

CA XCOM™ Data Transport® Gateway

Release Notes

Release 11.6



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CA Technologies Product References

This document references the following CA Technologies products:

- CA XCOM™ Data Transport® for Gateway Version 12.0

Contact CA Technologies

Contact CA Support

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Chapter 1: New Features

The *Release Notes* for CA XCOM Data Transport Gateway documents both new features and changes to existing features for Release 11.6. This section describes new features added to the product.

This section contains the following topics:

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[XCOM Gateway SFTP Server and Client](#) (see page 8)

[XCOM Gateway FTP Client](#) (see page 9)

[XCOM Gateway Automatic File Insertion](#) (see page 9)

[XCOM Gateway Command Line File Transfer](#) (see page 9)

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[XCOM Gateway File Invalidation Marking and Deletion](#) (see page 10)

[Uninterrupted Transfer of Large Size Files](#) (see page 10)

[UNC Support](#) (see page 10)

[Ability to Define and Manage External Servers](#) (see page 10)

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[Transition from WCOM to GXT/Dashboard/New GUI Interface](#) (see page 11)

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Overview Display after Login

This release contains an overview page that is shown to the user just after the user logs in. Two portlets are displayed on this page. The first portlet has fixed text that gives the information of different tabs and products. The second portlet displays the information regarding the recent changes.

The second portlet displays:

- Recent Uploads

The table displays all the files that any user uploads that is related to the policies assigned during the users last login. Whether the user has subscribed for downloading the files or not.

- Files that expire shortly

This portlet displays all the files that are going to expire within two days. These files are related to the policies assigned to them whether the user has subscribed for downloading the files or not.

XCOM Gateway SFTP Server and Client

This release introduces SFTP support for file transfers, providing a high level of data security and integrity. A Graphical User Interface (GUI) provides a common user interface to configure an SSH Server. The new functionality adds support for the SSH protocol to enable the use of SFTP for both upload and download. This functionality allows the CA XCOM Gateway to act as an SFTP server.

Functionality has been added allowing the CA XCOM Gateway to act as an SFTP client. The SFTP client can access a remote SFTP server and can use the server to transfer data. This functionality includes enhanced web interface facilities that offer option to import a file into the CA XCOM Gateway, or extract a file from the CA XCOM Gateway. For a file being uploaded into the CA XCOM Gateway, the file is obtained from the remote SFTP server rather than from the initiating users PC. For a file being downloaded out of the CA XCOM Gateway. The file is delivered to the remote SFTP server, rather than being delivered to the initiating users web-browser for storage on the user's PC.

For more information, see: *Configuring CA XCOM Gateway SSH Server in the CA XCOM Data Transport for Gateway Product Guide.*

Note:

- The Gateway SFTP servers cannot be used as External Servers for exporting within Gateway Environment for this release.
- Only the administrator can install and configure the CA XCOM Gateway SSH Server Configuration UI.

XCOM Gateway FTP Client

The CA XCOM Gateway is now able to act as an FTP client, with the ability to access a remote FTP server and store or retrieve data into that server environment. The FTP client delivers enhanced web interface facilities that offer a new option to a user wishing to import a file into the CA XCOM Gateway, or extract a file from the CA XCOM Gateway. In addition to the existing option, the user is able to nominate a remote FTP server, folder therein and provide appropriate access credentials. The CA XCOM Gateway connects to the designated server and access the specified folder on that server. For a file being uploaded into the CA XCOM Gateway, the file is obtained from the remote FTP server rather than from the initiating users PC. For a file being downloaded out of the CA XCOM Gateway. The file is delivered to the remote FTP server, rather than being delivered to the initiating users web-browser for storage on the PC.

Note: The Gateway FTP servers cannot be used as External Servers for exporting within Gateway Environment for this release.

XCOM Gateway Automatic File Insertion

This feature enables customer configuration to designate policies for which related file folders are monitored, by the CA XCOM Gateway for the arrival of new files. When a file arrives in a monitored folder, the CA XCOM Gateway automatically imports the file into the associated policy in the CA XCOM Gateway. Upon the successful import, the file is removed from the monitored file. All the files that are imported through this facility are registered with the AUTO protocol in CA XCOM Gateway.

