

Kofax Communication Server

Release Notes

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Chapter 1

About This Release

Version Information

The Kofax Communication Server 10.1.0 release has the following build number, which appears in the About window: 10.1.0.0.0.895.

New Features

This section lists enhancements that have been added to the product in Kofax Communication Server 10.1.0.

Additional Environments and Third Party Softwares

Following operating systems are supported from this release of Kofax Communication Server:

- Windows Server 2016 *
- Windows Server 2012 R2
- Windows Server 2012
- Windows Server 2008 R2
- Windows Server 2008 64-bit (32-bit version is not supported)
- Windows 7 (client only)
- Windows 8 (client only)
- Windows 8.1 (client only)
- Windows 10 (client only)

* - Windows Server 2016 is still not released. Kofax Communication Server is tested on the Tech Preview 5 version.

Note Kofax Communication Server

10.1.0 is only supported on the 64-bit version of Windows. That is, all Kofax Communication Server core applications only support Windows Server 2008 (64-bit) and later versions.

This release supports the following new third-party software releases:

- Microsoft Office 2016
- SQL Server Express 2016
- Exchange Server 2016

Only TCfW is supported on Windows Server operating systems. Other Kofax Communication Server clients still support 32-bit Windows client operation systems (Windows 7, Windows 8 and so forth).

KCS Portal

A web-based application KCS Portal is included in this version of Kofax Communication Server. The primary objective of this application is to provide Kofax Communication Server administration and monitoring in latest web-based technologies through alternative superior interface.

This release of KCS Portal includes the following features:

- Monitoring tool as replacement for Kofax Communication Server Monitor application
- Licenses tool as replacement for Kofax Communication Server License maintenance tool
- Services tool as replacement for services management of TCfW client
- Message tracking tool

Single Sign-on in TC/Web

To enhance the security in the auto logon feature in TC/Web, a new value for registry key AutoLogonUserWithDomain=2 is added.

The user name format for login when AutoLogonUserWithDomain=2 is <user name>@<domain name>, where,

<user name> is the user name of the Windows user,

<domain name> is the logged in domain.

For example, for logged in domain KCS and Windows user user01, the user user01@KCS.com format will be used for logging into TC/Web.

Support of SPI-MX With Exchange Server 2016

Kofax Communication Server SPI-MX voice server can now access an Microsoft Exchange Server 2016 using Exchange Web Services (EWS). The support of MAPI/CDO interface is not available from Microsoft.

Note MWA-MX is not supported for Microsoft Exchange 2016.

Note In an ASP installation of TC/ECP, user can either use MAPI or EWS connection for connecting to the Exchange Server, but not both.

TC/Report: Improved Design in Verifying SQL Paused State

After restarting the TC/Report instance, a new registry key General\DBPausedStateCheck is created for checking the SQL database "paused" state. The default value of this registry is 0. The possible values are 0, 1 and 2.

For DBPausedStateCheck = 0, before creating each report, TC/Report checks for the "paused" state by sending a login request with a wrong password.

For DBPausedStateCheck = 1, the check for paused state is skipped.

For DBPausedStateCheck = 2, TC/Report resets the wrong login counter to 0. It tries to establish a connection with correct credentials.

AES Encryption for Registry

Advanced Encryption Standard (AES) may be used to save information (such as passwords) in the registry. AES is a more secure encryption based on AES-256 (FIPS 197). It is now supported for many encrypted registry values. It can be detected by the prefix "ē_0".

The registry value HKLM\Software[Wow6432Node]\Common\RegistryEncryption can be used to control the encryption standard as described below:

Level	Description
10	Encrypt all new values with Kofax-Standard. Kofax Communication Server still works with existing AES encrypted values, but these values are not re-encrypted to Kofax-Standard. This mode is used by default and it is fully compatible with Kofax Communication Server 10.0.1.
20	Encrypt all new values with AES but do not change the existing encrypted values.
40	Encrypt all new values with AES and re-encrypt some existing values with Kofax-Standard with AES.

See the *Platform Manual* for more details.

TC/Web Improvements

TC/Web has been improved:

- To add multiple tabs for Inbox, Outbox and Archive messages. Additional tabs can assist in creating different filter settings for different tabs. Once the filters are saved for a tab, user can select a tab and see the desired result without applying filters.
- A Read-Only user can only reject a message (sent to it for authorization) if its TOPCALL Service is not restricted (in the "Restricted use of services" tab), else, this user cannot reject a message.
- An additional right "Group Message Folder" available to access a group's message folder.
- Option for saving message as coversheet can now be restricted using the "Modify cover sheets" right.

Support Encryption Between TCROSS and LS1/FoIP

New TRP EncryptionFlags registry key is added to improve encryption between TCROSS and LS1/FoIP. The settings within this key are valid for all TRP-Links. Following values are recommended:

Level	Description
0	Do not use encryption (default).
2	Use AES-256 encryption, if supported by remote side. Else, an event log entry (ID 16110) is generated and none-encrypted mode is used.
3	Force AES-256 encryption. If the remote node does not support AES-256 encryption, startup of this node will fail with an event log entry (ID 16111.)

Note The encryption is used by default and it is also used between Primary and Secondary Master.

See the *TCOSS Configuration Manual* for more details.

128-Bit Session Tokens

128-bit session tokens are supported from this release of Kofax Communication Server. 128-bit session tokens protect against any session hijack and also prevent replay attacks.

In this case, the session ID is generated by a random value. The session ID and some bits of session ID are encrypted with a random key which is generated during TCOSS startup.

See the *TCOSS Configuration Manual* for more details.

KCC: Secured Access to TWS

To enhance the security for accessing the TWS, it is recommended to specify the user name and password for the TCOSS server in KCC (instead of TWS), so that, TWS cannot be accessed without user credentials.

TC/Link: Default Password for Directory Synchronization is now Encrypted

The password for new Kofax Communication Server users and users with new names is stored in registry, USRIO\DefaultPassword. This password is now stored in an encrypted format. If this password is changed, the new password can be written to the registry as plain text and it will be encrypted by TC/Link.

Support of Complex Password in +MAIL5V/App99

In the system file +MAIL5V/App99, user can now define how many characters from a specific set of characters must be part of the password. For example:

```
Minimum 0 lower-case letters (a..z)
Minimum 1 upper-case letters (A..Z)
Minimum 1 numerical digits (0..9)
Minimum 2 other characters
```

The above example configuration enforces that new passwords must have at least one upper-case letter, one digit and two other characters. The letters are restricted to standard US letters as indicated in the brackets. The rule "Minimum .. other characters" also counts blanks, vowel mutations, such as 'ä' and punctuation characters, such as comma, point and so forth.

See the *TCOSS Application Module Manual* for more details.

TCSI/TCTI: Encrypted Communication

Data communication for TCTI and TCSI is now encrypted. Encryption of TCTI traffic is based on Windows data privacy for RPC. Additionally, the client identity must be authenticated by the server machine, so that the encryption is supported in the following scenarios:

- The current client process identity is a local user that exists as local user with the same password on the server machine.

