

Software Release Note

Vocality Gateway Suite 7.1.2

Date of software release: 01 March 2023
Release Note date: 01 March 2023
Release Note version: 1.1
Release Identification: 7.1.2-a5a8ef909

Purpose of Release

This release supersedes version 7.1.1 – and this release note details changes since that release.

It is important that all units upgrade to 7.1.2 as soon as possible. This release includes a fix for a potential security vulnerability and further security enhancements.

Document History

<u>Version</u>	<u>Date</u>	<u>Details</u>
1.0	01 March 2022	Initial Draft
1.1	03 March 2022	Updated per comments.

Hardware Affected

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

Pre-Requisites

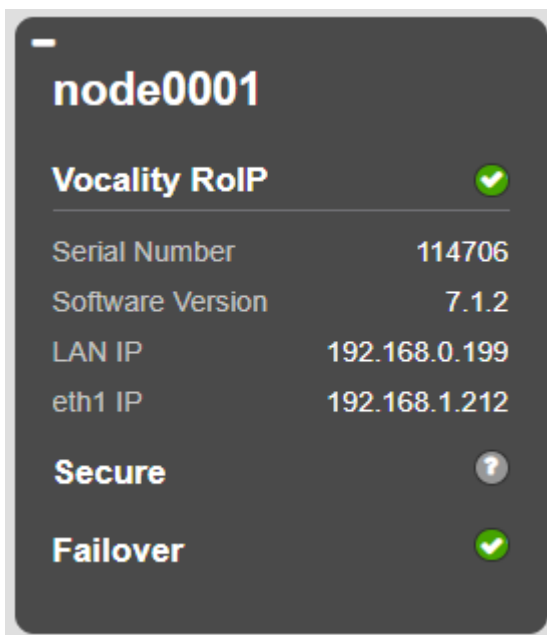
This release should only be installed on Cubic's RoIP products currently running release 4.17.2 and later.

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

Upgrade Instructions

Before starting the upgrade to 7.1.2, 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 has now been removed, 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 7.1.2 installed on the RoIP.

AT&T Users

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

7.1.2 Details

Key Features and Security Enhancements

- An SSH security vulnerability has been fixed.
- SSH accessibility for both WAN and LAN connections to the RoIP has been turned off by default.
- The root user has been permanently removed from the RoIP.
- All SSH accessible user accounts have been temporarily removed. These will be restored in the next version of software, with options for the user to enable / disable the accounts and control the passwords.
- The admin.vocality.com DNS has been permanently removed. The RoIP can now only be accessed via its IP addresses.
- The admin.vocality.com certificate has been replaced with a self-signed certificate. This certificate is unique to each device.

7.1.1 Details

Key Features and Enhancements

- Improvements to the LTE connection handling, to ensure long term stability of LTE connections.
- Improvements to the modem upgrade functionality.

Bug Fixes

- Fix intermittent issues rebooting the unit and ensure the RoIP LED light turns orange when the unit is shutting down
- Reduce the maximum number of static routes to 32
- Ensure user can edit the Wi-Fi access point password

7.1.0 Details

Key Features and Enhancements

- EC25-AF(D) firmware is upgraded from EC25AFFDR07A08M4G to EC25AFFDR07A10M4G
- Allow audio codec to be configurable on a per RTP stream basis, thus allowing transcoding between RTP streams
- Improved routing configuration
 - All static and default routes are now visible in the User Interface routing tab, so they can now be viewed and configured in a single place
 - Improved route validation and improved error messages if routes are invalid
 - Default route configuration is no longer required to go via a WAN interface
 - Static routes can now be configured to use IPIP or GRE tunnel interfaces

- Add a new SIP configuration option to automatically hang up a call when the COR signal is dropped
- Ensure user is warned if the LAN and WAN subnets are the same, as this can cause connection issues to the user interface. The LAN connection will take precedence.
 - This can occur when the WAN connection is using DHCP and is assigned the same subnet as the LAN interface. If this occurs the user should connect to the user interface via the LAN connection and change the LAN subnet so it no longer conflicts

Bug Fixes

- MCPTT HALO login issue from 7.0.0 release is now fixed
- Resolved issue connecting to AT&T test lab from 7.0.0 release
- Ensure user can configure 10 tunnels, as per secure licence limit
- Fix issues adding RTP stream via RESTful API
- Fix DNS problems after software upgrade
- Resolve logging errors seen after deleting RTP stream
- Don't show downgrade option on User Interface when software is up to date. Downgrade is only permitted via an offline file
- Fix UI Wi-Fi connection handling. Occasionally the network the user was trying to connect to, would switch without their input, thus failing the connection
- Ensure static routes relating to a DHCP client interface are reapplied after the connection is updated / re-established
- Fix issues with MCPTT authentication if the MCPTT talk group is not the first one configured
- Fix errors setting and reading GPIOs
- Increase width of Dial Number field in the SIP Account Configuration on the Web User Interface

Security Updates

- CVE patches
- Updated admin.vocality.com certificate

Minor Improvements

- Allow configuration of FQDN hostnames (excludes Web User Interface)
- Update Licence page of User Interface to show actual number of usable ports

7.0.0 Details

Key Features and Enhancements

- Shortened software version number now shows in the status panel. Full version number is still on the platform status page.

- Updated icons for the various bearer status's to make them easier to read.
- There is no longer a requirement to have at least one LAN and one WAN interface. All bearers can be assigned to a single interface, if the user so decides.

Bug Fixes

- Updated dial number input field width
- Add warning when keep alive key is not 80 characters

RESTful API changes

- Ability to perform software upgrades via API.
- Ability to create/update/delete users via API.
- Make the Linear Codec "Codec_MCPTT", "L16/16000/1" available for RTP Streams. This is 16 bits/16k. Note that this is only being enabled for RTP Streams - will not be available for SIP Calls.
- Keepalive-internal and keepalive-count fields added for Serial connections.
- Add ability to configure the audio codec for an RTP stream, on a per-stream basis.

Security Updates

- An OS upgrade which includes a large number of Open Source Library updates, to fix a large number of CVE issues.
- Add user interface timeout to diagnostics console.
- Upgrade Node.JS.

Component Version Numbers

Changes highlighted.

- **vocality_api-2.1.0**
- **vocality_database-1.3.0**
- **vocality_dispatch-1.5.0**
- **vocality_filesystem-1.1.0**
- **vocality_mcpttgateway-1.3.0**
- **vocality_modemupgrade-1.2.4**
- **vocality_multibearer-3.4.1**
- **vocality_nodemanager-4.16.4**
- **vocality_nodeui-4.18.2**
- **vocality_password-1.1.0**
- **vocality_picfirmware-1.1.0**
- **vocality_radiogateway-4.7.0**
- **vocality_registry-3.3.0**

- [vocality_registryclient-3.3.0](#)
- [vocality_release-7.1.2](#)
- [vocality_secure-4.2.2](#)
- [vocality_serial-3.2.0](#)
- [vocality_utils-2.2.1](#)

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