

CA XCOM™ Data Transport® for Windows Server/Professional

Release Notes

r11.5



Second Edition

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CA Technologies Product References

This document references the following CA Technologies products:

- CA XCOM™ Data Transport® for Gateway Release 11.6

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Chapter 1: Enhanced Features

The *Release Notes* for CA XCOM Data Transport for Windows Server/Professional documents both new features and changes to existing features for r11.6.

Note: The Release Notes Release 11.6, Second Edition documents changes due to 64 bit support.

This section contains the following topics:

[Bookshelf Interface](#) (see page 7)

[CA XCOM Data Transport GUI](#) (see page 8)

[Metatransfers](#) (see page 9)

[History Records](#) (see page 11)

[Symbolic Variables](#) (see page 14)

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[Gateway Bridge](#) (see page 18)

[Trusted Access Database](#) (see page 19)

Bookshelf Interface

The documentation page for your product on <http://ca.com/support> now lets you view the entire documentation set for your product from a bookshelf that does not need to be downloaded. You can use the bookshelf to easily navigate from one book to another book in your documentation set, or search the entire bookshelf.

CA XCOM Data Transport GUI

This release introduces the CA XCOM Data Transport Graphical User Interface (GUI), providing a common user interface for CA XCOM Data Transport on the following platforms:

- Windows
- UNIX and Linux

The GUI provides access to all of the features of CA XCOM Data Transport. From the GUI you can do the following:

- Create and edit CA XCOM Data Transport transfer configuration files
- Initiate transfers
- Monitor the log and trace functions
- Update the status of active and pending transfers
- Get the history of transfer records
- Save the history of transfer records in tab delimited form to produce an Easytrieve report or export to Excel

Users in the Windows Administrator Group can also do the following:

- Trusted transfer configuration
- Global parameter configuration

The CA XCOM Data Transport GUI is the front-end for CA XCOM Data Transport. You use this GUI to communicate with the CA XCOM Data Transport server. All requests, such as scheduling transfers and getting history records, are passed to the CA XCOM Data Transport server using the TCP/IP interface. Results obtained are returned to the GUI.

The CA XCOM Data Transport GUI runs standalone with minimal configuration.

For more information about the CA XCOM Data Transport GUI, see the following:

- The *CA XCOM Data Transport for Windows Server/Professional User Guide*
- The GUI online help

Metatransfers

This release supports metatransfers, that is, transfers containing control information.

Using metatransfers allows you to do the following:

- Schedule transfers to a remote CA XCOM Data Transport server running r11.5, using the `-c5` option.
- Schedule inquire transfers to a remote CA XCOM Data Transport server running r11.5, using the `-c6` option.
- Retrieve history records to a remote CA XCOM Data Transport server running r11.5, using the `-c7` option. For more information, see History Command Option (`-c7`) in this chapter.

Note: If the remote server is z/OS, it can be either r11 or r11.5.

You can perform metatransfers across the following mainframe and distributed platforms:

- z/OS
- Windows
- UNIX and Linux

The following parameters have been added or updated to support metatransfers and to allow z/OS and UNIX parameters to be used in Windows:

- AGE—Specifies the number of days of history records that are retained when a purge procedure is executed.
- CKPT (alias of CHECKPOINT_COUNT)—Defines how often (based on record count) the sending system requests a checkpoint to be taken.
- CODE (alias of CODE_FLAG)—Identifies the type of data being transferred.
- DROPSESS—Indicates whether CA XCOM Data Transport drops an LU-to-LU session at the conclusion of a scheduled file transfer.
- EPRTY—Indicates the execution priority for the request on the remote z/OS system.
- FILE (alias of REMOTE_FILE)—The name of the file on the remote system that is being transferred.
- FILEDATA—Indicates how a remote USS file is allocated on the remote z/OS system when performing a receive file transfer on the local Windows system.
- GROUP—Valid only on a metatransfer (`-c5`); the group ID to use on the CA XCOM Data Transport system receiving a metatransfer.
- HIST_FILE—The name of the file to contain the history records returned by the inquire function (`-c6`) or when retrieving history records (`-c7`).

- **HOLD_TRANSFER**—Prevents a QUEUE=YES transfer from starting until explicitly released.
- **INQ_FILE**—Specifies the complete path and file name that will contain the information required to do an inquire on a transfer (-c6).
- **INQ_WAIT**—Specifies how long CA XCOM Data Transport should wait (in hours (*hh*), minutes (*mm*), and seconds (*ss*)) for transfers to complete when doing an inquire on a transfer (-c6).
- **IPNAME** (alias of REMOTE_SYSTEM)—For TCP/IP protocols, the name of the remote system that receives a file, job, or report.
- **IPPORT** (alias of PORT)—The number of the TCP/IP port on the remote CA XCOM Data Transport server.
- **LDOMAIN**—The domain associated with LUSERID and LPASSWORD, if the target system is Windows, when handling a metatransfer (-c5) or a history record retrieval transfer (-c7).
- **LFILE** (alias of LOCAL_FILE)—The name of the file on the local system that is being transferred.
- **LIST**—Valid only on a metatransfer (-c5); the list ID to use on the CA XCOM Data Transport system receiving a metatransfer.
- **LPASS** (alias of LPASSWORD)—The password of the local user to be validated on the CA XCOM Data Transport server handling a metatransfer (-c5) or a history record retrieval transfer (-c7).
- **LU**—Valid only on a metatransfer (-c5); the LU to use on the CA XCOM Data Transport system receiving a metatransfer.
- **LUSER** (alias of LUSERID)—The user ID to use on the CA XCOM Data Transport system receiving a metatransfer (-c5) or a history record retrieval transfer (-c7).
- **PROGLIB**— Specifies the PDSE program library for a transfer to a CA XCOM Data Transport for z/OS system.
- **RELEASE**—Valid for both normal schedules and metatransfers when the remote partner is z/OS. Tells CA XCOM Data Transport for z/OS to release unused DASD space.
- **RNOTIFY** (alias of NOTIFYR and NOTIFY)—Specifies the remote user notification type when sending data to a remote system.
- **RNOTIFYNAME** (alias of NOTIFY_NAME and NOTIFYNAME)—Specifies the remote user notification type when sending data to a remote system.
- **SECURE_SCHEDULE**—Specifies whether the metatransfer (-c5, -c6, or -c7) uses SSL.
- **SPRTY**—Indicates the scheduling priority of a metatransfer request.
- **STARTDATE** (alias of START_DATE, but with extra functionality)—Specifies the date when the transfer is to begin. Used only when QUEUE=YES.
- **STARTTIME** (alias of START_TIME, but with extra functionality)—Specifies the time when the transfer is to begin. Used only when QUEUE=YES.

