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Introduction

This document describes the enhancements and fixes provided by Polycom V²IU software version 7.2.2. It includes all modifications made since version 6.5.3.

Installation Recommendation:

Platform	Upgrade Recommendation	Comment
All	Recommended	Please refer to the information below for details.

Supported Platforms

VOS version 7.2.2 is released for the following V²IU products:

- 4300T
- 4350
- 5300-E10
- 5300-E25
- 5300-S10
- 5300-S25
- 6400-S85
- 6400LF-ST
- 5300LF-ST

New Features

- Added support for V2IU 4350 system. The 4350 system is RoHS certified.
- Supports H.323 alias manipulation for call setup. This enables the user to dial IP addresses in an easy manner. For example, instead of dialing [1234@Polycom.com](tel:1234@Polycom.com) it is possible to dial 1234#polycom.com and the V2IU will substitute an "@" for the "#" in the call request.
- Added GK neighboring for embedded GK mode of operation.
- Added a configurable option to prevent unregistered endpoints from making calls.

- Dial by IP address. The V2IU now searches the clients list for a client with a matching Q.931 call signaling address and if found, will connect the call to that client. This enables endpoints on the same LAN segment of the V2IU to reach each other by dialing IP addresses. Previously only dialing by E.164 was supported in this configuration.
- Added a configurable option to strip the prefix from the dialed string. This allows shortest-path RTP between devices registered to different V2IUs, but have direct connectivity to each other.
- Changed the clients list to display the first E.164 alias and the first H.323 alias in one column to make it easier for administrator to find the endpoint when searching for a specific E.164.
- Added feature to limit the number of source aliases in LRQ to 2. This was needed for interoperability with Tandberg GK.
- Prefixes now can be used to make a LAN side call in addition to the WAN side calls. This allows shortest-path RTP between devices registered to different V2IUs, but still have direct connectivity to each other.

Fixes and Enhancements

- The H.323 and SIP sub-menu pages now no longer shows up when the protocol in question is not licensed on the system.
- Bug 753: In Embedded Gatekeeper mode, a syslog message is now generated for an incoming call that exceeds the maximum per call bandwidth.
- Bug 754: In Embedded Gatekeeper mode, a syslog message is now generated for an incoming call that exceeds the maximum total bandwidth.
- Improved T1 interface stability, configurability and performance.
- Bug 757: "Maximum aliases exceeded" is now reported by syslog as well as the H.323 activity page.
- Bug 758: Added missing help text for H.460.18
- Bug 760: Fixed the problem of Gatekeeper status sometimes being shown as unreachable.
- Bug 864: Allocated bandwidth for a call to E164@<V2IU's LAN side IP> is now released after the termination of the call.
- Bug 917: H.323 bandwidth counter now reports correctly.
- Bug 1034: Removed embedded GK and LAN/Sub GK modes from EP/S-box.
- Bug 1084: We now check Called Party Number in addition to the destination address when deciding whether to insert a default alias in the Q.931 setup. This was done for PVX 8.0 interoperability.
- Bug 1261: Allow dial by IP to non-registered LAN side endpoint in embedded gatekeeper mode.
- Bug 1262: Made alias lookup type and case-insensitive. Allows interoperability with Tandberg Gatekeeper doing AnnexO dialing.
- Bug 1263: H.460 hairpinned endpoints do not count bandwidth correctly.
- Bug 1285: Fixed H.460.18/19 for PathNav.
- Bug: Count bandwidth used by unregistered endpoints.
- Bug: Fixed fast-start support.
- Improved synchronization between Network page and VLAN page. First VLAN is kept in sync with non-VLAN Network page. Prevents loss of connectivity if VLANs are enabled before configuring VLAN page.
- Improved DHCP GUI page and fixed VLAN / non-VLAN modes inconsistency
 - o DHCP page now automatically displays the subnet address and allows entry of the host range only
 - o DHCP page uses same syntax for both VLAN and non-VLAN modes.
- Enhanced V2IU-E's FTP Server for delivering configuration files to phones via FTP:

- o Allow the creation of user-specified FTP user names and passwords. These names work for FTP only (not shell access).
 - o Allow read/write access for upload of phone logs.
 - o Provide auto-delete of log files using user-specified filename wildcards. Prevents log files from filling up FTP ramdisk.
- Provided ability to display DHCP leases.
- Enable NTP by default and point towards time.nist.gov.
- Sony H.323 endpoints now supported in Embedded Gatekeeper mode. Sony endpoints sends keep alive RRQ with the E.164 field empty, V2IU-E will now remember E.164 value sent in original RRQ.
- Added GUI warning that SNAT mapping will only take affect if firewall is enabled.
- Added support for uudecode.
- Added graphical link status to VLAN page.
- Provided usability improvements to Add VLAN portion of VLAN GUI page
- Fix bug where FTP usernames were allowed as RADIUS usernames, they should not be allowed.
- Fix bug preventing VIP support with V2IU-S.
- Fix bug causing black spots on GUI when logged in as rouser.
- Fix problem where ALG would sometimes not use the proper LAN IP address when switching between VLAN enabled and disabled modes.
- Fix problem where H.323 "Gatekeeper unreachable" syslog messages were incorrectly generated when not in WAN Gatekeeper mode.
- Bug 842: Limit GUI passwords to 8 characters, since this is the underlying system limit.
- Bug 829: Limit 2nd DLCI support to PPPoFR, which is the only configuration where it is supported.
- Bug 801: Fix problem where a change in DNS entries on Network page were not propagated to the VLAN-based DHCP server. The DHCP server will now properly offer the new DNS IP addresses.
- Bug 889: Fix problem where RADIUS support failed after a period of time. Problem was related to port ranges used by SSH client that increments over time; was entering a range not supported by firewall rules. Provided necessary rules to ensure firewall handles such behavior.
- Bug 464: Fix problem where V2IU-E might not boot for 1 hour. Was due to a problem with the RTC (real-time clock) driver. This fix fully addresses this issue.
- Bug 673: Enhanced ALG to allow coexistence with VPN-based default routes. A VPN default route can now be specified; data will use this default route while the ALG will use the standard (non-VPN) default route.
- Bug 707: Changed V2IU-E Trap OID to be the proper registered value.
- Bug 813: Fix bug where Fractional T1 link could not be set back to full T1.
- Fix bug where LAN-side GW with multiple DIDs was causing constant update of Clients List. Stop this updating from occurring.
- Fix a problem where systems with WAN DHCP enabled would not get a WAN IP address when they were upgraded to 6.1.0.
- Improved GUI layout of VLAN page. Changed position of the default untagged vlan field to remove confusion about what to enter for vlan id.
- Added text in GUI to state that CAC limits should not be used when H.323 is licensed.
- Hide Subinterfaces page on V2IU-S since it is not supported through the GUI.
- 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.
- 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
- 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 (4300T and 4350)
 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 4350 are supported for LAN port 1 only.
 - It is not possible to manually set an MTU size on the 4300T and 4350 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.