

Software Release Note

Vocality Gateway Suite 8.2.0

Date of software release: 26th September 2024
Release Note date: 26th September 2024
Release Note version: 1.0
Release Identification: 8.2.0-d0d213d21

Purpose of Release

Modem upgrades for the EC25A/EC25AU/EC25E/EC25EU/EC25V modems. Preparation for more secure future software downloads.

The key purpose of the release is to resolve issues when running with SIP Silence Detect mode disabled.

Document History

<u>Version</u>	<u>Date</u>	<u>Details</u>
1.0	26 th September 2024	Initial Draft

Hardware Affected

This release is targeted to all versions of Cubic’s RoIP, M3X RoIP and M3-SE-MFGW.

Pre-Requisites

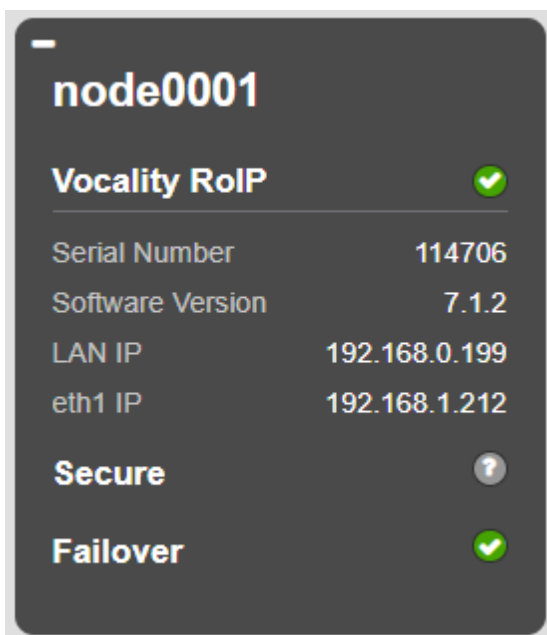
This release should only be installed on Cubic’s RoIP products currently running release 4.17.2 and later.

For earlier releases, please use the [Software Portal](#) to upgrade to 4.17.2 first.

Upgrade Instructions from Releases Prior to 7.1.2

Before starting the upgrade to 8.2.0, please check whether you are connected to the device via an IP address or the admin.vocality.com DNS name. If the latter, please follow these instructions before performing the upgrade.

The admin.vocality.com domain name was removed in release 7.1.2, so you will need to access the device via its LAN IP address after the upgrade, instead of admin.vocality.com. Therefore before upgrading, take careful note of the LAN IP Addresses for the RoIP.



It's prudent to have a backup of the RoIP configuration. This can be done in Platform->Config Files.

Once you have completed the upgrade:-

- Open a new browser tab/window.
- Enter the IP address of the RoIP to connect to the user interface.
- Accept the browser security warning.
- You should now have 8.2.0 installed on the RoIP.

AT&T Users

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Please ensure any upgrade from a release prior to 7.1.2 is performed online. If you need to do an offline upgrade, please contact a member of the Cubic support staff for assistance.

RESTful API Users

The admin.vocality.com domain name and associated certificate was removed in release 7.1.2. When using an HTTPS connection for the RESTful API, the connection will default to a self-signed certificate generated on the RoIP. Therefore a client cannot verify this certificate.

For customers wanting to validate the RoIP certificate when using the RESTful API, it is recommended to create and upload your own certificates to the RoIP for use with the HTTPS connection. This can be done on the Tunnels -> Certificate & Key Management page of the UI. The certificate can then be selected for the HTTPS connection on the Platform->Access page.

Important Notes

SIP Audio Control

The following section relates to the SIP audio control setting which is only applicable when running with the Radio – General - Silence Detect mode disabled (the default mode is enabled).

The SIP Audio control setting is now visible in the UI under the Talk Group settings; previously it was only available in the RESTful API and in Config Files. The setting was introduced in 7.0.0 and defaulted to track_bar_sip. When track_bar_sip is set, SIP audio is sent on the basis of audio from the radios or RTP stream interfaces; audio between SIP calls in the same Talk Group will not be connected. The default setting has now been changed to permanent, which ensures all audio is transmitted within the talk group. This change means that the default behaviour is consistent with that of units prior to 7.0.0.

It should be noted that the current SIP audio control setting will not change over an upgrade, so the new default of permanent will only apply to new Talk Groups.

Image Upgrades

This software release allows for the downloading and installing of .enc4 images. All software images following 8.2.0 will be in the .enc4 format, so users will need to upgrade to 8.2.0 before they can upgrade further.

Key Features and Enhancements

Enhancements

- Added SIP audio control setting to UI and changed the default to permanent (see section above for more details).
 - There is also a new SIP audio control setting called track_monit_sip_call. In this setting SIP RTP audio is sent when source Radio or RTP Stream ports have audio to be transmitted, or there are SIP calls present on more than one SIP Account in the talk group.
- Upgraded modem firmware for the EC25A/EC25AU/EC25E/EC25EU/EC25V modems.
- Improved efficiency of reading GPIO and COR signals.

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Bug Fixes

- Failover bearer availability check fixed for IPv6.
- Cleanup memory pool handling related to all audio processing.
- Ensure SIP source IP address field is not cleared in the UI when other settings on the page are toggled.

Security fixes

- Added capability to decode an .enc4 image.
- Added redundancy for image signing verification keys.

Component Version Numbers

Changes highlighted.

- vocolity_api-2.2.0
- vocolity_database-1.3.0
- vocolity_dispatch-1.6.0
- vocolity_filesystem-1.1.1
- vocolity_mcpttgateway-2.0.1
- vocolity_modemupgrade-1.2.6
- vocolity_multibearer-3.4.2
- vocolity_nodemanager-4.17.2
- vocolity_nodeui-4.19.1
- vocolity_password-1.1.1
- vocolity_picfirmware-1.1.0
- vocolity_radiogateway-4.8.4
- vocolity_registry-3.4.0
- vocolity_registryclient-3.4.0
- vocolity_release-8.2.0
- vocolity_secure-4.2.3
- vocolity_serial-3.2.1
- vocolity_utils-2.2.3

Modem Firmware Versions

- EC25A EC25AFAR05A07M4G
- EC25AU EC25AUFAR06A12M4G
- EC25E EC25EFAR06A20M4G
- EC25EU EC25EUGAR06A11M4G
- EC25V EC25VFAR02A14M4G
- EC25AF EC25AFFAR07A03M4G
- EC25AFD EC25AFFDR07A10M4G

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