- STCIP—Specifies the IP address of the CA XCOM Data Transport server to handle the metatransfer (-c5, -c6, or -c7).
- STCPORT—Specifies the TCP/IP port number of the CA XCOM Data Transport server to handle the metatransfer request (-c5, -c6, or -c7).
- SYSUDATA (alias of USER_DATA)—An open field where a user can specify any text associated with the transfer.
- TDUDATA (alias of TRANSFER_USR_DATA)—An open field where a user can specify any text associated with the transfer.
- TRANSFER_ID (alias of TRANSFER_NAME)—Allows the user to enter information to identify the file transfer request.
- TRANSFER_NAME (alias of TRANSFER_ID)—Allows the user to enter information to identify the file transfer request.
- TRUNCATE (alias of TRUNCATION)—Indicates whether CA XCOM Data Transport truncates excess characters in the source file if the record exceeds the maximum record length.
- USER—Valid only on a metatransfer (-c5); the user ID to use on the CA XCOM Data Transport system receiving a metatransfer.

For more information, see the *CA XCOM Data Transport for Windows Server/Professional User Guide*.

History Records

This release supports history records, produced at the end of a transfer and written to a database. History records allow you to view transfer details even after transfers are completed and removed from the queue.

The history database feature allows you to specify a database management system to which CA XCOM Data Transport is to write history records. You can use either of the following products for this database management system:

- MySQL freeware
- IBM's DB2

This feature also provides for getting history records and returning them to the requestor from the GUI with the use of history filter fields. In addition, the GUI allows the history records that are returned to be exported into a comma separated (CSV) format or into a format that a CA Easytrieve report can be generated from.

Support for two new groups, XCOMADM and XCOMSADM, has also been added to control what history records a user is authorized to view.

For more information about history records, see the *CA XCOM Data Transport for Windows Server/Professional User Guide*.

History Command Option (-c7)

The new **-c7** command option allows you to retrieve history records.

This command accepts a history filter file in XML format or CNF format and creates a file of the matching history records in a format that a CA Easytrieve report can be generated from.

To generate the history filter file in XML format, use the Export button on the Get History Records page of the GUI.

To create a history filter file in CNF format, you can specify the following new parameters:

- **OEDATE**—Limits the history request to only those file transfers that were scheduled or completed on or before the end date and time.
- **OETIME**—Limits the history request to only those file transfers that were scheduled or completed on or before the end date and time.
- **OFILETYPE**—Limits the history request to those transfers with the specified FILETYPE.
- **OFLMAX**—Limits the history request to only those file transfers where the number of bytes transferred is equal to or less than the value specified.
- **OFLMIN**—Limits the history request to only those file transfers where the number of bytes transferred is equal to or greater than the value specified.
- **OID**—Limits the history request to only those file transfers with a specific transfer ID. The transfer ID is a user-defined identifier for file transfer requests.
- **OINIT**—Limits the history request to only locally initiated transfers or only remotely initiated transfers.
- **OLIMIT**—Sets the maximum number of history records that can be returned.
- **OLOCATN**—Limits the history request to transfers in one of the following locations:
 - Transfers that have been completed and have been stored in a database
 - Transfers still in the queue
- **OLMSG**—Limits the history request by the transfer's last message.
- **OLU**—Limits the history request to only those file transfers with a specific remote LU name.
- **OREQ**—Limits the history request to only those file transfers that contain this specific request number.
- **OSDATE**—Limits the history request to only those file transfers that were scheduled or completed on or after the start date and time.
- **OSTIME**—Limits the history request to only those file transfers that were scheduled or completed on or after the start date and time.

- OSYSID—Limits the history request to only those file transfers executed on the specified system ID.
- OSYSNAME—Limits the history request to only those file transfers executed on the specified system name.

Note: OSYSNAME and OSYSID together uniquely identify a CA XCOM Data Transport r11.5 server

- OTNAME—Limits the history request to only those file transfers with a specific remote TCP/IP name or TCP/IP address.
- OTYPE—Specifies if the history request should include active transfer requests, inactive transfer requests, or completed transfers.
- OTYPEREQ—Limits the history request to only send transfers or only receive transfers.
- OUSER—Limits the history request to only those file transfers submitted by a specific user.
- OFILE—Limits the history request to only those file transfers with a specific local or remote file name.
- OFILECASE—Specifies whether the specified file name(OFILE parameter) search should be case sensitive.
- OJOB—Limits the history request to only those file transfers with a specific invoking job.
- OVOL—Limits the history request to only those file transfers with a specific local or remote volser.

For more information about using the -c7 option, see the *CA XCOM Data Transport for Windows Server/Professional User Guide*.

For more information about using the Export button, see the *CA XCOM Data Transport GUI Online Help*.

Symbolic Variables

Symbolic variables let you store transfer parameters in control files with variable data that is resolved to other values at schedule time or at transfer time, depending on the specific parameter.

The following standard symbolic parameters are supplied with CA XCOM Data Transport:

- **&DATE(*format-code*)**—Causes the current date to be substituted dynamically in the current keyword value. The format of the date depends on the format code that is selected as a sub-parameter.
- **&ID**—Causes the value entered for ID to be substituted dynamically in the current keyword value.
- **&IPNAME**—Causes the value entered for IPNAME to be substituted dynamically in the current keyword value.
- **&LU**—Causes the value entered for LU to be substituted dynamically in the current keyword value.
- **&LUSER**—Causes the current local logged on user ID to be substituted dynamically in the current keyword value.
- **&TIME(*format-code*)**—Causes the current time to be substituted dynamically in the current keyword value. The format of the time depends on the format code that is selected as a sub-parameter.
- **&USERID**—Causes the current remote user ID to be substituted dynamically in the current keyword value.

