

Cisco TelePresence ISDN Link

Software Release Notes

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February 2020

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Document Revision History

Revision	Date	Description
14	18 th February 2020	Release of IL1.1.11
13	7 th January 2020	Release of IL1.1.10
12	5 th October 2018	Release of IL1.1.9
11	12 th June 2018	Release of IL1.1.8
10	4 th June 2018	Updated Interoperability list
09	13 th December 2017	Release of IL1.1.7 security patches
08	14 th June 2016	Release of IL1.1.6 security patches
07	23 rd June 2015	Release of IL1.1.5 security patches / FIPS fix
06	22 nd October 2014	Release of IL1.1.4 for Shellshock
05	16 th July 2014	Release of IL1.1.3
04	27 th June 2014	Release of IL1.1.2
03	2 nd May 2014	Release of IL1.1.1, fix for OpenSSL "Heartbleed" issue
02	7 th February 2013	Release of IL1.1.0
01	23 rd July 2012	Initial release of IL1.0.0

Introduction to ISDN Link Software

These release notes describe the features and capabilities included in the Cisco TelePresence ISDN Link software.

Cisco ISDN Link uses a FIPS approved cryptographic module and was found to be FIPS compliant through an independent compliance review.

The Telepresence ISDN Link software can be downloaded from http://www.cisco.com.

Deferred software versions

A software version is deferred when we find critical issues within the software. This is to prevent users from downloading and installing affected software versions. Replacement software will always be in place before a software version is deferred.

Software and deferral policy

Affected software versions with issues will be deferred on a regular basis from the download section on cisco.com to avoid providing potential vulnerable software after security fixes.

IL1.1.10 is deferred

IL1.1.10 is deferred due to a checksum issue.

IL1.1.11 is released to correct a checksum error in IL1.1.10. No change in features and functionality from IL1.1.10 release as listed in "New features and functionality in IL1.1.10".

There are no new features in this release. This is primarily a security fix release.

There are no new features in this release. This is primarily a bug fix release.

Upgraded to use OpenSSL 1.0.2o.6.2.238. There are no other new features in this release except bug fixes.

There are no new features in this release. This is a security release.

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There are no new features in this release. This release is to primarily deal with the Shellshock Bash vulnerabilities CVE-2014-6271 and CVE-2014-7169.

Added support for H.264 Sample Aspect Ratio signalling.

IL1.1.2 is recommended to be used with TC7.2.0 on the paired codec. TC7.2.0 will be released in August 2014.

Support for G.728 and G.729

G.728 and G.729 audio protocols support added in ISDN Link. The protocols must also be supported by the paired codec.

G.729 is supported by all codecs running TC 6.1.0 and later.

G.728 is supported by the following list of codecs running TC 7.2.0 and later:

- C90, SX20, MX200 G2, MX300 G2: Full support
- C40, C60, EX90: Only for point-to-point calls (not multisite)

Down Speeding of Outgoing Calls

New configuration of xConfiguration H320 Downspeed: On/Off. This selects if ISDN Link can down speed current call(s) if all available bandwidth is in use, and another outgoing call is requested from paired codec. The default setting is ON.

Video Loopback modes

It is now possible for special test scenarios to enable video loopback on the PRI and BRI circuits. Please see the admin guide for more information. These modes are non-persistent, so after a restart of the ISDN Link they will be disabled.

There are no new features in this release, only fix from IL1.1.0 is for openSSL "Heartbleed" bug (CSCuo26686).



NOTE – Customers previously provided with IL1.1.1 Pre-Alpha 1 with a fix for third party interoperability issues please note that the fix in the pre-alpha is **not included** in this release. The interoperability issues will be addressed in the next release (IL1.1.2) to be released shortly.

Automatic Pairing of ISDN Link and Endpoint (Requires TC6.0)

Previously there was a fair amount of manual configuration from the serial interface in order to setup the ISDN Link.

