



NetVanta Unified Communications

Release Notes

Version 4.6.4

NetVanta Unified Communications

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These release notes highlight new functionality, enhancements, software and hardware dependencies, and include upgrade instructions for the NetVanta Unified Communications product family. This document is to be used in conjunction with product documentation and training for the preparation of new and existing software installations and is intended for technical professionals who are providing support services for NetVanta Unified Communications products.

For general product information, please visit ADTRAN's website at <http://www.adtran.com>.

CAUTION: It is strongly recommended that the contents of this document be reviewed before any installation or upgrade, no matter how familiar the installer is with the product, to ensure that current installation and upgrade procedures are followed. These procedures could change from release to release, including maintenance releases. Failure to follow the upgrade procedures in this document could result in non-operational systems.

1 Summary of Changes

This section summarizes new functionality introduced in this NetVanta UC Server release, along with issues resolved in each release and any release-specific actions that are required as part of upgrading. Each maintenance release is identified separately. More detailed descriptions for major new functionality follow in Section 2, *New Functionality Details*. Internal tracking numbers are noted (for example, [1234]).

For newly introduced functionality and issues resolved in previous major releases, please consult the release notes or product documentation for the respective releases.

Where functionality or issues resolved do not apply to products in the product family, the applicable products are noted (for example, **ECS, BAS**).

NOTE: Be sure to review all upgrade actions for all releases between your current release and the release and your upgrade. Subsections of the sections below identify required actions, including information about client upgrades.

1.1 Release 4.6.4

Release 4.6.4 is a maintenance release of NetVanta UC Server that improves reliability and performance of Live Attendant.

1.1.1 Issues Resolved

Tracking #	Summary
9564	UC Client Fax Printer dialog remained minimized in taskbar. ECS, BAS
9592	The Admin client license modification error prevention. ECS, BAS
9702	Improved Live Attendant console stability enhancements. ECS
9727	Speaker adjustment in ucCompanion Audio Controls dialog would decrement volume settings. ECS
9746	Memory leak prevention management for SIP services introduced in the software. ECS

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1.1.2 Client Upgrade Actions

The Live Attendant ucCompanion software must be upgraded to take advantage of the stability enhancements. The UC Client software does not have to be upgraded for users of the NetVanta UC Server system.

1.2 Release 4.6.3

Release 4.6.3 is a maintenance release of NetVanta UC Server that improves reliability and performance and adds a minor new feature.

1.2.1 New Functionality

The new functionality introduced in this release includes:

- G.711 A-law support [8043]

1.2.2 Issues Resolved

Tracking #	Summary
9419	Via header was not fully compliant with RFC 3621. ECS, BAS
9455	Application would restart when receiving caller ID information for TAPI PBX integrations.
9465	ADTRAN TA9xx gateways would emit DTMF tones that are too short. ECS, BAS
9482	Changing SIP port options for a communication system did not take effect immediately. ECS, BAS
9488	snom telephone terminals would timeout over slow links when retrieving configuration data. ECS, BAS
9493	SIP paging server did not properly perform CODEC transcoding. ECS, BAS
9505	RTP ports not released correctly during paging operations eventually caused the paging server to fail to deliver pages. ECS, BAS

1.2.3 Client Upgrade Actions

Client software does not have to be upgraded for users of the NetVanta UC Server system.

1.2.4 Other Upgrade Actions

Modifications have been made as a result of 9465 and as such, the `Data\System\UserAgents\ADTRAN_TA9xx.cfg` needs updating from the `Data\System\UserAgents\ADTRAN_TA9xx.cfg.original` file.

For upgrades of the ECS and BAS products, scripts MUST be run before and after upgrading to properly upgrade phone configuration files. Any customizations to phone configuration files must be manually re-applied using the information and backups made by the scripts. Refer to Section 4.2.2, *Upgrading NetVanta UC Server from any 4.x.x Release*, for more information on this procedure.

1.3 Release 4.6.2

Release 4.6.2 is a maintenance release of NetVanta UC Server that improves reliability and performance and adds a minor new feature.

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1.3.1 New Functionality

The new functionality introduced in this release includes:

- IMAP mailbox password can now be configured or changed via PowerShell management shell [9335]

1.3.2 Issues Resolved

Tracking #	Summary
9111	Supervised transfer to conference bridge from NetVanta 7000 series results in caller having no audio. Ensure that NetVanta 7000 series is correctly configured with SIP trunks to the NetVanta UC Server configured in 'Network' mode. BCS
9300	Stopping paging server during the setup phase of a page operation caused a call to be left stuck on the phones. ECS, BAS
9367	Bulk operations involving users and identities would perform more slowly than desired. On systems with large numbers of users, this would be more apparent.
9397	Provisioning many SIP phones before assigning identities to phones in NetVanta UC Server caused the Application Server to slow down drastically. ECS, BAS
9420	Fax-on-demand entry of long distance numbers was restricted to hard-coded internal dialing restrictions instead of system defined dialing restrictions.
9421	User interface performance improvements – up to 70% increase in load times.
9426	Detect Remote Party service element falsely detected live answer instead of answering machine if a moderate amount of silence occurred before the answering machine message.

1.3.3 Client Upgrade Actions

Client software does not have to be upgraded for users of the NetVanta UC Server system. However, some performance and reliability improvements have been made that require updated client software, especially for system administrators. Users wanting to pick up the new functionality for 9335 must upgrade their client software.

1.3.4 Other Upgrade Actions

For upgrades of the ECS and BAS products, scripts **MUST** be run before and after upgrading to properly upgrade phone configuration files. Any customizations to phone configuration files must be manually re-applied using the information and backups made by the scripts. Refer to Section 4.2.2, *Upgrading NetVanta UC Server from any 4.x.x Release*, for more information on this procedure.

1.4 Release 4.6.1

Release 4.6.1 is a maintenance release of NetVanta UC Server that adds support for snom 870 telephone terminals and improves overall system performance and reliability.

1.4.1 New Functionality

The new functionality introduced in this release includes:

- Added support for snom 870 telephone terminals [8912] **ECS, BAS**

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1.4.2 Issues Resolved

Tracking #	Summary
9332,9337	NetVanta UC Client performance was improved for large numbers of users.
9341	snom 800 series telephone terminals took a long time to boot. Plug'n'play (PnP) feature of phones is now disabled by default avoiding this problem. ECS, BAS
9345	Application Server would take an excessively long time to load with large numbers of users. A number of improvements were made to reduce the startup times for systems with larger numbers of users.
9364	Internal SIP PBX default name changed to "NetVanta ECS". Note that exiting communications system objects would not be automatically renamed. ECS
9365	Performance improvements were made for importing large numbers of users using Server Configuration Wizard.
9374	Handset recording would truncate a short amount of audio from the recording. Handset playback and recording where not always responsive or smooth.

1.4.3 Client Upgrade Actions

Client software does not have to be upgraded for users of the NetVanta UC Server system. However, notable performance improvements have been made that require updated client software, especially for system administrators.

1.4.4 Other Upgrade Actions

For upgrades of the ECS and BAS products, scripts MUST be run before and after upgrading to properly upgrade phone configuration files. Any customizations to phone configuration files must be manually re-applied using the information and backups made by the scripts. Refer to Section 4.2.2, *Upgrading NetVanta UC Server from any 4.x.x Release*, for more information on this procedure.

1.5 Release 4.6.0

Release 4.6.0 is a major release of NetVanta UC Server that introduces voicemail class of service (CoS), enhanced security and auditing features, urgent messages, bulletin messages, and over-the-phone configuration of Active Message Delivery (AMD) for Personal Assistant users.

1.5.1 New Functionality

The new functionality introduced in this release includes:

- Voicemail class of service [9102]
- Last user access time tracking [9096]
- Authentication lockout and tracking [9097]
- Auditable administrator actions [9098]
- Password and PIN rules [9100]
- Local message store mailbox limits [9099]
- Support for sending and receiving urgent messages [2524]
- Bulletin voice messages [9117]
- Over-the-phone configuration of Active Message Delivery for Personal Assistant users [9118]

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- Enabling and disabling of user features [9119]

1.5.2 Issues Resolved

Tracking #	Summary
9123	Fax-on-demand element did not dial the correct 10-digit local phone number when configured without an area code.
9134	If a large number of outbound dialing requests were queued or completed but had not been purged, the <code>OutDial.exe</code> client, or the notification server, could not retrieve the lists of requests due a timeout waiting for the data to be returned.
9159	NetVanta ucCompanion - Soft Phone would not respond or crashed after a remote party hung up. Client software diagnostic logs repeatedly indicated <code>m_unmanagedStream is NULL</code> . ECS
9256	NetVanta UC Client performed slowly when making many requests of the server. This was more noticeable when the client was on a different computer than the server.
9275	Paging Server locked up and no longer accepted paging requests. Service could not be stopped using the Services control panel once this condition occurs. ECS, BAS
9290	In certain circumstances, client's connection to the application server would fail. The application server would restart unexpectedly as a result.

Note that all fixes included in 4.5.1, 4.5.2, 4.5.3 and 4.5.4 are included in release 4.6.0. Please consult the release notes for 4.5.4 for details on issues resolved in those releases.

1.5.3 Upgrade Requirements

Prior to upgrading an existing NetVanta UC Server system, be sure that the hardware platform and operating system software meet the minimum requirements; otherwise, you will not be able to upgrade the software. Ensure that both client and server requirements are met. Refer to Section [System Requirement 3.2](#) for information.