XCOM Gateway Command Line File Transfer

The gateway offers the facility to import or export the files from the gateway to external servers using batch and shell script files. These external servers could be FTP, SFTP, or the FTPS servers.

Import/Export Delivery XML

This release of Gateway offers the facility to import the delivery XML from an xml file.

The user can also export the preconfigured delivery XML to an xml file.

XCOM Gateway File Invalidation Marking and Deletion

It is now possible for files in the Staged File List to be marked as invalid or to be deleted. This functionality allows the administrator to delete the files that are deemed incorrect for any reason or can be marked as invalid by the file owner. If there are users that are defined as required to downloading a specific file, they are notified, if that file is deleted or marked invalid. Likewise, if an invalidity marker is removed the users are notified if they are required to download the file.

Uninterrupted Transfer of Large Size Files

During the transfer of large files, the session is retained with the CA XCOM Gateway. CA XCOM Gateway maintains the session timeout during the transfers to keep the session active with the Server and automatically renews the session. The session not configurable.

UNC Support

Providing UNC support for shared access to files within the CA XCOM Gateway realm storage folders allows the files and servers to be on different machines. CA XCOM Gateway requires shared access to files within the CA XCOM Gateway realm storage folders. When these servers are on different machines, one or both servers access the files using a network drive. It is not always possible to assign the same path letter to each machine. By providing UNC support, the restriction of using a common drive letter in the path is removed and identified using the network share name.

Administrators can configure UNC support to the CA XCOM Gateway by copying the JCIFS libraries to the CA XCOM Gateway libraries. JCIFS libraries can be found in the separate disc that is provided with the CA XCOM Gateway installation disc. The administrator can copy the JCIFS libraries to the CA XCOM Gateway from the administration global parameters page or by manually copying the JCIFS libraries to the CA XCOM Gateway libraries path. Changes are affected once the server is restarted.

Note: The transfer speed could be slow when transferring files to and from UNC paths and CA XCOM Gateway FTP and SFTP servers.

Ability to Define and Manage External Servers

You can define external servers including proxy servers to the XCOM Gateway and to assign their use to specific policies. You can store encrypted credentials for specific servers or have them prompt the user at the time of a transfer.

Onward Delivery to External Servers

Policies can be configured to deliver a file that is inserted into it to an external server.

The external server details and credentials can be configured in the onward deliver transfer container xml as the remote destination. Any file that is inserted into a configured policy is copied into the external server using the CA XCOM Data Transport Server. The history of the transfers is maintained in the CA XCOM Data Transport Server.

The password encryption utility can be used to encrypt the password that is used in the delivery XML.

If the XML being added is not properly indented, it is converted to a readable indented format once the user validates the xml using the Validate XML feature. The validation is done when the delivered XML is configured.

Transition from WCOM to GXT/Dashboard/New GUI Interface

The design and creation of a new GUI shell incorporates many of the functional components and provides the user with a consistent and intuitive front end for the CA XCOM Gateway. All character fields are UTF-8 encoded. The column sizes can be easily modified by dragging the column boundary, and more information is available to the user by hovering over a field. A consistent methodology has been implemented to handle all large tables of data and provide ease of navigation between pages. The ability to add or suppress columns from the default display as well as the ability to sort on unformatted data has also been included.

Tomcat Support

In Release 11.6, JBoss is no longer required for the CA XCOM Gateway product and Tomcat handles the processing now.

N-tier Architecture

In Release 11.6, CA XCOM Gateway is modularized to four components CA XCOM Gateway HTTP servers for UI and CA XCOM Gateway control Server for the backend server. From Release 11.6 these two components can either be installed on two different machines or on the same machine.

In Release 11.6 CA XCOM Data Transport Server and CA XCOM Gateway can be installed on two different machines.