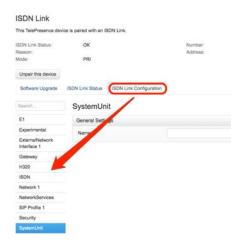
With IL1.1 and TC6.0 you can now connect an unconfigured ISDN Link and from the web interface of the endpoint search and pair with the ISDN Link (see <u>ISDN Link Installation Guide 1.1</u> for more details)



Configuration of ISDN Link from the Endpoint (Requires TC6.0)

Once you have paired the device with an endpoint you will now be able to configure the device from the web page of the endpoint.

Please see the <u>ISDN Link Installation Guide</u> for some typical examples of settings for various configurations.



Software Upgrade Via Web Interface of Paired Endpoint (Requires TC6.0)

The ISDN Link can now be easily upgraded from the paired endpoint, using the web interface of the paired endpoint.



Better Call Integration (Requires TC6.0)

With IL1.0/TC5.x you had to enter a complicated dial string in order to dial ISDN calls. With IL1.1 and TC6.0 you now just enter the ISDN number to dial and then select the call as ISDN and the call rate and press call.



If primarily dialing through the ISDN Link you can set your default call to H.320 and default call rate to that desired on the endpoint web interface, then all you need to do is enter the number to dial and press Call.

See ISDN Link Installation Guide for more details on how to place calls.





AAC-LD

AAC-LD is now supported with the ISDN Link in this release.

Encryption

Encryption is now supported in this release.

Favourites

Frequently dialled numbers can be stored in the favourites list.



IL1.1.0 is recommended for use with TC6. It can still be used with older software using the previous manual pairing method but it is highly recommended to use it with TC6.0 (with new pairing method) to obtain the benefits of the new features providing enhanced usability and managability. Please see Upgrading from Previous Release IL1.0/TC5.x to IL1.1/TC6.0 Page - 21 if you are already using an ISDN Link with IL1.0.



For automatic pairing discovery and general operation the ISDN Link must be on the same network segment as the endpoint it will pair to. Recommended installation is for the endpoint that is to be used with the ISDN Link to be cabled directly into the ISDN Link via the dedicated port on the ISDN Link for the endpoint.



The new pairing method with TC6.0 and IL1.1 is known as automatic pairing as opposed to the previous pairing method known as manual pairing. If using a previous release you must upgrade and re-pair the ISDN Link and endpoint using the new method to obtain the benefits of all the new features. You can still use the ISDN Link in manual pairing mode.

Upgrading ISDN link Software (From IL1.1.1)

Use the web interface of the paired endpoint to upload and apply the new software to the ISDN Link.

Login to the codec as admin then proceed to Configuration -> Peripherals -> Manage ISDN Link. Look for the Upload Software section on the webpage, then browse to the ISDN Link package (s51500il_1_1_x.pkg) and press upload. Once the package is uploaded press the Install button and the ISDN Link will install the software and reboot to apply the upgrade. This can take a couple of minutes so please wait for the message saying the ISDN Link was successfully upgraded.

To confirm the new software is applied, use the web interface of the paired codec and go to Configuration -> Peripherals and under ISDN Link you should see the software version that you uploaded.

Upgrading from Release IL1.0.0/TC5.x to IL1.1.0/TC6.0

Note – for new installations please refer to the <u>ISDN Link Installation Guide</u> for pairing and configuration examples, this procedure is for previous installations using TC5.x and IL1.0.

