

# Kofax Communication Server

## Release Notes

Version: 10.3.0

Date: 2020-01-17

The KOFAX logo is displayed in a bold, blue, sans-serif font. The letters are thick and closely spaced, with a consistent weight throughout the word.

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## Chapter 1

# About this release

This release notes give you late-breaking information about Kofax Communication Server 10.3.0. Please read this document carefully, as it may contain information not included in other Kofax Communication Server (KCS) documentation.

## Version information

The build number for Kofax Communication Server 10.3.0 is 10.3.0.0.0.283 which is displayed in About window of TC/Web and KCS Portal.

The file version number for most files is 9.1.0.283. This version is displayed in the About window of KCS Clients applications and tools.

## Supported environments

For information about supported operating systems and other requirements, refer to the Technical Specifications document, which is available from the [Kofax Knowledge Base](#) on the Kofax website.

## Product documentation

The Kofax Communication Server product documentation set consists of guides and help systems to assist you with installing, configuring, and using the software.

**Note** The names of Kofax Communication Server manuals are changed as per Kofax standards. For a complete list of old manual names and respective new manual names, see [New file names for manuals](#).

## Online documentation

The product documentation for Kofax Communication Server 10.3.0 is now available online:

[https://docshield.kofax.com/Portal/Products/en\\_US/KCS/10.3.0-SihMvq5oti/KCS.htm](https://docshield.kofax.com/Portal/Products/en_US/KCS/10.3.0-SihMvq5oti/KCS.htm)

Once you install Kofax Communication Server, the help system is launched automatically when you click the Help icon for the applications with Online Help.

## Offline documentation

To access the documentation offline, you can download it from the [Kofax Fulfillment Site](#). For each language, a separate documentation package is available to download as a compressed file, such as `KofaxCommunicationServerDocumentation-10.3.0_EN.zip` for English.

The English .zip file includes both help and print folders. The print folder contains all guides, such as installation guide and administrator's guide. The .zip files for other languages contain only the localized help files.

1. From the Kofax Fulfillment site, download the documentation .zip file for the applicable language.
2. Extract the contents of the compressed documentation file and navigate to the drive where you have installed Kofax Communication Server. Do the following:
  - Copy the contents of the extracted Kofax Capture Connector help to:  
`Program Files (x86)\Kofax\KCS\Capture Connector\Web\WebHelp`
  - Copy the contents of the extracted FoIP help to:  
`TOPCALL\FOIP\00\web\WebHelp`
  - Copy the contents of the extracted TC/Web help to:  
`TCOSS\TCWEB\Web\WebHelp`
  - Copy the contents of the extracted TCfW help to:  
`Program Files (x86)\TOPCALL\WebHelp`



3. Navigate to the drive where you have installed Kofax Communication Server and do the following:
  - For Kofax Capture Connector help:
    - a. Open `KccConfiguration.xml` in a text editor from the location:  
`Program Files (x86)\Kofax\KCS\Capture Connector\Web`
    - b. Locate the `<OnlineHelp>1</OnlineHelp>` section and replace 1 with 0.
    - c. Save and close the configuration file.
  - For TC/Web help:
    - a. Open `Configuration.xml` in a text editor from the location:  
`TCOSS\TCWEB\Web`
    - b. Locate the `<OnlineHelp>1</OnlineHelp>` section and replace 1 with 0.
    - c. Save and close the configuration file.
  - For TCfW help:
    - a. Open `Configuration.xml` in a text editor from the location:  
`Program Files (x86)\TOPCALL`
    - b. Locate the `<OnlineHelp>1</OnlineHelp>` section and replace 1 with 0.
    - c. Save and close the configuration file.
  - For FoIP help:
    - a. Open `Configuration.xml` in a text editor from the location:  
`TOPCALL\FOIP\00\web`
    - b. Locate the `<OnlineHelp>1</OnlineHelp>` section and replace 1 with 0.
    - c. Save and close the configuration file.

**Note** If you copy the extracted help to the directory but do not update the configuration file for a specific application, clicking the Help icon will still display the online help.

## Search Kofax Communication Server documentation

You can search an item across all Kofax Communication Server documentation.

**Note** This search only applies to the PDF files.

1. Download the `KofaxCommunicationServerDocumentation-10.3.0_EN.zip` from the [Kofax Fulfillment Site](#) and extract the zip file to a local folder.
2. Open the extracted folder and then open the Print folder.
3. Double click on the `All_DocumentationSearch.pdx` file.  
The **Search** screen appears.

4. Specify the search string in **What word or phrase would you like to search for?** and click **Search**.

**Note** Make sure that "In the index named All\_DocumentationSearch.pdx" is always selected for "Where would you like to search?".

All the search results are displayed in the **Results** list.

5. Click the required item from the **Results** list.

## New features

This section describes the features and enhancements included in Kofax Communication Server 10.3.0.

### KCS Portal enhancements

The following features are added:

- Kofax Communication Server Archive maintenance.
- **Archive delete** and **Archive volume update** rights to user profile.
- **Events** view to list all events stored in user profiles.
- **Fetch all items** button to fetch all items from the server.
- **Item count** and **Selected count** for displaying the number of items selected on the current page and number of currently fetched items, respectively.
- **Message Tracking** now includes all the properties which are currently available in TCfW Outbox.
- The following user profile creation information added to the **General** tab of **Users**: Time Created, Created by user, Created by application, Time modified, Modified by user and Modified by application.
- A **Comments** field for logging some general information about a user.
- Additional columns in **Users**.
- Additional columns in **User Addresses**.

### TC/Web enhancements

The following features are added:

- MSI setup for TC/Web which also performs all necessary configuration changes in the IIS.
- Fax image preview before sending.
- Document Converter integrated with TC/Web to send faxes directly to KCS server and not through TC/LINK-SM.
- To avoid the modification of message settings, administrator can hide the **Send Options** button of a message.
- The Atalasoftware Web Document Viewer for viewing faxes (replaced Tiffy Java applet.)

## TCfW enhancements

The following features are added:

- View and/or edit all the distribution lists available in the current TCROSS system if having Read/Write permission for the "All Priv. Address Books" access right.  
For more details, refer to the *Client Applications Administrator's Manual*.
- The **Receive Duration** column for inbound faxes to display the duration in seconds for reception of a message from a public line, such as fax or voice mail. This duration is the time difference between reception end time (Received/Term.) and reception start time (Created at) values.
- Filters in the **Send Options** window to search for cover sheets.
- Copy and paste the message name in the **Message Name** field when saving a message. Maximum length for a message name is 12 characters.
- A button to the TCfW toolbar for fetching all items from the server in the current folder. The Status Bar displays the count of fetched items and the number of selected items. This is applicable for Inbox, Outbox, System Folder, FIS Folder, Message Folder and Log Entries.
- Resizing the **Current Filters** screen.
- The **Triggered By** field in the **Current Filters** screen to filter messages based on a specific event.

## Kofax Capture Connector enhancements

The following features are added:

- Ability to combine multiple Index or Batch fields to form a single field.
- **Output PDF format** for the normalized PDF files in Kofax Capture Connector. Default format is PDF/A-1b.
- The **Embed Original Source file** check box to embed the source files in the normalized PDF file.
- The **Attach original message** check box to attach the original message (in EML format) to the notification email.
- The **Rerouting Script Path** field name is changed to **Rerouting\Document conversion script path**. This field is available in the **Additional settings** tab of **KCC Destination configuration**.
- **Skip converting files** to skip the conversion of files based on file type and size. Specify each file type with size delimited by comma.
- **Skip importing files** to skip the import of files based on file type and size. Specify each file type with size delimited by comma.
- New mapping fields in KCC Import Connector:

| TCROSS Fields         | KCC Import Connector Fields        | Format in Kofax Capture     |
|-----------------------|------------------------------------|-----------------------------|
| int_options           | KcsMessageDeliveryOptions          | Options flags               |
| int_termination       | KcsMessageDeliveryTermination      | Termination flags           |
| time_date/time_of_day | KcsMessageDeliveryIntendedSendTime | Local date/time format      |
| int_sending_copy      | KcsMessageSendingCopy              | NO, ALL                     |
| int_options(1)        | KcsMessageFaxResolution            | NORMAL, HIGH                |
| int_termination(192)  | KcsMessageArchive                  | NO, NEGATIVE, POSITIVE, ALL |

| TCOSS Fields          | KCC Import Connector Fields  | Format in Kofax Capture |
|-----------------------|------------------------------|-------------------------|
| int_termination(4096) | KcsMessageRegisteredMsg      | 0, 1                    |
| time_latest           | KcsMessageLatestDeliveryTime | Local date/time format  |

- New mapping fields in KCC Export Connector:

| TCOSS Fields          | KCC Export Connector Fields        | Format in TCOSS     |
|-----------------------|------------------------------------|---------------------|
| time_date/time_of_day | KcsMessageDeliveryIntendedSendTime | yyyy-mm-ddThh:mm:ss |
| int_sending_copy      | KcsMessageSendingCopy              | 1, 2                |
| int_options           | KcsMessageFaxResolution            | 0, 1                |
| int_termination       | KcsMessageArchive                  | 64, 128, 192        |
| int_termination       | KcsMessageRegisteredMsg            | 4096                |
| time_latest           | KcsMessageLatestDeliveryTime       | yyyy-mm-ddThh:mm:ss |

For more information, refer to the *Capture Connector Administrator's Guide* and *Capture Connector Online Help*.

## TC/Report and TC/Fetch Agent improvements

The following features are added:

- Support for SSL encrypted connection with SQL Server.
- Support for High Availability Cluster.
- Support for entries greater than 2147483647 in TC/Report tables.

**Note** You must upgrade the TC/Report database before upgrading the Kofax Communication Server setup.

## Delete message from Archive Server

You can delete messages in the Archive Server using TC/Web without changing the content of existing volumes. To remove the deleted message from the volumes as well, an administrator can optionally use the volume update operation. The permissions to delete the messages and updating the volumes are managed using the new user rights (added in KCS Portal) and global archive server settings (added in Archive Server). By default, these rights are not assigned.

This feature is implemented in the following applications:

- TC/Web: For deleting the messages stored in archive.
- TC/Archive: For deleting the messages stored in archive and managing the necessary permissions.
- KCS Portal: For updating the archive database and managing permissions.

