)
2. [Moving Vantage Services to Another Domain](#)
3. [Setting the Vantage Windows Log On ID for a Service](#)
4. [Removing the Vantage Domain Database](#)
5. [Removing Microsoft SQL Server](#)


Moving Licenses to Another Domain

Any purchased licenses that have been added to the Lightspeed server should be removed from the Lightspeed server so they can be added to the existing domain. Most Vantage domains have a single license that contains multiple license options. However, Vantage can accept and combine license options in multiple license files. In most cases, you need to remove the license from the Lightspeed server and contact Telestream to arrange a Lightspeed server update to the license for the existing domain.




To delete licenses from the Lightspeed server and add them to the existing Vantage domain, do this:

1. In the Vantage Management Console, open the domain for the Lightspeed server, and select Licenses in the components panel.

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


2. Place all services in Maintenance Mode. (In the Management Console, select Services in the left panel, Ctrl-click to select all services in the right panel, right-click to select Enter Maintenance Mode, and click OK.)
3. On the Licenses tab, select all licenses and click the Delete button .

Note: To add licenses to the other domain, you will need access to any license files sent from Telestream or an updated license file for the other domain.

4. In the Vantage Management Console, open the domain to which you want to add the licenses, and select Licenses in the components panel.
5. If you are updating the license for the existing domain, do this:
 - a. Select the license you are updating and click the Delete button .
 - b. Click the Add License button  and use the open file dialog to select the updated license file.
6. If you are adding licenses to the existing domain, click the Add License button  and use the open file dialog to select a license file.
Repeat this step for additional licenses.
7. Take all services out of Maintenance Mode. (In the Management Console, select Services in the left panel, Ctrl-click to select all services in the right panel, right-click to select Exit Maintenance Mode, and click OK.)

Moving Vantage Services to Another Domain

To move services from the Lightspeed server domain to the existing Vantage domain, do this:

1. In the Vantage Management Console, open the existing domain to which you want to add the Lightspeed server services.
2. Select Services in the component (left) panel.
3. Click the Add Service button  to display the Select Service dialog.

The Select Service dialog lists all Vantage services running in this subnet, and the list includes unassigned services and services running on other Vantage domains.

4. Select one or more Lightspeed server services to add to this domain, and click OK to add them.

Services are identified by name, machine, and Vantage domain. Use the machine name to identify the services on the Lightspeed server. To select multiple services, use shift-click to select a series of services, or use option-click to select individual services.

5. If you are moving a service from one domain to another, the Vantage Management Console displays the Reassign Services window. Click OK to add them to this domain.

Setting the Vantage Windows Log On ID for a Service

On the Lightspeed server, the default log on ID for each Vantage service is the *Local System account*. This log on ID provides access to files on the local server only. If a service requires access to files on another server, the Local System account cannot provide that access; rather, the service must be able to log onto the other server with an account the other server recognizes and grants privileges to.

To give Vantage services access to input folders, output folders, Vantage stores or other files on another computer, you must do this:


- Create a Vantage Windows user ID for the service
- Grant access on the target servers to the Vantage Windows user ID for the service.

For more information, see *Windows Authentication Guidelines* in the *Domain Management Guide*.

Within a single service, the Windows log on ID for that service must be the same on all Vantage servers in the domain. For example, all Analysis services within the domain must use the same log on ID. However, the Catalog service, which does not access files, can remain set to use the Local System account.

To change the log on ID for a Vantage service, do this for that service on each Vantage server in the array:

1. In the Vantage Management Console, click Services in the left panel.
2. Select a service in the list (Shift-click or Ctrl-click to select multiple services).

3. Click the Change Service Logon button  or right-click and select Change Service Log On. A dialog opens, requesting the logon.
4. Select Local System account to use the account currently accessing Vantage from your local machine, or select *This account* and fill in the user name and password for the account that has access to the desired network location.
5. Click OK. A message confirms that the logon is changing.

Note: Changing a service logon restarts that service. Also note, when changing the logon for multiple services simultaneously, some services may not restart properly. If this occurs, go to Start > Services on the server, select the affected services, and click (or right-click) Restart to manually restart the services.

6. Grant file access to the new user on all Vantage servers that the service must access.

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 can 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 on to 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 onto 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

To remove Microsoft SQL Server, follow these steps:

1. Log into the server with a local administrator account.
2. Open the control panel tool to remove programs (Control Panel > Programs and Features > Uninstall Programs).
3. Remove Microsoft SQL Server as follows:
 - a. Select Microsoft SQL Standard and click Remove or Uninstall.
 - b. Click Remove.
 - c. Click OK.
 - d. Select the Vantage instance, and click Next.
 - e. Click Select All, and click Next.
 - f. Click Next.
 - g. Click Remove.
 - h. Click Next.
 - i. Click Close.