The recommended method of upgrading from TC5/IL1.0 would be as follows:

- 1. Upgrade endpoint to TC6.0 (license key required)
- 2. Upgrade the ISDN Link from IL1.0 to IL1.1
 - a. If your ISDN Link has IP connectivity to Internet then you can login as admin and enter the command:
 - i. xcom SystemUnit SoftwareUpgrade URL: "http://ftp.tandberg.com/pub/software/endpoints/isdnlink/il1/ s51500il1_1_0.pkg" UserName: "" password:""
 - ii. Nothing should happen while the file is downloaded, then the ISDN Link will restart.
 - iii. Confirm that the ISDN Link has been updated when it restarts, login as admin and enter **xstat sys soft** and confirm you have IL1.1.
 - b. If no Internet access you can download the file to a local computer and use scp to copy the file onto the ISDN Link:
 - You need to enable root if not already enabled. Login as admin on ISDN Link and enter systemtools rootsettings on [PASSWORD] where PASSWORD is the password you want – Please set a password!
 - ii. use WinSCP or scp to copy the IL1.1 file to /appl/installsw
 - example for scp
 - a. scp s51500il1_1_0.pkg root@ip.address.of.isdnlink:/appl/installsw
 - Using WinSCP (Windows)
 - a. Connect as root using SCP to ISDN Link
 - b. Drag and drop the file from local(left) drive into the /appl folder on the ISDN Link
 - c. You will now get a dialogue box saying /appl/*.*
 change the *.* to installsw so you see this -> /appl/installsw
 - d. You will be asked to confirm to overwrite file

- e. When finishes you will get an error message. Press OK. The file has been copied OK even though file size is 0.
- iii. reboot the ISDN Link (reboot as root or xcom boot as admin)
- iv. Confirm the ISDN Link has been updated to IL1.1, by logging in as admin after it restarts and enter **xstat sys soft**
- v. You can now disable root access on ISDN Link by logging in as admin and using command **systemtools rootsettings off**
- 3. Now the ISDN Link will be on IL1.1 and endpoint on TC6.0 but still in manual pairing mode.
- 4. To enable the auto pairing mode (will give you access to the new feature allowing for easy dialing and management from TC6 endpoint) login to ISDN Link as admin and enter the command xConfiguration Gateway PairingMode: Auto
- 5. You will get a red alarm on the ISDN Link (it now has lost connection to endpoint)
- 6. Now follow the steps shown in the <u>ISDN Installation Guide for IL1.1</u> for information on how to pair the endpoint and ISDN Link and how to place calls.
- From this release onwards (once you have re-paired the ISDN Link and endpoint) you will now upgrade the software on the ISDN Link using the web interface of the paired endpoint no more need for SCP.

You can use the Bug Search Tool to find information about caveats (bugs) for this release, including a description of the problems and available workarounds. The Bug Search Tool lists both open and resolved caveats.

To access the Bug Search Tool, you need the following items:

- Internet connection
- Web browser
- Cisco.com user ID and password

To use the Bug Search Tool, follow these steps:

Step 1 To access the Bug Search Tool, go to http://www.cisco.com/cisco/psn/bssprt/bss

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Step 3 To look for information about a specific problem, enter the bug ID number in the **Search for bug ID** field, then click **Go**.

CDETS ID	Summary
CSCvo28194	Cisco Telepresence Endpoint Command Shell Injection Vulnerability identified by CVE(s): CVE-2019-1878
N.A	SSH - Add support for new preferred cipher codes
N.A	Include security updates (OPENSSL, TAR, NTP, CURL)

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CDETS ID	Summary
CSCvm75614	FIPS mode support in ISDNLINK not working

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CDETS ID	Summary
CSCvj83061	Codec/ISDNLINK SIP leg will not always be encrypted or Call failure