Note:

- If the CA XCOM Gateway components are installed on two different platforms, the common certificate is installed in the keystores that the CA XCOM Gateway components use.
- N-tier architecture cannot be set up through the installer. N-tier must be set up manually. For setting up the N-Tier architecture, contact CA Support or see the Knowledge Base document *Setting_Gateway_In_Multiple_Servers*.

Cluster Support

In Release 11.6, cluster support is added for the XCOM Gateway Control server for fail-over support. Two XCOM Gateway Control Server instances are synchronized using cache RMI synchronization.

Note:

- The user in both the machines has write access on the other machines cache.
- Cluster support cannot be set up through the installer. Cluster support must be set up manually. For setting up the Cluster support, contact CA Support or see the Knowledge Base document *Setting_XCOM_Gateway_In_Cluster*.

Reschedule Onward Transfers

The onward transfers can be rescheduled using the new tab transfer diagnostics which is introduced in this Release. The transfer diagnostics tab lists all the successful and failed onward transfers. The user can select any or all the transfers for reschedule. Only successful or failed onward transfers are rescheduled. Ongoing onward transfers are not rescheduled even if selected for reschedule.

Keystore and Certificate Management

In Release 11.6, the keystore and certificates the CA XCOM Gateway uses can be managed from the CA XCOM Gateway UI. The administrator can change the keystore that the application uses or the certificate the application uses in the Global Parameters Manage Certificate Page. The new certificate can be imported and the keystore can also be changed. The certificate is validated at the time of importing.

Note: When the server is restarted the changes take effect.

Import/Export Manager

In Release 11.6, file transfers are comprehensively shown and can be administered in different windows that are categorized through imports and exports. The Import/Export manager also offers pause, resume, cancel, and functionality of file transfers that are conditional to certain Protocols.

Note:

- File transfers initiated through AUTO and the XCOM protocols are not visible in either of the import or export managers.
- Pause and resume is not applicable to HTTP/s protocols.

Asynchronous Behavior [Adopting web 2.0]

In Release 11.6, Server calls for data retrieval are achieved through asynchronous calls to the server. The asynchronous calls give a better user experience by enabling the user to take multiple actions in parallel.

Discontinued Support to 32 bit platform

In Release 11.6, CA XCOM Gateway is supported only on the 64-bit platforms.

Compatibility

CA XCOM Gateway release 11.6 is not compatible with the CA XCOM Data Transport r11.5 and the CA XCOM Data Transport Interface server Version 11.5 and earlier.

Chapter 2: Enhancements to Existing Features

This section documents changes made to existing features for Release 11.6.

This section contains the following topics:

[Enhanced Installation Process](#) (see page 15)

[Enhanced Home Page](#) (see page 16)

[Enhanced Grid/Tabular Data Management](#) (see page 16)

[Enhanced XCOM Gateway Policy Configurations](#) (see page 16)

[Enhanced XCOM Gateway User Policy Permissions](#) (see page 17)

[Enhanced XCOM Gateway Policy Management](#) (see page 17)

[Improved Management of Onward File Distribution](#) (see page 17)

[Improved Handling of Physically Deleted Files](#) (see page 17)

[Improved Facility for Upload and Download Transactions](#) (see page 18)

[Enhanced Web Service Protocol](#) (see page 18)

[Enhanced Database Management](#) (see page 18)

[Enhanced Symbolic Parameters](#) (see page 18)

[Enhanced Backup and Restore Metadata](#) (see page 19)

[Improved Global Parameters Configuration](#) (see page 19)

[Provide a Secure Login Process](#) (see page 19)

Enhanced Installation Process

CA XCOM Gateway employs the 2012 version of InstallAnywhere and uses the current release of CA EEM. (r12).

The installer creates the certificate as a part of the installation process.

If installing CA XCOM Gateway without TOMCAT only Database, xcom-globals.xml and war files are dumped. The Database communication is taken care of by the app server administrator.