- The current client process identity is a Windows domain (active directory) user and the server trusts this domain.
- The client has configured the user ID and password of a local user on the server machine.
- The client has configured the domain, the user ID and password of a Windows domain (active directory) user and the server trusts this domain.
- The client uses an anonymous logon. The option can only be used if the client operating system is Windows 8/2012 or higher.

Configuration example

Typical configuration values are shown in the table.

Configuration on client	Configuration on server	Description
<default>	<default>	Encryption is used if the client machine is authenticated by the server.
RpcClientUserMode=1 RpcClientUserId=""	<default>	Encryption is used if the client operating system is Windows 8/2012 or higher.
RpcClientUserMode=1	Create Windows user "Kofax-KCS-Rpc-User" with password "3-4Girk!9DD_f;"	Encryption is used. Client authenticates with default user. It can be used with all supported Windows versions but it may add a security risk due to default Windows user/password.
RpcClientUserMode=1 RpcClientUserId=x RpcClientUserPwd=y	Create Windows user x with password y	Encryption is used. Client authenticates with a none default user. It can be used with all supported Windows versions.

Note Encryption of TCTI traffic is not supported with native TCTI.

See the *TCTI Configuration Manual* for more details.

Install Kofax Communication Server on a Different Drive

You can now install Kofax Communication Server on a drive other than C:. To do this, create the following registry keys (along with the path) and add the desired installation path for these registry key before starting the installation.

Registry Key	Default Installation Path	Other Installation Path
HKEY_LOCAL_MACHINE\SOFTWARE\TOPCALL\Boot\RootDir	C:\TCOSS	D:\TCOSS
HKEY_LOCAL_MACHINE\SOFTWARE\TOPCALL\Boot\RootDir2	C:\TOPCALL	D:\TOPCALL

Note Once the installation is complete, you must not modify these registry key values.

If you have already installed the Kofax Communication Server and want to change the installation drive, uninstall Kofax Communication Server as described in the *Platform Manual* and reinstall the Kofax Communication Server.

TC/MRM: Message Termination in Hours

TC/MRM is now configured to filter for messages that are older than value (in hours). A new registry key `FilterXMsgOlderThanHours` is introduced. The value of this key is added to `FilterXMsgOlderThan` (existing registry key) to trigger the termination of messages.

The default value of this key is 0.

Documentation: Consolidated VRS Information

The VRS documentation is now consolidated in the *TCLINK VRS Configuration Administration Guide*.

TWS: Filter IP Address to Connect with Web Services

TWS now supports an IP packet filter that contains a list of rules. Each rule starts with an allow/deny keyword followed by an IP-address range that is compared with the source IP-address of the request. If no rule is defined, then all requests are allowed.

See the *TWS Technical Manual* for more details.

Changes in Behavior

This section contains information about the differences in behavior between Kofax Communication Server 10.0.1 and previous releases.

TC/Link-SM - Email Header in Body Text

With Kofax Communication Server 10.1.0, the support of creating HTML object with MHT alternative is added. Therefore, the registry key `TCMIME\HtmlAsAlternative` now also supports the value 2. If email header feature is enabled, the email header is now created by the TC/LINK extension module `EEH2.dll` instead of `ExitEmailHeader.dll`.

For new installations:

- The value of registry key `ExitDll` is set to `EEH2.dll`.
- The `EEH2.dll` and `exit_mailheader.kps` are copied to `c:\TCOSS\TCLP` folder.

When upgrading from older versions:

- The registry value remains as `ExitEmailHeader.dll`.
- The `EEH2.dll` and `exit_mailheader.kps` are copied to `c:\TCOSS\TCLP` folder.

See *TCLINK-SM / TC/LINK-OC Technical Manual* for more details.

Chapter 2

Upgrade

This chapter contains additional information about upgrading Kofax Communication Server. Please review these instructions carefully.

- Before upgrading to a new version, back up your system using KCS Backup (if you own this tool).
- All Kofax Communication Server components installed on a single computer must be updated 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 you are using Kofax Communication Server components from two (or more) releases, you will be asked to 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.
- If you are using TCTECH as it was installed with prior releases, the “LAN Login” right should be removed.
- Add the Message Folder read/write permission to TCLINK user. Also add List and Open permissions of Inbox to Group members and All users.
- Migrate clients that uses LAN login as a domain user and the deprecated short user ID option (must be enabled with registry value “Common/UseOldUserID=1”) to use the user’s principal name.
- **Tandem configuration:** The primary master and the secondary master must always use the same version of KCS.
- For the Management Console, in addition to TCfW and TCMC from the client package, update TCProbe and TCReport from the server package (if used).

Unicode

If you intend to use Unicode:

1. Update all your Kofax Communication Server computers to Kofax Communication Server 9.2.0 or later. You don't have to update all computers simultaneously.
2. Enable Unicode on all servers using the instruction from the *Kofax Communication Server Unicode Installation Guide*.

Once Unicode is enabled on TCOSS, Kofax Communication Server components older than 9.2.0 are no longer allowed.

Special configurations:

- **ASP configuration:** Only the storage servers need to be updated and switched to Unicode. The media servers which are running remote fax and telex line are not affected by the Unicode feature. Both

storage and media servers need to be updated in case that the improved fax header line feature is used.

- **LCR configuration:** The TCOSS nodes of a least cost routing system can be updated 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 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/Web: Sorting in Recipient and User Tool

In the Recipient and User tools, it is now possible to sort entries by clicking a column header. (545225)

Initially, the grid displays the server sorting order. On clicking on the header, sorting toggle between ascending and descending order.

TCfW: Unauthorized Access to System Address Book

Unauthenticated users can read system address book even without access rights. (619510)

In TCfW, it is possible to access all available accounts in the system by an unauthorized user.

TCfW: Address Book may Not Work

Address book may not work with TCfW without read permission on all private address books. (624657)

In TCfW, the Address book now work without read permissions on all private address books.

List of Solved Bugs

Component	Rank	(Bug ID) Title
KCS	2	KCC - EML files will be converted with kfxConverter even if TCDCLINK is configured(740817)
KCS	2	KCC - "Ignored Extension" List not working correctly(740816)
KCS	2	TCfW crashes when selecting messages with shift and unselect with Ctrl(740490)
KCS\TCLINK	2	Possible wrong date with new ExitEmailHeader EEH2 introduced with COD-5715 and COD-5839(734691)
KCS\TCLINK	1	Improper TCLINK error handling in case of TCSI Out-of-Objects situations may lead to message loss(729444)
KCS\tcsv	2	TCSRv: Service is not stopped correctly on a Windows reboot(729258)