## Autodiscover for TC/SPI-MX

For Exchange Server 2016 and Exchange Server 2019, you can enable the autodiscover feature at the time of installing TC/SPI-MX.

For more information, refer to the *Voice Platform Technical Manual*.

## Disable unsecure ciphers

It is possible to disable the unsecure ciphers for Kofax Communication Server modules which are using OpenSSL.

For more information, refer to the *Environment Guide - Platform System Manual*.

## TLS improvements for TWS, FoIP, IpPrinter and RLA

The default TLS configuration for TWS, FoIP and IpPrinter are:

- TLS 1.3 is supported and enabled (except RLA).
- The cipher suites are improved.
- Forward Secrecy is supported.
- TLS 1.0 is deactivated because it is considered as insecure.

In case of compatibility issues, for all applications (except RLA), you can use the “SSL Config” configuration value to revert back to the (less secure) behavior of Kofax Communication Server 10.2.0.

## TLS modifications for TC/Link modules

The default TLS configuration of TC/Link applications (such as TC/Link-SM, TC/Soap):

- TLS 1.3 is supported and enabled.
- The cipher suites are improved.

To revert back to the behavior (less secure) of Kofax Communication Server 10.2.0, configure the following registry values.

| Registry          | Type         | Value      |
|-------------------|--------------|------------|
| SslContextOptions | [REG_DWORD]  | 0x23000004 |
| SslCipherList     | [REG_STRING] | DEFAULT    |
| SslFlags          | [REG_DWORD]  | 0x00000003 |

## KFXConverter can create text alternatives

By default, KFXConverter is now used to create text alternatives.

## Enhanced scripting interface

The IDocumentConverterScript scripting interface in DocumentConverter() API can additionally do the following:

- Concatenate multiple password protected PDF documents to a single PDF/A document
- Convert password protected PDF files

For more information, refer to the *Kofax Capture Connector Developer Guide*.

## Increased password length

The maximum password length for Kofax Communication Server applications is increased to 80 characters. The complexity requirement is also updated to include up to 15 (lower-case, upper-case, numerical or other) characters.

## Concatenate multiple PDF files with message header

You can concatenate multiple PDF files along with the message header of the email.

## Use MS Office for email body and header conversion

In TWS, you can use MS Office for the conversion of email body and header.

## SMTP authentication for outbound connections

For TC/LINK-SM, TC/LINK-MX7 and TC/LINK-SDD, SMTP authentication is added for outbound connections.

For more details, refer to the *TCLINK-SM / TC/LINK-OC Technical Manual*.

**Note** If you have installed the FIX10468 and upgrading your Kofax Communication Server to 10.3.0, you must re-enter the SMTP password.

## Changes in behavior

This section describes changes to the Kofax Communication Server behavior since the previous release.

### TC/Web: Viewer for incoming fax

In TC/Web, the Tiffy Java applet was used for viewing incoming faxes. It also required Java runtime installation on each TC/Web system.

This has been replaced with Atalasoftware Web Document Viewer (WDV). Java runtime installation is not required anymore.

### TC/Web: TC/Link-SM not used for document conversion

Till Kofax Communication Server 10.2.0, outgoing messages in TC/Web were sent through TC/LINK-SM as document conversion for non-natively supported formats was only available in TC/LINK-SM.

Now the Document Converter is added to TC/Web and is used for conversion of attachments. The document conversion is done in TC/Web and messages are directly sent to KCS Server.

## Modified Kofax Capture Connector fields

The following fields were used for skipping the import and conversion of files:

- Skip converting files with formats
- Skip converting files with size (in bytes) less than
- Skip importing files with formats
- Skip importing files with size (in bytes) less than

You can now use the following fields to achieve the similar behavior:

- **Skip converting files**
- **Skip importing files**

## KCS Portal: Navigation using paging removed

Navigating through item pages in grids using **Forward** and **Next** button is discontinued.

Instead you can use the mouse scroll or vertical scroll bar to fetch and display additional items in the grids.

## KCS Portal: Address section renamed

The **Addresses** section in **KCS Administration** is renamed to **User Addresses**.

## KCS Portal: Message details removed from Message Tracking

Message Tracking now displays all properties which are available in TCfW's outbox.

As all relevant information is displayed in the Message Tracking page, the "Message details" screen which was earlier used for displaying the message properties is now discontinued.

## KCS Monitoring: KCS Monitoring Excel deprecated

KCS Monitoring Excel has been deprecated and is not delivered as part of KCS Monitoring.

## Skip conversion and skip import is applicable to attachments

Skipping the conversion and skipping the import of files based on file size and file type is only applicable to the email attachments.

## Jetforms are not supported

As Kofax Communication Server applications are not supported on 32-bit Operating Systems, you cannot use Jetforms.

## Microsoft SMS version older than 2.0 are not supported

Installations of Kofax Communication Server Clients with Microsoft SMS versions older than 2.0 is no more supported.

## New file names for manuals

With Kofax Communication Server 10.3.0, the name of all manuals is updated as per Kofax documentation standards. The following table provides a list of all the old file names and their respective new file names.

| Old file name (PDF)      | New file name (PDF)   |
|--------------------------|---|
| 22x_man                  | KofaxCommunicationServer_TandemServerTechnicalManual_EN                     |
| BranchBox_10004_man      | KofaxCommunicationServer_BranchBoxHardwareDoc_EN                            |
| CaptureConnector         | KofaxCommunicationServer_CaptureConnectorAdministratorsGuide_EN             |
| CaptureConnectorDev      | KofaxCommunicationServer_CaptureConnectorDevelopersGuide_EN                 |
| DocConv                  | KofaxCommunicationServer_DocumentConversionTechnicalManual_EN               |
| easyconfig               | KofaxCommunicationServer_EasyConfigTechnicalManual_EN                       |
| EmailConnect             | KofaxCommunicationServer_AdvancedEmailCaptureAdministrationGuide_EN         |
| FaxWS_Man                | KofaxCommunicationServer_WebServicesForFaxTechnicalManual_EN                |
| foip_man                 | KofaxCommunicationServer_FaxOverIPTechnicalManual_EN                        |
| IP_Integration_Guide     | KofaxCommunicationServer_VoIPFoIPEnvironmentGuide_EN                        |
| IpPrinter_man            | KofaxCommunicationServer_IPPrinterManual_EN                                 |
| kcs_man                  | KofaxCommunicationServer_PackageManual_EN                                   |
| KCS_Portal               | KofaxCommunicationServer_KCSPortalAdministratorsGuide_EN                    |
| KcsBackup                | KofaxCommunicationServer_BackupTechnicalManual_EN                           |
| kcsclients_admin         | KofaxCommunicationServer_ClientApplicationsAdministratorsManual_EN          |
| kcsclients_inst          | KofaxCommunicationServer_ClientApplicationsInstallationManual_EN            |
| KCSLyncLink              | KofaxCommunicationServer_LyncLinkAdministratorsGuide_EN                     |
| LDAPDSYNC_man            | KofaxCommunicationServer_LDAPDirectorySynchronizationTechnicalManual_EN     |
| LINKSC_MAN               | KofaxCommunicationServer_TCLINKSCTechnical Manual_EN                        |
| Is1_man                  | KofaxCommunicationServer_LineServerModel305Manual_EN                        |
| mapfile                  | KofaxCommunicationServer_TCLINKMapfileTechnicalManual_EN                    |
| metamail_configmanual    | KofaxCommunicationServer_TCMetaMailConfigurationManual_EN                   |
| mfpconnect_canon         | KofaxCommunicationServer_MFPIntegrationForCanonDevicesAdminGuide_EN         |
| mfpconnect_hp            | KofaxCommunicationServer_MFPIntegrationForHPDevicesAdminGuide_EN            |
| mfpconnect_konicaminolta | KofaxCommunicationServer_MFPIntegrationForKonicaMinoltaDevicesAdminGuide_EN |



| Old file name (PDF)                | New file name (PDF)   |
|------------------------------------|---|
| mfpcconnect_lexmark                | KofaxCommunicationServer_MFPIntegrationForLexmarkDevicesAdminGuide_EN         |
| mfpcconnect_monitoring_guide       | KofaxCommunicationServer_MFPConnectionMonitoringIntegrationManual_EN          |
| mfpcconnect_ricoh                  | KofaxCommunicationServer_MFPIntegrationForRicohDevicesAdminGuide_EN           |
| mfpcconnect_secure_email           | KofaxCommunicationServer_SecureEmailForMFPIntegrationTechnicalManual_EN       |
| mfpcconnect_xerox                  | KofaxCommunicationServer_MFPIntegrationForXeroxDevicesAdminGuide_EN           |
| Model305_PBX_Integration           | KofaxCommunicationServer_PBXIntegrationTechnicalManual_EN                     |
| Model350_10001_man                 | KofaxCommunicationServer_Model350GSMBBoxInstallationGuide_EN                  |
| Model360_10001_man                 | KofaxCommunicationServer_Model360SMSBoxInstallationGuide_EN                   |
| MonitoringAdministrationUserManual | KofaxCommunicationServer_MonitoringAdministrationUserManual_EN                |
| MonitoringConfigurationUserManual  | KofaxCommunicationServer_MonitoringConfigurationUserManual_EN                 |
| MonitoringTechManual               | KofaxCommunicationServer_MonitoringTechnicalManual_EN                         |
| MonitoringUseCases                 | KofaxCommunicationServer_KofaxMonitorUseCases_EN                              |
| PBX_Requirements                   | KofaxCommunicationServer_PBXRequirementsTechnicalManual_EN                    |
| Platform_man                       | KofaxCommunicationServer_EnvironmentGuidePlatformSysManual_EN                 |
| SNMP_integration                   | KofaxCommunicationServer_TCSNMPIntegrationManual_EN                           |
| SNMP_man                           | KofaxCommunicationServer_TCSNMPTechnicalManual_EN                             |
| TAxX                               | KofaxCommunicationServer_TAxXModulesOverview_EN                               |
| TC15EXE_10506                      | KofaxCommunicationServer_TC15EXEManual_EN                                     |
| TCARCH                             | KofaxCommunicationServer_TCArchiveTechnicalManual_EN                          |
| TCAt2Url_man                       | KofaxCommunicationServer_TCAt2URLManual_EN                                    |
| tcbroadcast                        | KofaxCommunicationServer_MessageBroadcastingServerProcessesTechnicalManual_EN |
| TCDCSIGN_man                       | KofaxCommunicationServer_TCOSSMessagePreprocessorTechnicalManual_EN           |
| TCFILBRK_TECH                      | KofaxCommunicationServer_TCFILBRKTechnicalManual_EN                           |
| tcfoip_trace                       | KofaxCommunicationServer_TCFoIPTracingTechnicalManual_EN                      |
| tcfw01                             | KofaxCommunicationServer_TCfWCommunicationServerClientUserManual_EN           |
| tclanprt_tech                      | KofaxCommunicationServer_TCLANPrTTechnicalManual_EN                           |
| tclink_man                         | KofaxCommunicationServer_TCLINKTechnicalManual_EN                             |
| TCLINK_VRS                         | KofaxCommunicationServer_TCLINKVRSConfigurationAdminGuide_EN                  |
| TCLINKFI                           | KofaxCommunicationServer_TCLINKFITechnicalManual_EN                           |
| TCLINKLN_MAN                       | KofaxCommunicationServer_TCLINKLNTechnicalManual_EN                           |
| TCLINKMFP_man                      | KofaxCommunicationServer_TCLINKMFPTechnicalManual_EN                          |
| TCLINKMQ                           | KofaxCommunicationServer_TCLINKMQTechnicalManual_EN                           |