Enhanced Home Page

The CA XCOM Gateway home page is now called the Dashboard. Unlike the static page in the previous release, the new Dashboard has portlets with information such as recent uploads and files that are expiring shortly. The Dashboard has six portlets. The number of portlets visible to the user varies based on the logged in user privileges. For the Administrator user, all six portlets are visible. These portlets can be closed using the cross mark in the top right-hand side. The closed portlets appear once the page is refreshed.

Recent Uploads Portlet

This portlet displays the files that are recently uploaded to the logged-in user permitted policies. All the files that are uploaded to the CA XCOM Gateway from the last login to the current login are displayed in this portlet. The refresh button in the portlet can be used to see uploads in the current logged-in session.

Files Expiring Shortly

This portlet displays all the files expiring in the next 48 hours which are in the logged-in users permitted policies.

The rest of the four portlets are with the short description about the features in the CA XCOM Gateway UI. The Administration portlet and Transfer Diagnostics Portlet are visible to users with administrative privileges only.

Enhanced Grid/Tabular Data Management

The CA XCOM Gateway displays the data in a grid/tabular format. For all the grids/tables displayed in the product, multiple selections of rows are provided. There could be instances where multiple selections are provided, but certain actions are disabled on multiple selected items.

Enhanced XCOM Gateway Policy Configurations

CA XCOM Gateway supports the control of transfers within a given policy using various protocols such as HTTP, HTTPs, FTP, FTPs, SFTP, XCOM and, AUTO. The policy can be configured to disallow transfers using some protocols.

The policy can be configured for monitoring of duplicate filenames with a specified time, to avoid duplicate files getting uploaded to the CA XCOM Gateway.

Enhanced XCOM Gateway User Policy Permissions

New download options are introduced in the user permissions for a policy category.

- Extract None – The user cannot download files.
- Extract Any File – The user can download any file in the policy.
- Extract Own Files – The user can download only files that they uploaded in the policy.

Enhanced XCOM Gateway Policy Management

CA XCOM Gateway supports multiple Edit and Copy of policies at a time. The administrator can select multiple policies on the Manage Policies page and opt for Edit or Copy. The Next and Previous buttons are enabled for accessing the selected policies.

Improved Management of Onward File Distribution

The administrator now can easily configure an Onward transfer for a policy. The ability to insert XML providing the configuration for onward transfers can now be better managed. The User and XCOM Onward Transfer Configuration for the Policy pages have four buttons.

Validate XML

Validates the onward delivery XML and converts it into an XML format.

Import XML

Imports the onward delivery XML from an xml file.

Export XML

Exports the onward delivery configurations to an xml file.

Encrypt Password

Utility that is used to encrypt a password, generate the KEY and PASSWORD values. Administrator has to copy the values and replace them in the delivery xml. The utility can be used in case of any change in credentials.

Improved Handling of Physically Deleted Files

If the CA XCOM Gateway attempts to remove a file that no longer exists based on the expiry date, the file is noted as not found and the database record is removed.

Improved Facility for Upload and Download Transactions

File Uploads and Downloads can now be handled from one screen. In addition, the single screen allows the user to choose between transfers using external servers or Quick Transfers using HTTP protocol. It is no longer necessary to select the path and filename that is transferred from a browse box. The filename and path can be entered directly to the filename box on the transfer screen. Administrators now are able to disable specific protocols from being used by specific policies. (for example, FTP or FTPS can be disallowed for a given policy.)

The file transfers with the external FTP, FTPs, or SFTP servers can be paused and resumed in the Import/Export manager page.

Enhanced Web Service Protocol

RESTful web services are used instead of the SOAP-based services. The requests are in RESTful web service request format and the responses are in JSON format.

Enhanced Database Management

New tables are introduced to save the external server details and server configurations and to maintain sequence numbers of the CA XCOM Gateway Objects such as Policy, Realm, Users, Servers, and Files.

From Release 11.6, the interface database tables and Gateway database tables are installed in the same database instance.

From Release 11.6, CA XCOM Gateway Control Server uses the ORM technologies for faster and easier database management.