CAUTION: Failure to preserve installed software release media properly could result in the inability to rebuild a failed server at a later date. Copies of noncurrent software versions might not be readily available from ADTRAN Technical Support or your reseller causing delays to support technicians rebuilding failed servers.

1.5.4 Client Upgrade Actions

Client software **MUST** be upgraded for all users of the NetVanta UC Server system. More information on client deployment techniques, including automated deployment can be found in Section 4.3, *Installing or Upgrading NetVanta UC Client Software*.

1.5.5 Other Upgrade Actions

If the administrator has customized any of the system audio files (`Data\System\Announcements`) and not placed them in the custom announcements folder (`Data\System\CustomAnnouncements`), then the customized files **MUST** be copied to the overrides folder. A number of audio files have changed in the 4.6.0 release, and any customers with customized audio files may need to re-record customized audio files accordingly.

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CAUTION: Failure to copy or backup customized audio files will cause them to be overwritten during the upgrade.

For upgrades of the ECS and BAS products, scripts **MUST** be run before and after upgrading to properly upgrade phone configuration files. Any customizations to phone configuration files must be manually re-applied using the information and backups made by the scripts. Refer to Section 4.2.2, *Upgrading NetVanta UC Server from any 4.x.x Release*, for more information on this procedure.

CAUTION: Backup procedures have changed from releases prior to 4.3.3. The SQL database instance for NetVanta UC Server **MUST** be backed up to ensure proper recovery of failed systems. For instructions on backup and restore procedures, refer to the *Planning and Deployment Guide*, available online at <http://kb.adtran.com/>. Please adjust backup procedures accordingly. Failure to do so could result in data loss or extended system outages in the case of hardware or software failures.

CAUTION: Due to fixes related to MWI behavioral inconsistencies introduced in release 4.3.1, when a system is upgraded to 4.6.x from a release prior to 4.3.1, users's could experience a change in behavior of the MWI if their preferences (or system-wide settings) for MWI behavior are not set as they would prefer. Please ensure that system defaults are correctly set and that users are aware of how to change their MWI preferences.

2 New Functionality Details

This section describes more significant portions of the new functionality introduced in this NetVanta UC Server release.

Where functionality or issues resolved do not apply to products in the product family, the applicable products are noted.

2.1 Voicemail Class of Service

Administrators now have the ability to define voicemail classes of service, and assign them to users. This allows administrators the ability to more easily change behaviors for large sets of users at a single time.

Each voicemail class of service (CoS) can affect the following:

- Local message store mailbox limits
- Password and PIN rules
- Authentication lockout and tracking
- Enabling or disabling of user features

There is no limit to the number of classes of service an administrator can create. Users also do not need to be assigned to a CoS; each user may have individual settings for the settings controlled by CoS.

2.2 Last User Access Time Tracking

Each user now includes two new fields for tracking the last access date and time via the telephone and the graphical user interface. This allows administrators to determine which accounts are inactive. Administrators can use the NetVanta UC Server cmdlets for PowerShell to determine inactive users within a period of their choosing.

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2.3 Authentication Lockout and Tracking

Administrators now have the ability (using CoS or per-user settings) to define enhanced security settings which can cause users to be locked out after invalid access attempts. This functionality applies to access over the telephone and access using the graphical user interface. Enabling this feature allows administrators to protect against repeated malicious attempts to break into a user's account. To further permit administrator to trace such actions, failed access attempts are now logged, along with various details about the source of the access attempt.

2.4 Auditable Administrator Actions

To support system administrators of larger systems, where there may be multiple system administrators, all administrative actions are now logged in an audit log accessible to the system administrators. Each log contains information about the nature of the action, along with information about who made the change.

2.5 Password and PIN Rules

Password and PIN rules have been introduced to allow system administrators to specify password requirements for users. This allows for strong security policies to be enforced. Rules can be selectively enforced and adjusted using CoS, or for specific users. Administrators can optionally enable complexity, minimum lengths, and aging. In addition, administrators can force users to change their password or PIN after resetting it.

2.6 Local Message Store Mailbox Limits

System administrators can now restrict the number of voice messages, or the total size of voice messages in local message store mailboxes. This is provided using either CoS or per-user options. Local message store mailboxes can be restricted using a combination of the total number and the total length of voice messages. The administrator can also enforce the maximum age of a voice message, forcing users to delete old messages after the maximum age is reached. Unified messaging mailboxes are not affected by these restrictions; system administrator should use similar options on their email messaging system to apply limits for unified message mailboxes.

2.7 Support for Sending and Receiving Urgent Messages

Callers can now leave voice messages marked as urgent, and users will receive those messages before messages of normal urgency.

2.8 Bulletin Voice Messages

When enabled for a specific user, bulletin voice messages can be sent using the send message functionality provided by mailbox management in the telephone user interface. Bulletin messages will be presented to users during access to their mailbox over the telephone user interface (and in their local message store or unified message mailboxes). Over the telephone user interface, users must listen to bulletin messages prior to being allowed to delete them. Bulletin messages can be sent to any combination of distributions lists or individual users.

2.9 Over-the-Phone Configuration of Active Message Delivery

Personal Assistant users can now configure their Active Message Delivery behavior using mailbox administration functionality provided over the telephone user interface. Users can configure up to nine telephone numbers to be

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notified, along with time and day restrictions. System administrators can enable or disable this functionality using CoS or per-user configuration options.

2.10 Enabling and Disabling of User Features

System administrators are now able to enable or disable Personal Assistant features (transferring calls, active message delivery, pager notification, and email notification) and allow users access to sending bulletin voice messages using CoS or per-user options.

3 Installation Requirements

This section describes the environmental prerequisites required for the correct operation of NetVanta UC Server, including operating systems, server/client platforms, messaging servers, and mail clients. In addition, it describes any steps required prior to installing NetVanta UC Server software, including obtaining the license key.

3.1 Preserving Installation and Upgrade Media

If physical installation media (a CD or DVD) was received, please store this media in a safe place so that the software can be reinstalled at a later date if necessary (for example, in the event of a hardware failure).

If the software was downloaded, please ensure that a separate copy of the installation media is made to CD or DVD and this media is stored in a safe place so that the software can be reinstalled at a later date if necessary (for example, in the event of a hardware failure). Do not store the downloaded media on the same physical disks as the operational server as a single disk failure could cause this media to be permanently lost.

Ensure that if software upgrades are performed, new versions are also stored on separate media in a safe place. Support personnel could require a copy of the installation media to reinstall software at a later date.

CAUTION: Failure to preserve installed software release media properly could result in the inability to rebuild a failed server at a later date. Copies of noncurrent software versions might not be readily available from ADTRAN Technical Support or your reseller causing delays to support technicians rebuilding failed servers.

3.2 System Requirements

3.2.1 Server Components

This section describes the required operating systems, hardware requirements, and third-party integration platforms for the NetVanta UC Server server components. This applies to both upgrades and new installations. If existing server hardware does not meet these requirements, it must be upgraded or migrated to new hardware prior to upgrading to this release of NetVanta UC Server.

3.2.1.1 Operating Systems

The NetVanta UC Server server components support the following Microsoft® Windows™ Operating Systems:

- Microsoft Windows Server 2008 R2 (x64)
 - Foundation, Standard, Enterprise, and Data Center editions are supported.
 - Deployment on Server Core or Hyper-V is not supported.
- Microsoft Windows Small Business Server 2008 (x64)

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The recommended deployment for optimal performance and reliability is to install NetVanta UC Server on the additional Windows Server 2008 license that is part of the Premium Edition of Windows Small Business Server 2008. NetVanta UC Server can also be installed on the Windows Small Business Server 2008 platform with suitable hardware. Refer to Section 3.2.1.2, *Hardware Requirements*, for more information.

- Microsoft Windows Essential Business Server 2008 (x86, x64)

NetVanta UC Server should be deployed on the additional Window Server 2008 license that is part of the Premium Edition of Windows Essential Business Server. Do not install NetVanta UC Server on the Security Server. It is not recommended to install NetVanta UC Server on either the Management Server or the Messaging Server.
- Microsoft Windows Server 2008 (x86, x64)
 - Foundation, Standard, Enterprise, and Data Center editions are supported.
 - Deployment on Server Core or Hyper-V is not supported.
- Microsoft Windows Server 2003 R2 SP1, SP2 (x86)
- Microsoft Windows Server 2003 SP1, SP2 (x86)
- Microsoft Windows Small Business Server 2003 SP1 (x86)
- Microsoft Windows XP SP2, SP3 (Professional) (x86) (**Warning:** Refer to known limitation [8282])

Other software platforms are not supported.

Installation of the server components into a virtualization environment (Virtual Server, Hyper-V, Virtual PC, VMware, Virtual Box, etc.) is not supported in production deployments. Due to the real-time nature of telecommunications, audio problems will be experienced in these environments.

ADTRAN recommends using a server operating system for all installations of NetVanta UC Server. While the client platforms mentioned above (such as, Microsoft Windows XP) are supported, they are designed by Microsoft for desktop use not server use. Known limitation [8282] is also known to affect the reliability of Windows XP installations and could cause system outages in certain circumstances. Refer to Section 7, *Known Software Limitations*, for more details.

CAUTION: At this point in time, many third-party drivers and applications do not yet support Windows Server 2008 and derived platforms (SBS 2008, EBS 2008). When using TAPI integrations, or other integrations requiring use of CTI drivers, please review driver documentation for those products BEFORE proceeding with plans to use Windows Server 2008 as the server platform for those deployments.