No setup is required to use the pre-defined variables that are integrated as part of CA XCOM Data Transport. If you place these variables in the parameter data set for a transfer, CA XCOM Data Transport resolves them when performing that transfer.

For more information, see the *CA XCOM Data Transport for Windows Server/Professional User Guide*.

CA Easytrieve Reports

You can now run CA Easytrieve reports that are pre-built and supplied by the CA XCOM Data Transport product install. The input records for the reports are the common history records.

For more information, see the sample code in the *CA XCOM Data Transport for Windows Server/Professional User Guide*.

Transfer Control (XTC)

CA XCOM Data Transport Transfer Control (XTC) parameters are used to handle dependencies between multiple transfers. For example, one transfer must complete in a certain way before another can start. They provide the means by which interdependent transfer requests can be defined and processed as a single group. A transfer request belonging to such a group can cause another transfer request in the same group to be held, purged, or released (either conditionally or unconditionally) from the transfer request queue.

The following XTC parameters have been added:

- **HOLD_TRANSFER**—Prevents a TYPE=SCHEDULE transfer from starting until explicitly released.
- **HOLDCOUNT**—Associates a number with a transfer request that is incremented or decremented by the successful or unsuccessful completion of other transfer requests. As long as the number is greater than 0, the transfer is not released.
- **XCERRDECR**—Specifies the transfer requests for which the HOLDCOUNT parameter value is decremented when the current transfer completes unsuccessfully.
- **XCERRINCR**—Specifies the transfer requests for which the HOLDCOUNT parameter value is incremented if the current file transfer fails.
- **XCERRPURGE**—Specifies the transfer requests to be purged if the transfer concludes unsuccessfully.
- **XCERRREL**—Specifies the transfers to be released if the current transfer completes unsuccessfully.
- **XCGOODDECR**—Indicates an XTCNET job whose hold count decrements if the file transfer completes successfully.
- **XCGOODINCR**—Indicates the transfer requests whose HOLDCOUNT parameter is incremented when the current file transfer completes successfully.
- **XCGOODPURGE**—Specifies the transfer requests to be purged when the current file transfer completes successfully.
- **XCGOODREL**—Specifies the transfer requests to be released if the current file transfer concludes successfully.
- **XCJOB**—Defines the name of a transfer request belonging to the group of interdependent transfer requests named through the XTCNET parameter.
- **XTCNET**—Defines the name of a group of interdependent transfer requests.

For more information, see the *CA XCOM Data Transport for Windows Server/Professional User Guide*.

SMTP Email Notification

You can now use SMTP instead of MAPI for email notification of transfer completion.

The following parameters have been introduced to support SMTP email notification:

- MAIL_TYPE—Specifies the type of MAIL server used for sending mail notifications.
- SMTP_SERVER —Specifies the name of the SMTP server.

For more information, see the *CA XCOM Data Transport for Windows Server/Professional Administration Guide*.

Block Level I/O

CA XCOM Data Transport uses record level I/O to read and write records to/from disk. To improve read/write I/O times, the I/O routines now perform block level I/O whenever possible.

The following new parameters have been introduced to support block level I/O:

- CACHE_READ_SZ—Specifies the size (in KB) of the cache for reading files.
- CACHE_WRITE_SZ—Specifies the size (in KB) of the cache for writing files.

For more information, see the *CA XCOM Data Transport for Windows Server/Professional Administration Guide*.

Encryption at Rest

CA XCOM Data Transport currently provides the ability to encrypt data during transmission (SSL). However, when the data reaches the receiving CA XCOM Data Transport system the resulting file is written in plain text. This release provides encryption at rest, which works as follows:

- The local CA XCOM Data Transport system reads an encrypted input file, decrypts the file, and transfers the data to the partner.
- The remote CA XCOM Data Transport system receives a data transfer and writes the output file as an encrypted file.

The following new local/remote pairs of parameters have been added for encryption at rest:

- LEAR_CIPHER/EAR_CIPHER—Indicates which encryption algorithm is to be used.
- LEAR_DIGEST/EAR_DIGEST—Indicates the digest value to be matched with the generated digest. You must have already generated a digest value on the input file.
- LEAR_HASH/EAR_HASH—Indicates which digest algorithm is to be used.
- LEAR_KEY/EAR_KEY—Indicates the symmetric encryption key to be used to encrypt/decrypt.

For more information about these parameters, see the *CA XCOM Data Transport for Windows Server/Professional User Guide*.

Gateway Bridge

This release provides a Gateway Bridge to facilitate communication between the following two servers:

- CA XCOM Data Transport
- CA XCOM Gateway

When about to read or write a file, the CA XCOM Data Transport server checks whether the file it wants to access or create is Gateway-related, that is, whether it resides or is to reside in a CA XCOM Gateway staging area. If so, the CA XCOM Data Transport server contacts the allied CA XCOM Gateway server to determine both of the following:

- The physical location of the file
- Hashing and encryption requirements

Each CA XCOM Data Transport server is configured to identify a single (if any) allied CA XCOM Gateway server, whose file staging areas must be accessible to this CA XCOM Data Transport server.

For more information about the Gateway Bridge, see the *CA XCOM Data Transport for Windows Server/Professional Administration Guide*.

Trusted Access Database

In r11.5, the CA XCOM Data Transport Trusted Access facility has been changed, so that it works the same way across platforms. The trusted database feature allows you to specify a database management system in which CA XCOM Data Transport is to store the trusted records. You can use either of the following products for this database management system:

- MySQL freeware
- IBM's DB2

Two relational database tables are used to store trusted user authentication information:

XCOM_TRUSTED_SYS table

The XCOM_TRUSTED_SYS table contains the name of the remote SYSTEM_NAME from which the trusted transfer will be initiated.

XCOM_TRUSTED_USERS table

The XCOM_TRUSTED_USERS table contains the remote SYSTEM_NAME and the USER_NAME.

For more information about the Trusted Access Database, see the *CA XCOM Data Transport for Windows Server/Professional Administration Guide*.

Chapter 2: Unicode and Multi-Byte Character Set Support for Data Transfer

Before the advent of Unicode, a significant number of character sets were devised to permit the representation of symbols used in the Chinese, Japanese, Korean, and Taiwanese (CJK) languages. Today, Unicode is favored and there is an ongoing transition from these legacy character sets to Unicode encodings, most notably UTF-8 and UTF-16.