The database password encryption utility can be used in case of any change in DB credentials. The encrypted password is copied to the CA XCOM Gateway context XML file.

Enhanced Symbolic Parameters

New symbolic variable GXSUSER is added.

&GXSUSER – At the time of the onward transfer to the external servers, this parameter tells Gateway to use the registered server credentials from the DB.

Enhanced Backup and Restore Metadata

The Export and Import configurations are now renamed to Backup and Restore metadata. Now all the server configurations can be backed up and restored at a time. The XML format is enhanced, at the same time backward compatibility is maintained. The administrator can import configurations from previous releases.

Improved Global Parameters Configuration

Global Parameters are categorized into six groups. Each group represents configuration for the respective CA XCOM Gateway modules except Manage Certificate and DB password Encryption.

The Gateway UI page represents the configurations for the CA XCOM Gateway HTTP server.

The Gateway Control Server page represents configurations for the CA XCOM Gateway Control Server.

The FTP page represents configurations for the CA XCOM Gateway FTP Server.

The SFTP page represents configurations for the CA XCOM Gateway SFTP Server.

The Manage Certificate page represents configurations for Keystore and certificate that all the CA XCOM Gateway Modules uses.

When installing the CA XCOM Gateway on a heterogeneous platform, the Global parameters page has configurations of the modules that are installed along with the CA XCOM Gateway Control Server.

Provide a Secure Login Process

The login process is now set up to allow a secure login by redirecting the login to HTTPS.

The communication between EEM Server and CA XCOM Gateway uses the secure HTTPS protocol.

Chapter 3: Known Issues

This section contains the following topics:

[List of Known issues for release 11.6](#) (see page 22)

List of Known issues for release 11.6

Certain known issues that are identified with this release are:

- When a transfer is in progress either through the export manager or import manager that the credential window, that pops up while the import manager from the external server, flickers.
- Whenever the Gateway Control Server is started, clean up the browser cache to the User Interface of Gateway Application.
- There are times when the Import Manager and Export Manager Screens overshadow the copyright information that is shown on bottom left side in the screen.
- It has been observed at times in the Import Manager and Export Manager Screen that the width of the column and header is not appropriately displayed in the right proportions.
- The User may experience the inconsistencies during the display of the scroll bars in the application at times. It is suggested to refresh the browser.
- At times, the Transfer Diagnostics tab does not show the header. It is suggested to refresh the browser.
- There are times when the refresh button freezes. It is suggested to refresh the browser.
- It is found that after uninstallation of the product there are a few files/folders left at installation locations. To remove those completely, the user will have to delete those manually.
- Gateway FTP/SFTP servers cannot be used as External Servers for exporting/importing within Gateway Environment for this release.
- **A Wrong error message is shown if the external FTP/SFTP user doesn't have append permissions and the user tries to pause and resume the file export to the external server.**
- In case the database is used as DB2 z/OS for Gateway, then the non-admin user cannot see any files using the FTP/SFTP/HTTP client.
- If CATALINA_HOME is already set to a location other than Gateway installed tomcat, the shell scripts for stopping the gateway server will not function as expected [only for Linux].
- The progress indicator on the Import Manager and Export Manager does not show the actual progress at times. Perform a sort on any grid column once will rectify the problem. It may occur across different browsers.
- While importing the file from an external server, resuming the file import after one or more pauses does not import the file appropriately. That means the pause/resume functionality does not work appropriately, while importing the file from external servers.

- In the FTP server, if the same file is uploaded multiple times, there is inconsistency in showing the files listing with similar names with an appended timestamp. Recent files should not have the timestamp appended and all the other files should be shown with the timestamp appended with the file name.

Chapter 4: Documentation

This section contains the following topics:

[Documentation Changes](#) (see page 25)

Documentation Changes

There have been changes in the structure of some of the documentation and one document added to the document set.

The documents in this release are:

- CA XCOM Gateway Release Notes
- CA XCOM Gateway Product Guide
- CA XCOM Gateway API Reference Guide
- CA XCOM Gateway Message Reference Guide