| Old file name (PDF)        | New file name (PDF)   |
|----------------------------|---|
| tclinkmx7_bpos_man         | KofaxCommunicationServer_TCLINKMX7 IntegrationWithExchangeOnline_EN           |
| tclinkmx7_man              | KofaxCommunicationServer_TCLINKMX7TechnicalManual_EN                          |
| TCLINKRS                   | KofaxCommunicationServer_TCLINKRSTechnicalManual_EN                           |
| TCLINKRS_CONTENTM<br>NAGER | KofaxCommunicationServer_TCLINKRSIBMCMIntegrationTechnicalManual_EN           |
| TCLINKRS_DOCUMENTUM        | KofaxCommunicationServer_TCLINKRSDocumentumIntegrationTechnicalManu<br>al_EN  |
| TCLINKRS_FILENET           | KofaxCommunicationServer_TCLINKRSFileNetIntegrationTechnicalManual_EN         |
| TCLINKRS_HUMMINGBIRD       | KofaxCommunicationServer_TCLINKRSHummingbirdIntegrationTechnicalManual<br>_EN |
| TCLINKRS_SHAREPOINT        | KofaxCommunicationServer_TCLINKRSSharePointIntegrationTechnicalManual_EN      |
| TCLINKSC7                  | KofaxCommunicationServer_TCLINKSC7TechnicalManual_EN                          |
| TCLINKSDD_man              | KofaxCommunicationServer_TCLINKSDDTechnicalManual_EN                          |
| TCLINKSI                   | KofaxCommunicationServer_TCLINKSITechnicalManual_EN                           |
| TCLINKSJ                   | KofaxCommunicationServer_TCLINKSJTechnicalManual_EN                           |
| tclinksm_man               | KofaxCommunicationServer_TCLINKSMTCLINKOCTechnicalManual_EN                   |
| TCLINKWM-MD                | KofaxCommunicationServer_TechnicalManualForTCLINKWMAAndTCLINKMD_EN            |
| TCLSI_BATCH                | KofaxCommunicationServer_TCLSIBATCHTechnicalManual_EN                         |
| tclt_man                   | KofaxCommunicationServer_LicenseToolTechnicalManual_EN                        |
| TCMA_Man                   | KofaxCommunicationServer_MessagingAnalyzerTechnicalManual_EN                  |
| tcmmon_user                | KofaxCommunicationServer_MonitorUserManual_EN                                 |
| TCMRM_man                  | KofaxCommunicationServer_TCMRMTechnicalManual_EN                              |
| TCMWALN_man                | KofaxCommunicationServer_TCMWALNTechnicalManual_EN                            |
| TCMWAMX                    | KofaxCommunicationServer_TCMWAMXTechnicalManual_EN                            |
| tcoss_asp                  | KofaxCommunicationServer_ASPInstallationManual_EN                             |
| tcoss_cnf                  | KofaxCommunicationServer_TCOSSConfigurationManual_EN                          |
| tcoss_isdn                 | KofaxCommunicationServer_TCOSSISDNTechnicalManual_EN                          |
| tcoss_sys                  | KofaxCommunicationServer_TCOSSSystemManual_EN                                 |
| tcoss_tam                  | KofaxCommunicationServer_TCOSSApplicationModuleManual_EN                      |
| tcpdd_man                  | KofaxCommunicationServer_TCPDDUserManual_EN                                   |
| TCPERFLOG                  | KofaxCommunicationServer_TCPPerfLogTechnicalManual_EN                         |
| TCPlay01                   | KofaxCommunicationServer_TCPlayerUserManual_EN                                |
| tcpMeter_man               | KofaxCommunicationServer_tcpMeterTechnicalManual_EN                           |
| TCPROBE                    | KofaxCommunicationServer_TCProbeAgentTechnicalManual_EN                       |
| TCREPORT_TECH              | KofaxCommunicationServer_TCREPORTTechnicalManual_EN                           |

| Old file name (PDF) | New file name (PDF)  |
|---------------------|--|
| TCREPORT_USER       | KofaxCommunicationServer_TCREPORTUserManual_EN                       |
| tcrt_manual         | KofaxCommunicationServer_TCRTTechnicalManual_EN                      |
| tcsi_man            | KofaxCommunicationServer_TCSITechnicalManualClientServerInterface_EN |
| TCSOAP_MAN          | KofaxCommunicationServer_TCSOAPTechnicalManual_EN                    |
| TCSPILN_MAN         | KofaxCommunicationServer_TC/SPILNTechnicalManual_EN                  |
| TCSPIMX             | KofaxCommunicationServer_TCSPIMXTechnicalManual_EN                   |
| tcsrv_man           | KofaxCommunicationServer_ServiceUserManual_EN                        |
| tcti_cfg            | KofaxCommunicationServer_TCTIConfigurationManual_EN                  |
| TCUserTool_man      | KofaxCommunicationServer_TCUserToolTechnicalManual_EN                |
| TCVAccess_User      | KofaxCommunicationServer_TCVoiceAccessUserManual_EN                  |
| tcweb_install       | KofaxCommunicationServer_TCWebInstallationAndConfigurationManual_EN  |
| tcweb_performance   | KofaxCommunicationServer_TCWebPerformanceTest_EN                     |
| tcweb_user          | KofaxCommunicationServer_TCWebUserManual_EN                          |
| tcxml_man           | KofaxCommunicationServer_TCXMLTechnicalManual_EN                     |
| TCxx                | KofaxCommunicationServer_TCxxModulesOverview_EN                      |
| TFC_Manual          | KofaxCommunicationServer_TFCReferenceManual_EN                       |
| TOM                 | KofaxCommunicationServer_TOMTechnicalManual_EN                       |
| TWS_Man             | KofaxCommunicationServer_TWSTechnicalManual_EN                       |
| Unicode_man         | KofaxCommunicationServer_UnicodeInstallationGuide_EN                 |
| Voice_Platform_tech | KofaxCommunicationServer_VoicePlatformTechnicalManual_EN             |
| voicelink2_user     | KofaxCommunicationServer_TCVoiceLink2UserManual_EN                   |
| voicexsp_tech       | KofaxCommunicationServer_VoicexSPIntegrationTechnicalManual_EN       |
| VrsWizard           | KofaxCommunicationServer_VRSWizardTechnicalManual_EN                 |

## CHM files are replaced with webhelps

For the following modules, chm help files are replaced with webhelps:

- TCfW
- TC/Web
- Kofax Capture Connector
- TC/FoIP

## Chapter 2

# Upgrade

This chapter contains additional information about upgrading Kofax Communication Server.

- Before upgrading to a new version, back up your system using KCS Backup.
- Update all Kofax Communication Server components installed on a single computer together in the following order:
  1. Server and link components
  2. Client components (TCfW)
- Running different Kofax Communication Server versions on two different computers is supported, however, it is not recommended.
- If using Kofax Communication Server components from two (or more) releases, either update all your Kofax Communication Server components to the latest release or roll back all Kofax Communication Server components to a single earlier release, before you can request a Critical-On-Demand hotfix patch.
- In Tandem configuration, make sure that the primary master and the secondary master always use the same version of KCS.
- For Management Console, in addition to TCfW and TCMC from the client package, update TC/Probe and TC/Report from the server package (if used).
- If upgrading Kofax Communication Server from 10.0.1 or lower version, additional steps may be required. Refer to the *TCOSS Configuration Manual* for more information.

## Unicode

To use Unicode, enable it on all servers using the instructions described in the *Kofax Communication Server Unicode Installation Guide*.

Special configurations:

- **ASP configuration:** Only update the storage servers and switch to Unicode. The Unicode feature does not affect the media servers which are running remote fax and telex line.
- **LCR configuration:** You can update the TCOSS nodes of a least cost routing system one by one to Unicode. Any mixture of Unicode and non-Unicode nodes using the same code page can work together in an LCR system, with the restrictions caused by conversion of Unicode to the code page of the non-Unicode nodes. For a full Unicode support, all nodes of an LCR system need to run Unicode.

## Chapter 3

# Resolved issues

The following issues reported for a previous version of the product are fixed in this release.

## TC/Link: Original binary attachment was sent with image alternative

**1362258:** After applying the FIX10056, it was not possible to send original binary attachment along with the image alternative.

## FoIP specified an odd number SDP port

**1349922:** RTP did not use an even destination port number and the corresponding RTCP stream did not use the next higher (odd) destination port number.

## Old certification for LS1 RLA

**1349258:** Old certification for LS1 RLA was causing issues with browsers having more restrictions applied via group policies.

## SMTP outbound authentication prevents connections

**1347979:** SMTP outbound authentication was not allowing to login when `SMTPUser` and `SMTPPassword` were blank.

## Fixed column width issue for converted CSV files

**1347663:** When KFXConverter was used to convert CSV files, column width in the output files were fixed.

## FoIP issue with an immediate second Re-Invite after the first

**1332884:** FoIP was throwing error on re-invitation when messages were retried due to delay or when the second retry was sent immediately after the first invite was completed.