Many CJK legacy multibyte character sets are ASCII based, as is the case for the most commonly used Unicode encodings (as an example, UTF-8, UTF-16).

In the IBM mainframe (predominantly EBCDIC) world however composite character sets are commonly employed, involving a Shift-in/Shift-out encoding method. This encoding mechanism enables a single-byte ASCII or EBCDIC character-set to be used for the representation of Latin characters, in tandem with a multibyte character set for the representation of non-Latin characters. Shift-in and shift-out control characters are then inserted in the data stream to signal a switch between the two embedded character sets. The CCSID 937 character set combines an EBCDIC single byte character-set with a Traditional Chinese multibyte character set. While the CCSID 938 character set combines an ASCII single byte character-set with the same Traditional Chinese multibyte character set.

CA XCOM Data Transport currently performs data transfers utilizing one of three data formats – ASCII, EBCDIC, or Binary.

This enhancement allows for transmission of text files that are encoded using multi-byte character sets, including in-flight conversion of data between different character sets. Two additional data formats can be specified for the CODE_FLAG parameter to allow for transmission of these files. In addition, new parameters have been added to the CA XCOM Data Transport global parameters and configuration parameters. These parameters allow you to specify the local and remote character sets to be used for file data conversion and actions for dealing with unconvertible characters.

CA XCOM Data Transport is utilizing the ICU (International Components for Unicode) toolkit to perform data conversion functions. For information on the ICU toolkit, please refer to the ICU website <http://site.icu-project.org/>.

The CODE_FLAG parameter allows for two new data formats – UTF8 and UTF16. When one of these formats is specified for a transfer, data is converted to that format for transmission to the remote partner.

The LOCAL_CHARSET and REMOTE_CHARSET parameters specify the character-set of the local and remote files for the transfer. These parameters are used in conjunction with CODE_FLAG=UTF8 or CODE_FLAG=UTF16 to perform the conversion of data. If not specified for the transfer, they default to the value specified for the DEFAULT_CHARSET global parameter.

In order to handle conversion issues between character sets, additional parameters MBCS_INPUTERROR and MBCS_CONVERROR specify what action is taken in the event of a character being encountered cannot be converted. The sending partner uses MBCS_INPUTERROR and specifies to either replace the character with a replacement character or fail the transfer. The receiving partner uses MBCS_CONVERROR and specifies to either replace the character with a replacement character or fail the transfer. If not specified the value of DEFAULT_INPUTERROR and DEFAULT_CONVERROR global parameters will be used.

Parameters LOCAL_DELIM and REMOTE_DELIM specify the encoding scheme that the corresponding character-set uses and a list of delimiters which exists within the data as record separators.

This section contains the following topics:

[Installation Changes](#) (see page 22)

[CA Licensing](#) (see page 22)

[New Cipher Suites for SSL Transfers](#) (see page 23)

[User Interfaces Stabilized](#) (see page 25)

Installation Changes

This release uses InstallShield to install CA XCOM Data Transport.

For more information about using InstallShield, see the *CA XCOM Data Transport for Windows Server/Professional Installation Guide*.

CA Licensing

This release uses CA Licensing to ensure that the installed version of CA XCOM Data Transport is properly licensed.

For more information about using CA Licensing, see the *CA XCOM Data Transport for Windows Server/Professional Installation Guide*.

New Cipher Suites for SSL Transfers

When a TLS or SSL connection is established, the client and server negotiate a cipher suite, exchanging cipher suite codes in the client hello and server hello messages. The cipher suite specifies a combination of cryptographic algorithms to be used for the connection.

By default, a strong cipher suite is set in ConfigSSL.cnf, as follows:

```
[SSL_METHOD]
INITIATE_SIDE = v3
RECEIVE_SIDE  = v3
# Optional
[CIPHER]
INITIATE_SIDE = ALL:!ADH:!LOW:!EXP:MD5:@STRENGTH
RECEIVE_SIDE  = ALL:!ADH:!LOW:!EXP:!MD5:@STRENGTH
```

You can use various other suites, depending on whether you are using TLSv1 or SSLv3.

For more information about using cipher suites, see the *CA XCOM Data Transport for Windows Professional/Server Administration Guide*.

Cipher Suites Supported in TLSv1 when FIPS_MODE=NO

The following cipher suites are supported in TLSv1 when FIPS_MODE=NO:

- DHE-RSA-AES256-SHA
- DHE-DSS-AES256-SHA
- AES256-SHA
- EDH-RSA-DES-CBC3-SHA
- EDH-DSS-DES-CBC3-SHA
- DES-CBC3-SHA
- DHE-RSA-AES128-SHA
- DHE-DSS-AES128-SHA
- AES128-SHA
- RC4-SHA
- RC4-MD5
- EDH-RSA-DES-CBC-SHA
- EDH-DSS-DES-CBC-SHA
- DES-CBC-SHA
- EXP-EDH-RSA-DES-CBC-SHA
- EXP-EDH-DSS-DES-CBC-SHA
- EXP-DES-CBC-SHA
- EXP-RC2-CBC-MD5
- EXP-RC4-MD5

Cipher Suites Supported in TLSv1 when FIPS_MODE=YES

The following cipher suites are supported in TLSv1 when FIPS_MODE=YES:

- DHE-RSA-AES256-SHA
- DHE-DSS-AES256-SHA
- AES256-SHA
- EDH-RSA-DES-CBC3-SHA
- EDH-DSS-DES-CBC3-SHA
- DES-CBC3-SHA
- DHE-RSA-AES128-SHA
- DHE-DSS-AES128-SHA
- AES128-SHA

Cipher Suites Supported in SSLv3

SSLv3 can be used only with FIPS_MODE=NO. It uses the same cipher suites as TLSv1 with FIPS_MODE=NO.

User Interfaces Stabilized

This release introduces the CA XCOM Data Transport Graphical User Interface (GUI), providing a common user interface for CA XCOM Data Transport on the following platforms:

- Windows
- UNIX and Linux

The GUI provides access to all of the features of CA XCOM Data Transport, and the former user interfaces for these platforms are no longer necessary.

