



ISDN Gateway Version 1.1(1.7) Release Notes

Introduction

The Codian ISDN GW version 1.1(1.7) is a feature release with new features and functionality. Version 1.1(1.7) itself is a follow on to the 1.1(1.0) release that resolves a number of issues as detailed towards the end of this document.

If you experience any difficulties or unexpected results when using version 1.1(1.7) of the ISDN GW firmware, please consult the online help documentation for information on using the device, and also for initial troubleshooting advice before contacting Codian technical support.

New Features and Functionality

Gatekeeper

The ISDN GW can now register with an H.323 gatekeeper, and use this to place and receive calls. To configure gatekeeper usage, navigate the gateway web interface to **Settings** -> **Gatekeeper**, and refer to the online help documentation for further information on the fields shown.

Voice calls

The ISDN GW now permits telephone (also called *voice* or *voice-only*) calls to be placed and received, in addition to regular video calls. This allows callers on the PSTN to join conferences on a Codian MCU, for example.

The ISDN GW employs sophisticated line echo cancellation techniques to ensure the best quality audio is heard by callers.

H.221 Aggregation

As well as supporting ISO BONDING as a means of establishing video calls at 128 kbps and above, the ISDN GW now allows outgoing (IP to ISDN) calls to be placed using H.221 Aggregation (also called *N x 64kbps*). This allows the gateway to place calls to older, legacy ISDN video endpoints that do not support ISO BONDING.

Improved dial plan

The dial plan now supports powerful digit manipulation features to direct calls more simply and effectively. To configure dial plan rules, navigate the gateway web interface to **Dial plan** -> **IP to ISDN** or **Dial plan** -> **ISDN to IP**, and refer to the online help documentation for further information.

The improved dial plan also allows calls to be directed to specific IP extensions, allowing callers to directly join specific conferences on a Codian MCU, for example. Extensions may be fixed or derived from the called number.

Improved compatibility

As well as adding new calling modes such as H.221 Aggregation (see above), version 1.1(1) of the ISDN GW includes numerous changes to improve compatibility with both IP and ISDN endpoints, making it even more seamless to use.

Specific improvements include better FECC (Far End Camera Control) performance with many, older ISDN endpoints, and the ability to control the CRC-4 option required for some E1 ISDN networks.

H.239

The ISDN GW now supports industry-standard H.239 for data collaboration. This allows compatible endpoints to send and receive a second video stream, most often used for sharing slides and other presentations. This feature interoperates fully with the Codian MCU 4200 series for a complete conferencing solution.

Online help

The ISDN GW now includes full context-sensitive online help covering all aspects of the web interface and general use of the gateway. To access the help contents page, navigate the gateway web interface and choose **Help**. For specific help or more information about a particular set of configuration or information fields, click the 'i' icon in the top right-hand corner of the appropriate page.

Upgrading Software

Using a Web browser

1. Unzip the image file.
2. Browse to the current IP address of the ISDN Gateway using an IE-compatible Web browser. Click the **Change log in** button.
3. When prompted, type in **admin** for the user name and its associated password (this is blank in a new unit).
4. Go to the **Home** > **Settings** > **Upgrade** page.

5. In the Main software image section, type in, or browse to the location of the software image file.
6. Click the **Upgrade software image** button.

A progress bar is displayed while the Web browser uploads the file to the ISDN Gateway. This takes some time – dependent on your network connection. Do not move your Web browser away from the Upgrade software page or refresh this page during the upload process; otherwise, it will abort.

After a number of minutes, the Web browser refreshes automatically and displays “Main image upload completed successfully”.

7. Click the **Close Status window** link.
8. In the changed Upgrade page, click **Shut down N-port ISDN-IP gateway**.
9. Click **Confirm N-port ISDN-IP gateway shutdown**.
10. When shutdown has completed, click **Restart N-port ISDN-IP gateway and upgrade**.
11. When prompted, confirm the restart.

The unit will reboot and upgrade itself – this also takes a number of minutes.

Note: If you have been logged out due to inactivity, log in again as admin and click **Restart N-port ISDN gateway and upgrade** on the Shutdown page.

Notes

- ▶ The progress of the upgrade can be monitored through the serial port.
- ▶ Before upgrading, make sure that the ISDN Gateway is not in use. Anyone using the ISDN Gateway at the time of the upgrade may experience poor performance and loss of connectivity.
- ▶ The time required to download and upgrade depends on the speed of your network connection. With a fast connection the total time to download, upgrade and restart the MCU is approximately 6 minutes.

Outstanding issues

ISDN GW 3280 not supported

The eight-port model of the ISDN GW 3200 series is not yet supported.

Console port link LED does not light

The console port link LED does not illuminate as stated in the Getting Started Guide, even if a PC or other equipment is connected to the console port. The functionality of the port is unaffected, and may be used as normal.

Resolved issues

Resolved after version 1.1(1) up to and including version 1.1(1.7), 30th May 2006

Bug ID	Summary
1285	Stopping H.239 transmission (from MCU to ISDN e/p via gateway) causes ISDN endpoint to disconnect
1288	Called Party not Sent if Calling Party sent
1492	DSP crash when doing voice calls
1507	Calling ISDN VSX7000 causes H.239 channel to open even when no content
1510	Periodically frozen video and no audio on call to 4-bri VSX8000
1523	Delay answering of incoming voice calls until IP side connects
1536	Calling party number should be sent to ISDN endpoint for presentation
1552	RoHS NAT firmware changes
1557	Completed calls list : participant information incorrect
1599	Can't use digit substitution for H.221 aggregation calls.