



IP VCR Series Version 2.1(1.7) Release Notes

Introduction

The Codian IP VCR 2200 Series and MSE 8220 VCR blade version 2.1(1) is a new feature release with new features and functionality. This document lists the new features supported in this release and covers the IP VCR 2200 Series and the MSE 8220 blade.

The Codian IP VCR series version 2.1(1.7) is a maintenance release that fixes a number of issues. If you experience any difficulties or unexpected results when using version 2.1(1) of the IP VCR 2200 series, or the IP VCR 8220 blade for the MSE 8000, please consult the online help documentation for information on using the device, and also the FAQs on the Codian web site before contacting Codian technical support.

New Features and Functionality in 2.1

The 2.1(1) release contains the following additional functionality:

- ▶ Internal Gatekeeper
- ▶ Auto attendant DTMF navigation
- ▶ New serial port command for resetting the admin password
- ▶ Gatekeeper neighboring
- ▶ New High Definition video capture option
- ▶ New streaming options

IP VCR Internal gatekeeper

The IP VCR 2200 Series now has a built-in gatekeeper.

Several devices can be registered with the gatekeeper: up to 25 devices can be registered without a feature key. Feature keys can be purchased to extend this number to 100 and 300. Each device can have multiple entries up to a total of 1000 entries though in practice it is more likely that the device limit will be reached first. IDs can be numbers, H.323 IDs e.g. Fredsendpoint or prefixes. The built-in gatekeeper is configured in the *Gatekeeper* page and registrations can be displayed in two views: the ID view or the Registration view.

Note: Registrations can be viewed by device or by registered ID, giving complete and easily searchable lists. The Registration view shows the summary per device (also known as the registrant) while the ID view shows individual registrations with the Index column in the format X / Y to help you identify IDs belonging to the same registrant.

To start the gatekeeper, go to **Network > Services**, open the *H.323 gatekeeper* port, and then enable the gatekeeper on the *Gatekeeper* page. (On the IP VCR, ports are not open by default for security reasons. If you enable the built-in gatekeeper without opening the port, an error message is displayed.)

Note: Enabling the built-in gatekeeper (when the IP VCR acts as a server, waiting for endpoints to register) in the *Gatekeeper* page should not be confused with the **Settings > Gatekeeper** page which is for configuring the IP VCR as a client registering to a gatekeeper. In the latest release that gatekeeper can be an external gatekeeper or the IP VCR's own built-in gatekeeper, in which case the IP VCR counts as one of the registered devices.

Auto attendant DTMF navigation

To support endpoints that have no FECC capability (for example, many SIP videophones) and to allow them to use the auto attendant menu, it is now possible to use "DTMF navigation mode" while in the auto attendant. This is activated by pressing '#' twice and results in the message "DTMF navigation enabled" appearing briefly at the base of the auto attendant screen. In this mode the 2, 8, 4, and 6 keys can be used in place of the FECC up, down, left, and right operations.

The mode can be exited via pressing '#' twice again.

This option is permanently available (even for endpoints which have FECC capability).

New serial command for resetting the admin password

A new *reset_password* command is available on the serial console across all IP VCR devices. When this command is used without any parameters, it resets the system-created administrator account back to the user name *admin* and no configured password. When the '-all' parameter is used, all user accounts are reset to have no password.

Gatekeeper neighboring

In situations where more than one gatekeeper is used, gatekeeper neighboring allows devices registered with one gatekeeper to call devices registered to another by ID.

When the built-in gatekeeper receives a request to resolve a number or ID to an IP address that is not currently registered with it, it forwards that request to its neighbor gatekeeper(s). The built-in gatekeeper will then use the information received from the neighbor(s) to reply to the original request.

You can optionally configure the built-in gatekeeper with up to two neighboring gatekeepers (in the web interface, go to **Gatekeeper**). On the same page you can also configure the behavior of the built-in gatekeeper on receipt of requests from another gatekeeper. It can:

- ▶ forward requests regarding unknown numbers and IDs to its neighbor(s)
- ▶ reply to requests from other gatekeepers

Gatekeeper neighboring has been tested with the following gatekeepers:

- ▶ Tandberg Gatekeeper 5.1
- ▶ Polycom Pathnav 7.0
- ▶ Radvision ECS 4.1
- ▶ GNU GK v2.2.5
- ▶ Codian MCU v2.1(1) embedded gatekeeper
- ▶ Emblaze Vcon MXM 4.51

New High Definition (HD) video capture

You can now make High Definition (HD) recordings using the Codian IP VCR providing the ability to capture full quality video streams from HD-capable endpoints.

HD recordings can be:

- ▶ streamed from the IP VCR to a web browser
- ▶ downloaded to a PC and converted into Windows Media Video or MPEG-1 format using the Codian converter tools

HD recordings cannot be played back to a video endpoint.

The ability to create HD recordings is controlled by the *HD video capture mode* option on the **Settings > Recordings** page. This mode is disabled by default.

The consequences of enabling *HD video capture mode* are:

- ▶ video previews are disabled
- ▶ live streaming of all recordings is disabled
- ▶ although HD recordings cannot be played back to a video endpoint, SD recordings made while HD video capture mode is enabled can be played back to a video endpoint. (All recordings made with software versions prior to 2.1 can be played back to video endpoints as before)
- ▶ if you have selected to *Store streaming media* (see the next section), all recordings made in HD video capture mode will be transcoded to streaming media. However, the transcoding will not begin until the recording is complete and might take some time. In general, transcoding HD video will take longer than transcoding SD video

Depending on how frequently you want to make HD video recordings, this feature can be used only when required. You can temporarily enable *HD video capture mode* when you want to capture HD video and then disable it for SD use.