Note: If you are prompted to stop the SQL Server (VANTAGE) service, be sure to do so in the Services control panel, before proceeding by pressing Retry.

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

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

Note: Uninstalling the Vantage domain database or the SQL Server does not delete your database files, which contain your workflows, resources, and transaction history. It leaves those files intact in [Install_Drive]:\Program Files\Telestream\Vantage\Database. If you reinstall SQL and the Domain Database application later, you can attach these files and restore your previous Vantage domain.

Removing a Vantage Domain from Servers

Use this chapter to remove the Vantage software and associated third party software from your server(s).

Topics

- [Uninstalling Vantage from a Server](#)
- [Uninstalling Vantage Clients from a Workstation](#)
- [Removing ComponentPacs](#)

Uninstalling Vantage from a Server

Each Vantage server may host some or all of the software components listed in the following procedure. You can use this procedure whether you are removing all of Vantage or individual components.

To completely uninstall Vantage or to uninstall specific components, follow these steps:

1. Log into the server with a local administrator account.
2. In the Vantage Workflow Designer, stop all jobs.
3. In the Vantage Management Console, stop all services. Also if you intend to reinstall or upgrade Vantage, use the Backup function to save your domain database to a backup file. This protects your data in the event of a problem with re-installation. (You can skip this step if you are only removing the web applications.)
4. In Windows, open the Control Panel and select Programs and Features.
5. Right-click each of the following Vantage components in the order listed and select Uninstall to remove them:
 - Vantage web applications
 - Vantage update packs in reverse sequential order
 - Telestream Media Transcode and Analysis engine
 - Vantage

Note: Subsystems (IPP, QuickTime, etc.) that have been installed during Vantage installation are not removed, and Vantage domain data and media you have created are not removed.

Note: If your domain has a mirrored database server, be sure to disable mirroring and stop the SQL Server Agent service, before proceeding.

6. Use the Control Panel to remove Microsoft SQL Server Express or Standard:
 - a. Select Microsoft SQL Express or Microsoft SQL Standard and click Uninstall.
 - b. Follow the prompts until removal is complete.
 - c. Optional step—Click the refresh button in the Control Panel to update the display, which will clear some of the SQL Server components from the display.
7. In the Control Panel tool, select Microsoft SQL Server Native Client and click Remove or Uninstall.

Note: Uninstalling the database does not delete your Vantage workflows, resources, or transaction history. It leaves your database files intact in [Install_Drive]:\Program Files\Telestream\Vantage\Database. This allows you to re-attach a Vantage domain database and return Vantage to a previous state when re-installing or upgrading Vantage. In the event of any problems, you also have the backup you created earlier.

8. To permanently delete all Vantage files, use Windows Explorer to delete the following directory:

[Install_Drive]:\Program Files (x86)\Telestream\Vantage

Caution: Deleting these files permanently destroys the Vantage domain database including the domain configuration, workflows, and history. If you created a backup file earlier using the Vantage Management Console or if you create one now, you can preserve the domain for re-installation later.

Uninstalling Vantage Clients from a Workstation

On workstations, the Vantage client programs are the Vantage Management Console and Vantage Workflow Designer. Vantage Workflow Portal (VWP) and Vantage Dublist Portal can also be installed on a workstation.

To completely uninstall Vantage from a workstation, follow these steps:

1. Open the Control Panel Uninstall Programs tool in your operating system:
2. If the Vantage client software is installed, select Vantage Client and click Uninstall.
3. If the Vantage Workflow Portal is installed, select Vantage Workflow Portal and click Remove or Uninstall.

Removing ComponentPacs

To remove old ComponentPacs:

1. Open the Vantage Management Console, and click ComponentPac Management in the left column. Installed ComponentPacs are listed in the Installed ComponentPacs list on the right.
2. Click the package you plan to uninstall and check the Actions panel for affected workflows and actions.

Export all workflows that reference the ComponentPac you want to uninstall (to back them up), and then delete the workflows in Vantage.

3. Select the ComponentPac to remove and right click. Select Uninstall.

Note: Uninstall can *only be performed* when a package is not used by any actions.

4. After uninstallation completes, restart the affected Vantage services. If the Workflow Designer was open, close it and reopen it for all the changes to take effect.

The selected ComponentPac is removed.

Troubleshooting Vantage Installation

Use this topic to install, upgrade, or scale Vantage, upgrade Vantage components and configure it for operation.

Note: To obtain the Vantage installation package, go to www.telestream.net/telestream-support/vantage/support.htm. On this same page, you can browse the Vantage web library, including administration and user guides, plus application notes, and other documents that may be of value.

Topics

- [Troubleshooting Vantage Installation](#)
- [Troubleshooting Vantage Web Applications](#)

Troubleshooting Vantage Installation

Possible installation issues and solutions are explained in the following topics.

