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Introduction

This document describes the enhancements and fixes provided by Polycom V²IU software version 6.1.6. It includes all modifications made since version 6.1.2.

Installation Recommendation:

Platform	Upgrade Recommendation	Comment
All	Recommended	This release provides a number of H.323 features and enhancements. Please refer to the information below for details.

Supported Platforms

VOS version 6.1.6 is released for the following V²IU products:

- 4300T
- 5300-E10
- 5300-E25
- 5300-S10
- 5300-S25
- 6400-S85

New Features

- Added per-call maximum bandwidth limit for H.323. User can now configure the per-call maximum bandwidth that an endpoint is allowed to use. If the endpoint requests more bandwidth, the call is rejected.
- Provide H.323 support for a LAN-side gatekeeper that uses direct-routed signaling method (vs gatekeeper-routed signaling). Provides support for Cisco MCM gatekeeper.
- Provide Polycom-specific Survivability features. These features apply to Polycom phones

that use a softswitch's Shared Call Appearance feature combined with Polycom's "type=shared" line configuration. The features are specific to such Polycom phones when an V²IU is operating in Local survivability mode.

- o Indicate Polycom is operating in Local mode by changing phone icon to hollow
 - o Provide support for Shared Call Appearances when in Local mode.
 - o See the Edgewater Knowledgebase for specifics of configuring these functions.
- Add FTP Server support. Provides the ability to deliver phone-configuration files to phones via FTP.

Fixes and Enhancements

- Provide H.323 support for inbound Location Requests (LRQs) on the V²IU -E's WAN when the V²IU-E is operating in Embedded Gatekeeper mode.
 - o This feature is intended to provide support for interoperability with the Vcon Gatekeeper.
 - o Note that this feature does not provide support for outbound calls from LAN-side clients. Full neighboring support for the V²IU-E's embedded gatekeeper is not yet provided.
- Add support for use of a SIP port number provided in DNS SRV record lookup.
- H.323 bandwidth fixes:
 - o Save and display entered maximum total bandwidth. Previously displayed a calculated value which showed rounding error.
 - o Correctly show total bandwidth, even a maximum isn't enforced.
 - o Apply the system-wide maximum bandwidth cap, if specified.
- Fix bug where Set Link page always displayed a link rate of Autonegotiate, even if previously configured differently.
- Fix memory leak in H.460 support
- Correction to a prior fix addressing ALG crash when softswitch references RTP connections no longer known to the ALG
- Fixed a problem caused by survivability logging filling up the /var filesystem. The full filesystem prevented phones from registering even if the V²IU-E was operating in Remote mode. Unnecessary logging has been disabled to prevent filling up the filesystem.
- Fixed AUPEP flooding problem with MGCP survival ping client.
- Fix bug where PPPoFR link, when configured from factory default state, would not come up. Start up T1 for PPPoFR even when WAN_IP never set.
- Fix bug in V²IU-S systems firewall preventing VRRP from operating.

Known Issues

- Minimum Cisco SIP software versions:
 1. 7960/7940: Version 6.0/7.3 (or later)
 2. 7905/7912: Version 1.3 (or later)
 3. ATA-186: Version 3.2.1 (or later)
- Earlier versions of Cisco code have known bugs/limitations that are incompatible with VOS

v5.4.1 and later.

NOTES:

1. As of VOS 5.4.1 and above, it is mandatory to upgrade the firmware on Cisco 7912 / 7905 / ATA-186 to the recommended versions. Otherwise, calls will not complete correctly.
 2. Cisco 7960 / 7940 running the v6.0 firmware is still compatible with VOS 5.4.1 and above, if you are not using the Flexible SIP Routing's Transparent mode functionality. If you are using Transparent mode, it is mandatory to upgrade to the 7.3 firmware on these phones.
- VLAN Configuration (4300 Series)
 1. Upon enabling VLANs, only LAN Port 4 will be added to the default VLAN. If your browser PC is connected to a different port you will lose access to the GUI (until moving to Port 4).
 2. Upon enabling VLANs, The default VLAN's IP address will become 192.168.1.1 (regardless of the LAN IP address prior to enabling VLANs). If your LAN and browser had been reconfigured to a different subnet you will lose access to the GUI (until changing to 192.168.1.x).
 3. The VoIP ALG page must be reconfigured to associate the ALG with an appropriate VLAN. Prior to this the ALG will keep restarting.
 4. The DHCP Server page must be configured, it does not default to the values used prior to VLANs
 5. Upon deleting a VLAN the DHCP Server must be re-enabled for the remaining VLANs.
 - LAN link up/down SNMP traps for 4200 and 4300 are supported for LAN port 1 only.
 - Dial-plan download limitation with multiple levels of cascaded EPs and EMs. Dial-plan download is a Survivability feature where, using Broadsoft switches, the V²IU will automatically download the subscriber dial-plan when a phone registers with the softswitch. This dial-plan is then used during Local survivability mode. This download feature will only work for the "WAN-most" EM in a cascade of EPs and EMs.
 - It is not possible to manually set an MTU size on the 4200 and 4300 platforms.
 - Windows Messenger support is not available.
 - The web server will log a successful client request/response only when the source IP address changes from the prior request. This means two requests from the same PC, even if separated significantly in time, will only have the first request logged. Similarly, requests from alternating PCs can result in extraneous syslog messages.

Upgrade Instructions

This version of software is available on the Polycom Support FTP site: <ftp.support.polycom.com>

It is recommended you reboot the V²IU appliance prior to doing the upgrade. This is to make sure there is enough dynamic memory available to handle the upgrade process.

When you update your software telephone services will be unavailable for several minutes. It is therefore advised that upgrades be performed during a maintenance window when telephone traffic can be interrupted.

Upgrade procedure

- 1) Use a web browser to connect to the V²IU appliance
- 2) Go to Upgrade firmware use page defaults
- 3) Press "Submit"
- 4) Follow the progress of the upgrade using the "refresh the upgrade status" link.
- 5) When the Write process begins, please heed the warning:
WARNING!!! Do not change the configuration or power off the device until the write is 100 percent complete. The device may become unusable if the write is interrupted.
- 6) The system will automatically restart after the new image has been loaded. After the upgrade process has completed, check that the new version number is displayed on the main System page.

Obtaining Further Assistance

Please contact Polycom Technical Services for assistance.