3.2.1.2 Hardware Requirements

To install NetVanta UC Server, the server hardware platform must meet the minimum requirements in the following table. The minimum requirements are for a minimal installation. The recommended requirements are a guideline for more robust, reliable, and future-proofed systems.

Product engineering guidelines and recommendations should be consulted and followed for anything other than a minimal installation (for example, installations with more than 25 users). Sizing of the server hardware is dependent on the number of users, the traffic levels, and application services used. Selection of hardware should also take into account such things as redundant power supplies, uninterruptable power supplies (UPSs), and redundant disk arrays (for example, RAID) so that the end users needs and expectations are met, along with any future growth requirements.

Consult *TN102 - Hardware Platform Recommendations* and the *Planning and Deployment Guide*, available online at <http://kb.adtran.com>, for more information on correctly selecting the hardware.

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Hardware Component	Minimum	Recommended
Processor	Intel Pentium Dual-Core (E2140)	Intel Xeon Quad-Core (E5310)
RAM	4 GB 4 GB on Windows Small Business Server 2003 6 GB on Windows Small Business Server 2008	4 GB 6 GB on Windows Small Business Server 2008
Disk space	80 GB (usable space) 7200 RPM	146 GB (usable space) SAS – RAID 1 or RAID 5

3.2.2 Mail/Messaging Servers for Unified Messaging

NetVanta UC Server supports the following email servers for Unified Messaging:

- Microsoft Exchange™ Server 2000, 2003 SP1 (requires service pack 1 or later), 2007**, 2010**

WARNING: ** A known software limitation prevents UC Server from connecting to Microsoft Exchange Server 2010 or 2007 when the Exchange Mailbox, Client Access, and Hub Transport do not reside on the same server. Refer to the appendix [9623, 9666] for details.

- IBM® Domino™ Server 6.0.x, 6.5.x, 7.0, 8.0 (via IMAP)
- Google Mail (via IMAP using stunnel)
- University of Washington IMAPd
- Any 100 percent compliant IMAP4rev1 (RFC 3501) message store (different servers could require different query optimization techniques – consult product documentation for query optimization technique determination procedures)

Integration with Microsoft Exchange Server requires a MAPI connector to be installed on the NetVanta UC Server platform. The supported MAPI connectors, of which only one should be installed on the server platform, are the following:

- Microsoft Exchange Server MAPI Client and Collaboration Data Objects 1.2.1 (Version: 6.5.8165.0, 2010-Apr-28 – older versions are not compatible with all platforms). This is available for download free of charge from: <http://www.microsoft.com/downloads/details.aspx?familyid=e17e7f31-079a-43a9-bff2-0a110307611e&displaylang=en>
- Microsoft Outlook™ 2003 SP3

CAUTION: Failure to use SP3 with Microsoft Outlook 2003 will cause unreliable integration with Microsoft Exchange Server and could cause system outages.

- Microsoft Outlook 2007 SP1 (SP2 is not supported)

CAUTION: Outlook 2007 SP2 (recently released) is not compatible as a server MAPI connector with UC Server and installing it will cause NetVanta UC Server to be unable to connect to Exchange Server.

ADTRAN recommends using Microsoft Exchange Server MAPI Client and Collaboration Data Objects 1.2.1 instead of Microsoft Outlook and strongly encourages all customers to switch to this MAPI connector instead of Outlook. The benefits of doing this are as follows:

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- No Outlook license is required for the NetVanta UC Server system. The MAPI/CDO package is available at no charge.
- The MAPI/CDO package is a minimal installation that requires fewer Microsoft Updates.
- This component is designed and provided by Microsoft explicitly for the purpose of allowing applications such as NetVanta UC Server to access Exchange Server and does not include many of the client-side nuances of Outlook versions of MAPI.

On Exchange Server 2003, additional steps are required after following the manual integration instructions in Appendix A of the *Configuration Guide*:

Delegate **Exchange View Only Administrators** control to the NetVanta UC Server service account:

1. Open **Exchange System Manager** on an Exchange Server in the enterprise, or an administrative workstation.
2. Select the enterprise level object (the root object in the tree).
3. Select **Delegate control...** from the **Action** menu. This will open the **Exchange Administration Delegation Wizard**.
4. Click **Next**.
5. In the **Users or Groups** page of the wizard, click **Add** to open the **Delegate Control** dialog box.
6. Select the role **Exchange View Only Administrators** from the list of roles.
7. Click **Browse...** and select the service account used by NetVanta UC Server for Exchange Server and network integration.
8. Click **OK** in the **Select Users, Computers or Groups** dialog box.
9. Click **OK** in the **Delegate Control** dialog box.
10. Click **Next** in the **Users or Groups** page of the **Exchange Administration Delegation Wizard**.
11. Click **Finish** to complete and close the wizard.

3.2.3 Client Components

This section describes the required operating systems and hardware requirements for the NetVanta UC Server client components. Most installations will deploy client software to some or all of the end users of the system. Some installations do not require deployment of the client software depending on how NetVanta UC Server will be used.

3.2.3.1 Operating Systems

The NetVanta UC Server client components (NetVanta UC Client, NetVanta ucCompanion, and NetVanta ucCompanion - Live Attendant) support the following Microsoft® Windows™ Operating Systems:

- Microsoft Windows 7 (Professional, Ultimate, or Enterprise Editions) (x86, x64)
- Microsoft Windows Vista, SP1, SP2 (Business, Ultimate, or Enterprise Editions) (x86, x64)
- Microsoft Windows XP SP2, SP3 (Professional or Tablet PC Editions) (x86)
- Microsoft Windows Server 2008 R2 (x64)
- Microsoft Windows Server 2008 (x86, x64)
- Microsoft Windows Server 2003 R2, SP2 (x86)
- Microsoft Windows Server 2003 SP1, SP2 (x86)

Other software platforms are not supported.

3.2.3.2 Prerequisite Components

Client components now require Microsoft .NET Framework 3.5 SP1 to be installed on target systems. In addition, for some components additional Microsoft redistributable components will be installed by the client installer.

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3.2.3.3 Hardware Requirements

To install NetVanta UC client, the platform must meet the following minimum requirements for the specified Microsoft Windows operating systems listed below.

Client	XP, Server 2003	Vista, Windows 7, Server 2008, Server 2008 R2
Processor	x86 compatible processor 600 MHz or higher	x86 or x64 compatible processor 1 GHz
RAM	256 MB	1 GB
Free Disk space	500 MB	500 MB
Video	Super VGA (800 x 600) or higher resolution video adapter and monitor	Support for DirectX 9 graphics with: <ul style="list-style-type: none">• WDDM Driver• Minimum 128 MB graphics memory• Pixel Shader 2.0 in hardware• 32 bits per pixel

3.2.3.4 Email Clients for Unified Messaging

NetVanta UC Client integrates with the following email clients for Unified Messaging:

- Microsoft Outlook 2000, 2002/XP, 2003 SP3, 2007
- IBM Lotus Notes™ 6.0x, 6.5.x, 7.0, 8.0

3.3 Product Licensing (License Key)

All NetVanta UC Server products must be correctly licensed to operate. The license key obtained from ADTRAN is specific to each installation and defines the exact functionality licensed by the end user for their installation.

3.3.1 New Installs

When installing NetVanta UC Server for the first time, you must obtain a license key to install and activate the software.

3.3.2 Upgrades

To upgrade NetVanta UC Server from a previous major or minor release, you must obtain a new license key **prior to beginning** the upgrade. The existing license key, found in the License Information dialog box in the administrative NetVanta UC Client must be updated to the new license key prior to beginning the upgrade. After the new key is installed, you can continue to upgrade the server software. You do not need a new license key for maintenance (patch or dot) releases.

Upgrade license keys are only available to customers who have an active Software Assurance subscription.

3.3.3 Obtaining a New License Key

To obtain a new or upgrade a license key, fill out a license key request in the UC Tools area of the ADTRAN website (<http://www.adtran.com/uctools>).

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Note: Please allow enough time to obtain the license key – at least one (1) business day should be allocated to ensure the license key is obtained before installation or upgrade.

You will need the following information:

1. Contact information
2. Product Keys
 - New installs: available from materials that shipped with the product.
 - Upgrades: available for a user with Administrator privileges. From NetVanta UC Client, select the Help menu > License Information.
3. Purchase key
 - New installs: available from materials that shipped with the product.
 - Upgrades are available:
 - For a user with Administration privileges: From within NetVanta UC Client, select the Help > License Information. Click **Modify** license.
 - From the Product Licensing Wizard dialog box from Step 1 of NetVanta UC Server Configuration Wizard.
4. Machine ID
 - New installs: available from the Product Licensing Wizard dialog box of Step 1 of the NetVanta UC Server Configuration Wizard.
 - Upgrades are available:
 - For a user with Administration privileges: From NetVanta UC Client, select the Help > License Information. Click **Modify** license.
 - From the Product Licensing Wizard dialog box of Step 1 of NetVanta UC Server Configuration Wizard.
5. Platform specifications (CPU speed, RAM, and server OS) – available from the System control panel in the Windows Control Panel.
6. Product version and edition you will be installing or upgrading – available from the materials shipped with the product.
7. Message store type (Microsoft Exchange Server, Lotus Domino/Notes, IMAP4, or local machine) and version.
8. Legacy PBX interconnection, if applicable: PBX type, firmware version.