Component	Rank	(Bug ID) Title
KCS\TCLINK-MQ	1	TCSI HandleLeak in TC/LINK-MQ when using the StoreMQCorrelIDInCorr functionality as introduced with FR-4210(727210)
KCS	1	Kofax Capture Connector frequently in "not working" state.(725162)
KCS	2	Eventlog descriptions not shown correctly, if KCS is installed on a different drive than C:(724789)
KCS	2	New KCC-Tracing (Lock-Files) very disconcerting(720584)
\Installation	2	Possible crash in COMCTL32.OCX when working within the Listview control of TCFW or KCS License tool(714464)
KCS\TCLINK-SM	1	TCMIME: Extra double-quote character before the filename leads to conversion errors even without actual conversion(709479)
KCS\Kofax Capture	1	Multi-Document-Batches with more than 1 input queue does not work in capture connector(708667)
KCS	1	Memory leak caused by FR4620(708181)
KCS\TCLINK-SM	2	Crash in TC/LINK-MX7/SM when receiving a mail with a long RCPT TO: recipient(707200)
KCS	2	TCFW Address backup broken(705643)
KCS\TCLINK-SM	2	Using ExitEmailHeader in conjunction with registry setting TCMime \HTMLAsAlternative=2 produces a message body showing base64 encoded mime content(705227)
KCS\TCDCLINK	2	KFXConverter: Some PDF files are not converted in a PDF to PDF conversion(701256)
KCS\TCLINK-SM	2	ExitEmailHeader might cause the TC/LINK to hang up completely or crash(700815)
KCS\TCLINK-SM	2	TCmime not backwards compatible. It cannot deal with character set CP1252 any more.(700670)
KCS	2	TcfW viewing capability not backward compatible(700424)
KCS	1	TCOSS crashes if event log parameter contains a percent character(699900)
KCS\TCWeb	1	The customizable resubmit button resubmits a different message(695334)
KCS\Kofax Capture	2	KCC: Plain text body of embedded email is not converted when enabling option Body with Message Header(692396)
KCS	1	Subject truncated(692350)
KCS	1	SNMP traps triggered many hours after the windows events(691148)
KCS\TCWeb	1	TC/Web: Possible memory leak when creating KCS users(690365)
KCS\FoIPv3	2	FoIP inbound call (None-ECM, pass-through mode) may fail with error XY(I:PROT;90;21110;27-305)(688999)
KCS\TCLINK-SM	2	Blanks in Subject are omitted, if the subject contains special characters with ISO-8859-1 encoding(688398)
KCS	2	TCOSS connects to secondary LS1 IP before first(687899)
KCS\TCDCLINK	1	XFA conversion with the Adobe LiveCycle Server is not really working with all kind of XFA documents(687692)
KCS	2	Dynamic Windows port may block Tandem(687664)
KCS\Wconfig	2	WConfig: TCOSS config corrupted when updating from 7.95.16 or lower with fix 4511/4513/4803/4944/5073, Error 624 while TCOSS startup(686439)
KCS\TCWeb	2	TC/Web: Custom buttons generate JavaScript exception(685710)

Component	Rank	(Bug ID) Title
KCS	2	Document conversion error does not trigger Exception queue, Event log error and/or non del(685656)
KCS\TCWeb	1	TC/Web: Company, Salutation and Free Text fields are deleted from a user profile when saving an address using TC/Web(683971)
KCS\TWS	1	Importing a multipage FAX document with Reception Error into KC via KCC leads to only one page in KC showing the reception error(682239)
KCS\Documentation\IP Integration Guide	2	IP Integration Guide should contain more recent CUCM screenshots(682114)
KCS\TCDCLINK	2	Datalogic: Error 0x20070036 Could not find the Pattern named '%s' while converting PDF via TCIMGIO(681380)
KCS\FoIPv3	1	KCS FoIP does not generate an RFC compliant response if an incoming call is offered with T.38 media(681268)
KCS\TCLINK-SM	2	Extension of attachments truncated(681162)
KCS\TCWeb	2	Quality of voice messages played via the TC/Web Web-based player is worse compared to playing them directly via Windows media player(680882)
KCS	2	User not able to log on if password starts with character "#"(679695)
KCS	2	Link - New SecurityLevel causes Links with default TCLINK-User to fail after installation(679377)
KCS	2	TCfW - File Size column shows incorrect value(679375)
KCS\TCWeb	2	Checker's or authorizer's signature can be inserted too many times.(677420)
KCS	2	PCL files with Japanese characters are not converted correctly anymore (KCS 10.0.1 on Windows 2008R2/2012R2)(676377)
KCS\KfxConverter	2	KFXConverter cannot handle RTF documents well(673531)
KCS	1	FoIP should not use new SDP media for outbound calls(672110)
KCS\TCWeb	2	TC/Web: Gridview header disappears when resizing columns(671915)
KCS	2	FoIP may fail with "Error in Fx7 State Table" if data transmission stops for 18min due to ECM retries(670281)
KCS\TCOSS	2	The cost optimizing feature (low prio sendorders are delayed) does not work if a F queue user is defined(670230)
KCS\TCLINK-LN	1	TC/LINK-LN: Link hangs and cannot process message with question mark in body!(668324)
KCS\TCWeb	2	TC/Web: List reload does not remember page number, always starts at page 1(668222)
KCS\TCOSS	2	TCUSERTOOL: Unable to set INT_RIGHTS_YN_2 field (Invalid Path string, Error 605)(663015)
KCS\TCArchive	2	File Access Error, after migrating TC/Archive from multiple directories in VolumePathList to a single directory(662507)
\Installation	2	Enabled CustomConfiguration registry key impacts the KCS setup screens(656253)
KCS\TCDCLINK	2	Datalogics cannot convert a PDF which is already 'flat' according to the LiveCycle server(655951)
KCS\RLA	2	LS1 v2 firmware flashing issue(655551)
KCS\TCLINK-MD	2	TC/LINK-WM (TCLMD.DLL) crashes in TCLIB32.dll after a modem timeout due to wrong trace output(654728)
KCS\Documentation \TCWeb Install Manual	2	TC/Web: Document Annotation feature(652369)

Component	Rank	(Bug ID) Title
KCS\TCWeb	2	Problem with Voice Timeslot definitions, if two timeslots are defined within the same hour(652215)
KCS	1	Link-LN cuts off embedded images(649828)
KCS	1	TC/Link-LN does not provide usable original content(649813)
KCS\KfxConverter	2	KFXconverter doesn't create text alternatives (documentation missing)(649490)
KCS\TCOSS	1	Fax reception with LS1 may fail with error code XY(648898)
KCS	2	KCS: EventLog issue when installing TCOSS to a different drive or folder(648186)
KCS\TCLINK-LN	2	Internal FAX Viewer in Lotus Notes using TCVIEW32.OCX is not working anymore after update to KCS 10.0 or 10.0.1(647204)
KCS\TCWeb	1	BCC recipient fails and not delivered(644822)
KCS	1	KCC - Configuring Max import timeout too low can lead to duplicate message import into Kofax Capture(644376)
KCS\TCWeb	2	TC/Web: User can authorize corrected message without 'Authorize own message' right(642915)
KCS	1	FoIP may not detect correct error reason if an outgoing H.323 call with CUCM is terminated during alerting(641806)
KCS	2	Sip calls with Cisco CM may fail after update to KCS 10.0.1(640869)
KCS\FoIPv3	2	FoIP inbound call with media encryption may fail due to access violation in TNC_Voice(640305)
KCS	2	TC/Web filter settings for the history view were not saved along with other filters(638666)
KCS\TCWeb	2	TC/Web - 'Two-lines-filter' leads to missing gridview when switching to another tab.(638635)
KCS\KfxConverter	2	KFXConverter: Document memory and possible document size limitation of KFXConverter.exe(635878)
KCS\TCWeb	2	TC/Web shows wrong error message on attempt to download attachment which contains unallowed characters(634673)
KCS\TCWeb	2	TC/Web wrong warning of potential attack after download of an attachment with unallowed filename(634475)
KCS\TCWeb	2	Auth field missing in message contents while correcting a message.(633970)
KCS\TCWeb	2	TCSI: Additional separator/comma in the fax preview within TC/Web as well as TCFW(633763)
KCS\TCPerflog	2	Error in TCPerflog checking the file attributes of the C:\TCOSS\PERFLOG directory(632482)
KCS\TCWeb	1	TC/Web: Cannot add some attachments (SendFormUploadAttachmentWhiteList)(631167)
KCS\TCfW	1	Printing from TCFW client does not work anymore(631158)
KCS\TCLINK	2	++CVR in PCL attachment is not resolved anymore after update to KCS 10.0(630962)
KCS\TCWeb	2	While editing saved messages in all folders when click on "save message" delete all fields (To,Cc,Bcc and Auth) in Tc-Web.(629232)
KCS	1	TC/Web: Possible to correct message without necessary right(628734)
KCS\TCLINK-FI	2	VRS not working with settings file key in TCIMG32\VRS Registry.(628645)
KCS\TCOSS	2	Getting TCSI error 300 if it's failing to write a file into +MAIL(628482)