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CDETS ID	Summary
CSCvc94656	OpenSSL identified by CVE(s): CVE-2017-3731 CVE-2017-3730 CVE-2017-3732
CSCvd72203	NTPd security vulnerabilities identified by CVE(s): CVE-2016-9042, CVE-2017-6464, CVE-2017-6462, CVE-2017-6463, CVE-2017-6455, CVE-2017-6452, CVE-2017-6459, CVE-2017-6458, CVE-2017-6451, CVE-2017-6460, CVE-2015-8138, CVE-2016-7431
CSCvb48612	OpenSSL identified by CVE(s): CVE-2016-6304 CVE-2016-6305 CVE-2016-2183 CVE-2016-6303 CVE-2016-6302 CVE-2016-2182 CVE-2016-2180 CVE-2016-2177 CVE-2016-2178 CVE-2016-2179 CVE-2016-2181 CVE-2016-6306 CVE-2016-6307 CVE-2016-6308 CVE-2016-6309 CVE-2016-7052
CSCvf01522	OpenSSL identified by CVE(s): CVE-2017-3731 CVE-2017-3730 CVE-2017-3732
CSCvh14064	NTPd security vulnerabilities identified by CVE(s): CVE-2016-9311, CVE-2016-9310, CVE-2016-7427, CVE-2016-7428, CVE-2016-9312, CVE-2016-7431, CVE-2016-7434, CVE-2016-7429, CVE-2016-7426, CVE-2016-7433

CDETS ID	Summary
NoRef	OpenSSL identified by CVE(s): CVE-2016-7054, CVE-2016-7053, CVE-2016-7055
CSCvh14081	OpenSSL identified by CVE(s): CVE-2016-6304 CVE-2016-6305 CVE-2016-2183 CVE-2016-6303 CVE-2016-6302 CVE-2016-2182 CVE-2016-2180 CVE-2016-2177 CVE-2016-2178 CVE-2016-2179 CVE-2016-2181 CVE-2016-6306 CVE-2016-6307 CVE-2016-6308 CVE-2016-6309 CVE-2016-7052
NoRef	NTPd security vulnerabilities identified by CVE(s): CVE-2016-4957, CVE-2016-4953, CVE-2016-4954, CVE-2016-4955, CVE-2016-4956

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CDETS ID	Summary
CSCuz52446	OpenSSL issues - CVE-2016-2108 CVE-2016- 2107 CVE-2016-2105 CVE-2016-2106 CVE-2016- 2109 CVE-2016-2176
CSCuy34865	Vulnerability in as glibc and identified by CVE-2015-7547
CSCux95136	NTPd security vulnerabilities affecting all versions of NTPd 4.x
CSCva05478	Codec takes around 60 seconds to restore video after hold/resume

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ISDN Link

CDETS ID	Summary
CSCut45963	Fix for CVE-2015-0204 and CVE-2015-0286.
CSCus42828	Fix for CVE-2015-0205.
CSCus31382	OpenSSL security fix CVE-2014-3567
CSCus27280	NTPd.org Vulnerabilities
CSCuu97161	Enabling FIPS mode causes cyclic reboot

Related Fix in TC7.3.3

CDETS ID	Summary
CSCut79607	Codec in FIPS mode will not pair with ISDN Link

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CDETS ID	Summary
CSCur05025	Fix for Shellshock - CVE-2014-6271 and CVE-2014-7169
CSCuq01874	Callee change audio codec on session refresh with ISDN Link (low bandwidth calls)

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CDETS ID	Summary
	Added support for h.264 SampleAspectRatio signalling for ISDN Link

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CDETS ID	Summary
CSCup63973	No Video received from Skopia MCU/Radvision B40 GW
CSCui42670	Customer has to enable capset filter to get access to RMX conference
CSCuo23422	ISDN Link feature for BRI/PRI E1/T1 loopback for troubleshooting
CSCup64012	Not allowing to make outgoing BRI call unless one (or more) interfaces are active on L1
CSCue73049	Enabling SIP outbound cause registration failure
CSCug68580	Add capability to down speed the call
CSCup64029	Add support for G.729 audio protocol
CSCuo04038	Unmute on ISDN call can take up to 8 seconds to hear audio
CSCun68244	Presentation Issues between SX20 - ISDN Link to Polycom VSX
CSCup64059	SIP log output could be incomplete

CDETS ID	Summary
CSCup23978	Fix latest vulnerabilities in OpenSSL
CSCuo41275	BFCP Token Issue - Presentation not seen or sent in main

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CDETS ID	Summary
CSCuo26686	The Cisco TelePresence ISDN Link includes a version of openssI that is affected by the vulnerability identified by the Common Vulnerability and Exposures (CVE) ID CVE-2014-0160 aka "Heartbleed"