3.4 Prerequisite Components

NetVanta UC Server requires that prerequisite components be installed prior to installing the NetVanta UC Server software. The installer will detect which components are missing from the system and prompt accordingly. Some of the prerequisite components are included on the distribution media and can be installed automatically by the installer. However, others must be obtained directly from the vendor. Links to the relevant web-sites for any components that require downloading will be provided by the installer.

Not all prerequisites are required on all operating systems; specifics are noted below. Except where indicated, the prerequisites are installed automatically by the installer. The prerequisite components are:

- **Microsoft Windows Server 2003 Service Pack 1 Administration Tools Pack** (download link provided in installer) [*Windows XP only*]
- **Microsoft .NET Framework 3.5 SP1** (download link provided in installer)
- **Visual Studio 2005 SP1 Redistributable Files**
- **ADTRAN Software Logging Diagnostic Tools**
- **Windows Server 2008 Enhanced Desktop Feature** (a reboot is required after installation) [*Windows Server 2008-based systems only*]

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- **Microsoft SQL Server 2005 Express Edition** (SP3 version is installed, older service packs are supported except on some OS platforms)

CAUTION: NetVanta UC Server will only work correctly with the version of Microsoft SQL Server that is provided on the distribution media. Other instances of SQL Server cannot be used by NetVanta UC Server.

4 Installation and Upgrade Instructions

Please review Section 3, *Installation Requirements*, before proceeding with this section. It contains important information about product licensing, system requirements, and the versions of required external software components.

CAUTION: Failure to comply with the installation requirements, or properly follow the installation or upgrade instructions will result in an inoperable or poorly performing system.

4.1 New Install of NetVanta UC Server

This section contains an overview of the installation for NetVanta UC Server; for detailed installation procedures consult the *Installation Guide* applicable to your NetVanta Unified Communications product. To facilitate installation and configuration, have the following reference material available during installation:

- *Release Notes* (this document)
- *Planning and Deployment Guide*
- *Installation Guide*
- *NetVanta Unified Communications Server Presence and Control Components Guide* (for use with NetVanta ucCompanion - Live Attendant)
- *Configuration Guide*
- *Administrator Manual*

To ensure that all the required information is available during the installation and configuration process, it is recommended that the *Planning and Deployment Guide Worksheet* be completed.

4.1.1 Installing the Server Software

The installation software will automatically verify the prerequisites for software installation. Make sure that you run the installation from a Windows logon that has the ability to install software on the NetVanta UC Server system (for example, Administrator privileges).

To install NetVanta UC Server:

1. If the NetVanta UC Server software was downloaded from the ADTRAN website, follow Step a. If the NetVanta UC Server CD-ROM was shipped to you, go to Step b.
 - a. Unzip the contents of the file you downloaded to a temporary folder on NetVanta UC Server (you will need to provide a location and name for the folder). Start the installation by double clicking on **CAAutoRun.exe** (the ADTRAN NetVanta Unified Communications CD Menu will appear).
 - b. Insert the NetVanta UC Server CD-ROM. The Auto run application will start, and the ADTRAN NetVanta Unified Communications CD menu will appear.

Install the applications to the NetVanta UC Server platform by clicking on the **Install Server** button on the installation screen and following the prompts on the subsequent screens.

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- a. Ensure that all prerequisites are installed. These will vary depending upon your platform and the components purchased, such as the Presence and Control components and the Windows 2003 Server Administration Tool Pack. The NetVanta UC Server Installation Wizard will ensure that all prerequisite components are installed before proceeding.
 - b. After all the prerequisite components are successfully installed, the wizard allows you to install the NetVanta UC Server software.
2. Run the NetVanta UC Server Configuration Wizard, **Configure UC Server**. The NetVanta UC Server Configuration Wizard allows you to specify server properties such as message store, NetVanta UC Server administrator password, PBX information, and dialing properties. The wizard guides you through the server configuration process. The wizard does most of the configuration tasks automatically, however, site specific information about the network and server needs to be entered at various steps.
 3. When installing NetVanta UC Server for the first time, you **must** obtain a **license key**. To obtain a license key, please refer to Section 3.3, *Product Licensing (License Key)*.

4.1.2 Installing the Client Software

In order for NetVanta UC Server users to take full advantage of its functionality, client software should be deployed to their desktop or laptop computers. Refer to Section 4.3, *Installing or Upgrading NetVanta UC Client Software*, for installation options and procedures.

4.2 Upgrading/Cross-grading NetVanta UC Server

CAUTION: Backup procedures have changed from previous releases. For instructions on backup and restore procedures, refer to the *Planning and Deployment Guide*, available online at <http://kb.adtran.com>, and adjust backup procedures accordingly. Failure to do so could result in data loss or extended system outages in the case of hardware or software failures.

4.2.1 Upgrade/Cross-grade Matrix

The following table describes which versions of NetVanta UC Server can be upgraded to newer versions and which versions of CallAttendant Office can be cross-graded to NetVanta UC Server.

To From	4.0.x (UC Server)	4.6.x (NetVanta UC Server)
Pre 3.2.x (CallAttendant Office)	Unsupported via direct upgrade – upgrade to 3.2.x first, then to 4.0.x	Unsupported via direct upgrade – upgrade to 3.2.x first, then to 4.0.x
3.2.x (CallAttendant Office)	√	Unsupported via direct upgrade – upgrade to 4.0.x first
4.0.x (CallAttendant Office)	√	√
4.2.x (CallAttendant Office)		√
4.0.x (UC Server)		√
4.1.x (UC Server)		√
4.2.x (UC Server)		√

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4.3.x (UC Server)		√
4.4.x (UC Server)		√
4.5.x (NetVanta UC Server)		√
4.6.x (NetVanta UC Server)		√

In order to upgrade from older versions, interim upgrade steps must be followed. Refer to the applicable section below for more details.

4.2.2 Upgrading NetVanta UC Server from any 4.x.x Release

CAUTION: The existing version of NetVanta UC Server must NOT be uninstalled prior to upgrading. The installation process requires that the existing implementation be available in order to perform the upgrade correctly.

The following is a summary of the upgrade procedure from any NetVanta UC Server 4.x.x release; refer to the *Installation Guide* applicable to your NetVanta Unified Communications product, available online at <http://kb.adtran.com>, for detailed instructions on installing this component.

CAUTION: Failure to follow the steps below, exactly as described, could result in a system that does not upgrade or operate correctly after upgrade.

Perform the following steps:

1. If performing a major or minor upgrade, obtain a new license key. Please refer to the instructions in Section 3.3, *Product Licensing (License Key)*.
2. Backup the NetVanta UC Server. For instructions on backup and restore procedures, refer to the *Planning and Deployment Guide* applicable to your NetVanta Unified Communications product, available online at <http://kb.adtran.com>. Backing up will preserve the following data:
 - a. Users (greetings, services, announcements)
 - b. Port configuration
 - c. Attendant data
 - d. System configuration
 - e. Routing data
 - f. Telephone data
 - g. Gateway data
 - h. PBX configuration data

CAUTION: Failure to backup the data according to these instructions and the Technical Note **will** result in the inability to restore the system to the original configuration should the upgrade process be unsuccessful or aborted. **Always back the system up prior to upgrading.**

3. If a new license key was obtained in Step 1, modify the current license key using the following procedure:
 - a. Open NetVanta UC Client using the current installed product version and log in as a user with administrative privileges.
 - b. Select **License Information...** under the Help Menu on the main toolbar.
 - c. Click the **Modify license...** button to open the Modify License dialog box.
 - d. Enter the new license key in the space provided.
 - e. Click **OK** to close the Modify License Dialog box.
 - f. Click **Close** to close the License Information Dialog box.

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- g. Close NetVanta UC Client by clicking the top right corner x icon or selecting **Close** from the **File** menu.
4. If the NetVanta UC Server software was downloaded from the ADTRAN website, follow Step a. If the NetVanta UC Server CD-ROM was shipped to you, go to Step b.
 - a. Unzip the contents of the file you downloaded to a temporary folder on the server computer (you will need to provide a location and name for the folder).
 - b. Insert the NetVanta UC Server CD-ROM. The **CAAutoRun** application will start, and the ADTRAN NetVanta Unified Communications CD menu will appear – leave this open for now, you will use it later.
5. For ECS and BAS product variants, run the `Pre-Update.bat` script file as follows:
 - a. Click the **Start** menu and select **Run...**
 - b. Type `cmd.exe` and click **OK** to open a command prompt window

NOTE: On systems with User Account Control (UAC) enabled, such as Windows Server 2008 R2, you must start the command prompt window as Administrator. To do this, instead of Step a and Step b above, do the following:

1. Click on the **Start** menu.
 2. Type `cmd.exe` in the search bar. (If classic start menu is enabled, locate **Command Prompt** under **All Programs | Accessories** instead.)
 3. Right click on `cmd.exe` in search results (or **Command Prompt** in the menu), and select **Run as administrator**.
 4. Accept the UAC prompt to elevate the command prompt to administrative privileges.
- c. Navigate to the script folder on the installation media using the `CD` command. This is located in the `Utility\Scripts` subfolder of the installation media.

Example: `CD /d C:\NetVantaUCServerInstallMedia\Utility\Scripts`

- d. Run the `Pre-Update.bat` script, supplying any appropriate parameters relevant to your installation:

Syntax: `Pre-Update.bat [/V | /?] [PhoneTypes Folder] [Backup Folder]`

- If your NetVanta UC Server installation is not located at `C:\Program Files\ADTRAN\NetVanta UC Server\`, you must specify the location of the `PhoneTypes` system data folder as shown in the example below.
- If backups should be written to a location other than `C:\Backup\PhoneTypes`, then you must specify a backup folder as shown in the example below.
- The `/?` option provides help on the script; the `/V` option provides more detailed output and logging.