Component	Rank	(Bug ID) Title
KCS\Documentation	2	KCS 10.0.1 Documentation contains a wrong reference to the Foip manual(627276)
KCS\TCWeb	2	TCWeb click on send options button of a Correct message dialogue throws an exception(626572)
KCS\TCWeb	2	TC/Web voice settings do not work anymore(626356)
KCS\TCWeb	2	TC/Web filter status line is not displayed in the user tool(626324)
KCS\TCWeb	2	TC/Web: Auth field is not saved when saving message to private folder(625668)
KCS	1	Single Quotes leads to empty sender and notifications cant be send back(625296)
KCS\TCWeb	1	TC/Web: Special character '&' changes to '&' in address fields which results in several messages sent instead of one(624729)
KCS	1	TC/Web - Filtering the Column Message ID is not working at all(624728)
KCS\TCWeb	2	TC/Web: Cannot delete user with '&' character in it's ID(624721)
KCS	2	Address book may not work with TCfW w/o read permission on all private address books(624657)
KCS\TCWeb	2	TC/Web: FAX service selection not working when entering recipient selection(624599)
KCS\VoiceAccess	2	Wrong "Received at" timestamps reported by KCS Voicemail with SPIMX(624560)
KCS\TCLINK	2	Datalogic PDF conversion might fail for PDF files with missing appearance streams(624195)
KCS\TCWeb	2	TC/Web: Date format inconsistent in filter dialogue window(624160)
KCS\TCWeb	2	TC/Web: Cannot open recipient details within distribution list that contains space characters(623543)
KCS\TCWeb	1	TC/Web: Possible to reject message waiting for authorization without rights! (623512)
KCS\TCWeb	1	TC/Web: Possible to change fields when correcting an authorized message without further authentication(621937)
KCS\Kofax Capture	2	KCC Invalid TCOSS version error after installing Hotfix 4122(620233)
KCS\TCfW	1	TCfW: User can read system address book even without rights (Security issue FAX_AVA_12)(619510)
KCS\TCfW	1	TCfW: Cleartext passwords in memory (Security issue FAX_AVA_09)(619425)
KCS\TCWeb	1	TC/Web: Session riding (Security issue FAX_AVA_07)(619421)
KCS\TCWeb	1	TC/Web: Multiple reflected XSS-vulnerabilities (Security issue FAX_AVA_04) (619420)
KCS\TCWeb	1	TC/Web: Multiple authorization bypasses (Security issue FAX_AVA_03)(619419)
KCS\TCWeb	1	TC/Web: Multiple stored XSS-vulnerabilities (Security issue FAX_AVA_01) (619418)
KCS\TCLINK-MD	1	TC/LINK-MD with TOPs Protocol CIMD2 crashes during startup(618716)
KCS\TCLINK-MD	1	Since update to KCS 10.0 vowel mutations are not sent/received correctly anymore with TC/LINK-MD TOPs (SMPP)(612813)
KCS\TCWeb	2	TC/Web: Clicking on "Edit" on user that includes '&' character in it's ID throws an error message(612656)
KCS\TCWeb	2	TC/Web: Date/Time in Auth field is not formatted according to the registry but fixed at YYYY/MM/DD HH:MM(611870)

Component	Rank	(Bug ID) Title
KCS\TCWeb	2	"Print" log under logtype "AUDIT" are not created in TCWEB.(596531)
KCS\TCfW	2	TCfW crashes on a Windows 2012 R2 server when scrolling down the user/service list clicking in the middle part of the scroll bar(587640)
KCS\TCWeb	2	Tabs in TC/Web: Prohibited characters input error message box is too small(586244)
KCS\Documentation \TCWeb User Manual	2	Authorize and Reject buttons are missing in TC/WEB, if group of AUTH: recipient is different than his userID(584647)
KCS	2	Outbox status in TCfW changes to „Waiting“ after a new alternative number is selected(572331)
KCS	1	Logging of all send attempts does not log all attempts with alternative numbers(571965)
KCS	2	Trace file Header reports wrong OS version on Windows 2012 R2 systems(565854)
KCS\KCSBackup	2	KCSBackup: NullPointerException while retrieving Win32_Registry WMI class(564003)
KCS\TCWeb	2	"VoiceSettings" tab is not opening in tcweb(563067)
KCS\TCWeb	2	Recipients in a TCWEB distlist cannot be exported .(556379)
KCS\TCWeb	2	Export distlist in TCWEB distlist are not working when "securityCSRFPrevention" is enabled.(556374)
KCS\TCfW	2	TCfW - "Save attachment as..." always resulting in a TCI(548769)
KCS\TCWeb	2	Sorting function doesn't work correctly in recipient and user tools anymore(545225)
KCS\TCLINK-SM	2	TC/Mime should also support the codepage "cp1252" and not only "windows-1252"(457519)
KCS\TCWeb	2	Wrong value of a query variable may cause an exception in TcWeb(375782)

Chapter 4

Known Issues

This section contains information about potential issues that you could encounter while using Kofax Communication Server.

TC/Web: Autologon Issue on Windows Server 2012 R2

TCWEB: Autologon not working on Windows 2012 R2 when installed on different machine than TCOSS. (746879)

TC/MWA-MX for Exchange 2016 is not Supported

TC/MWA-MX for Exchange 2016 not yet supported. (745283)

Order of Applications is Different in KCS Portal

Order of Applications in KCS Portal is different to KCS Monitor. (745276)

Issues With Logout Button in KCS Portal

Issue with "Logout" button with Windows authentication in KCS WebClient. (700578)

TCfW: Errors When Login

After TCfW update from 10.0 to 10.0.1, some error pop-ups appear after logging into TCOSS. (624776)

This issue may happen rarely.