## TCIMGIO issue with specific TIF files

**1329262:** When converting specific TIF files, if `AltForceImgToTci` was set to 1, TCIMGIO was returning a format error.

## Early session refresh lead to SIP State table event

**1327876:** A session update from the remote side that arrived before the outgoing INVITE got acknowledged, led to an SIP error inside FoIP.

## TCMIME: Split parameter resulted in truncated filenames

**1327449:** The file name was split into multiple parts/lines with multiple filename parameters resulted in truncated filename.

## TCfW: Correct and Reactivate buttons were disabled

**1321381:** When a message went to Active status as the sent attempt failed and it was waiting for the next retry, the **Reactivate** and **Correct** buttons were disabled.

## Voice greetings containing some special character cannot be deleted

**1318839:** In TC/Web, the Voice greetings having some special characters could not be deleted.

## TCDCLINK: Garbled text in output with IMGIO conversion

**1313411:** Conversion of text to PDF or TIFF using IMGIO resulted in garbled output due to restrictions in some Operating Systems.

Refer to the *Document Conversion Technical Manual* for workaround.

## TCIMG32: Idle IMGIO conversion

**1307655:** For specific JPG files, the Link main worker did not respond and waited for an IMGIO conversion. As a result, TC/LINK did not process any messages.

## TCLINK: Slow KFXConverter conversion

**1305349:** For newer versions of Windows such as Windows Server 2019, document conversion using KFXConverter triggered through TC/LINK was very slow.

## TCDISK: Partition issue with size more than 2 TB

**1304403:** If partition size was greater than 2 TB, tcdisk.exe was not able to recognize it correctly and display available space had issues creating file structure.

## TCfW changed round brackets to square brackets in message subject

**1288904:** When the emails with round brackets "(" ") in subject were sent, the round brackets were replaced by square brackets "[" "]".

## Issue in installing TCOSS as "Primary Server"

**1279893:** When a new TCOSS was installed as "Primary Server", it did not create any Users and Services.

## Documentation: Instructions missing

**1277970:** Instruction for using the `ActivebarUseHooks` registry key were missing in the *Client Applications Administrator's Manual*.

## TC/Report: Entry limitation in Log\_Table

**1276182:** The fetch agent stopped working as the log entries reached the upper limit of 2147483647.

## TCLINK: PDF alternative of PDF attachment forward issue

**1269100:** When a PDF alternative of a PDF file was created, it was not possible to forward the new alternative document only using TCLINK.

## IpPrinter: Invalid number of run length code

**1265827:** For a fax line with 1728 pixels when a line started with a black pixel, then the color changes after each pixel resulted in a run length of 1729 error.

## TC/MIME: Removed spaces at the end of line

**1264775:** TC/Mime removed the spaces at the end of a line in outgoing messages. Such messages did not work and were rejected by the remote system because of wrong line length.

## TCfW Export displayed wrong English time-format

**1264318:** When TCfW was configured to display English time format such as Send Time or Intended Time, the exported file did not open with Excel as the post noon time was displayed as 13:48:20 PM.

## LSD-Tool stopped LS1 for configuration with COM-Ports > 2

**1262160:** LSD-Tool stopped LS1 for configuration with COM-Ports > 2 such as COM3 and COM11 but could not restart the LS1.

## FoIP outbound calls failed with mode 20

**1255686:** Outgoing calls with outbound mode set to 20 failed under specific circumstances.

## LS1 did not repeat PPS-MPS signal

**1253271:** In special circumstances, after a sent PPS-MPS signal, KCS did not make retries for that signal. This resulted in a DCN sent after about seven seconds.



## HTML to TCI conversion not working on Windows 2016

**1247068:** After migrating from Windows Server 2008 to Windows Server 2016, the HTML to TCI conversion did not work and resulted in a document conversion error.

## TCMIME.DLL: Mails with multipart/related structure lost attachments

**1239907:** Some mails having multipart/related structure when forwarded to TCOSS, lost their attachments resulted in data loss.

## Quotation mark in attachment file name leads to unusable filename

**1237805:** An incoming SMTP message having quotation mark in the attachment filename was renamed to 'text.plain' which was not usable as many files had the same name.

## Issue starting TCSRV with a user

**1227860:** When TCSRV was started with a user, any KCS applications did not start with the same or another user and resulted in an error.

For more details, refer to the *Service User Manual*.

## The LS1 display did not show correct version information

**1225083:** On the display of the LS1, the version information displayed for System, TCBIOS, TC18FPGA, TCLinux, TC18 and DSP were not correct or not complete.

## Documentation: More information for LS1 Display

**1225081:** The documentation did not explain about various items that appear on LS1 display.

For more information, refer to the *Line Server Model 305 Manual*.

## FoIP did not use unique session ID

**1223948:** FoIP did not use unique session IDs.

## QR Code in Word document lost after conversion

**1223713:** A QR code in a Word document was lost when the document was converted using KFXConverter.

## Documentation: TWS manual did not explain to disable TLS 1.0

**1219624:** *TWS Technical Manual* did not describe how to disable TLS 1.0 using `Create_Config.xslt`.

## KCC: Stopped working after deploying fixpack

**1219553:** Kofax Capture Connector stopped working after deploying the Kofax Communication Server 10.2.0.1 fix pack as it had an older version of `Log4net.dll`.

## Incompatible TC/Link-XML API

**1218626:** In Kofax Communication Server 10.2.0, the TC/Link-XML used the MSXML 6.0 API where the "AllowDocumentFunction" security option was disabled. This option is required to read the `ccd.xml` attachment within the XSLT to write the values into the Batch.

## KFXConverter: Charset reading issue in MIME part of an email

**1217354:** When an email was sent via TC/Link-SM that specifies the charset in the Content-Type but not in the HTML part of a body or in the attachment, KFXConverter was unable to use the correct character set, as TC/MIME or TC/LINK did not forward the information to KFXConverter.

## Kofax Capture Connector did not use PDF alternative

**1216918:** After installing Kofax Capture Connector and TWS on a Kofax Capture 11 server, the Kofax Capture Connector did not use the PDF alternatives.

## TC/Web: 4 minutes missing for voice time slot

**1214794:** It was not possible to configure time-slots for voice greeting schedules to cover the overnight timeframe. The drop-down menus only allowed to configure time from 00:00 to 23:55, thus missing the 23.55 to 24:00 time-slot.

## TC/LINK-XML (FI, MQ) did not create valid XML files

**1214774:** When TC/LINK-MQ was used in XML mode and XML files generated by the TC/LINK were validated against the TCXML.xsd schema, the files generated were not valid and did not conform to schema.

## Slow receiving of messages via TC/LINK-MFP (SM) with SSL mode

**1213740:** Receiving messages was extremely slow when TC/LINK-MFPs and MFP devices were configured to use STARTTLS and there were multiple listener threads configured.

## TFC applications with Unicode support leak TCSI objects

**1212428:** The TFC applications connecting to the newer versions of TCOSS with Unicode support leaked TCSI objects.

## Documentation: Wrong Config line for special DDI setting

**1211638:** Wrong Config line was mentioned in the *TCOSS ISDN Technical Manual* for configuring DDI/MSN settings.

## TC/MIME did not fill the MIME/FROM from the SMTP/MAIL FROM

**1211253:** TC/MIME did not send a FROM inside the MIME header for a message that was sent to TC/Link-SM and sent out to another mail system that did not accept a missing MIME/FROM.

## Normalized number changed due to re-activation

**1211055:** The client function reactivate changed the normalized number to any previously used normalized number. This resulted in sending the message to a wrong receiver when the send order was reactivated.

## TC/LINK-MD status update did not work

**1210382:** When the messageID returned by the SMSC provider was not a hexadecimal string, the TC/LINK-MD status update did not work or updated a wrong send order.

## TC/MIME broke attachment name

**1208722:** TC/MIME did not correctly convert the MIME data to a filename that TCIMGIO could convert. This resulted in document conversion failure.

## TWS: Missing error handling for conversion having no output

**1206784:** If TOPCALL printers were not available (either printer not installed or spooler service not running), the `DocToTciCommon` function was not resolved. This resulted in a message with no TCI alternative without an error message.

## PDF to TCI conversion needed TCDC Printer and Spooler Service

**1206770:** For PDF to TCI conversion, TWS always checked for TCDC printers and Spooler Service, even if they were not used when IMGIO was selected for document conversion.

## PDF file extension appended with `_charset_base64`

**1206741:** The conversion of message with PDF attachment failed because the PDF extension was appended with `"_charset_base64"` and became `"pdf_charset_base64"`.

## KCS Portal: Reordering servers not working

**1200682:** Reordering of Message Servers and Application Servers in KCS Portal was not working and resulted in error 405.

## Conversion error caused by a renamed file extension

**1198697:** TC/MIME appended the source file name to the extension of the attachment and resulted in a document conversion error.

## Issue in extracting TwsSamples.zip

**1198305:** It was not possible to extracting 7zip archived file having a ZIP extension.

## Drop-down menu hidden by scroll bar

**1195245:** When KCS Export Connector was configured in Kofax Capture, the drop-down button of the first field was dislocated and hidden by the right scroll bar.

## Conversion error for some HTML files

**1191198:** Some HTML files were not converted by KFXConverter and resulted in document conversion error.

## Issue populating document field

**1188927:** Kofax Capture Connector populated values from the batch fields even if the corresponding batch fields, folder fields and document fields were not mapped.

## Failed to embed PDF file into TOPCALL message when using PDF Printer

**1188185:** When the PDF printer was still writing the PDF file, TC/LINK tried to embed the PDF file into the Kofax Communication Server message. This resulted in the `Failed to embed PDF file into TOPCALL message error`.

## Failover issue with TC/LINK-MX7

**1187480:** When fault tolerant Exchange environment was set up with multiple Hubservers and if the first of these Exchange Hubservers was set to Maintenance mode, TC/LINK-MX7 did not fail over to the second configured server.

## Large text block issue with TC/LINK-MQ in XML mode

**1184556:** When a large message was sent to TC/LINK-MQ, the link in MSXML4.dll stopped working.

## FoIP sent malformed 200 OK issue

**1182996:** If the SIP header (without SDP part) for the response was silently truncated to 2047, FoIP sent malformed 200 OK.