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CDETS ID	Summary
CSCud31836	Incoming calls with microphone muted on calling system caused a crash on ISDN Link
CSCub66283	Noise during negotiation with Polycom RMX bridge
CSCub78084	Video refresh, freeze, and black screen calling through ISDN GW
CSCuc76025	Incoming call from a mobile one way audio (inbound to ISDN Link) only – Requires IL1.1/TC6.0

Known limitations

Reference ID	Equipment	Summary
CSCun31807	ISDN Link	The ISDN Link does not support FECC (Far End Camera Control)
CSCun95177	PBX/Service Provider - BRI	BRI Lines need to be configured to Point to Multi-point lines and not Point to Point lines in the PBX or from service provider.
NA	Paired Endpoint / ISDN Link	All communication between the ISDN Link and Endpoint is done using IPv6. Do not disable IPv6 on the endpoint (Will see a warning if paired to ISDN Link)
NA	ISDN Link / Endpoint	Calls via the ISDN Link will cause a SIP call to be placed from endpoint to the ISDN Link, which is connected immediately. There will be some delay in the ISDN Link establishing the external (ISDN/Net) call. During this period the endpoint will receive no audio/video and just show a black image until connection is established to the far end. This is improved in TC6.0/IL1.1.
NA	ISDN Link	With encryption enabled the maximum number of calls possible (video or audio) is reduced from three to two

NA	ISDN Link	The dialling method is quite complex with TC5.x/IL1.0. Resolved with TC6.0/IL1.1 in auto-pair mode.
NA	ISDN Link	The ISDN Link has no web interface or management functionality. With TC6.0/IL1.1, the ISDN Link is now managed via the web interface of the paired endpoint.
	ISDN Link	When enabling FIPS mode on the endpoint please unpair the ISDN Link from the codec first. Enable FIPS on the codec which cause a factory reset. Then setup the codec as required (enable FIPS on the ISDN Link if required) then pair the two together again.

Interoperability

The systems below have been tested and verified with this software release.

Endpoint Interoperability (Pairing)

Equipment	Software revision	Protocol	Comments
C20, C40, C60, C90, SX20, SX80, MX200 (G1 and G2), MX300 (G1 and G2), EX60, and EX90	TC7.3.12	SIP	Use TC7.3.12 and above with IL1.1.7 and above
All cisco endpoint devices that supports CE9.3.0 onwards	From CE9.3.0	SIP	IL1.1.7 onwards, supported from CE9.3.0

References and related documents

The following table lists documents and web sites referenced in this document. All product documentation can be found on our <u>web site</u>.

Name	Document reference
Cisco website	http://www.cisco.com
Cisco Software Download	http://www.cisco.com/cisco/software/navigator.html?i=!ch
Cisco TelePresence User Documentation	http://www.cisco.com/go/telepresence/docs

Software filename

The correct software filename is listed in the following table.

Cisco ISDN Link	Software for ISDN Link	Release ID
AES Encryption	S51500il_1_1_11.pkg	0862ce5
AES Encryption	S51500il_1_1_10.pkg	257e8dd
AES Encryption	S51500il_1_1_9.pkg	6a01202
AES Encryption	S51500il_1_1_8.pkg	ae9f13e
AES Encryption	S51500il_1_1_7.pkg	65cc814
AES Encryption	S51500il_1_1_6.pkg	a337554
AES Encryption	S51500il_1_1_5.pkg	cf982a9
AES Encryption	S51500il_1_1_4.pkg	c6ff645
AES Encryption	S51500il_1_1_3.pkg	1673c43
AES Encryption	S51500il_1_1_2.pkg	5c0564b
AES Encryption	S51500il_1_1_1.pkg	2c65b7d
AES Encryption	S51500il_1_1_0.pkg	247d2f9
AES Encryption	S51500il_1_0_0pkg	287829

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