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

TCfW: Some Japanese Characters are Replaced with Question Marks

In Japanese TCfW, some Japanese characters are replaced with question marks in all fields. (587573)

TCOSS: Downgrade to KCS 10.0.0

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 already was used with KCS 10.0.1 or later. The layout of the config file ASYSCONFCCCC changed. 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. (551344)

Workaround: Delete the file +TECH/ASYSCONFCCCC:

1. Open a 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

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

KCS EasyConfig Update

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

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. 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). Click **Close**.

Document Conversion: Text Alternative Not Unicode

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

EasyConfig: Service Name Length Not Restricted

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

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

TCfW: Closing Application While Minimized

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

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

TCfW: Erratic Mouse Scrolling

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

Workaround: Use the scroll bar or keyboard for scrolling.

TCfW: Image Preview and Right-To-Left Script

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. (320628, SPR00122502)

TCfW: Opening RTF Attachments Occasionally Fails

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.` (320488, SPR00120108)

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, 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

Modules Overview

This section lists the modules included in this release of Kofax Communication Server.

KCS Client Software Modules

Module	Version	Changed
Data Dynamics ActiveBar(activebar)	1.06.04	No
ClientPro for Lotus Notes(archiveIn)	4.03.00	No
Setup Tools InstallTSP(InstallTSP)	1.00.02	No
KCSclients Common and Setup(kcsclients-common)	10.1.0.0.0.895	Changed
Setup Tools Task Remover(KillTask)	1.02.01	No
Microsoft Shared Files(mscomdls)	1.00.02	No
MsiSetFeatureStates	1.01.00	No
Microsoft Visual Studio 6 Runtime(msvc6redist)	6_s.p5	No
Microsoft Visual C++ 2003 Redistributable(msvc7redist)	7_1_3088	No
Microsoft Visual C++ 2008 Redistributable(msvc9redist)	9_0_30729_17	No
Printer Driver Installation Utility(PrinterInstall)	3.03.08	No
Setup Tools Remove(Remove)	1.00.04	No
Setup Tools Extension DLL(SetupDll)	1.03.00	No
Setup Tools Filecopy(setuptools-filecopy)	1.00.00	No
Setup Tools MSIExtract(setuptools-msiextract)	1.00.00	No
Setup Tools MSIUpdate(setuptools-msiupdate)	1.00.02	No
Setup Tools TC/ArchEx(setuptools-tcarchex)	1.01.00	No
Subclassing Module for TCfW(subclass)	3.00.00	No
Proxy for TC/Dialer TAPI integration(tcdconn)	1.00.01	No
DDI Monitor Client(TcDdiMon-Client)	3.05.00	No
TC/DistMF(tcdistmf)	1.02.03	No
Host Voice Engine(tce_host)	2.00.10	No
Remote Voice Engine(tce_rem)	2.03.11	No
Resource Voice Engine(tce_res)	2.10.00	No
Sound Voice Engine(tce_snd)	2.00.28	No
TC/Engine(TcEngine)	2.04.00	No
TCfW Communication Server Client(tcfw)	5.49.06	Changed

Module	Version	Changed
TCfW Communication Server Client Library(tcfwlib)	1.00.00	No
TopDeskLite(tcfxdlit)	4.04.03	No
Fax Viewer(tcfxvw)	4.01.00	No
Image IO Library(tcimgio)	2.35.03	Changed
NULL(tclaunch)	3.03.04	No
TC/Lib(tclib)	7.34.30	Changed
Language File Tool(tclng)	1.07.01	No
Language API(tclngapi)	1.00.00	No
Login Component(tclogin)	4.09.01	Changed
TCMC Common(tcmc-tcpcommon)	4.10.00	No
TC/Dialer TCMC Panel(tcmc-tcpdialer)	1.05.00	No
Fax Viewer TCMC Panel(tcmc-tcpfaxviewer)	4.06.00	No
TC/Player TCMC Panel(tcmc-tcpplayer)	4.09.01	Changed
TCMC PrefViewer(tcmc-tcprefviewer)	4.08.00	No
TCfW Communication Server Client TCMC Panel(tcmc-tcptcfw)	4.13.00	No
VoiceAccess TCMC Panel(tcmc-tcpvmail)	4.08.00	No
TCMC Store(tcmc-tcstore)	4.06.00	No
Error Messages(tcmsg)	1.11.07	Changed
TC/Net(tcnet)	3.05.00	No
KCS Printer Device Drivers(tcpdd)	3.03.30	Changed
Voice Player(tcplayer)	4.10.00	Changed
TC/RT(tcrt)	2.10.00	No
TC/RTF(tcrtf)	1.02.01	No
Client Server Interface(TCSI)	2.81.12	Changed
Transport Interface(TCTI)	2.16.12	Changed
TAPI Service Provider(tctsp)	1.00.06	No
Fax Viewing and Printing Component(tcview32)	4.05.00	Changed
KCS Foundation Classes(tfc)	1.18.00	Changed
CyberActiveX UniSuitePlus Unicode Controls(UniSuitePlus)	1.00.13	No

KCS Software Modules

Module	Version	Changed
KIC Kofax Capture Plugin (AEF_KcPlugin)	2.80.07	Changed
Line Server Application Image Template (app_img_tmpl)	2.06.02	No

Module	Version	Changed
Line Server TC18 Application Image Template (app_img_tmpl18)	3.05.00	Changed
Advantys ASPSmartUpload (aspsmart-aspsmartupload)	3.00.00	No
Attachment to URL Conversion (at2url)	1.31.00	No
Modules from the BCPlatform (KCS and KCSclients) in Subversion (BCPlatform)		No
Belus Xzip (belus-xzip)	2.05.00	No
branchbox		No
Binary Trace Converter Tool (btrconv)	1.05.03	Changed
Caprock Dictionary Component (caprockdct)	1.07.00	No
Kofax CAPTools (captools)	5.01.00	No
Crystal Reports 10 Runtime (crystalreportsrdc)	1.01.00	No
LS1 Main Program (cs1)	2.05.12	No
File Copy Tool (ctc)	7.27.00	No
EasyConfig for KCS - XML Configuration Data Model (Data)	1.02.05	No
Datalogics Library for Adobe PDF (Datalogics)	1.00.102	Changed
DemoMapping		No
EasyConfig for KCS - Config Application (EC)	1.02.02	No
EasyConfig for KCS - Documentation Generator (ECDoc)	1.00.04	No
EEH	1.15.03	Added
Kofax Communication Server - Advanced Email Capture (EmailConnect)	1.02.01	No
Line Server TC18 Ethernet Config (ethtool)	1.00.00	No
ex55	2.13.02	No
ExitEmailHeader	1.02.03	No
ExitSon (exitson)	1.30.00	No
ExLib (exlib)	1.00.01	No
Expat XML Parser (Expat)	1.95.08	No
Fault Tolerant Voice Tool (fail_over_setup)	1.01.00	No
Web Services Interface Between Fax Servers and Applications (FaxWs)	1.01.00	No
TC/LINK-FI (fi)	2.31.00	No
FoIP Component (FoIP)	3.26.11	Changed
FoIP-msvc9redist-rtm		No
OpenH323 Library (FoIP-openh323)	1.18.04	No
PWLib Library (FoIP-pwlib)	1.10.02	No
Language File Tool (FoIP-tclng)	1.07.01	No
Error Messages (FoIP-tcmmsg)	1.11.07	Changed
Intelligent Network Component for Image Conversion (FoIP-TNC_Converter)	3.26.11	Changed