## TC/LINK-SM stopped working with JIS characters encoded in 7-bit

**1181453:** TC/LINK-SM stopped working when processing messages with Japanese characters that have 7-bit content-transfer-encoding and escape characters, such as like \$B.

## TC/Broadcast did not find addresses in distribution lists

**1181083:** TC/Broadcast's TCRESMF was not able to resolve the distribution lists and resulted in `Empty distribution list(s) specified error`.

## Msg\_ID field reset in dbo.Log\_Table

**1180980:** Msg\_ID field was reset in the dbo.Log\_Table and resulted in non readable Log\_Table.

## IMCEA-Syntax did not work

**1178546:** IMCEA-Syntax was not working.

## TC/SOAP: Stopped working with % in LNOTE field

**1178543:** When fields with space characters and % were populated in Lotus Notes fields, TC/SOAP stopped working.

## Kofax Communication Server setup.exe did not copy latest files

**1178044:** The files which were copied or extracted as a part of hotfixes were not replaced when upgrading Kofax Communication Server setup.

## Minimize and maximize button issue in TCfW

**1178042:** The maximize and minimize buttons in TCfW were not working for some newer versions of Windows operating systems.

## 4 eyes Authorization not working after migration and upgrade

**1177317:** 4 eyes Authorization was not working after migrating and upgrading Kofax Communication Server.

## TC/Web did not show authorized messages in Image View

**1177315:** TC/Web failed to load the authorized messages in Image view within the ARCHIVE folder and resulted in an exception error.

## 4 eyes Authorization not working

**1177314:** TC/Web did not insert the sender as the first authorizer and instead resulted in the following error: failed sending the message. The message cannot be sent because the service is restricted for this user.

## Export filter issue in TC/Web

**1171046:** The "Message ID" field was exported by TC/Web even when it was not selected using the **Select Fields** option.

## Documentation: For possible status of messages and filter options missing

**1166483:** Documentation of all possible message statuses and filter options was missing in TC/Web documentation.

## TC/Web: Incorrect conversion error message

**1162781:** When converting a large document with many pages, instead of showing a timeout error message, TC/Web threw a confusing error message.

## Issue with SMSSendSecure mode

**1159661:** Setting `SMSSendSecure` mode to 0 did not switch to encrypted communication even if the mail server responded with the following response: `451 5.7.3 STARTTLS is required to send mail.`

## Empty `$RDate$` and `$RTime$` variables in alert message

**1139632:** The `$RDate$` and `$RTime$` variables used in the alert messages were not populated with the send time and date of the oldest message in the queue and were empty.

## TC/Web: Search filter did not append wildcard "\*" character

**1125164:** When the search filter was used in the Archive folder of TC/Web, "\*" wildcard character was not added at the end of the search string.

## TCLSM: Truncated first character in trace output

**1122958:** When trace output of `SMRouteDomains` entries were verified, the trace output had the truncated first character in each line.

## Premature timeout of TCDC

**982825:** The printer driver first created a file with zero size and later added data to it. At the time of document conversion, TCDC considered this file with zero size and resulted in timeout.



## Chapter 4

# Known issues

This chapter describes issues that you may encounter while using Kofax Communication Server 10.3.0 and provides workaround, as applicable.

## TC/Web upgrade issue

**1374930:** After upgrading TC/Web from a lower version of Kofax Communication Server to Kofax Communication Server 10.3.0, the TC/Web application does not start.

**Workaround:** To resolve this, do the following:

1. Uninstall TC/Web application using Windows Control Panel.
2. Rename or delete the `c:\tcoss\tcweb` folder.
3. Install TC/Web from Kofax Communication Server 10.3.0 setup.

## FoIP not working when configured with H.323 call peers

**1374531:** After upgrading Kofax Communication Server 10.2.0.1 to Kofax Communication Server 10.3.0, when FoIP is configured with H.323 call peers, the FoIP application process does not start.

**Workaround:** To resolve this, do one of the following:

- If H.323 is configured but not used, then disable all the H.323 call-peers in the FoIP configuration.
- If H.323 is required, install fix 11049.

## VRS settings not applied in Kofax Capture Connector

**1357370:** On a computer where Kofax Capture 11.0 and Kofax Communication Server 10.3.0, Kofax Capture Connector may stop working when configuring the VRS settings.

**Workaround:** Update VRS version to VRS 5.1.1 and install the Fix Pack 12.

## Back button issue when repairing KCS Portal

**1159969:** When you repair the KCS Portal using Setup.exe, clicking the Back button in KCSPortal Setup wizard displays incorrect screens.

## Cannot repair KCS Portal from Control Panel

**1159949:** Repairing of KCS Portal does not work when executed from Windows Control Panel.

**Workaround:** To repair the KCS Portal, run the setup from KCS\Setup.exe.

## Issue rerunning the KCS Portal setup

**956457:** When KCS Portal is installed on D drive, rerunning the KCS Portal setup creates new directories on C drive instead of updating the existing directories on D drive.

## TC/Web: Autologon issue with Firefox

**746879:** Autologon does not work with Firefox browser on Windows 2012 R2 when installed on different machine than TCOSS.

## Issues with Logout button in KCS Portal

**700578:** The "Logout" button does not work appropriately when Windows authentication is used in KCS Portal.

## TCfW: Errors when login

**624776:** After TCfW update from 10.0 to 10.0.1, some error pop-ups may appear after logging to TCOSS.

**Workaround:** Cancel all the error messages. TCfW will start normally.

## TCfW: Some Japanese characters are replaced with question marks

**587573:** In Japanese TCfW, some Japanese characters are replaced with question marks in all the fields.

## TCOSS: Downgrade to KCS 10.0.0

**551344:** WConfig of Kofax Communication Server 9.2.0 or Kofax Communication Server 10.0.0 cannot install a configuration locally to a file structure, which is already used with KCS 10.0.1 or later. The layout of the config file ASYSCONFCCCC changes. As a consequence, a downgrade from Kofax Communication Server 10.0 to Kofax Communication Server 9.2 or Kofax Communication Server 10.0.1 to Kofax Communication Server 10.0.0 is not possible without additional actions.

**Workaround:** Delete the file, +TECH/ASYSCONFCCCC:

1. Open the Command Prompt on the KCS server.
2. Go to `C:\TCOSS\SYSTEM\`.
3. Run the command `tdel +TECH/ASYSCONFCCCC`.  
Reply is: "1 Files deleted, 441 Bytes freed".
4. Close the command prompt.

## TC/Web: Message count missing in Inbox / Outbox

**319699:** TC/Web no longer displays the message count if you filter messages with the status "New and Read".

## KCS EasyConfig update

**SPR00104109:** If you upgrade an older KCS deployed via EasyConfig to the latest release, you must start the KCS EasyConfig tool and redeploy the configuration.

1. Upgrade to the latest KCS release by starting EasySetup.exe from the installation ISO.
2. Start the KCS EasyConfig tool from the Kofax Communication Server program group on the Windows Start menu. EasyConfig informs you that the current configuration has been modified.
3. Click **Deploy**.
4. Select to deploy **All** and click **OK**. Wait until the configuration is updated.
5. Perform the actions listed in the deployment log. For example, you might need to restart certain KCS components.
6. Click **Close**.

## Document Conversion: Text alternative not Unicode

**318605, SPR00121081:** When using TWS or TC/LINK document conversion for Word or Excel documents with Unicode characters, the text alternative is not Unicode.

## EasyConfig: Service name length not restricted

**318364, SPR00113538:** In EasyConfig, if non-English characters, such as Japanese symbols, are used, it is possible to configure longer service names than what can be saved correctly.

**Note** The service names can only be 8 bytes long. Japanese symbols require up to 3 bytes per symbol, therefore, only 2 symbols are possible.

## TCfW: Closing application while minimized

**320366, SPR00176265:** Closing the TCfW Communication Server Client from the taskbar while the application window is minimized can last multiple seconds.

**Workaround:** Close TCfW while its window is displayed to avoid the delay.

## TCfW: Erratic mouse scrolling

**320536, SPR00176327:** Using the mouse wheel to scroll through the inbox or outbox of TCfW Communication Server Client produces erratic results.

**Workaround:** Use the scroll bar or keyboard for scrolling.

## TCfW: Image preview and right-to-left script

**320628, SPR00122502:** In TCfW, the image preview is always aligned to the left. Text blocks which have right-to-left order activated, correctly align to the right side in text mode. However, the image preview is not correct, the text blocks align to the left.

## TCfW: Opening RTF attachments occasionally fails

**320488, SPR00120108:** Opening RTF attachments in TCfW sometimes fails with the error: `The process cannot access the file because it is being used by another process.` Another attempt to open the attachment succeeds without any errors.

**Workaround:** Do not use Microsoft OLE control for displaying and editing attachments. Add the extension RTF to the registry value `HKxx\SOFTWARE\TOPCALL\TCFW\WorkStation\ShellExecuteExtensions`.

## TCfW: PDF attachments on Windows 8

In TCfW Communication Server Client installed on Windows 8, by default, the PDF attachments are opened with the built-in PDF viewer. Closing the PDF document does not close the OLE link of the message.

**Workaround:** Use an external PDF viewer, not the built-in one.

## Chapter 5

# Overview of KCS and KCS Clients software modules

This section lists the KCS and KCS Clients modules included in this release of Kofax Communication Server. The internal version number (appears as file version) is 9.1.0.283, where “283” is the package build number.