Example: `Pre-Update.bat "C:\Program Files\ADTRAN\NetVanta UC Server\Data\System\PhoneTypes\" "C:\Backup\PhoneTypes\"`

- e. When the script prompts you to continue, confirm the information displayed, type `y`, and then press **Enter**.
 - f. Examine the output of the script to ensure it ran correctly. The output is placed in a file called `Pre-Log.txt` in the backup location. The default backup location is `C:\Backup\PhoneTypes`.
 - g. Leave the command window open because it will be used later.
6. The ADTRAN NetVanta UC Server Application Services service could be unable to be started during the upgrade due expiry of the service account password. This can also occur spontaneously on some Windows XP installations or in networks where account passwords have to be changed regularly, but will not be detected until the machine is restarted or the ADTRAN NetVanta UC Server Application Services service is restarted. Be sure to have the service account password accessible in order to reset it immediately. To verify that the service account password has not expired, do the following:
 - a. Open the **Services** administration tool from **Start > Control Panel > Administrative Tools**.

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- b. Locate the service named ADTRAN NetVanta UC Server Application Services.
- c. Right click on the service, and select **Restart** from the context menu.
- d. If the service fails to start, right click on the service, and select **Properties** from the content menu.
- e. Select the **Log On** tab. Re-enter the service account password in the provided fields and click **OK**.
- f. Attempt to start the service again by right clicking on the service, and selecting **Start** from the context menu. If the service again fails to start, verify that the service account is operating correctly and is not locked out.

Failure to perform this step will cause the install to fail with a 1920 error if there is a problem with the service account or its password. This can be corrected by following the same steps while the 1920 error is displayed. Do not cancel the 1920 error dialog box because it will fail to upgrade and your system will have to be restored from backups. When you have corrected the service account password, click **Retry** in the 1920 error dialog box.

7. If the NetVanta UC Server software was downloaded from the ADTRAN website, follow Step a. If the NetVanta UC Server CD-ROM was shipped to you, go to Step b.
 - a. Locate the temporary folder where you extracted the files in a previous step. Start the upgrade by double clicking on **CAAutoRun.exe** (the ADTRAN NetVanta Unified Communications CD Menu will appear).
 - b. From the ADTRAN NetVanta Unified Communications CD Menu (opened when the CD was inserted in a previous step), click the **Install Server** button to prepare the NetVanta UC Server upgrade.
8. On an upgrade from previous releases, you could be required to install or update prerequisite components. Click on the **Verify or automatically install remaining components** button to proceed. Some components might require downloading from the vendor's websites.
9. Adding the NetVanta UC Server Presence and Control Components:
 - a. If you are using the NetVanta Unified Communications Server product variant, or if you do not plan on using NetVanta ucCompanion - Live Attendant:
 - Disable the following option: **Install Presence Components**.
 - Click **Next**.
 - b. If you are upgrading the Presence and Control Components from a 4.2.x, 4.3.x, 4.4.x, 4.5.x or 4.6.x version:
 - Click the **Install Presence Components** button in the **Preparing UC Server Installation** dialog box.
 - Click **Install** on the **Resuming the ADTRAN NetVanta UC Server Presence and Control Components Setup Wizard** screen.
 - Click **Finish** when complete.
 - Click **Yes** when prompted to restart the system for the configuration changes to take effect.
 - c. If you are upgrading the NetVanta UC Server Presence and Control Components from a 4.1 Trial version:
 - Click the **Install Presence Components** button in the **Preparing UC Server Installation** dialog box.
 - Click **Next** on the welcome page of the **ADTRAN UC Server Presence and Control Components Setup** wizard and follow the prompts on subsequent screens until finished. Consult the *NetVanta Unified Communications Server Presence and Control Components Guide* for additional installation documentation.
10. Upgrading the NetVanta UC Server.
 - a. If upgrading from 4.2.x, 4.3.x, 4.4.x, 4.5.x or 4.6.x:
 - The ADTRAN **NetVanta Unified Communications Server Setup** welcome page will appear briefly as the upgrade does various checks on the system.
 - Click the **Install** button when the page titled **Resuming the ADTRAN NetVanta Unified Communications Server Setup Wizard** appears and follow the prompts to complete the upgrade.
 - Click the **Finish** button to close the setup wizard and return to the **Preparing NetVanta UC Server Installation** dialog box.
 - b. If upgrading from 4.0.x or 4.1.x Trial:

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- Install the server application to the NetVanta UC Server platform by clicking on the **Install UC Server** button.
 - The ADTRAN **NetVanta Unified Communications Server Setup** welcome page will appear briefly as the upgrade does various system checks.
 - Click the Install button when the page titled **Resuming the ADTRAN NetVanta Unified Communications Server Setup Wizard** appears.
 - Continue clicking the prompts to complete the upgrade.
 - Click the Finish button to return to the **Preparing UC Server Installation** dialog box.
11. Click the **Configure UC Server** button to launch the NetVanta UC Server Configuration Wizard.

NOTE: *If all the steps in the server configuration were completed prior to the upgrade, you will be presented with three options (**Change Service Account, Users, and Phone Types**). You could be required to perform the first option, **Change Service Account** to reset the service account to what was configured prior to the upgrade.*

12. In an upgrade from 4.0.x you need to complete Gateway configuration in the NetVanta UC Server Configuration Wizard then reset the service account:
- a. Click on the **Configure UC Server** to launch the **NetVanta UC Server Configuration Wizard**.
 - b. When prompted to login, login as a user with NetVanta UC Server administrative privileges.
 - c. Complete the Gateways portion of the wizard. (Select **Next**, select **None**, then **Next**, then click **Finish** to close the Gateway wizard).
 - d. Click **Exit** to close the **NetVanta UC Server Configuration Wizard**.
 - e. Click the **Configure UC Server** button in the **Preparing UC Server Installation** dialog box.
 - f. Login as a user with NetVanta UC Server administrative privileges when prompted.
 - g. Click on the **Change Service Account** option and proceed to configure the service account.
 - h. Select the service account that was configured prior to the upgrade.
 - i. Click **Close** to exit the **NetVanta UC Server Configuration Wizard**.
 - j. Click **Close** to exit the **Preparing UC Server Installation**.
13. For ECS and BAS product variants, run the `Post-Update.bat` script file as follows:
- a. Locate the command window opened in Step 5.
 - b. Run the `Post-Update.bat` script, supplying any appropriate parameters relevant to your installation:

Syntax: `Post-Update.bat [/V | /?] [PhoneTypes Folder] [Backup Folder]`

- If your UC Server installation is not located at `C:\Program Files\ADTRAN\NetVanta UC Server\`, you must specify the location of the PhoneTypes system data folder as shown below in the example.
- If backups were written to a location other than `C:\Backup\PhoneTypes`, then you must specify the same backup folder as specified in Step 5.
- The `/?` option provides help on the script; the `/V` option provides more detailed output and logging.

Example: `Post-Update.bat "C:\Program Files\ADTRAN\NetVanta UC Server\Data\System\PhoneTypes\" "C:\Backup\PhoneTypes\"`

- c. When the script prompts you to continue, confirm the information displayed, type `y`, and then press Enter.
- d. Examine the output of the script to ensure it ran correctly. The output is placed in a file called `Post-Log.txt` in the backup location, which defaults to `C:\Backup\PhoneTypes`.
- e. When the script completes, it will indicate if any site-specific customizations have been made. Details of the customizations will be output to a file called `FileComparison.txt` in the backup location. The default backup location is `C:\Backup\PhoneTypes`.

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- f. Re-apply site-specific customizations to the relevant phone configuration files. Refer to phone vendor documentation if needed. Once any customizations have been re-applied, restart the ADTRAN NetVanta UC Server Application Services service using the Services administrative tool.
14. Update the `RestartOverrides.cfg` file (located in ...\\NetVanta UC Server\\Data\\System\\Recovery\\) according to the following conditions:
 - a. If manual changes have been made to this file, then you must manually copy any entries from `RestartOverrides.cfg.original` to `RestartOverrides.cfg` that are not present in the latter file.
 - b. If no manual changes were made to this file, then replace the contents of `RestartOverrides.cfg` with the contents of `RestartOverrides.cfg.original`. It is not necessary to restart the ADTRAN NetVanta UC Server Application Services service. However, if the file has been appended to instead of being replaced, then the application service must be restarted for the changes to take effect.
15. If **Install Presence Components** was selected in Step 9, you will be required to configure these components at this time. Please consult the *NetVanta Unified Communications Server Presence and Control Components Guide* for configuration documentation. If this is an upgrade from 4.2.x, 4.3.x, 4.4.x, 4.5.x or 4.6.x, then the NetVanta UC Server Presence and Control Components could have already been configured.
16. For optimal performance, disable the Indexing Service provided by Windows. For detailed instructions, please refer to Section 3.7, *Configuring Services*, of the *Installation Guide*.
17. For ECS and BAS product variants, re-apply phone configurations to all phones in the system as follows:
 - a. Open NetVanta UC Client and log in as a user with administrative privileges.
 - b. Click on the **Administration** navigation bar.
 - c. Click on the **Phones** folder in the **Administration** navigation bar.
 - d. In the contents pane, select all phones by clicking on the first phone, then pressing Shift-Ctrl-End on the keyboard. All phones should now be selected.
 - e. Right click on one of the selected phones, and select **Reload Configuration** from the menu. This will cause all phone configuration files to be regenerated and phones to reload their configuration data (rebooting most phone types).