The following user interfaces are still included in CA XCOM Data Transport r11.5:

- xcomnt.exe (for Windows)
- xcomtool (for UNIX and Linux)

However, they have been stabilized, ready to be removed from the next release.

For more information about the new GUI, see CA XCOM Data Transport GUI in the chapter "New Features."

Chapter 3: Documentation

This section contains the following topics:

[Documentation Changes](#) (see page 27)

Documentation Changes

There have been changes in the structure and naming of some of the documentation. The documentation in this release is as follows:

- *Administration Guide* (formerly *Administrator Guide*)
- *Installation Guide* (formerly *Getting Started*)
- *Overview Guide* (new)
- *Release Notes* (formerly *Release Summary*)
- *User Guide*

Appendix A: Acknowledgements

This appendix provides acknowledgements for third-party software used with CA XCOM Data Transport for Windows Server/Professional.

This section contains the following topics:

[activation 1.1](#) (see page 30)

[Apache SSHD 0.5.0](#) (see page 37)

[BSAFE Crypto-C ME 2.1.0.2](#) (see page 41)

[GCC 3.3.3](#) (see page 42)

[Derby 10.4.2](#) (see page 48)

[HP-UX JRE 6.0.02](#) (see page 53)

[InstallAnywhere 2009 Enterprise](#) (see page 58)

[InstallShield 2009](#) (see page 66)

[JavaBeans Activation Framework 1.1](#) (see page 74)

[JavaHelp 2.0 05](#) (see page 81)

[OpenSSL 0.9.7g](#) (see page 83)

[Sun JDK 1.6.0](#) (see page 86)

[Sun JRE 1.6.0 16](#) (see page 92)

[UnixODBC](#) (see page 97)

activation 1.1

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Apache SSHD 0.5.0

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10. Upgrades. If the Software is an upgrade or update to a previous version of the Software, You must possess a valid license to such previous version in order to use such upgrade or update. After You install such update or upgrade, You may continue to use any such previous version in (and the upgrade or update) accordance with its end-user license agreement only if, (a) the previous versions or copies thereof are not transferred to another party or machine unless all copies of the update or upgrade are also transferred to such party or machine and (b) You acknowledge that any obligation Licensor may have to support the previous version(s) may be ended upon the availability of the upgrade or update. Upgrades and updates may be licensed to you by Licensor with additional or different terms.

Unauthorized Use and Validation of Use.

IN ORDER TO PROTECT THE SOFTWARE FROM UNAUTHORIZED USE AND IN ORDER TO CONFIRM YOUR COMPLIANCE WITH THE LICENSE GRANTS AND RESTRICTIONS SET FORTH IN THIS AGREEMENT, THE SOFTWARE CONTAINS A VALIDATION PROCEDURE WHICH MAY TRANSMIT YOUR IP ADDRESS AND/OR APPLICABLE LICENSE KEY RELATING TO THE SOFTWARE TO LICENSOR. IF THE SOFTWARE DETECTS ANY VIOLATION OF THE TERMS OF THIS AGREEMENT, YOU MAY BE CONTACTED BY LICENSOR REGARDING YOUR USE OF THE SOFTWARE AND/OR YOU MAY BE UNABLE TO USE THE SOFTWARE AND/OR CREATE UNRESTRICTED INSTALLER PRODUCTS UNTIL THE PROBLEM IS CORRECTED. IF YOU ARE UNABLE TO USE THE SOFTWARE AND/OR CREATE UNRESTRICTED INSTALLER PRODUCTS, YOU SHOULD IMMEDIATELY CONTACT LICENSOR.

12. Reports. Within thirty (30) days following Licensor's written request, and no more frequently than twice in any twelve (12) month period, you shall provide Licensor with a written statement certifying that you are not using copies of the Software in violation of this Agreement.

13. Verification/Audits. On Licensor's reasonable request, You will furnish Licensor with a signed statement confirming whether the Software is being used by You in accordance with this Agreement. Further during the term of this Agreement and for one (1) year thereafter, Licensor may, upon five (5) business days advance written notice to You, audit You for the purpose of verifying Your compliance with this Agreement. You understand and agree that the audit may take place in person or Licensor may use technological means to perform such audit. You agree to provide Licensor will all reasonable assistance required hereunder.

14. Usage Data. You understand that Licensor may utilize technology which gathers information about Your computer system, however, such data is used solely for the purpose of understanding machine types and other system-oriented information and does not contain any personally identifiable information of You.

15. Dual-Media Software. You may receive the Software in more than one medium (electronic and on a CD, for example). Receipt of the Software in more than a single manner (electronic or on a CD, for example) does not expand the license rights granted to you hereunder. Your use of the Software is limited to the number of licenses that you have acquired overall, regardless of number or type of media on which it has been provided.

16. U.S. Government Restricted Rights. The Software and Documentation are provided as "Commercial Computer Software" or "restricted computer software". Use, duplication, or disclosure by the U.S. Government or a U.S. Government subcontractor is subject to the restrictions set forth in 48.C.F.R. Section 12.212 or 48 C.F.R 227.2702, as applicable or successor provisions. The manufacturer is Flexera Software, Inc., 1000 East Woodfield Road, Suite 400, Schaumburg, IL 60173 USA.

17. U. S. Export Restrictions. You will fully comply with all relevant export laws and regulations, including but not limited to the U.S. Export Administration Regulations and Executive Orders ("Export Controls"). You warrant that you are not a person, company or destination restricted or prohibited by Export Controls ("Restricted Person"). You will not, directly or indirectly, export, re-export, divert, or transfer the Software, any portion thereof or any materials, items or technology relating to Licensor's business or related technical data or any direct product thereof to any Restricted Person.

18. Termination. Your license may be terminated by Licensor if (a) you fail to make payment and/or (b) you fail to comply with the terms of this Agreement within ten (10) days after receipt of written notice of such failure. In the event of termination, you must cease using the Software, destroy all copies of the Software (including copies in storage media) and certify such destruction to Licensor. This requirement applies to all copies in any form, partial or complete. Upon the effective date of any termination, you relinquish all rights granted under this Agreement.

19. Relationship of Parties. You and Licensor are independent parties. Nothing in this Agreement shall be construed as making you an employee, agent or legal representative of Licensor.