**Note** This list does not include the Windows components or third-party components which are installed with the Kofax Communication Server installation.

| File name              | File size (in bytes) | File version |
|------------------------|----------------------|--------------|
| acconfig.dll           | 24576                | 7.00.350.0   |
| axinterop.kviewlib.dll | 49152                | 3.0.0.0      |
| BaseKPL.dll            | 45056                | 4.11.004     |
| btrc.exe               | 392208               | 9.1.0.283    |
| CancelMessage.exe      | 7168                 | 9.1.0.283    |
| caplib4.dll            | 155648               | 5.00.0003    |
| ClearRegVrs.exe        | 49152                |              |
| ctc.exe                | 102928               | 9.1.0.283    |
| DocConvServer.exe      | 185727498            | 1.21         |
| EasySetup.exe          | 4830736              | 9.1.0.283    |
| ec.exe                 | 366608               | 9.1.0.283    |
| ec.interop.tcsi32.dll  | 61968                | 9.1.0.283    |
| eeh2.dll               | 1529344              | 1.16.0.0     |
| exitemailheader.dll    | 441360               | 9.1.0.283    |
| exitson.dll            | 21008                | 9.1.0.283    |
| fail_over_setup.exe    | 66064                | 9.1.0.283    |
| fetchworkstations.exe  | 108560               | 9.1.0.283    |
| file2mq.exe            | 323600               | 9.1.0.283    |
| foip.exe               | 18064864             | 1.21         |
| FoIP_Converter.exe     | 73232                | 9.1.0.283    |
| FoIP_FaxMain.exe       | 73232                | 9.1.0.283    |

| File name                   | File size (in bytes) | File version |
|-----------------------------|----------------------|--------------|
| FoIP_Fx7.exe                | 73232                | 9.1.0.283    |
| FoIP_H323.exe               | 73232                | 9.1.0.283    |
| FoIP_Http.exe               | 73232                | 9.1.0.283    |
| FoIP_Master.exe             | 1779216              | 9.1.0.283    |
| FoIP_MasterTcsrv.exe        | 1773584              | 9.1.0.283    |
| FoIP_SIP.exe                | 73232                | 9.1.0.283    |
| FoIP_Store.exe              | 73232                | 9.1.0.283    |
| FoIP_T30.exe                | 73232                | 9.1.0.283    |
| FoIP_Tsl.exe                | 73232                | 9.1.0.283    |
| FoIP_Voice.exe              | 73232                | 9.1.0.283    |
| GetMessageEntry.exe         | 8704                 | 9.1.0.283    |
| GetState.exe                | 24576                | 9.1.0.283    |
| GetState.XmlSerializers.dll | 18944                | 9.1.0.283    |
| image18.img                 | 6152515              |              |
| ImageToTiff.exe             | 256528               | 9.1.0.283    |
| InstTemplate.exe            | 132112               | 9.1.0.283    |
| Interop.AscentRelease.dll   | 110592               | 1.0.0.0      |
| interop.imageservicelib.dll | 32768                | 1.0.0.0      |
| interop.kviewlib.dll        | 77824                | 3.0.0.0      |
| interop.shell32.dll         | 53248                | 1.0.0.0      |
| interop.tcipc.dll           | 12800                | 1.0.0.0      |
| interop.tcipc.kcsbackup.dll | 13312                | 1.0.0.0      |
| Interop.TCLNG.dll           | 5632                 | 13.0.0.0     |
| interop.tcrpc.dll           | 16912                | 9.1.0.283    |
| Interop.TCRPC.dll           | 16912                | 9.1.0.283    |
| interop.tcsi32.dll          | 61968                | 9.1.0.283    |
| Interop.TCSI32.dll          | 61968                | 9.1.0.283    |
| interop.tfc.dll             | 139264               | 1.0.0.0      |
| Interop.TFC.dll             | 139264               | 1.0.0.0      |
| IPL310.dll                  | 327680               | 4.11.004     |
| ipprinter.exe               | 10071920             | 1.21         |
| KAdminServices.dll          | 319488               | 4.11.004     |
| kas.dll                     | 139264               | 4.11.004     |
| KCL310.dll                  | 77824                | 4.11.004     |

| File name                               | File size (in bytes) | File version             |
|---|----------------------|--------------------------|
| KCS_Environment.dll                     | 240656               | 9.1.0.283                |
| kcsbackup.exe                           | 610832               | 9.1.0.283                |
| kcsbackupipc.dll                        | 22032                | 9.1.0.283                |
| kcsbackupresources.dll                  | 112656               | 9.1.0.283                |
| kcsbackupshared.dll                     | 170000               | 9.1.0.283                |
| kcsbackupsrv.exe                        | 116240               | 9.1.0.283                |
| kcsbackuputils.dll                      | 36880                | 9.1.0.283                |
| kcsbackupwizardcontrol.dll              | 44048                | 9.1.0.283                |
| kcsimportconnectorconfigexe.exe         | 12816                | 9.1.0.283                |
| kcslynclinkutil.dll                     | 17936                | 9.1.0.283                |
| kcslynclinkx64.exe                      | 106512               | 9.1.0.283                |
| kcslynclinkx86.exe                      | 76816                | 9.1.0.283                |
| kcslynclinkx86ipc.dll                   | 611856               | 9.1.0.283                |
| kcslynclinkx86ipc.xmlserializers.dll    | 936464               | 9.1.0.283                |
| KCSMonitoringAdmin.exe                  | 417296               | 9.1.0.283                |
| KCSMonitoringConfig.exe                 | 114704               | 9.1.0.283                |
| kcsmonsetup.exe                         | 383488               | 9.0.30729.1 built by: SP |
| kcsunicheck.exe                         | 25616                |                          |
| KDB310.dll                              | 16384                | 4.11.004                 |
| kdb310.dll                              | 12800                |                          |
| KDLWrapper.dll                          | 17408                | 4.11.004                 |
| KFSTG310.dll                            | 16384                | 4.11.004                 |
| KfxConfigIO.dll                         | 114688               | 4.11.004                 |
| kfxconverter.exe                        | 168464               | 9.1.0.283                |
| KFXConverter.exe                        | 168464               | 9.1.0.283                |
| KfxIniCart.dll                          | 24576                | 4.11.004                 |
| KfxRegCart.dll                          | 17408                | 4.11.004                 |
| KfxXmlCart.dll                          | 49152                | 4.11.004                 |
| khlpfind.dll                            | 40960                | 6.10.135                 |
| klr.dll                                 | 32768                | 4.11.004                 |
| kofax.acfaxshare.dll                    | 64528                | 9.1.0.283                |
| kofax.aclicdefslib.interop.dll          | 32768                | 1.0.0.0                  |
| kofax.aclicimplib.interop.dll           | 11776                | 1.0.0.0                  |
| kofax.ascentcaptureadminmod.interop.dll | 143360               | 2.10.0.0                 |



| File name                                     | File size (in bytes) | File version |
|---|----------------------|--------------|
| kofax.ascentcapturemodule.interop.dll         | 167936               | 1.12.0.0     |
| Kofax.DocumentConverter.Interfaces.dll        | 13840                | 9.1.0.283    |
| kofax.kacui.interop.dll                       | 77824                | 1.0.0.0      |
| Kofax.KCS.FaxWebViewer.dll                    | 10752                | 1.0.0.0      |
| kofax.kcs.kcimport.exe                        | 500752               | 9.1.0.283    |
| kofax.kcs.kcimportconfig.dll                  | 2100240              | 9.1.0.283    |
| kofax.kcs.kcimportconfig.resources.de.dll     | 132112               | 9.1.0.283    |
| kofax.kcs.kcimportconfig.resources.es.dll     | 134160               | 9.1.0.283    |
| kofax.kcs.kcimportconfig.resources.fr.dll     | 138256               | 9.1.0.283    |
| kofax.kcs.kcimportconfig.resources.it.dll     | 132624               | 9.1.0.283    |
| kofax.kcs.kcimportconfig.resources.ja.dll     | 147984               | 9.1.0.283    |
| kofax.kcs.kcimportconfig.resources.pt-br.dll  | 134160               | 9.1.0.283    |
| kofax.kcs.kcimportconfig.resources.ru.dll     | 170000               | 9.1.0.283    |
| kofax.kcs.kcimportconfig.resources.zh-chs.dll | 119312               | 9.1.0.283    |
| kofax.kcs.kcimportscripting.dll               | 37392                | 9.1.0.283    |
| kofax.kcs.kcnotification.dll                  | 122384               | 9.1.0.283    |
| kofax.kcs.kcrelease.dll                       | 588816               | 9.1.0.283    |
| kofax.kcs.kcrelease.resources.de.dll          | 25616                | 9.1.0.283    |
| kofax.kcs.kcrelease.resources.es.dll          | 25616                | 9.1.0.283    |
| kofax.kcs.kcrelease.resources.fr.dll          | 25616                | 9.1.0.283    |
| kofax.kcs.kcrelease.resources.it.dll          | 25616                | 9.1.0.283    |
| kofax.kcs.kcrelease.resources.ja.dll          | 25616                | 9.1.0.283    |
| kofax.kcs.kcrelease.resources.pt-br.dll       | 25616                | 9.1.0.283    |
| kofax.kcs.kcrelease.resources.ru.dll          | 26128                | 9.1.0.283    |
| kofax.kcs.kcrelease.resources.zh-chs.dll      | 25616                | 9.1.0.283    |
| Kofax.KCS.Monitoring.Util.dll                 | 18960                | 9.1.0.283    |
| Kofax.KCS.Portal.DataLib.dll                  | 39952                | 10.3.0.283   |
| Kofax.KCS.Portal.EnvironmentLib.dll           | 303632               | 10.3.0.283   |
| Kofax.KCS.Portal.Web.dll                      | 415248               | 10.3.0.283   |
| Kofax.KCS.Portal.Web.resources.dll            | 112656               | 10.3.0.283   |
| Kofax.KCS.Portal.Web.resources.dll            | 114192               | 10.3.0.283   |
| Kofax.KCS.Portal.Web.resources.dll            | 116752               | 10.3.0.283   |
| Kofax.KCS.Portal.Web.resources.dll            | 112144               | 10.3.0.283   |
| Kofax.KCS.Portal.Web.resources.dll            | 122384               | 10.3.0.283   |