4.2.3 Cross-grading from CallAttendant Office Server 4.0.x/4.2.x to NetVanta UC Server

CAUTION: The existing version of CallAttendant Office must NOT be uninstalled prior to cross-grading. The installation process requires that the existing implementation be available in order to perform the upgrade correctly.

The following is a summary of the procedure for cross-grading your CallAttendant Office release 4.0.x/4.2.x software, please consult the *Installation Guide* for detailed instructions on installing the NetVanta UC Server component. If the CallAttendant Office software is currently below the 4.0 Software versions, you must first upgrade to Release 4.0.x version.

This upgrade will take significantly longer as the NetVanta UC Server installation program will make a complete copy of the data for the upgraded installation. For large installations where voice and fax messages are stored on locally, it can take one to two hours to copy the data during the upgrade. Do not cancel the upgrade during this process. As a result, this upgrade will require at least twice as much disk space as the Data folder occupies in order to perform the upgrade.

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Prior to upgrading to release 4.0.x, do the following:

1. Backup the CallAttendant Office using the instructions found in *TN071 – Backup and Restore Procedures for CallAttendant Office*, available online at <http://kb.adtran.com>, to preserve the following data:
 - a. Users (greetings, services, announcements)
 - b. Port configuration
 - c. Attendant data
 - d. System configuration
 - e. Routing data
 - f. Telephone data
 - g. Gateway data

CAUTION: Failure to backup the data according to these instructions and the Technical Note **will** result in the inability to restore the system to the original configuration should the upgrade process be unsuccessful or aborted. **Always back the system up prior to upgrading.**

2. Record the CallAttendant Office service account username and password. This can be done using the Services Control Panel application. Select the CallAttendant Office service and record the username. The password must already be known because it cannot be viewed in the Services Control Panel.
3. You must have an up-to-date license key to support the latest release of CallAttendant Office 4.0.x and NetVanta UC Server (in some circumstances, you could receive two license keys that will be used to support the upgrade). To obtain a new license key, please refer Section 3.3.3, *Obtaining a New License Key*.
4. Ensure that you enter the new license key in the CallAttendant Office administrator application (Help > License Information) menu prior to upgrading the software.

CAUTION: If an existing PBX is being replaced with NetVanta Enterprise Communications Server, please contact support@adtran.com for additional instructions.

To install NetVanta UC Server:

1. **Rename** all of the configuration files in the `.\Data\System` by appending `.old` to the existing filename:
Example: `C:\Program Files\Objectworld\CallAttendant Office Server\Data\System\DefinityPBXDefinition.cfg` to `DefinityPBXDefinition.cfg.old`
2. If the NetVanta UC Server software was downloaded from the ADTRAN website, follow Step a. If the NetVanta UC Server CD-ROM was shipped to you, go to Step b.
 - a. Unzip the contents of the file you downloaded to a temporary folder on the server computer (you will need to provide a location and name for the folder). Start the installation by double clicking on **CAAutoRun.exe** (the ADTRAN NetVanta Unified Communications CD Menu will appear). Preserve a copy of the installation media accordingly. Refer to Section 3.1, *Preserving Installation and Upgrade Media*.
 - b. Insert the NetVanta UC Server CD-ROM. The Auto run application will start, and the ADTRAN NetVanta Unified Communications CD menu will appear.
3. If you plan on using NetVanta ucCompanion – Live Attendant, install or update the NetVanta UC Server Presence and Control components at this time. Consult the *NetVanta UC Server Presence and Control Components Guide* for installation documentation, which is provided on the distribution media.
4. Install the server applications to the NetVanta UC Server platform by clicking on the **Install UC Server** buttons on the NetVanta UC Server installation screen and following the prompts on the subsequent screens until finished.
5. For optimal performance, disable the Indexing Service provided by Windows. For detailed instructions, please refer to Section 3.7, *Configuring Services*, of the *Installation Guide*.
6. Once the installation has completed, select the **Configure UC Server** button to run the **Server Configuration Wizard**, but do not add anything if it has already been configured. From the set of options, at a minimum, complete the following tasks:

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- a. Enter the NetVanta UC Server license key to enable SIP functionality.
- b. Configure the **Windows Network Integration** and select from one of the following:
 - i. If the service account was previously configured for **Local System** account, you must create a Windows account on the local machine. Operating the **Application Services** service on the **Local System** account is no longer supported.
 - ii. If the service account was previously configured with a Windows Active Directory™ account, then configure the **Existing Service Account**.
7. Open the **Windows Services application** and ensure that the **ADTRAN NetVanta UC Server Application Services** service is set to start automatically. Note, you might have to refresh (F5) the services application in order to get a current view of the status. From the **Windows Services Applications**, start the **ADTRAN NetVanta UC Server Application Services** service if it is not already started.
8. Complete the remaining steps in the **NetVanta UC Server Configuration Wizard**. If appropriate, make any additional configuration changes required, such as adding NetVanta Enterprise Communications Server as a new communication system, adding new phone types or new gateways.

4.2.4 Cross-grading from CallAttendant Office Server 3.2.x to NetVanta UC Server (all editions)

NOTE: *It is not possible to upgrade directly from 3.x to 4.2 and later releases (Refer to Section 4.2.1, Upgrade/Cross-grade Matrix). An upgrade from CallAttendant Office 3.x to CallAttendant Office 4.o.x must be performed as an intermediate step. Once this is complete, you can upgrade to the latest NetVanta UC Server 4.x release.*

To upgrade 3.x to 4.o.x:

1. Backup the CallAttendant Office using the instructions found in *TNo71 – Backup and Restore Procedures for CallAttendant Office*, available online at <http://kb.adtran.com>, to preserve the following data:
 - a. Users (greetings, services, announcements)
 - b. Port configuration
 - c. Attendant data
 - d. System configuration
 - e. Routing data
 - f. Telephone data
 - g. Gateway data

CAUTION: Failure to backup the data according to these instructions and the Technical Note **will** result in the inability to restore the system to the original configuration should the upgrade process be unsuccessful or aborted. **Always back the system up prior to upgrading.**

2. Stop the **CallAttendant Office Service** from the **Windows Services application**.
3. **Rename** the following files:
 - a. C:\Program Files\Objectworld\CallAttendant Office Server\Data\System\Announcements folder to Announcements.old
 - b. C:\Program Files\Objectworld\CallAttendant Office Server\Data\System\DefinityPBXDefinition.cfg to DefinityPBXDefinition.cfg.old
4. If the CallAttendant Office software was downloaded from the ADTRAN website, follow Step a. If the CallAttendant Office CD-ROM was shipped to you, go to Step b.
 - a. Unzip the contents of the file you downloaded to a temporary folder on the CallAttendant Office server (you can create a CallAttendant Office folder). Start the installation by double clicking on **CAAutoRun.exe** (the CallAttendant Office installation screen will appear). Preserve a copy of the installation media accordingly. Refer to Section 3.1, *Preserving Installation and Upgrade Media*.
 - b. Insert the CallAttendant Office CD-ROM. The Auto run application will start and the CallAttendant Office installation screen will appear.
5. Install the Server applications to the CallAttendant Office platform by clicking on the **Install CallAttendant Office Server** button on the CallAttendant Office installation screen and following the prompts on the subsequent screens until finished. Do not choose to reboot the computer at this point.

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6. Open the **Windows Services** application and set the **CallAttendant Office Service** to start **automatically**.

NOTE: You might have to refresh (F5) the Services application in order to get a current view of the status.

7. From the **Windows Services** applications, start the **CallAttendant Office service**.
8. Convert the system audio. If the software was upgraded from Release 3.1 or earlier, you must convert the audio from the pre-existing 11 kHz-8bit audio format to the newly supported 8 kHz mu-law audio. Although the CallAttendant Office server will change the audio format on-the-fly the conversion will introduce latency in playing audio files or messages.

CAUTION: Ensure that you perform the audio conversion during the maintenance window – typically, after normal business hours.

To perform the audio conversion:

1. From **My Computer**, navigate to the C:\Program Files\Objectworld\CallAttendant Office Server\Bin directory.
2. Double-click on the `ConvertAudio.exe` application.

4.2.5 Upgrading Client Software

If anything other than a minor server upgrade has taken place, client software **must** be updated on end user computers; only 4.6.x client software is supported with 4.6.x server software. Refer to Section 4.3, *Installing or Upgrading NetVanta UC Client Software*, for installation options and procedures.

4.3 Installing or Upgrading NetVanta UC Client Software

This section documents manual installation procedures, and presents other techniques for automated client deployment.

CAUTION: Only release 4.6.x NetVanta UC Client software is compatible with NetVanta UC Server 4.6.x software (the patch revision value 'x' does not need to be identical). All incompatible clients must be upgraded after the NetVanta UC Server has been upgraded.

4.3.1 Manual Installation or Upgrade Instructions

NOTE: The user installing NetVanta UC Client software **MUST** have administrative privileges on that desktop computer.

1. If the NetVanta UC Server software was downloaded from the ADTRAN website, follow Step a. If the NetVanta UC Server CD-ROM was shipped to you, go to Step b.
 - a. Unzip the contents of the file you downloaded to a temporary folder on the desktop computer (you will need to provide a location and name for the folder). Start the installation by double clicking on **CAAutoRun.exe** (the ADTRAN NetVanta Unified Communications CD Menu will appear). Preserve a copy of the installation media accordingly. Refer to Section 3.1, *Preserving Installation and Upgrade Media*.
 - b. Insert the NetVanta UC Server CD-ROM. The Auto run application will start, and the ADTRAN NetVanta Unified Communications CD menu will appear.
2. Install the client applications to the client computer by clicking on the **Install Client** button on the installation screen and following the prompts on the subsequent screens.