Module	Version	Changed
Intelligent Network Component for T.30 Control (FoIP-TNC_FaxMain)	3.26.11	Changed
Intelligent Network Component for File Access (FoIP-TNC_File)	3.26.11	Changed
Intelligent Network Component for TCOSS 7 FoIP (FoIP-TNC_Fx7)	3.26.11	Changed
Intelligent Network Component for H.323 Call Controll (FoIP-TNC_H323)	3.26.11	Changed
Intelligent Network Component for HTTP (FoIP-TNC_Http)	3.26.11	Changed
Intelligent Network Component for SIP Call Controll (FoIP-TNC_Sip)	3.26.11	Changed
Intelligent Network Component for Persistent Storage (FoIP-TNC_Store)	3.26.11	Changed
Merlin Component for FoIP T.30 (T.38 and Passthrough) (FoIP-TNC_T30)	3.26.11	Changed
Intelligent Network Component for Simple Workflow Processing (FoIP-TNC_Tsl)	3.26.11	Changed
Intelligent Network Component for KCS Voice Server Integration (FoIP-TNC_Voice)	3.26.11	Changed
Intelligent Network Master (FoIP-TnMaster)	3.26.11	Changed
Line Server TC18 FPGA Loader (fpgaloader)	1.05.04	No
TC/SNMP HP OpenView Tools (hpovtools)	1.30.00	No
Hw-overview		No
KCS IP Printer (IpPrinter)	3.26.11	Changed
(IpPrinter-MxsTnMaster	3.26.11	Changed
Intelligent Network Component for File Access (IpPrinter-TNC_File)	3.26.11	Changed
Intelligent Network Component for HTTP (IpPrinter-TNC_Http)	3.26.11	Changed
Intelligent Network Component for Image Conversion (IpPrinter-TNC_Imageio)	3.26.11	Changed
Intelligent Network Component for IP Printing (IpPrinter-TNC_Ipp)	3.26.11	Changed
Intelligent Network Component for TCSI (IpPrinter-TNC_Tcsi)	3.26.11	Changed
Intelligent Network Component for Simple Workflow Processing (IpPrinter-TNC_Tsl)	3.26.11	Changed
Custom panel for KC - KCS Notification on batch delete (KcNotification)	1.02.04	Changed
Release Module for KCS - KC Integration (KcRelease)	2.40.02	Changed
Kofax Communication Server Common and Setup (kcs-common)	10.1.0.0.0.895	Changed
KCS Backup and Restore Tool (KcsBackup)	2.04.01	No

Module	Version	Changed
MS Office-independent document converter (KFXConverter)	1.05.03	Changed
LibWWW Access Library (libwww)	5.04.00	No
Lincoln Converter (lincoln)	6320000a	No
Link Setup Tool (LinkSetupTool)	1.30.00	No
Linux Kernel (linux-kernel)	1.13.01	No
Line Server TC18 System Image (linux-kernel-tc18)	2.05.00	Changed
TC/LINK-LN (ln)	2.20.00	Changed
LogWinEvent (LogWinEvent)	1.30.00	No
LS1 Trace Tool (ls1trace)	1.02.01	No
Line Server Diagnostic Tool (lsd2)	2.06.01	No
TC/LINK-WM and TC/LINK-MD (md)	2.32.01	Changed
KCS MetaMail (metamail)	1.01.01	No
TC/LINK-MFP (mfp)	1.08.02	No
KCS MFPCConnect (mfpconnect)	2.05.00	No
Microsoft Data Access Objects (microsoft_ado)	2.08.00	No
TC/MIME (mime)	2.32.02	Changed
BAPI to XML Tool (mkbapixml)	1.00.03	No
Enhanced BAPI to XML Tool (mkbapixml2)	1.00.03	No
TC Model 350 (model350)		No
KCS Monitoring Setup (Monitoring-Setup)	2.00.04	Changed
KCS Monitoring Interop.TCRPC (Monitoring-Setup-Interop.TCRPC)	1.01.02	Changed
KCS Monitoring Interop.TCSI32 (Monitoring-Setup-interop.TCSI32)	1.01.00	No
KCS Monitoring KCS_Environment (Monitoring-Setup-KCS_Environment)	1.37.03	Changed
KCS Monitoring Admin (Monitoring-Setup-KCS_Monitoring_Admin)	2.00.00	Changed
KCS Monitoring Configuration (Monitoring-Setup-KCS_Monitoring_Configuration)	2.00.00	Changed
KCS Monitoring Excel (Monitoring-Setup-KCS_Monitoring_Excel)	1.02.05	No
KCS Monitoring KPIUtil (Monitoring-Setup-KCS_Monitoring_KPIUtil)	1.00.05	No
KCS Monitoring Kofax.KCS.Monitoring.Kpi (Monitoring-Setup-Kofax.KCS.Monitoring.Kpi)	1.37.02	Changed
KCS Monitoring Kofax.KCS.Monitoring.Util (Monitoring-Setup-Kofax.KCS.Monitoring.Util)	1.00.05	No
KCS Monitoring Logger (Monitoring-Setup-Logger)	1.00.04	No
KCS Monitoring SharedConfiguration (Monitoring-Setup-SharedConfiguration)	1.02.02	No

Module	Version	Changed
KCS Monitoring SqlCommandScripts (Monitoring-Setup-SqlCommandScripts)	1.02.02	No
TC/Lib (Monitoring-Setup-TCLIB)	7.34.30	Changed
TC/RPC (Monitoring-Setup-TCRPC)	7.12.00	Changed
KCS Monitoring TCRPCWrapper (Monitoring-Setup-TCRPCWrapper)	1.30.05	Changed
Client Server Interface (Monitoring-Setup-TCSI)	2.81.12	Changed
Transport Interface (Monitoring-Setup-TCTI)	2.16.12	Changed
KCS Monitoring WebServiceMonitoring (Monitoring-Setup-WebServiceMonitoring)	1.37.02	Changed
KCS Monitoring WMIProvider_Applications (Monitoring-Setup-WMIProvider_Applications)	1.37.02	Changed
KCS Monitoring WMIProvider_KCS (Monitoring-Setup-WMIProvider_KCS)	1.37.01	Changed
TC/LINK-MQ (mq)	2.32.00	Changed
Microsoft Shared Files (mscomdls)	1.00.02	No
MSLync	1.00.02	No
Microsoft Script Control (msscript)	5.00.01	No
(msvc10redist)	10.0.40219.1	No
Microsoft Visual Studio 6 Runtime (msvc6redist)	6_s.p5	No
Microsoft Visual C++ 2003 Redistributable (msvc7redist)	7_1_3088	No
Microsoft Visual C++ 2005 Redistributable (msvc8redist)	8_0_50727_762	No
Microsoft Visual C++ 2008 Redistributable (msvc9redist)	9_0_30729_17	No
Microsoft MSXML (msxml)	4_20_9818_0	No
TC/LINK-MX Install Template (mx-insttemplate)	1.00.01	No
TC/LINK-MX7 (mx7)	1.02.01	No
Lotus Notes Runtime (notes)	4.06.02	No
Update Tool for Lotus Notes INI (notesini)	1.00.03	No
OpenSSL Library (openssl)	1.01.20	Changed
OpenVXI VoiceXML Interpreter (OpenVXI)	3.01.00	No
PBX Integration (pabx)	1.01.01	No
Persists AspEmail (persists-aspemail)	5.00.00	No
Printer Driver Installation Utility (PrinterInstall)	3.03.08	No
TC/LINK-RS Test Client (releasetestclient)	1.01.00	No
Remote TOS Tools (remtos)	7.40.00	No
Remote LineServer Administration (RLA)	1.02.14	No
Intelligent Network Component for HTTP (RLA-TNC_Http)	3.22.13	No
Intelligent Network Component for Remote LineServer Administration (RLA-TNC_RLA)	3.22.13	No
Intelligent Network Library (RLA-TNLib)	3.22.13	No