| File name                                     | File size (in bytes) | File version |
|---|----------------------|--------------|
| Kofax.KCS.Portal.Web.resources.dll            | 114192               | 10.3.0.283   |
| Kofax.KCS.Portal.Web.resources.dll            | 139280               | 10.3.0.283   |
| Kofax.KCS.Portal.Web.resources.dll            | 105488               | 10.3.0.283   |
| Kofax.KCS.Portal.WMI.Applications.Service.exe | 16400                | 10.3.0.283   |
| Kofax.KCS.Portal.WMI.ApplicationsLib.dll      | 42000                | 10.3.0.283   |
| Kofax.KCS.Portal.WMI.KCS.Service.exe          | 15888                | 10.3.0.283   |
| Kofax.KCS.Portal.WMI.KCSLib.dll               | 71696                | 10.3.0.283   |
| kofax.kfxvariables.interop.dll                | 11776                | 1.2.0.0      |
| kofax.releaselib.interop.dll                  | 26443                |              |
| KPIService.exe                                | 18960                | 9.1.0.283    |
| kpm310.dll                                    | 28672                | 4.11.004     |
| KSecMgr.dll                                   | 77824                | 4.11.004     |
| licences.exe                                  | 117776               | 2.03.0006    |
| linksetuptool.exe                             | 23568                | 9.1.0.283    |
| logger.dll                                    | 13840                | 9.1.0.283    |
| Logger.dll                                    | 13840                | 9.1.0.283    |
| LogWinEvent.exe                               | 95760                | 9.1.0.283    |
| Is1trace.exe                                  | 373264               | 9.1.0.283    |
| Isd.exe                                       | 165904               |              |
| makemba.exe                                   | 321040               | 9.1.0.283    |
| mibmaker.exe                                  | 344080               | 9.1.0.283    |
| mkbapixml.exe                                 | 185360               | 9.1.0.283    |
| mkbapixml2.exe                                | 195600               | 9.1.0.283    |
| mkloadertab.exe                               | 380944               | 9.1.0.283    |
| mq2file.exe                                   | 26128                | 9.1.0.283    |
| MultiPlanePipeline.dll                        | 36864                | 4.11.004     |
| notesini.exe                                  | 57344                | 1.00.03      |
| PatchVRS.EXE                                  | 2548379              | 5.1.353      |
| pdflib4.dll                                   | 270336               | 5.00.0003    |
| printer.exe                                   | 337424               | 9.1.0.283    |
| Printer.exe                                   | 337424               | 9.1.0.283    |
| printrtf.dll                                  | 28672                | 1.03.02      |
| probesetuphelper.dll                          | 150544               | 9.01.0283    |
| ReactivateMessage.exe                         | 7680                 | 9.1.0.283    |

| File name                            | File size (in bytes) | File version   |
|--------------------------------------|----------------------|----------------|
| ReceiveMessage.exe                   | 11776                | 9.1.0.283      |
| ReceivePDF.exe                       | 65536                | 1.0.2159.34710 |
| regascsc.exe                         | 4608                 | 1.0.0.0        |
| RunAsAdmin.exe                       | 123920               | 9.1.0.283      |
| scaddon.dll                          | 153616               | 2.00.00        |
| ScannerConfig.dll                    | 139264               | 4.11.004       |
| SendMessage.exe                      | 14848                | 9.1.0.283      |
| SendSimpleMessage.exe                | 28672                | 9.1.0.283      |
| SendSimpleMessage.XmlSerializers.dll | 25088                | 9.1.0.283      |
| SendSimpleMsg.exe                    | 65536                | 1.0.2152.27679 |
| Setup.exe                            | 4832272              | 9.1.0.283      |
| setup.exe                            | 61968                | 10.3.283       |
| SharedConfiguration.dll              | 23568                | 9.1.0.283      |
| snmp_config.exe                      | 158736               | 9.01.0283      |
| soapproc.dll                         | 68112                | 9.1.0.283      |
| spi_ews.dll                          | 156176               | 10.3.0.283     |
| STGFL310.dll                         | 18432                | 4.11.004       |
| tc_ole.exe                           | 29712                | 9.1.0.283      |
| tc15tool.exe                         | 1052672              | 1.5.6.0        |
| tc18.elf                             | 793412               |                |
| tc18dsp.bin                          | 1389616              |                |
| TCADUTIL.EXE                         | 328720               | 9.1.0.283      |
| tcarch.exe                           | 780816               | 9.1.0.283      |
| tcarchtool.exe                       | 874000               | 9.1.0.283      |
| tcat2url.dll                         | 45072                | 9.1.0.283      |
| tcatt32.exe                          | 299008               | 4.04.0003      |
| tccas40.exe                          | 124216               |                |
| tccasip.exe                          | 150112               |                |
| TCChannelStatus.exe                  | 122880               | 1.0.2153.19520 |
| tccopy.exe                           | 21520                | 9.1.0.283      |
| tccpunr.exe                          | 318480               | 9.1.0.283      |
| tcdc.exe                             | 391696               | 9.1.0.283      |
| tcdc32.dll                           | 209936               | 9.1.0.283      |
| tcdcexe.exe                          | 68112                | 9.1.0.283      |

| File name          | File size (in bytes) | File version |
|--------------------|----------------------|--------------|
| tcdckey.dll        | 161808               | 9.1.0.283    |
| tcdconn.exe        | 28672                | 1, 0, 0, 1   |
| tcdctest.exe       | 21008                | 9.1.0.283    |
| tcddi40.dll        | 2641424              | 3.03.30      |
| tcddi40.dll        | 823312               | 3.03.30      |
| tcddi464.dll       | 823312               | 3.03.30      |
| tcddim64.dll       | 835088               | 3.03.30      |
| tcddimcl.dll       | 78864                | 9.1.0.283    |
| TcDdiMcl.dll       | 78864                | 9.1.0.283    |
| tcddimon.dll       | 1953808              | 3.03.30      |
| tcddimon.dll       | 835088               | 3.03.30      |
| tcddiu64.dll       | 842768               | 3.03.30      |
| tcddiui.dll        | 2658320              | 3.03.30      |
| tcddiui.dll        | 842768               | 3.03.30      |
| tcdel.exe          | 19472                | 9.1.0.283    |
| tcdir.exe          | 19472                | 9.1.0.283    |
| tcdisk.exe         | 435728               | 9.1.0.283    |
| TCDISKtest.exe     | 124432               | 9.1.0.283    |
| tcdistmf.dll       | 343136               | 9.01.0283    |
| tcdistmf.dll       | 36864                | 16.3.0.0     |
| tcdistmf.dll       | 343136               | 9.01.0283    |
| TCDISTMF2.exe      | 420352               | 1.1.2        |
| tcdistmf2lib.dll   | 9216                 | 1.0.0.0      |
| tcdownloadfile.dll | 20496                | 9.1.0.283    |
| tce_file.dll       | 30224                | 9.1.0.283    |
| tce_host.dll       | 339472               | 9.1.0.283    |
| tce_ls1.dll        | 406544               | 9.1.0.283    |
| tce_rem.dll        | 161808               | 9.1.0.283    |
| tce_res.dll        | 278544               | 9.1.0.283    |
| tce_snd.dll        | 77840                | 9.1.0.283    |
| tcecp.exe          | 170000               | 9.1.0.283    |
| tcengine.dll       | 59408                | 9.1.0.283    |
| tcexists.exe       | 36864                | 1.00.00      |
| tcfetch.exe        | 80912                | 9.01.0283    |

| File name       | File size (in bytes) | File version |
|-----------------|----------------------|--------------|
| tcfilbrk.exe    | 86016                | 7.11.00      |
| tcft.exe        | 73232                | 9.1.0.283    |
| tcfw.exe        | 4856848              | 9.01.0283    |
| tcfwlib.dll     | 45056                | 1, 0, 0, 1   |
| tcfwlibu.dll    | 45056                | 1, 0, 0, 1   |
| tcfxvw32.exe    | 175120               | 9.01.0283    |
| tcgendep.dll    | 65552                | 9.1.0.283    |
| tcgendep.exe    | 23056                | 9.1.0.283    |
| tcimg32.dll     | 380928               | 2.22.05      |
| tcimg32.dll     | 762896               | 9.1.0.283    |
| tcinst.dll      | 53248                | 1.00.0005    |
| tcinst.dll      | 4608                 | 1.1.0.0      |
| tcipc.dll       | 129552               | 9.1.0.283    |
| tcipmask.dll    | 81920                | 1.0.4        |
| TCIPMask.dll    | 81920                | 1.0.4        |
| tcipmasklib.dll | 5120                 | 1.0.0.0      |
| tcjuke.exe      | 358928               | 9.1.0.283    |
| tclad.dll       | 103952               | 9.1.0.283    |
| tclanprt.exe    | 426000               | 9.1.0.283    |
| tclaunch.exe    | 35344                | 9.1.0.283    |
| TCLDAP_S.EXE    | 21520                | 9.1.0.283    |
| tcldif.dll      | 53776                | 9.1.0.283    |
| tclfi.dll       | 322064               | 9.1.0.283    |
| tclib.dll       | 4608                 | 1.0.0.0      |
| Tclib32.dll     | 1515536              | 9.1.0.283    |
| tclib32.dll     | 1515536              | 9.1.0.283    |
| tclib32.dll     | 1515536              | 9.1.0.283    |
| tclib32.dll     | 147456               | 7.20.03      |
| tcliconv.dll    | 92688                | 9.1.0.283    |
| tclink.exe      | 531472               | 9.1.0.283    |
| tclinkrs.dll    | 86544                | 9.1.0.283    |
| tclln.dll       | 433168               | 9.1.0.283    |
| tclmd.dll       | 355856               | 9.1.0.283    |
| tclmq.dll       | 349712               | 9.1.0.283    |