20. No Third-Party Beneficiaries. There are no third-party beneficiaries of this Agreement.

21. Controlling Law. For users in Japan, this Agreement will be governed by the laws of Japan; for users in Europe, Middle East, or Africa, this Agreement will be governed by the laws of England and Wales and you submit to the jurisdiction of the courts of England and Wales; for users outside the countries listed above, this Agreement will be governed by the laws of California, USA, excluding conflicts of law. This Agreement is not subject to the United Nations Convention on Contracts for the Sale of Goods.

22. Company Name. Licensor may include your company name in a list of Licensor customers.

23. Payment Terms/Shipments. For users in Japan, all fees are in non-refundable Japanese Yen. For users in Europe, Middle East or Africa, all fees are in the currency outlined in the quote/invoice and are non-refundable. For users in any region not outlined, all fees are in non-refundable US Dollars. Fees are due within 30-days of the date of the invoice.

If you have ordered Maintenance services you may renew the applicable services for the Software for the next annual period for the amount specified on the original invoice for the Software. All shipments of any media will be FOB Origin.

24. Taxes. All fees do not include taxes. If Licensor is required to pay any sales, use, GST, VAT, or other taxes in connection with your order, other than taxes based on Licensor's income, such taxes will be billed to and paid by you.

You will make all payments of fees to Licensor free and clear of, and without reduction for, any withholding taxes; any such taxes imposed on payments of fees to Licensor will be your sole responsibility and consequently the amount of such fees will be increased such that the net fee received by Licensor will be the same as if such withholding taxes were not imposed, and you will provide Licensor with official receipts issued by the appropriate taxing authority, or such other evidence as the Licensor may reasonably request, to establish that such taxes have been paid.

25. Entire Agreement. This Agreement constitutes the complete and entire understanding and agreement of all terms, conditions and representations between you and Licensor with respect to the Software and may be modified only in writing by both parties. No term or condition contained in your purchase order will apply unless expressly accepted by Licensor in writing. Failure to prosecute a party's rights will not constitute a waiver of any other breach.

If any provision of this Agreement is found to be invalid, it will be enforced to the extent permissible and the remainder of this Agreement will remain in full effect.

This Agreement has been written in the English language and you waive any rights you may have under the law of your country or province to have this Agreement written in any other language.

InstallShield 2009

This product includes InstallShield 2009 (<http://www.flexerasoftware.com/>).

END-USER LICENSE AGREEMENT -- InstallShield®

IMPORTANT-READ CAREFULLY: This End-User License Agreement (“Agreement”) is a legal contract between you (either (a) an individual user or (b) a business organization (“you”) and Licensor (as designated below) for the InstallShield software, including any associated media, printed materials and electronic documentation (the “Software”).

By clicking on the “I ACCEPT” button, by opening the package that contains the Software, or by copying, downloading, accessing or otherwise using the Software, you agree to be bound by the terms of this Agreement and you represent that you are authorized to enter into this Agreement on behalf of your corporate entity (if applicable). If you do not wish to be bound by the terms of this Agreement, click the “I DO NOT ACCEPT” button, and do not install, access or use the Software. An original purchaser who has not accepted the terms of this Agreement may return the Software to the place of purchase, within 30 days of the date of purchase, for a full refund.

As used herein, for users in Japan, “Licensor” means Flexera Software GK, a Godo Kaisha organized under the laws of Japan; for users in Europe, Middle East, or Africa, “Licensor” means Flexera Software Limited, a private company limited by shares and incorporated in England and Wales with company number 6524874; for users outside of the countries listed above, “Licensor” means Flexera Software, Inc.

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If you have received the Software for purposes of evaluation, regardless of how labeled, the use of the Software is limited to a specified period of time, as detailed in the email accompanying the download instructions (the “Evaluation Period”) and all use will be governed by the terms set forth below.

1. **Grant of License.** Licensor grants you a limited, personal, internal use, non-exclusive, non-transferable license to use the Software solely to evaluate its suitability for your internal business requirements during the Evaluation Period. Without limiting the foregoing, you may not use the Software during the Evaluation Period to create publicly distributed computer software or for any other purpose. This license may be terminated by Licensor at any time upon notice to you and will automatically terminate, without notice, upon the first to occur of the following: (a) the completion of your evaluation of the Software or (b) the expiration of the Evaluation Period.
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SOFTWARE LICENSE

1. Grant of License. Upon your payment of the fees shown on the invoice and acceptance of this Agreement, Licensor grants you a limited, personal, non-exclusive license to install and use the Software on the terms and conditions set forth herein.

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For the avoidance of doubt, if the Software is installed or accessed through a network, in any form, You must purchase additional licenses for each user that accesses the Software through the network.

You may make one back up and/or archival copy of the Software.

c. Stand Alone Build Licenses. The copy of the Software on the “build server” is used by automated processes, rather than by an individual user. If you have licensed InstallShield Premier, the standalone build component of the Software may be installed, reproduced and used on up to ten (10) computers residing on your premises, or a copy of the standalone build component may be shared on a common build/test machine on your premises up to the number of licenses You have acquired. In addition for Licensees of InstallShield Premier, the InstallShield MSI Tools (InstallShield MSI Grep, InstallShield MSI Diff, InstallShield MSI Query, and InstallShield MSI Sleuth) shipped as part of the InstallShield Premier Edition may be installed, reproduced and used on up to five (5) computers residing on your premises, and a copy of the MSI tools may be shared on a common build/test machine on your premises.

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You acknowledge that the Software does or will contain license management functionality, including but not limited to node-locking, user counting, expiring licenses, silent activations (with or without user intervention) and the like. Licensor asserts that its use of such license management functionality is generally limited to ensuring adherence to its license agreements/models and not generally for purposes of “self-help.”

3. Upgrades. If the Software is an upgrade or update to a previous version of the Software, You must possess a valid license to such previous version in order to use such upgrade or update. After You install such update or upgrade, You may continue to use any such previous version in (and the upgrade or update) accordance with its end-user license agreement only if, (a) the previous versions or copies thereof are not transferred to another party or machine unless all copies of the update or upgrade are also transferred to such party or machine and (b) You acknowledge that any obligation Licensor may have to support the previous version(s) may be ended upon the availability of the upgrade or update. Upgrades and updates may be licensed to you by Licensor with additional or different terms.