Module	Version	Changed
Intelligent Network Master (RLA-TnMaster)	3.22.13	No
TC/Report Component (RPT)	2.15.02	Changed
TC/LINK-SC (sc)	2.06.01	No
Mapfile for TC/LINK-SC7 (sc7)	1.00.06	No
TC/LINK-SC Addon (scaddon)	2.00.01	No
TC/LINK-SI (si)	1.30.00	No
TC/LINK-SI Sample Files (si_samples)	1.00.04	No
TC/LINK-SJ (sj)	2.30.01	No
TC/LINK-SM (sm)	2.32.01	Changed
TC/SNMP Config (snmp_config)	1.30.00	No
SNMP Files (snmp_files)	1.30.02	No
TC/SOAP Processing (soapproc)	1.30.00	No
SpiderMonkey Library (SpiderMonkey)	1.05.00	No
sxapi	4.2.8	No
TC15 Configuration Tool (tc15tool)	1.05.06a	No
TC16 EPLD (tc16-epld_2x)	2.5	No
TC16 ECP 3.x (tc16-epld_3x)	3.4	No
Line Server TC18 FPGA (tc18-fpga)	1.02.00	No
TC400 (tc400)	5.01.01	No
Utility to read Active Directory schema (tcadutil)	1.30.00	No
TC/Archive (tcarch)	2.23.10	Changed
TC/CPUNr (tccpunr)	1.30.00	No
Link Document Converter (tcdc32)	2.32.03	Changed
Link Document Converter File Recognition (tcdc32-filerecognition)	finalrelease	No
DDI Monitor Client (TcDdiMon-Client)	3.05.00	No
Disk Utility (tcdisk)	7.11.01	No
Disk Test Utility (TcDiskTest)	1.02.00	No
TC/DistMF (tcdistmf)	1.02.03	No
TC/DownloadFile (tcdownloadfile)	1.00.01	No
File Voice Engine (tce_file)	2.01.01	No
Host Voice Engine (tce_host)	2.00.10	No
LS1 Voice Engine (tce_ls1)	1.04.02	No
Remote Voice Engine (tce_rem)	2.03.11	No
Resource Voice Engine (tce_res)	2.10.00	No
Sound Voice Engine (tce_snd)	2.00.28	No
TC/ECP (tcecp)	3.04.01	No
TC/Engine (TcEngine)	2.04.00	No
TC/FilBrk (tcfilbrk)	7.11.00	No
KCS File Transfer Tool (tcft)	1.03.10	No
Dependency Generator Tool (tcgdep)	1.32.00	Changed
Image IO Library (tcimgio)	2.35.03	Changed

Module	Version	Changed
COM Server for TCOSS Instances Information (tcinst)	1.00.05	No
TC/IPC (tcipc)	1.02.01	No
LDAP Dirsync for Active Directory (tclad)	1.31.00	No
TC/LANPrnt (tclanprt)	7.12.02	No
tclaunch	3.03.04	No
TCLDAP Simulation (tcldap_s)	1.30.00	No
LDIF Dirsync (tclidif)	1.30.00	No
TC/Lib (tclib)	7.34.30	Changed
TCLI Converter (tcliconv)	7.26.01	No
TC/LINK (tclink)	2.31.13	Changed
TC/LINK-MX (tclinkmx)	2.14.01	No
TC/LINK-RS (tclinkrs)	1.05.01	Changed
Language File Tool (tclng)	1.07.01	No
Language API (tclngapi)	1.00.00	No
Login Component (tcllogin)	4.09.01	Changed
TC/LINK-SI Batch Execution (tclsi_batch)	1.30.00	No
License Tool (tclt)	2.05.00	Changed
TCLXE2K	2.30.02	No
Message Analyser (tcma)	1.01.00	No
TCMC Common (tcmc-tcpcommon)	4.10.00	No
TCMC PrefViewer (tcmc-tcprefviewer)	4.08.00	No
TCMC Store (tcmc-tcstore)	4.06.00	No
TC Monitor (tcmon)	7.30.00	No
Error Messages (tcmsg)	1.11.07	Changed
Message Wait Agent for Lotus Notes (tcmwaln)	2.02.00	No
Message Wait Agent for Microsoft Exchange (tcmwamx)	1.31.00	Changed
tcmxsnap	1.00.07	No
TC/Net (tcnet)	3.05.00	No
TC/NetworkHelper (tcnetworkhelper)	1.01.02	No
TC Open Server Software (tcoss)	7.96.26	Changed
TCOSS Document Converter (tcoss_tcdc-tcdc)	7.46.00	No
TCOSS for TS Hardware (tcoss_ts)	7.47.01	No
KCS Printer Device Drivers (tcpdd)	3.03.30	Changed
Performance Counter Logging Service (TcPerfLog)	1.03.00	Changed
TCPMeter Tool (tcpMeter)	2.01.04	No
TC/PreProcess (tcprep)	1.03.04	No
KCS Probe Agent (tcprobe)	1.31.00	No
TC/Probe Setup (tcprobesetup)	2.32.00	No
TC/Probe TCMC Panel (tcprobetcmc)	2.32.00	No

