Software Release Note
Vocality Gateway Suite 8.1.0

Date of software release: 19 March 2024
Release Note date: 19 March 2024
Release Note version: 1.0
Release Identification: 8.1.0-a66e334b6

Purpose of Release

Contains minor updates from the 8.0.1 release.

The key purpose of the release is to incorporate MCPTT improvements for running on the AT&T network. The release also incorporates fixes to intermittent cellular connectivity issues (with improved logging), minor bugfixes and latest security vulnerability patches.

Document History

Version	Date	Details
1.0	19th March 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 8.1.0, 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.
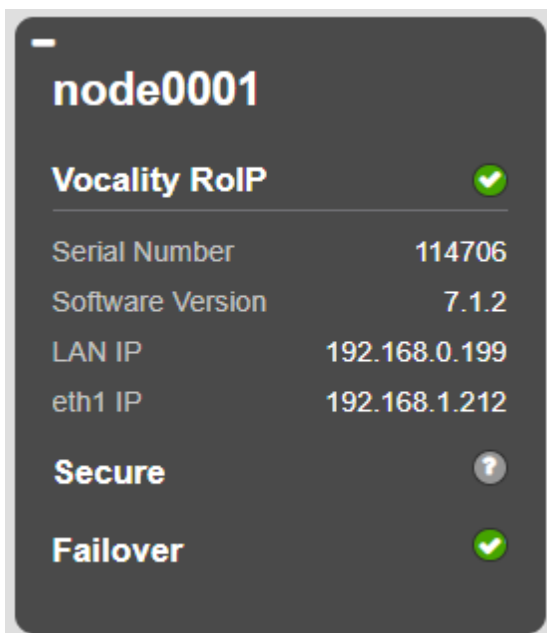
It's prudent to have a backup of the RoIP configuration. This can be done in Platform->Config Files.

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 8.1.0 installed on the RoIP.

AT&T Users

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.

Cellular Users, upgrading from pre-8.0.0 builds.

This release incorporates a modem reset on soft shutdown. The reset is to clear erroneous modem state which could be causing issues; it will not impact any cellular settings / configuration.

When applying the upgrade, the unit will automatically trigger an additional reboot to reset the modem. This will extend the upgrade time by ~60 seconds. The procedure is completely automatic.

This additional automatic reboot only applies when upgrading to this release, not to any future upgrades.

Key Features and Enhancements

Enhancements

- MCPTT enhancements for the AT&T network
  - SRTCP is now enabled.
  - MBCP format updated for compatibility with Samsung Rel 4.5.
- Added new Talk Group OPUS codec 'minimum' option to run at 6 kb/s bandwidth.
- Modem stability improvements
  - Fixes to intermittent modem issues resulting in a failure to acquire an IPv4 address, thus running IPv6 only.
  - Improved detection and recovery mechanism if the modem firmware is not responding.
  - New log file created for cellular logging to improve future debuggability of issues.

Bug Fixes

- Ensure correct SIP publish message during MCPTT de-registration to avoid error generated from an incorrect publish.
- Key improvements to uploading a configuration file to ensure configuration is applied cleanly (instead of over existing settings) and all functionality is fully restarted to apply all updates.
- Fixed SIP accounts not working after upgrade when there are more than 10 SIP accounts.

- The Restful API WAN access has been separated from the security settings, so the user can have The Restful API WAN access without security, even though it is not recommended.
- Ensured that the Failover tab correctly reports the bearer link check status in all scenarios.

Security fixes

- A number of open-source CVE patches have been applied.
- Removed support for TLS 1.0 and 1.1, as these are old and insecure.
- Added TLS 1.3 support to certain connections. Currently this excludes TLS on a Talk Group which will follow in a subsequent release.

Component Version Numbers

Changes highlighted.

- vocality_api-2.2.0
- vocality_database-1.3.0
- vocality_dispatch-1.6.0
- vocality_filesystem-1.1.1
- vocality_mcpttgateway-2.0.2
- vocality_modemupgrade-1.2.5
- vocality_multibearer-3.4.2
- vocality_nodemanager-4.17.1
- vocality_nodeui-4.19.0
- vocality_password-1.1.1
- vocality_picfirmware-1.1.0
- vocality_radiogateway-4.8.2
- vocality_registry-3.4.0
- vocality_registryclient-3.4.0
- vocality_release-8.1.0
- vocality_secure-4.2.3
- vocality_serial-3.2.1
- vocality_utils-2.2.3