4. **Redistributable Files.** The Software component parts may not be separated for use on more than one computer, except as set forth in this Agreement. You may copy the files specifically identified in the documentation as “redistributables” and redistribute such files to your end users of your products, provided that: (a) such products add primary and substantial functionality to the redistributables, (b) all copies of the redistributables must be exact and unmodified; and (c) you grant your end users a limited, personal, non-exclusive and non-transferable license to use the redistributables only to the extent required for the permitted operation of your products and not to distribute them further. You will reproduce with the redistributables all applicable trademarks and copyright notices that accompany the Software, but you may not use Licensor’s name, logos or trademarks to market your products.

5. **Limited Warranty and Disclaimer of Warranty.** Licensor warrants that:

- a. it has the right and authority to grant the rights described in this Agreement, and;
- b. the Software, as provided, will substantially perform the functions described in the documentation when operated in the intended environment for a period of ninety (90) days from the date of delivery (the “Warranty Period”).

THE WARRANTIES ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. LICENSOR EXPRESSLY DISCLAIMS ANY WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Licensor does not warrant that the Software will (a) achieve specific results, (b) operate without interruption, or (c) be error free.

6. **Ownership.** This Agreement does not convey to you any rights of ownership in the Software. All right, title, and interest in the Software and in any ideas, know-how, and programs which are developed by Licensor in the course of providing any technical services, including any enhancements or modifications made to the Software, shall at all times remain the property of Licensor or its licensor. You acknowledge and agree that the Software is licensed, not sold. You shall not permit the Software to be accessed or used by anyone other than your employees whose duties require such access or use.

You will not remove, modify or alter any of Licensor’s copyright, trademark or proprietary rights notices from any part of the Software, including but not limited to any such notices contained in the physical and/or electronic media or documentation, in the Setup Wizard dialogue or ‘about’ boxes, in any of the runtime resources and/or in any web-presence or web-enabled notices, code or other embodiments originally contained in or otherwise created by the Software, or in any archival or back-up copies, if applicable.

7. Assignment/Transfer of Software. You may not, by operation of law or otherwise, transfer any license rights or other interests in Evaluation Software, or Software labeled “Not for Resale” or “NFR.” You may transfer the license granted hereunder, on a permanent basis, provided that such transfer is the result of a merger, acquisition or other corporate action (such as a divestiture), and (i) you permanently and wholly transfer all your rights under this Agreement; (ii) you retain no copies (whole or partial); (iii) you permanently and wholly transfer all of the Software (including component parts, media, printed materials, upgrades, prior versions, and authenticity certificates); and (iv) the transferee agrees to abide by all the terms of this Agreement. You may not transfer this license or the Software directly or indirectly for purposes of convenience such as consignment, without Licensor’s prior written consent.

For the avoidance of doubt, transfers which are the result of employee turnover or reassignment are allowed, provided that such transfers do not occur more than frequently than annually.

8. Limitation of Remedy and Liability. During the Warranty Period, in the event of any breach of the warranty outlined in Section 5b above, Licensor’s (and its suppliers), entire liability and your exclusive remedy will be, at Licensor’s option, to either, repair or replace the defective Software.

NEITHER LICENSOR NOR ITS LICENSOR, IF ANY, SHALL BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGE TO SYSTEMS OR DATA, EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. LICENSOR’S LIABILITY FOR DAMAGES HEREUNDER SHALL IN NO EVENT EXCEED THE AMOUNT OF LICENSE FEES THAT YOU HAVE PAID.

For Users within Europe, the Middle East or Africa, No person who is not a party to this Agreement shall be entitled to enforce any terms of the same under the Contracts (Rights of Third Parties) Act 1999.

LICENSOR DOES NOT LIMIT OR EXCLUDE ITS LIABILITY FOR DEATH OR PERSONAL INJURY CAUSED BY ITS NEGLIGENCE.

9. Maintenance Services. If ordered by you and upon payment of the applicable fee, you are entitled to receive technical support services, including corrections, fixes and enhancements to the Software as such are made generally available (the “maintenance services”) from Licensor in accordance with Licensor’s then-current maintenance terms for the applicable maintenance level purchased by you.

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12. U.S. Export Restrictions. You will fully comply with all relevant export laws and regulations, including but not limited to the U.S. Export Administration Regulations and Executive Orders ("Export Controls"). You warrant that you are not a person, company or destination restricted or prohibited by Export Controls ("Restricted Person"). You will not, directly or indirectly, export, re-export, divert, or transfer the Software, any portion thereof or any materials, items or technology relating to Licensor's business or related technical data or any direct product thereof to any Restricted Person.

13. Termination. Your license may be terminated by Licensor if (a) you fail to make payment and/or (b) you fail to comply with the terms of this Agreement within ten (10) days after receipt of written notice of such failure. In the event of termination, you must cease using the Software, destroy all copies of the Software (including copies in storage media) and certify such destruction to Licensor. This requirement applies to all copies in any form, partial or complete. Upon the effective date of any termination, you relinquish all rights granted under this Agreement.

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21. Usage Data. You understand that Licensor may utilize technology which gathers information about Your computer system, however, such data is used solely for the purpose of understanding machine types and other system-oriented information and does not contain any personally identifiable information of You.

22. Use of Try and Die Functionality. If you have licensed the Premier edition of the Software, you may internally access and use the functionality labeled "Try and Die" solely for the purposes of applying the Try and Die functionality processes and/or restrictions to your products and distributing such products to your end users for their trial purposes for a pre-determined period of time. Notwithstanding the foregoing, you agree that the total revenue from your products utilizing the Try and Die functionality will not exceed US\$10,000,000. For the avoidance of doubt, each product which is managed by a unique product version key/package license is considered to be a separate product hereunder. A product version key/package license identifies a protected trial product and allows the end user to unprotect, unpack and use a protected product. For the avoidance of doubt, the foregoing limitations apply only to your use of the Try and Die functionality and not your use of the Software in general.

23. Activation Capabilities. For existing users of the InstallShield Activation Service, should you elect to access and use the InstallShield Activation Service (which can only be used in conjunction with the Try and Buy functionality of the product), the terms and conditions at <http://www.installshield.com/products/installshield/activation-service/info/agreement.asp> will apply to your use of the service and will supplement your use of the Software hereunder.