Database Deployment Utility

Action Templates and Schemes Do Not Work Correctly

If Vantage action templates and fulfillment schemes do not deploy properly, it may be because you assigned the Vantage services to the host name of the database server before using the Database Deployment Utility.

To resolve this issue, 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.

Install error due to password policies

Depending on the security requirements of your organization's IT department, the default login/password (sa/vantage12!) used by the SQL and Vantage Database installer may be insufficient. In such cases, Telestream recommends using the SQL installer, which allows for specification of a custom user/password, then installing the Vantage Domain Database with the Database Deployment Utility and providing your custom user/password as specified.

Verifying DTC Service Settings

During installation, Vantage configures and starts the Distributed Transaction Coordinator (DTC) Windows service. There is no need to verify DTC configuration and operation after the install, but if you suspect that the DTC service has stopped or the DTC configuration has changed, you can use the information in this topic to verify the DTC status and configuration.

Vantage uses DTC for communication between services and the SQL Server database to guarantee that messages are processed as atomic messages (that is, the entire message is successfully processed or the database state is reverted to the pre-message state). This guarantees that services do not duplicate jobs and that jobs do not register in a partial or incomplete state in the database.

In a Vantage domain, DTC must be running and correctly configured on each Vantage database server and Vantage server, or Vantage services cannot communicate with the Vantage domain database, and the domain stops operation.

To verify operation and configuration, use the procedures in the following topics:

- [Verifying DTC Operation](#)
- [Verifying the DTC Configuration](#)

Verifying DTC Operation

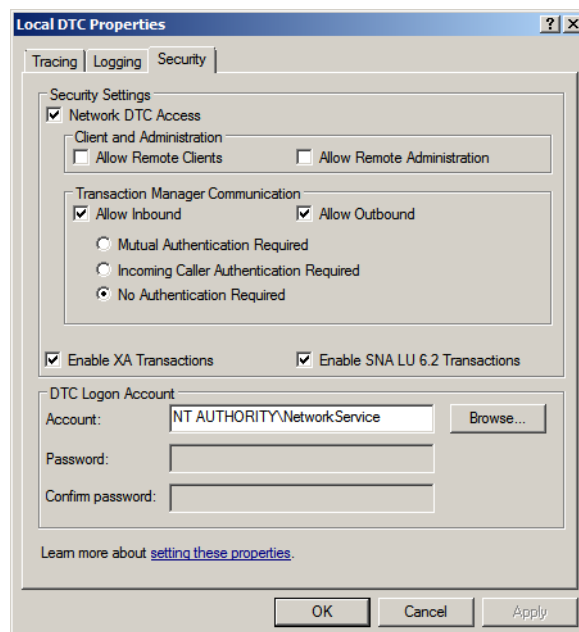
To verify that the DTC is running, do this:

1. In Windows, select Start > Administrative Tools > Services.
2. Verify or set the startup type for Distributed Transaction Coordinator to Automatic.
3. If you need to change the startup type, do this:
 - a. Right-click on the Distributed Transaction Coordinator service and select Properties to display the Properties window.
 - b. Select Automatic from the Startup Type menu and click OK.
4. If the DTC service is not running, right-click on the service name and select Start.

Verifying the DTC Configuration

To verify that DTC is configured correctly, do this:

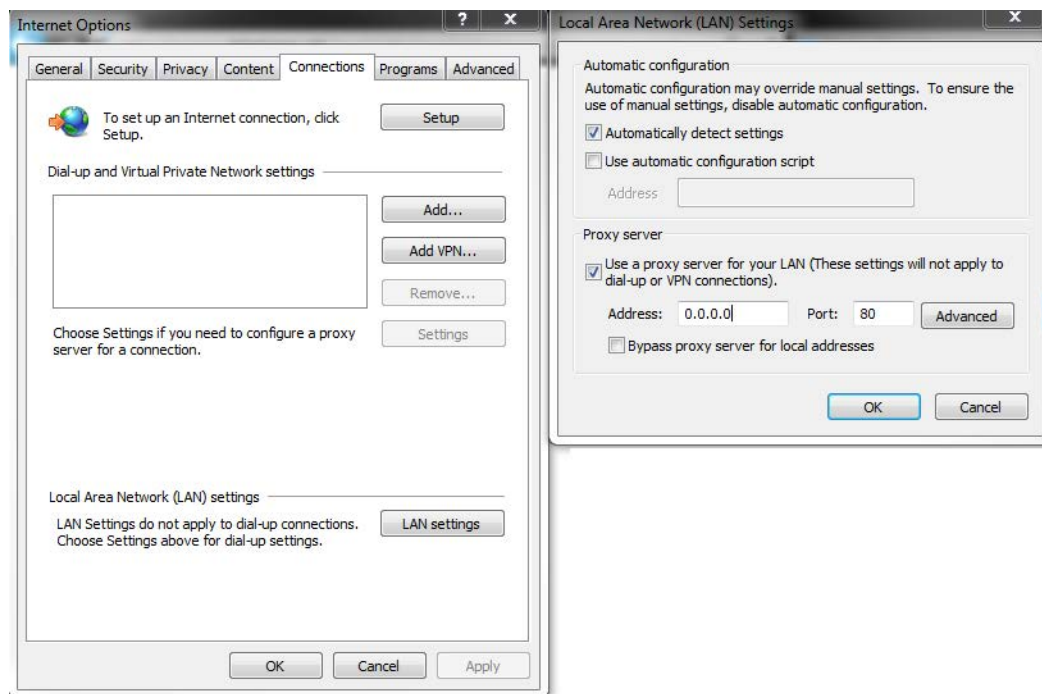
1. In Windows, select Start > Administrative Tools > Component Services.
2. In the left panel, navigate to Component Services > Computers > My Computer > Distributed Transaction Coordinator.
3. In the right panel, right-click Local DTC and select Properties.
4. Click the Security tab.
5. To enable transactions to properly flow from one machine to another, set the Security configuration settings as shown in the figure below, and click OK.