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CAUTION: Installing NetVanta UC Client directly on the NetVanta UC Server platform is not supported. Ensure that the client is installed on a separate platform meeting the minimum requirements.

4.3.2 Other Techniques for Installing and Upgrading Client Software

Client software can be deployed using automated techniques including:

- GPO-based MSI installation. Refer to *TNo34 - Client Software Installation Guide*, available online at <http://kb.adtran.com>, for more information on this option.
- GPO-based login scripts that invoke either `SETUP.EXE` or `MSIEXEC.EXE` with appropriate parameters. Prerequisite components must have been previously installed successfully. Consult standard Microsoft documentation for more information on those techniques.

5 Support, Documentation, and Training

5.1 Support

Self-service support material can be obtained from the ADTRAN website, <http://www.adtran.com/support/>, and from the ADTRAN Technical Support Knowledge Base, <http://kb.adtran.com/>.

Information on product support services can be obtained from the ADTRAN website: <http://www.adtran.com/support/>.

5.2 Documentation

Product documentation and additional technical support material can be found on the ADTRAN website, <http://www.adtran.com/support/>, and in the ADTRAN Technical Support Knowledge Base, <http://kb.adtran.com/>.

5.3 Training

Information on current training programs and certifications can be found on the ADTRAN website: <http://www.adtran.com/training/>.

5.4 Product Downloads and Third-Party Drivers

Product downloads and third-party drivers and patches are available in the support area of the ADTRAN website: <http://www.adtran.com/support/>.

6 Third-party Interoperability

CAUTION: Currently, some third-party drivers and applications DO NOT yet support Windows Server 2008 and derived platforms. When using TAPI integrations, or other integrations requiring the use of CTI drivers, please review driver documentation for those products BEFORE proceeding with plans to use Windows Server 2008 as the server platform for those deployments.

Please consult information provided in *TNo51 – UC Server Interoperable SIP Devices and Services*, available online at <http://kb.adtran.com>, for interoperability information related to:

- SIP telephone terminals

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- SIP soft phones
- SIP paging speakers, amplifiers and related devices
- SIP wireless terminals
- SIP gateways and application layer gateways (ALGs)
- ITSPs

Information on PBX integration and software applications is provided below in this document.

6.1 NetVanta UC Server with a PBX Integration

6.1.1 Supported Private Branch Exchanges (PBX)

NetVanta Unified Communications Server has the capability to connect to multiple traditional PBXs and IP PBXs while simultaneously supporting SIP services **ECS**. NetVanta UC Server can be deployed as a voicemail, unified message server, database IVR platform, and fax server behind a traditional PBX while also simultaneously supporting SIP telephony **ECS**. This provides a useful transition strategy for companies looking to migrate to VoIP but who still want to leverage their existing infrastructure. NetVanta UC Server users who employ a traditional PBX for telephony can still take advantage of Active Directory™ integration for user management; the telephony features will be managed through their PBX configuration interface.

NetVanta UC Server integrates with a wide variety of traditional PBX and IP PBXs using Dialogic 1000 and 2000 Media Gateways. The following PBXs are now supported using the Dialogic Media Gateway:

- Alcatel Omni PCX 4400
- Avaya Communications Manager
- Avaya Definity G3
- Avaya Legend
- Avaya Merlin Magix
- Avaya Partner
- Ericsson BusinessPhone
- Ericsson MD110
- Intecom PointSpan M6880
- Mitel 3300
- Mitel SX-2000
- Mitel SX-200D Family
- NEC NEAX2400
- Nortel CS-1000
- Nortel DMS 10
- Nortel DMS 100
- Nortel Meridian 1
- Phillips Sopho
- Rolm (Siemens) 8000
- Rolm (Siemens) 9000
- Rolm (Siemens) 9751
- Siemens HiCom 150E
- Siemens HiCom 300
- Siemens HiPath 4000
- Toshiba CTX

For more specific details on which PBX editions and interfaces are supported, consult the Dialogic Media Gateway documentation available from Dialogic's website: <http://www.dialogic.com/support/helpweb/mg/integration.htm>.

NetVanta UC Server also integrates with the PBXs listed in the table below using one of the following techniques:

- Analog port integration with in-band tones using Dialogic® D/4PCIUF and D/120JST-LS Media Boards
- Digital set emulation using Dialogic® D/82JCT-U and D/42JCT-U PBX Integration Boards
- CTI link/analog port integration using Dialogic® D/4PCIUF and D/120JST-LS Media Boards
- PBX Vendor supplied Microsoft TAPI/WAVE Service Providers

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PBX Vendor/Model	Minimum Software Release	Technical Note (TN) Reference Number	Integration Type	Third-Party Hardware/Software (Recommended)
Avaya Communications Manager	1.0 and above	TN016	Digital set emulation: - 7434D emulation - 8434D emulation - 7434ND emulation	Dialogic 6.0 SU 229
Avaya Definity (no CLID)	6.3 and above	TN009	Analog port using mode codes; mode code option is required	Dialogic 6.0 SU 229
Avaya Definity/Multi-Vantage (with CLID)	4.0 and above	TN010	Digital set emulation: - 7434D emulation - 8434D emulation - 7434ND (7.5 and above)	Dialogic 6.0 SU 229
Avaya IP Office	2.0 and above	TN012	CTI link/analog port using TAPI	- IP 400 CTI link - IP 400 TAPI-WAVE Dialogic 6.0 SU 229
Avaya Merlin Legend	3.1 and above		Analog port using mode codes	Dialogic 6.0 SU 229
Avaya Merlin Magix (with CLID)	2.1 and above	TN008	Analog port using mode codes	Magix CTI link bundle Dialogic 6.0 SU 229
Avaya Merlin Magix (no CLID)	2.1 and above	TN008	CTI link/analog port using mode codes /TSAPI	Dialogic 6.0 SU 229
Avaya Partner ACS	3.0 and above		Analog port using mode codes	Dialogic 6.0 SU 229
Cisco Call Manager	4.2	TN039	Cisco-supplied Microsoft TAPI/WAVE Service Provider	
Mitel SX200 (family)	G1005/LW16 F41.0.2	TN011	Analog port using enhanced in-band DTMF tones	Dialogic 6.0 SU 229
Mitel 3300 (IVR only)	Any version that requires ONS voicemail support		Analog port using in-band DTMF tones	Dialogic 6.0 SU 229

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PBX Vendor/Model	Minimum Software Release	Technical Note (TN) Reference Number	Integration Type	Third-Party Hardware/Software (Recommended)
Nortel Norstar	4.2 and above	TN003	Digital set emulation: - M7324 set emulation	Dialogic 5.1.1 with PTR.31016 **
Generic in-band	PBX dependent		Analog port using in-band DTMF tones	Dialogic 6.0 SU 229

** NetVanta UC Server ONLY supports Dialogic Release 5.1.1 software with PTR.31016 (LIBFAXMT.DLL) for Norstar PBXs since the Do Not Disturb feature does not work with Dialogic Release 6.0 for Nortel Norstar PBX.

6.1.2 New Installation of Dialogic Software

To install Dialogic software on the new NetVanta UC Server:

1. Install the Dialogic System Software compatible with the PBX make and model.
 - a. Run SETUP.EXE from Windows Explorer.
 - i. When prompted to select features, select **Core Runtime Package**, select **Next**.
 - ii. When advised that the installation will install third-party software, select **Yes**. The installation will detect and remove any existing Dialogic system software.
 - iii. The first stage of the installation will require a reboot. When prompted to restart the system, select **Yes**.
 2. Verify through the Windows Hardware Device Manager that all of the Dialogic cards reside in the Dialogic Springware Devices section.

NOTE: *If any of your cards appear to be improperly configured (for example, caution symbol or otherwise) then you will have to update the driver.*

- a. To update the driver:
 - i. Locate and configure the Dialogic card from Device Manager.
 - ii. Select the **Driver** tab and select **Update Driver**.
 - iii. Choose **Search for suitable driver for my device (recommended)**, and click **Next**.
 - iv. When the driver update locates the Dialogic Card, click **Next**.
- b. Repeat Step i through Step iv for each Dialogic card that appears improperly installed or configured.
3. Run **Dialogic Configuration Manager** (Start > Programs > Dialogic System Release > Configuration Manager – DCM. DCM will detect any Dialogic hardware installed on the machine hosting NetVanta UC Server software.
 - a. Ensure that the board settings match your PBX type. (The default configuration is Nortel Norstar.)
 - b. For digital set emulation, open each card and ensure the **MISC** tab > **PBXSwitch** parameter is configured according to your integration.
 - c. Refer to the relevant configuration guide
4. Configure the Dialogic service to start automatically; Select Settings > System Device Autostart to **Start System**. It is normal to encounter the error message **Failed to set the Device Autostart setting. Requested data not found in NCM data storage**.
5. Proceed with NetVanta UC Server installation instructions.
6. Verify the Dialogic board ordering by running NetVanta UC Client as an administrator and call each port. If the ports are not answering in the correct order, switch the Dialogic cables on the back of the machine hosting NetVanta UC Server software.