New streaming options

There are two new streaming options **Settings > Recording** page of the IP VCR.

If you keep the default settings (including *HD video capture mode* disabled) the behavior of the unit, in regard to streaming, remains unchanged from Release 2.1.

Release 2.1 provides two new streaming features:

- ▶ *Allow live streaming*: You can enable or disable live streaming (the ability to view a recording via streaming while it is in the process of being made). The default setting is On (this is equivalent to the behavior in software version 2.1). In previous releases, you could not disable live streaming without disabling streaming on a per-folder basis. Note that live streaming is disabled when in HD video capture mode
- ▶ *Store streaming media*: You can now choose whether or not to store new recordings in streaming media format for the purposes of later playback to users' desktops. Deselecting this option means that the IP VCR doesn't use space on its disk to store the streaming media. This setting is independent of the live streaming control — it is possible to disable live streaming, but store the streaming media for later playback and vice versa. The default setting is On.

It is now possible to generate the streaming media for existing content. In the IP VCR web interface go to Recordings, select the recording you are interested in and click **Transcode to streaming format**. You can also delete the existing streaming media for a recording from this page by clicking **Delete streaming media**.

Upgrading Software

Using a web browser

1. Unzip the image file.
2. Browse to the current IP address of the IP VCR using an IE-compatible Web browser. Click **Click here to log in** and then **Change log in**.
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.

The Web browser uploads the file to the IP VCR. 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 may abort.

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

7. Click the **Shutdown button** on the main upgrade page. This option will now change to **Confirm IP VCR shutdown**. Press this to confirm.
8. Click the **Restart IP VCR and Upgrade** button. This button only appears in the Upgrade page during this process.

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 IP VCR and upgrade** at the bottom of the Upgrade software page to complete the upgrade.

Using FTP

1. Use an FTP client to connect to the IP VCR – e.g. **ftp <IP VCR IP Address>** from the command prompt.
2. When prompted type in **admin** as the user name and its associated password (this is blank in a new unit).
3. Upload the upgrade file – e.g. **put codian_VCR_2.1(1.7)** from the command prompt.

4. When the upload has completed, reboot the IP VCR to start the upgrade. This can be done using the **Reboot** button on the Upgrade page within the web interface.

Notes

- ▶ In general FTP is more reliable than using the web interface for upgrades
- ▶ The progress of the upgrade can be monitored through the serial port
- ▶ Before upgrading make sure that the IP VCR is not in use. Anyone using the IP VCR 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 IP VCR is approximately 6 minutes

Checking for Updates and Getting Help

It is a good idea to regularly check for updates of the software image on the Codian web site.

1. Refer to the Technical FAQ section of the Codian web site which is kept up to date with the latest information from our technical support team regarding the resolution of customer issues.
2. Contact your reseller. Our resellers have a wealth of experience with our products and this is often a quick way of solving a problem.
3. If your query remains unsolved, there is a web form in the Support area of the Codian web site that you can complete. Ensure that you provide all the details requested by the form to assist the technical support team in resolving your problem:
 - a. The serial number and product model number (for example: IP VCR 2200) of the unit.
 - b. The software build number. (To find this, in the web interface, go to **Status > General**).
 - c. Where you purchased the unit.
 - d. Your contact email address or telephone number.

Note that you can also send an email to our technical support team at support@codian.com

Resolved Issues

Resolved in version 2.1(1.7), 30 July 2007

Bug ID	Summary
927	Unit freezes until characters entered on serial terminal
3545	MCU cannot make calls on port A when registered to MXM Gatekeeper on port B
3581	FTP size command returns incorrect results

Versions 2.1(1.4) to 2.1(1.6) not published

Resolved in version 2.1(1.3), 11 July 2007

Bug ID	Summary
3476	DSP crash on VTA call or incoming call from Codian ISDN Gateway

Versions 2.1(1.1) and 2.1(1.2) not published

Outstanding Limitations and Bugs

Windows Media Player

- ▶ Streaming a recording or live conference with Windows Media Player in multiple windows or tabs on the same browser will crash the browser. This is a known issue with Windows Media Player. If you need to stream more than one recording/conference simultaneously, a different player such as QuickTime or Real Player should be used.
- ▶ Windows Media Player 11 (WMP11) can display streams incorrectly when used as an embedded player with browsers other than Internet Explorer. This is a known incompatibility. In some cases, setting the video size of the main streaming video window (the Video size field in the Streaming page) to Large will correct the problem. To work around this you can use QuickTime or RealPlayer instead of WMP, or use Internet Explorer instead of your normal browser.

Windows Media Player and RealPlayer

- ▶ MPEGs downloaded from the Codian IP VCR can be reported to have incorrect lengths when played back in RealPlayer and Windows Media Player. This will be addressed in a future release.

Streaming to QuickTime7 causes problems with some browsers

Streaming to an embedded QuickTime player using the QuickTime 7.0 plus later option for the Player format on the IP VCR can cause certain browsers to crash or remain in the 'negotiating' state indefinitely. Affected browsers include: IE6; Firefox 1.5 (Mac and PC); Safari 2.0.3 and earlier, and Camino. IE7 and Safari 2.0.4 do

not appear to be affected by this. Using the QuickTime 6.5 plus later option for the Player format on the IP VCR will allow streaming to QuickTime using any browser that supports a QuickTime plugin.

Interoperability problems with a VCON HD3000, HD2000 and HD600

No video is received in either direction when connecting to and from the HD3000/HD2000/HD600 running software version 2.6 using H.263+. The Codian IP VCR will report 100% frame errors. One possible workaround is to go to **Settings > Connections** and disable H.263+ on the IP VCR; however, this is a unit-wide setting and therefore may not be appropriate. This problem is being investigated by VCON.