Module	Version	Changed
TC/Pwd (tcpwd)	1.00.01	No
COM Registration Tool (tcregsvr)	1.01.00	No
KCS Message Release Manager (tcrelagt)	2.00.00	Changed
TC/LINK-RS Configuration (tcreleaseconfig)	1.03.00	No
TC/LINK-RS Controller (tcreleasectrl)	1.03.01	No
TC/LINK-RS Controller Samples (tcreleasesamples)	1.00.04	No
Registry Rename Tool (tcrenreg)	1.00.00	No
TC/Report (tcreport)	2.40.00	Changed
TC Report WMI (tcreportwmi)	1.30.02	No
TC/Report Setup (tcrepsetup)	2.32.00	No
TC/Report TCMC Panel (tcreptcmc)	2.32.00	No
TC/Resolve (tcreolve)	1.30.01	No
Rich Text Printing (tcrichtext)	1.03.02	No
TC/Route (tcroute)	1.30.00	No
TC/RPC (tcrpc)	7.12.00	No
TC/RT (tcrt)	2.10.00	No
TC/RTF (tcrtf)	1.02.01	No
TC/Setup (tcsetup)	2.32.00	Changed
Client Server Interface (TCSI)	2.81.12	Changed
Sleep COM Server (tcsleep)	1.00.01	No
TC/SNMP (tcsnmp)	1.31.00	Changed
TC/SOAP (tcsoap)	1.32.00	Changed
TC/SOAP Messages (tcsoapmsg)	1.30.00	No
SPI for Lotus Notes (tcspiln)	1.03.03	No
SPI for Microsoft Exchange (tcspimx)	1.30.01	Changed
KCS Service (tcsrv)	8.04.11	Changed
Voice Statemachine (TCStateMachine)	2.01.06	No
Status Agent (tcstatus)	1.10.01	No
TC/Setup Script Editor (tcstpedt)	2.14.01	No
TCECP Switch Script (tcswitch)	2.00.04	No
Server Extensions (tcsx)	7.28.02	No
Transport Interface (TCTI)	2.16.12	Changed
TC/Tool (tctool)	1.00.00	No
Language File Translation Tools (tctrans)	1.03.02	No
TC/UAS (tcuas)	7.09.03	No
Voice User Tool (TCUserTool)	1.01.01	Changed
Fax Viewing and Printing Component (tcview32)	4.05.00	Changed
TC/VoiceLink2 Log (tcvl2log)	1.03.00	No
TC/VoiceLink2 TCOSS Poller (tcvl2polltcoss)	1.04.00	No
TC/VoiceLink2 Response (TCVL2Response)	1.03.00	No
TC/VoiceLink Agent Transform (tcvl2transform)	1.04.00	No

Module	Version	Changed
TC/VoiceLink2 (tcvlink2)	1.03.01	No
VoiceAccess (TCVMail)	3.09.09	No
VoiceAccess Extension (TCVMEExt)	1.00.01	No
TC/VP2G (TCVP2G)	1.01.00	No
TC/VRedirect (TCVRedirect)	1.01.04	No
TC/Vscheduler (TCVScheduler)	1.01.02	No
TC/VoiceXML VXIClient (TCVXIClient)	1.04.01	No
TCVXIMailboxDet (TCVXIMailboxDet)	1.03.00	No
TC/VoiceXML VXIObject (TCVXIObject)	1.03.00	No
TC/VoiceXML VXIPrompt (TCVXIPrompt)	1.03.00	No
TC/VoiceXML VXIRec (TCVXIRec)	1.04.00	No
TC/VoiceXML VXITel (TCVXITel)	1.04.00	No
TC/Web .Net (TCWeb.Net)	10.1.895	Changed
TC/Web IPMask Component (tcweb_tcipmask)	1.00.04	No
TC/WebAccess (TcWebAc)	1.04.04	No
template	2.13.02	No
TC/ECP Testinstnace (testecp)	2.00.02	No
KCS Foundation Classes (tfc)	1.18.00	Changed
TFC Library (tfclib)	1.01.00	No
TC/SNMP Tivoli NV Tools (tivolinvttools)	1.30.00	No
Intelligent Network Component for Exchange-specific email tasks (TNC_Tnef)	3.24.08	No
KCS Open Message Format Technical Manual (Tom)	2.31.01	No
TOPS SMSC SDK (tops-sdk)	7_0_16	Changed
TP80 Hardware Library (tp80)	7.14.01	No
Transputer Link Hardware Driver (tplink)	7.11.01	No
TC/SNMP Trap Tools (traptools)	1.00.00	No
TC16 HW Testprogram (tt04-tc16)	1.03.02	No
TC22 HW Testprogram (tt04-tc22)	1.03.01	No
Line Server Test Program 05 (tt05)	1.01.01	No
Line Server TC18 DSP Test Program (tt06-dsp)	1.05.02	No
Line Server TC18 PPC Test Program (tt06-ppc)	1.04.01	No
Microsoft SAPI 4 (tts-sapi_40)	4.00.00	No
TTS Configuration Tool (TTSTConfig)	2.10.02	No
TCOSS Web Services (Tws)	3.26.13	Changed
Tws-ImageMagick	6.9.1-2	No
Image to TIFF Conversion Tool (Tws-ImageToTiff)	1.05.02	Changed
MS Office-independent document converter (Tws-KFXConverter)	1.05.03	Changed
Microsoft Visual C++ 2003 Redistributable (Tws-msvc7redist)	7_1_3088	No

Module	Version	Changed
Tws-msvc9redist-rtm		No
Image IO Library (Tws-tcimgio)	2.35.02	Changed
TC/Lib (Tws-tclib)	7.34.30	Changed
Client Server Interface (Tws-tcsi)	2.81.12	Changed
Transport Interface (Tws-TCTI)	2.16.12	Changed
Intelligent Network Component for Image Conversion (Tws-TNC_Converter)	3.26.11	Changed
Intelligent Network Component for Document Conversion (Tws-TNC_DocConv)	3.26.13	Changed
Intelligent Network Component for File Access (Tws-TNC_File)	3.26.11	Changed
Intelligent Network Component for HTTP (Tws-TNC_Http)	3.26.11	Changed
Intelligent Network Component for Image Conversion (Tws-TNC_Imageio)	3.26.11	Changed
Intelligent Network Component for TCSI (Tws-TNC_Tcsi)	3.26.11	Changed
Intelligent Network Component for Simple Workflow Processing (Tws-TNC_Tsl)	3.26.11	Changed
Intelligent Network Component for Xml Stylesheet Language Transformations (Tws-TNC_Xslt)	3.26.11	Changed
Intelligent Network Master (Tws-TnMaster)	3.26.11	Changed
Tws-TotalMailConverterX	2.1.0.169	No
TCOSS Web Services Code Samples (TwsSamples)	1.01.00	No
ucma_3_0_API_runtime	4_0_7577_0	No
CyberActiveX UniSuitePlus Unicode Controls (UniSuitePlus)	1.00.13	No
UsrDDE (usrdde)	1.30.00	No
User IO (usrio)	2.32.00	Changed
TC/Report VBPerf (vbperf)	2.30.00	No
Voiceprompt Library (VoiceLib)	2.01.05	No
VRS Components (vrs_components)	5.01.01	Added
VRS Test (vrstest)	1.05.03	No
WConfig (wconfig)	7.96.26	Changed
TC/LINK-X4 (x4)	1.13.05	No
Xerces-C XSLT Processor (XercesC)	2.06.01	No
XML Integration (xml)	2.16.00	No
XML to TCSI conversion Tool (xml2tc)	1.00.01	No
XmlExit	1.00.07	No
XmlValidator	0.00.05	No
TC/Backup Zip Library (zip)	1.78.00	No

Module	Version	Changed
KCS Portal	10.01.895.0	Added