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6.1.3 To upgrade Dialogic software on existing NetVanta UC Server (if required)

Once you have determined that the Dialogic software version needs to be upgraded then perform the following steps:

1. Remove existing Dialogic system software.
 - a. Stop the existing NetVanta UC Server and Dialogic services.
 - b. Launch the Microsoft Windows Service control application (Start > Settings > Control Panel > Administrative Tools > Services).
 - i. **Stop** the service labeled **ADTRAN NetVanta UC Server Application Services** and change the service **Startup type** from Automatic to Manual.
 - ii. **Stop** the service labeled **Dialogic System Service**.
 - c. Remove the Dialogic System Software.
 - i. Locate the Add/Remove Programs from the Windows Control Panel (Start > Settings > Control Panel > Add/Remove Programs).
 - ii. **Select** and **Remove** the Dialogic software.
 - d. Reboot the system as indicated.
2. In rare instances, you might need to run a Dialogic utility to clean up the old Dialogic Release 5.1.1 installation files, directories, and registry settings. This batch file can be located in \cleanup\dlgcl_re1_clean.bat in the Dialogic installation directory. This will be apparent if the Dialogic DCM – configuration management application is not installed.
3. Install the Dialogic System Software.
 - a. Follow the procedure in the previous section (*New Installation of Dialogic Software*) to install the required version of Dialogic applicable to your PBX.
4. Launch the Microsoft Windows Service control application (Start > Settings > Control Panel > Administrative Tools > Services).
 - a. Set the **Startup type** to Automatic for the service labeled **ADTRAN NetVanta UC Server Application Services**.

6.2 Software Product Interoperability

The following other software products have been tested and are known to work with NetVanta UC Server:

Vendor	Interoperability Level	Product/Service	Software Version
Research In Motion (RIM)	Interoperable	BlackBerry Enterprise Server for Microsoft Exchange	4.1 or newer
		BlackBerry Handheld Devices	4.2.1 rev 163, 4.2.2 or newer
PhoneTag	Interoperable	PhoneTag (formerly SimulScribe)	n/a
Google	Interoperable	Google Mail (Gmail) using stunnel (SSL proxy)	n/a stunnel 4.24

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7 Known Software Limitations

The following limitations are known in this NetVanta UC Server release:

Tracking #	ISSUE	Workaround
4325	Silent Installation of NetVanta ucCompanion – Live Attendant (installation fails using command line with parameters: /S /v /qn).	Use Install Wizard
4503	NetVanta UC Server implementations on a Microsoft Windows Small Business Server (SBS) will not be able to view voice or fax messages from the local machine or through the terminal services client connected to the same Small Business Server. The Microsoft MAPI version that is installed with Microsoft Exchange Server does not support the same capabilities as the MAPI driver that is installed with Microsoft Outlook. Installing Outlook on the SBS server will not resolve this issue, nor is it supported by Microsoft.	None. This is not a supported deployment scenario.
4614	There is currently a known issue with the Windows Installer on Windows Vista platforms. During uninstall of NetVanta UC Server, the User Account Control dialog box indicates that the publisher is unidentified. This issue is caused when the Windows Installer caches a copy of the MSI package in the Installer folder during the installation process. Windows Installer removes some data from the cached copy of the MSI in an effort to reduce the size consumed by the copied MSI. As a result, the embedded digital signature becomes invalid.	Accept the warning and continue.
5020	Call Swap on NetVanta ucCompanion – Live Attendant is not supported.	None.
5124	On Windows Vista, the fax printer driver will not successfully execute if NetVanta UC Client is installed by either the administrator or by a user that has used the Run as administrator option. Note that this scenario does not apply to a user installing NetVanta UC Client that has elevated their privileges to administrator to install NetVanta UC Client.	In both cases, after installing NetVanta UC Client it will be necessary to log out and log back in to Windows (as the appropriate user).
5204	On Windows Vista, the fax printer driver will not successfully execute if NetVanta UC Client is first launched directly from Outlook or by running the executable directly from the bin folder.	The first time that NetVanta UC Client is run it must be launched from the Start Menu.

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Tracking #	ISSUE	Workaround
5571	Three-way conference initiators do not pass DTMF tones generated by conference participants.	Have the conference initiator generate the DTMF tones.
5742	Windows services automatic recovery processes hinder diagnosis of any startup issue and could result in unnecessary entries added to the system or application event logs.	Ensure the recovery settings for the ADTRAN NetVanta UC Server Application Services service are set to Take no Action in all cases (first failure, second failure, and subsequent failures). These settings should not be changed.
5859	Minor noncompliance related to Request URI in ACK and BYE SIP Messages under very specific circumstances involving specialized equipment. ECS, BAS	None.
5862	Incorrect call status displayed on NetVanta ucCompanion – Live Attendant UI occurs infrequently and then usually only on low end or overloaded systems and immediately after an installation.	Restart the ADTRAN NetVanta UC Server SIM service in the Services control panel.
5878	Windows XP and Windows Server 2003 system performance – Indexing service uses a large amount of page file space (larger than 1.2 GB) and CPU time.	Turn off the Windows Indexing Service. Refer to the NetVanta UC Server installation manual for instructions.
5966	When creating a UC user from within Active Directory, it is possible to neglect creating an associated identity at the same time. This has the side effect of not creating a temporary PIN for the user.	The administrator can explicitly set the PIN from within the AD pages.
6073	Service account password is not preserved on upgrade from 4.0.x to 4.2.x if the current account option is selected in the Select Service Account dialog box. This specifies that the currently configured service is to be used as the service login account. If selected, the ADTRAN NetVanta UC Server Application Service will fail to restart.	The upgrade instructions included in this document describe the necessary steps to restore the service account. Please ensure you follow these instructions.
6256	On an upgrade from pre 4.2.1, the NetVanta ucCompanion – Live Attendant Calls menu does not automatically use the new shortcuts as described in the documentation. ECS, BAS	The Calls menu shortcut assignments are customizable, so to preserve these custom settings, the new shortcut mappings are not automatically registered. To manually reset the shortcuts to the new mappings, perform the following action: Within the View menu select Toolbars > , then Customize.... In the Customize dialog box, select the Keyboard tab then click the Reset All button.

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Tracking #	ISSUE	Workaround
6614	In some cases, caller information might not be received in distributed IP Office TAPI integrations.	None.
6797	Uninstalling NetVanta UC Server from Windows Server 2008 does not automatically stop the OBJECTWORLD instance of SQL Server.	After uninstalling NetVanta UC Server, manually stop the OBJECTWORLD SQL Server Express service, and then manually uninstall the OBJECTWORLD SQL Server Express instance.
6978	After upgrade to Windows Vista Service Pack 1, UC Server MMC plug-in is no longer available. Reinstalling NetVanta UC Client does not resolve the problem.	Reinstalling the Microsoft's Windows Server Administration Tools will resolve the problem.
7074	Fax printer driver cannot send faxes when My Documents folder is redirected to network share.	This appears to be an issue with the Microsoft Universal Printer driver supplied in Windows Vista and used by the Fax Printer Driver. The workaround is to disable My Documents redirection.
7376	Sending faxes to the Fax Printer Driver in A4 format causes the fax document to be generated incorrectly and the fax will fail to be sent.	Print using letter format instead.
7700	AMD systems running Windows Server 2003 or Windows XP can experience choppy or corrupt audio with some phones.	Follow instructions in Microsoft KB article 895980: http://support.microsoft.com/kb/895980
8149	Active Message Delivery can fail when all ports on an Avaya IP Office are busy.	Increase the number of ports to improve port availability.
8282	On Windows XP, the service account used for the Application Services can spontaneously become lost or invalid. This can occur when the system is restarted, the ADTRAN NetVanta UC Server Application Services service is restarted, or the NetVanta UC Server software is upgraded (causing a 1920 error).	Use Windows Server-based platforms instead of Windows XP. Additional instructions have been added to upgrade procedure to mitigate the 1920 problem during upgrade caused by this issue.
8374	snom phones do not register on networks with spanning tree enabled. Consult snom support material for more details.	Enable fast spanning tree or disable spanning tree on the network. Consult snom support material for more details.
8659	No click-to-dial context menu is provided on Outlook 2003 email messages.	Upgrade to Outlook 2007.
8685	The Outlook 2003 plug-remains installed and cannot be removed after upgrading Outlook to 2007 version.	Uninstall NetVanta UC Client software before upgrading Outlook and reinstall after upgrading.

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Tracking #	ISSUE	Workaround
8803	Microsoft Live Search Maps add-in for Microsoft Outlook causes problems with NetVanta UC plug-ins.	Uninstall Microsoft Live Search Maps add-in. Refer to http://support.microsoft.com/kb/961081 for more details.
8904	On systems with User Account Control (UAC) enabled, batch files, such as the scripts to stop, start, and restart all NetVanta UC Server services, need to be run with administrative privileges.	Right click on the scripts, and select Run as administrator from the context menu. Alternatively, start a command prompt in the same manner and invoke the scripts from the command prompt. Refer to Microsoft product documentation on UAC for more details.
8946	While installing UC Server, the install fails with error 1718. The log file reports that an MSI file was rejected by digital signature policy.	This problem occurs if the Windows Installer process has insufficient contiguous virtual memory to verify that the installation package is correctly signed. Refer to http://support.microsoft.com/kb/925336 for details on this issue and for a fix.
9623 9666	Failure to find service account mailbox prevents connection to Exchange server where Exchange Mailbox, Client Access, and Hub Transport are not on the same server.	Requires hotfix: 4.6.3.7336_Hotfix_9623_9666.zip via ADTRAN Support .