24. Entire Agreement. This Agreement constitutes the complete and entire understanding and agreement of all terms, conditions and representations between you and Licensor with respect to the Software and may be modified only in writing by both parties. No term or condition contained in your purchase order will apply unless expressly accepted by Licensor in writing. Failure to prosecute a party's rights will not constitute a waiver of any other breach.

If any provision of this Agreement is found to be invalid, it will be enforced to the extent permissible and the remainder of this Agreement will remain in full effect. This Agreement has been written in the English language and you waive any rights you may have under the law of your country or province to have this Agreement written in any other language.

InstallShield EULA (December 2009)

JavaBeans Activation Framework 1.1

This product contains JavaBeans Activation Framework 1.1
(<http://java.sun.com/javase/technologies/desktop/javabeans/jaf/downloads/index.html>
).

A. Sun Microsystems, Inc. ("Sun") ENTITLEMENT for SOFTWARE

Licensee/Company: Entity receiving Software.

Effective Date: Date of delivery of the Software to You.

Software: JavaBeans Activation Framework 1.1.

License Term: Perpetual (subject to termination under the SLA).

Licensed Unit: Software Copy.

Licensed unit Count: Unlimited.

Permitted Uses:

1. You may reproduce and use the Software for Individual, Commercial, or Research and Instructional Use for the purposes of designing, developing, testing, and running Your applets and application("Programs").

2. Subject to the terms and conditions of this Agreement and restrictions and exceptions set forth in the Software's documentation, You may reproduce and distribute portions of Software

identified as a redistributable in the documentation ("Redistributable"), provided that:

(a) you distribute Redistributable complete and unmodified and only bundled as part of Your Programs,

(b) your Programs add significant and primary functionality to the Redistributable,

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(d) you do not distribute additional software intended to replace any component(s) of the Redistributable,

(e) you do not remove or alter any proprietary legends or notices contained in or on the Redistributable.

(f) you only distribute the Redistributable subject to a license agreement that protects Sun's interests consistent with the terms contained in this Agreement, and

(g) you agree to defend and indemnify Sun and its licensors from and against any damages, costs, liabilities, settlement amounts and/or expenses (including attorneys' fees) incurred in connection with any claim, lawsuit or action by any third party that arises or results from the use or distribution of any and all Programs and/or Redistributable.

3. Java Technology Restrictions. You may not create, modify, or change the behavior of, or authorize your licensees to create, modify, or change the behavior of, classes, interfaces, or subpackages that are in any way identified as "java", "javax", "sun" or similar convention as specified by Sun in any naming convention designation.

B. Sun Microsystems, Inc. ("Sun") SOFTWARE LICENSE AGREEMENT

READ THE TERMS OF THIS AGREEMENT ("AGREEMENT") CAREFULLY BEFORE OPENING SOFTWARE MEDIA PACKAGE. BY OPENING SOFTWARE MEDIA PACKAGE, YOU AGREE TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCESSING SOFTWARE ELECTRONICALLY, INDICATE YOUR ACCEPTANCE OF THESE TERMS BY SELECTING THE "ACCEPT" BUTTON AT THE END OF THIS AGREEMENT. IF YOU DO NOT AGREE TO ALL OF THE TERMS, PROMPTLY RETURN THE UNUSED SOFTWARE TO YOUR PLACE OF PURCHASE FOR A REFUND OR, IF SOFTWARE IS ACCESSED ELECTRONICALLY, SELECT THE "DECLINE" (OR "EXIT") BUTTON AT THE END OF THIS AGREEMENT.

IF YOU HAVE SEPARATELY AGREED TO LICENSE TERMS ("MASTER TERMS") FOR YOUR LICENSE TO THIS SOFTWARE, THEN SECTIONS 1-5 OF THIS AGREEMENT ("SUPPLEMENTAL LICENSE TERMS") SHALL SUPPLEMENT AND SUPERSEDE THE MASTER TERMS IN RELATION TO THIS SOFTWARE.

1. Definitions.

(a) "Entitlement" means the collective set of applicable documents authorized by Sun evidencing your obligation to pay associated fees (if any) for the license, associated Services, and the authorized scope of use of Software under this Agreement.

(b) "Licensed Unit" means the unit of measure by which your use of Software and/or Service is licensed, as described in your Entitlement.

(c) "Permitted Use" means the licensed Software use(s) authorized in this Agreement as specified in your Entitlement. The Permitted Use for any bundled Sun software not specified in your Entitlement will be evaluation use as provided in Section 3.

(d) "Service" means the service(s) that Sun or its delegate will provide, if any, as selected in your Entitlement and as further described in the applicable service listings at www.sun.com/service/servicelist.

(e) "Software" means the Sun software described in your Entitlement. Also, certain software may be included for evaluation use under Section 3.

(f) "You" and "Your" means the individual or legal entity specified in the Entitlement, or for evaluation purposes, the entity performing the evaluation.

2. License Grant and Entitlement.

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Additionally, if your Entitlement includes Services, then it will also specify the (e) Service and (f) service term.

If your rights to Software or Services are limited in duration and the date such rights begin is other than the purchase date, your Entitlement will provide that beginning date(s).

The Entitlement may be delivered to you in various ways depending on the manner in which you obtain Software and Services, for example, the Entitlement may be provided in your receipt, invoice or your contract with Sun or authorized Sun reseller. It may also be in electronic format if you download Software.

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As selected in your Entitlement, one or more of the following Permitted Uses will apply to your use of Software. Unless you have an Entitlement that expressly permits it, you may not use Software for any of the other Permitted Uses. If you don't have an Entitlement, or if your Entitlement doesn't cover additional software delivered to you, then such software is for your Evaluation Use.

(a) Evaluation Use. You may evaluate Software internally for a period of 90 days from your first use.

(b) Research and Instructional Use. You may use Software internally to design, develop and test, and also to provide instruction on such uses.

(c) Individual Use. You may use Software internally for personal, individual use.

(d) Commercial Use. You may use Software internally for your own commercial purposes.

(e) Service Provider Use. You may make Software functionality accessible (but not by providing Software itself or through outsourcing services) to your end users in an extranet deployment, but not to your affiliated companies or to government agencies.

4. Licensed Units.

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