Note: You have to restart the database instance in order for SQL to receive notification of the changes to the DTC. You can restart the database by restarting the server that the database is on.

License Cannot Be Activated Offline

The Vantage Management License console may not allow you to activate a license offline. You can defeat the online licensing process and display the offline licensing window by setting the Internet Explorer proxy to a false address as shown below or physically disconnecting the computer from the Internet:

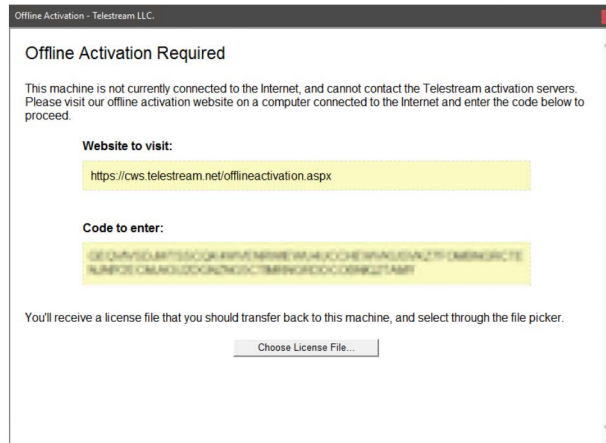


Now when you attempt to activate a license, you will see a dialog showing that there is no Internet connection.

Click Cancel to open the product activation window.

Now you can follow the manual activation process on this computer using the Internet connection and browser of another computer. See the *Vantage Installation Guide* or the *Vantage Domain Management Guide > Installation chapter > Activating a Vantage License Offline* topic for details about activating without an Internet connection to the Vantage computer.

To activate your license with a different computer, click Cancel to continue. Vantage displays the Product Activation dialog:



Troubleshooting Vantage Web Applications

The following are some symptoms and remedies that apply to troubleshooting the installation of the Vantage web applications:

- Web apps can't be accessed by the browser or not all applications show up.
Refresh the Vantage domain by clicking *Change Domain* in the upper right corner and selecting the desired domain from the list.
- If you experience any of the following issues, run the ASP.NET registration tool (aspnet_regiis.exe) to fix the .Net installation:
 - HTTP 500.19 error displays in the browser when you attempt to access the Vantage web applications after a new install.
 - Your web applications do not display correctly or do not allow you to log in.
 - When running Vantage Web Applications Setup.exe, set the Select Installation Address panel to the default value *DefaultAppPool* and click Next.
- In some browsers, the web Workflow Portal preview player space bar may not function as expected to pause or play video. This functionality is part of the browser's implementation of the media player. Try using different browsers to find the one that provides the best playback experience in your environment.
- The appearance of captions in the web Workflow Portal preview player may vary depending on your browser. Try different browsers to find the one that best meets your needs.
- On occasion, when using the web Workflow Portal preview player in Internet Explorer, if you jump to the end of a clip and then scrub backward followed by stepping forward, you may see a skew or jitter in the frame step capability. This is an artifact of the Internet Explorer HTML5 player.
- Telestream has occasionally observed the web Workflow Portal media player displaying an incorrect frame number even though the frame position is correct when playing to the end of a clip in the Chrome browser. If this anomaly is problematic, Telestream suggests switching to another supported browser.
- The web Workflow Portal HTML5 preview player requires Windows Desktop Experience in order to run. Ensure that Desktop Experience is enabled and up-to-date.
- When using the web Workflow Portal in the Safari browser with the Copy Binder configuration, the Submit button does nothing when the user attempts to submit the portal configuration and a binder. Disabling Block Popup Windows in the Safari Preferences > Security > Web Content menu resolves this issue.