| File name        | File size (in bytes) | File version |
|------------------|----------------------|--------------|
| TCLNApi.dll      | 53248                |              |
| tclng.dll        | 68624                | 9.01.0283    |
| TCLNG.dll        | 68624                | 9.01.0283    |
| tclngapi.dll     | 28672                | 1.00.00      |
| TCLNGAPI.dll     | 28672                | 1.00.00      |
| tclsc.dll        | 170512               | 9.1.0.283    |
| tclsi.dll        | 171024               | 9.1.0.283    |
| tclsi_batch.exe  | 87568                | 9.1.0.283    |
| tclsj.dll        | 3259920              | 9.1.0.283    |
| tclsm.dll        | 2162192              | 9.1.0.283    |
| tclxe2k.exe      | 439312               | 9.1.0.283    |
| tcmail.dll       | 106496               | 2.02.00      |
| tcmapi32.dll     | 21504                | 2.05.05      |
| tcmc.exe         | 76888                | 9.01.0283    |
| tcmfp.dll        | 77328                | 9.1.0.283    |
| tcmime.dll       | 1199120              | 9.1.0.283    |
| tcmime1.dll      | 82944                | 1.10.00      |
| tcmon32.exe      | 154640               | 9.1.0.283    |
| tcmsg.dll        | 336400               | 9.1.0.283    |
| tcmwa_ews.dll    | 86032                | 9.1.0.283    |
| tcmwamx.exe      | 149520               | 9.1.0.283    |
| tcmwamx_ews.exe  | 116240               | 9.1.0.283    |
| tcmwamx2.dll     | 3299344              | 9.1.0.283    |
| tcmwamx64.dll    | 4445712              | 9.1.0.283    |
| tcmwxe2k.exe     | 376848               | 9.1.0.283    |
| tcnet32.dll      | 334864               | 9.1.0.283    |
| tcnetwh.dll      | 110096               | 9.1.0.283    |
| tcnotif.dll      | 97808                | 9.1.0.283    |
| tcocrmf.dll      | 82448                | 9.1.0.283    |
| tcoss.exe        | 1184784              | 9.1.0.283    |
| tcpdf.dll        | 280592               | 9.1.0.283    |
| tcperflog.exe    | 55312                | 9.1.0.283    |
| tcplayer.exe     | 57344                | 4.09.0001    |
| tcplugindata.dll | 30736                | 9.1.0.283    |

| File name           | File size (in bytes) | File version |
|---------------------|----------------------|--------------|
| tcpmeter.exe        | 899584               | 2.1.4.0      |
| tcpmetereval.exe    | 1063424              | 2.1.4.0      |
| tcprep.dll          | 188416               | 1.03.04      |
| tcpprobe.exe        | 184848               | 9.1.0.283    |
| tcpprobesetup.exe   | 166928               | 9.01.0283    |
| tcpwd.dll           | 100368               | 9.1.0.283    |
| tcregsvr.exe        | 310800               | 9.1.0.283    |
| tcregsvr64.exe      | 396304               | 9.1.0.283    |
| tcrelagt.exe        | 52752                | 2.10.00      |
| tcreleaseconfig.exe | 376336               | 9.1.0.283    |
| tcreleasectrl.dll   | 915984               | 9.1.0.283    |
| tcreleasetest.exe   | 17936                | 9.1.0.283    |
| tcrenreg.exe        | 344592               | 9.1.0.283    |
| tcreport.dll        | 1092624              | 9.01.0283    |
| tcreport.exe        | 68624                | 9.01.0283    |
| tcresmf.dll         | 114192               | 9.1.0.283    |
| tcresolv.exe        | 56848                | 9.1.0.283    |
| tcresolvew.exe      | 42512                | 9.1.0.283    |
| tcroute.dll         | 55312                | 9.1.0.283    |
| Tcrpc32.dll         | 354320               | 9.1.0.283    |
| tcrpc32.dll         | 354320               | 9.1.0.283    |
| tcrpcwrapper.dll    | 58384                | 9.1.0.283    |
| TCRPCWrapper.dll    | 58896                | 9.1.0.283    |
| TCRPCWrapper.dll    | 58896                | 9.1.0.283    |
| tcrpstup.exe        | 556048               | 9.01.0283    |
| tcrt.dll            | 36864                | 1.0.0.0      |
| tcrt.dll            | 270352               | 9.1.0.283    |
| tcrtf.dll           | 129040               | 9.1.0.283    |
| tcscmap.dll         | 77824                | 1.07         |
| tcshost.dll         | 52240                | 9.1.0.283    |
| Tcsi32.dll          | 736784               | 9.1.0.283    |
| tcsi32.dll          | 315392               | 2.64.02      |
| tcsi32.dll          | 736784               | 9.1.0.283    |
| tcsleep.dll         | 367632               | 9.1.0.283    |

| File name          | File size (in bytes) | File version |
|--------------------|----------------------|--------------|
| tcsnmp.dll         | 73744                | 9.1.0.283    |
| tcsoap.exe         | 1913872              | 9.1.0.283    |
| tcsoapms.dll       | 28688                | 9.1.0.283    |
| tcspiin.dll        | 180224               | 1.03.03      |
| tcspimx.dll        | 270864               | 9.1.0.283    |
| tcspimx_ews.dll    | 275472               | 9.1.0.283    |
| tcsrv.exe          | 140304               | 9.1.0.283    |
| tcstatus.exe       | 329232               | 9.1.0.283    |
| tcstm.dll          | 211984               | 9.01.0283    |
| TCSTPEDT.EXE       | 376832               | 2.14.0001    |
| TCTI32.dll         | 666640               | 9.1.0.283    |
| tcti32.dll         | 167936               | 2.13.05      |
| tcti32.dll         | 666640               | 9.1.0.283    |
| tctool.dll         | 24576                | 1.00         |
| tctool.dll         | 3584                 | 5.0.0.0      |
| TCTRANS.EXE        | 118784               | 1.03.0002    |
| tcTZHelper.dll     | 131072               | 1.00.01      |
| tcuas.exe          | 22544                | 9.1.0.283    |
| tcusertool.exe     | 107536               | 9.1.0.283    |
| tcview32.dll       | 32768                | 1.0.0.0      |
| tcv12logfile.dll   | 54800                | 9.1.0.283    |
| tcv12logtcoss.dll  | 61968                | 9.1.0.283    |
| tcv12polltcoss.dll | 286736               | 9.1.0.283    |
| tcv12response.dll  | 27664                | 9.1.0.283    |
| tcvlatransform.dll | 473616               | 9.1.0.283    |
| tcvlink2.dll       | 236048               | 9.1.0.283    |
| tcvmail.dll        | 756752               | 9.01.0283    |
| tcvmext.dll        | 92176                | 9.1.0.283    |
| tcvp2g.dll         | 85520                | 9.1.0.283    |
| tcvredirect.dll    | 56848                | 9.1.0.283    |
| tcvscheduler.dll   | 72208                | 9.1.0.283    |
| tcvxiclient.dll    | 1617424              | 9.1.0.283    |
| tcvxmailboxdet.dll | 25104                | 9.1.0.283    |
| tcvxiobject.dll    | 22544                | 9.1.0.283    |



| File name           | File size (in bytes) | File version |
|---------------------|----------------------|--------------|
| tcvxiprompt.dll     | 151056               | 9.1.0.283    |
| tcvxirec.dll        | 306192               | 9.1.0.283    |
| tcvxitel.dll        | 128016               | 9.1.0.283    |
| tcweb_import_dl.exe | 53248                | 1.00         |
| tcwebac.dll         | 77328                | 9.1.0.283    |
| tcwebaclib.dll      | 4608                 | 1.0.0.0      |
| tfc.dll             | 3938832              | 9.1.0.283    |
| tfc.dll             | 139264               | 1.0.0.0      |
| tfc32.dll           | 352768               | 1.01.01      |
| tfclib.dll          | 92176                | 9.1.0.283    |
| tnApp1.exe          | 1773584              | 9.1.0.283    |
| TNC_Converter.dll   | 1726480              | 9.1.0.283    |
| TNC_DocConv.dll     | 1899536              | 9.1.0.283    |
| TNC_FaxMain.dll     | 1695760              | 9.1.0.283    |
| TNC_File.dll        | 1718288              | 9.1.0.283    |
| TNC_Fx7.dll         | 1970192              | 9.1.0.283    |
| TNC_H323.dll        | 1694736              | 9.1.0.283    |
| TNC_Http.dll        | 2217488              | 9.1.0.283    |
| TNC_Imageio.dll     | 1569296              | 9.1.0.283    |
| TNC_lpp.dll         | 1979408              | 9.1.0.283    |
| TNC_Sip.dll         | 2294800              | 9.1.0.283    |
| TNC_Store.dll       | 1672720              | 9.1.0.283    |
| TNC_T30.dll         | 2113040              | 9.1.0.283    |
| TNC_Tcsi.dll        | 1611792              | 9.1.0.283    |
| tnc_tnef.dll        | 1704464              | 9.1.0.283    |
| TNC_Tsl.dll         | 1617424              | 9.1.0.283    |
| TNC_Voice.dll       | 1765904              | 9.1.0.283    |
| TNC_Xslt.dll        | 1648144              | 9.1.0.283    |
| tnMasterTcsrv.exe   | 1773584              | 9.1.0.283    |
| tnMasterWinSrv.exe  | 1779216              | 9.1.0.283    |
| TnSlave.exe         | 73232                | 9.1.0.283    |
| tos32.dll           | 34832                | 9.1.0.283    |
| tp80.dll            | 84496                | 9.1.0.283    |
| tp80test.exe        | 52240                | 9.1.0.283    |

| File name                      | File size (in bytes) | File version |
|--------------------------------|----------------------|--------------|
| tplink.sys                     | 6656                 | 7.11.01      |
| TrackMessage.exe               | 8192                 | 9.1.0.283    |
| tws.exe                        | 122765856            | 1.21         |
| udconfig.exe                   | 380944               | 9.1.0.283    |
| usrdde.dll                     | 23568                | 9.1.0.283    |
| usrio.dll                      | 103952               | 9.1.0.283    |
| vbperf.dll                     | 26128                | 9.1.0.283    |
| ViewMessage.exe                | 80384                | 9.1.0.283    |
| ViewMessage.XmlSerializers.dll | 139264               | 9.1.0.283    |
| vrscmd5.dll                    | 122880               | 4.11.004     |
| VrsSetup.exe                   | 104408608            | 5.1          |
| vrswizard.exe                  | 3306000              | 9.1.0.283    |
| VrsWizard.exe                  | 385024               | 1, 3, 0, 5   |
| wconfig.exe                    | 307216               | 9.1.0.283    |
| webhelpkccsfx.exe              | 493404               | 4.42         |
| WebHelpSfx.exe                 | 240549               | 4.42         |
| WebServiceMonitoring.exe       | 57872                | 9.1.0.283    |
| WMIProviderApp.dll             | 44048                | 9.1.0.283    |
| WMIProviderApplications.exe    | 15888                | 9.1.0.283    |
| WMIProviderKCS.dll             | 74768                | 9.1.0.283    |
| WMIProviderKCS.exe             | 15888                | 9.1.0.283    |
| xml2tc.exe                     | 56336                | 9.1.0.283    |
| xmlexit.dll                    | 65040                | 9.1.0.283    |
| xmlvalidator.dll               | 17936                | 9.1.0.283    |