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SUBJECT: TECHNICAL RELEASE NOTE FOR OmniTouch 4135 IP 1.5.5 VERSION

CONTENTS

1. INTRODUCTION

The OmniTouch 4135 IP is a conference phone for IP telephony.

It can operate as SIP device or SIP extension with the OmniPCX Enterprise.

This document describes the version 1.5.x available for the OmniTouch 4135 IP conference phone.

The version 1.5.x is a maintenance release for the 1.2.x and 1.4.x versions.

This version supports advanced features, among them:

- LDAP directory access with Alcatel-Lucent 4760
- SIP redundancy with Alcatel-Lucent OmniPCX Enterprise Communication Server
- Automatic provisioning through HTTP
- QoS support: 802.1p VLAN tagging and DSCP
- 802.1x MD5 authentication

The version 1.5.x is compatible with "old" and "new" OmniTouch 4135 IP hardware (new keyboard):

– "old" OT 4135 IP ref. 3GV28132AAAB
– "new" OT 4135 IP ref. 3GV28132AAAC

2. ASSOCIATED DOCUMENTATION

For information on the OmniTouch 4135 IP conference phone, its installation and configuration, refer to the following additional documentation available in the Technical Knowledge Base on the Alcatel-Lucent Enterprise Business Portal:

- Alcatel-Lucent OmniTouch 4135 IP Conference phone Datasheet
- 110131-61-001: OmniTouch 4135 IP Installation Guide
- 110132-61-001: Installation and Administration of OmniTouch 4135 IP
- 110126-61-001: The OmniTouch 4135 IP User Guide
- 110121-61-001: OmniTouch 4135 IP Quick Reference Guide
- Alcatel-Lucent OmniPCX Enterprise Communication Server OmniTouch 4135 IP

The last document gives details on the conference phone declaration on the OmniPCX Enterprise as well as on the management of a provisioning server for the OmniTouch 4135 IP.

3. RELEASED COUNTRIES

Refer to the country lists documentation "*MLE 2010 Offer – Regulatory status*" for OmniPCX Enterprise environment available on the Alcatel-Lucent Enterprise Business Portal.

4. COMPATIBILITIES

The version 1.5.x of OmniTouch 4135 IP is compatible with the following equipments:

- Alcatel-Lucent OmniPCX Enterprise Communication Server, Release 9.1
- Alcatel-Lucent OmniPCX Enterprise Communication Server, Release 10.0
- Alcatel-Lucent 4760 LDAP Server, version 5.0.07.05

and for SIP survivability with:

- Cisco SRST 2801, version C2801-ipvoicek9-mz.124-11.XW.bin
- Cisco SRST 2821, version C2800nm-ipvoicek9-mz.124-11.XW.bin
- Audiocodes MP118 range, version 5.60A.031.001
- Teldat ATLAS 150, version 10.6.47

5. KNOWN ISSUES AND LIMITATIONS

The version 1.5.5 for the OmniTouch 4135 IP conference phone is available for download on the Alcatel-Lucent Enterprise Business Portal.

This version is a maintenance release for the 1.2.x and 1.4.x versions.

5.1 Known restrictions in version 1.5.5

Some settings are lost when upgrading OmniTouch 4135 IP from version 1.2.x to 1.4.x version. Therefore the administrator should save the settings before upgrading the conference phone. He must then reconfigure it after the upgrade.

New parameters were introduced in version 1.5.x. Therefore exporting a configuration file 1.4.x and importing it into version 1.5.x is not supported. Nevertheless an upgrade from 1.4.x to 1.5.x version can be done without having to reconfigure the OmniTouch 4135 IP.

Downgrading the OmniTouch 4135 IP is not supported. For downgrading the device, the default firmware of the conference phone must be restored. See "restore firmware" procedure in the documentation "Installation and Administration of OmniTouch 4135 IP"

- OXE DHCP server can't be used when DHCP options are required. An external DHCP server must be used.
- 802.1x authentication using TLS is not supported.
- Maximal 2 G.729 communications with 20ms framing can be established through the OT4135IP. In case a first communication is established in G.711, then only one other communication can be done in G.729.
- The framing is 10ms when putting on hold a conversation in G.729 even if the communication was established with 20ms framing.
- SIP-TLS and SRTP are not supported (OXE limitation).
- Call transfer is not supported.
- In SEPLOS mode, maximal 3 ways-conferences can be hold.
- In SEPLOS mode, the conference group feature is not supported.
- Only one SIP account can be configured on the OT4135 IP.
- When using a Teldat server for SIP survivability, the SIP "user" parameter must contain the complete SIP URI (e.g. user@local IP or domain).
- When the OT 4135 IP is used for connecting to an ACS/My Teamwork server, the OT 4135 IP may be disconnected from a conference when the SIP session timer expires (OXE issue).
- Provisioning through HTTPS is not supported.

5.2 Delivered corrections for this version

- It is recommended to disable G.729 codec as there are some issues with the framing and maximal one G.729 channel is supported.
- For automatically upgrading the configuration through the provisioning feature, all configuration parameters must be present and in the same order in both local and global configuration files.
- An additional RTP flow is passed through the network when using the on hold function.
- When the OT 4135 IP is used for connecting to an ACS/My Teamwork server, the user may not be able to connect to the conference through its computer web interface in case of complex network topology (e.g. different nodes with hybrid connection). The user needs to dial in manually on the OT 4135 IP (fixed with OXE J1.410.28).
- The entries time may be wrong in the System logs.

6. INSTALLATION AND CONFIGURATION

OT 4135 IP firmware is available for download on the Alcatel-Lucent Enterprise Business Portal: https://businessportal.alcatel-lucent.com under the link Customer Support > Technical Support > Software download (select: Phones > OmniTouch 4135 IP Conference Phone).

The OT 4135 IP firmware 1.5.x replaces the 1.2.x and 1.4.X versions as a maintenance release.

The version 1.5.x is compatible with "old" and "new" OT 4135 IP hardware (new keyboard).

For installation and configuration, refer to the documentation available on Alcatel-Lucent Enterprise Business Portal (see §2 Associated documentation).

6.1 OT 4135 IP installation and configuration

By default, the OT4135 IP is configured to use DHCP configuration without VLAN. If you need to configure a static network address, you have to follow the process described in the document "Installation and Administration of OmniTouch 4135 IP" (section "Obtaining a network address"). After this action, the equipment will automatically restart.

After this action, you can use the integrated web interface to perform remaining configurations. This site is available using HTTP protocol at the equipment IP address. The login is "Admin" (default password: 1234).

If a VLAN is needed to access the network, you must enter it in the "Settings> Network" by setting under Quality of Service the VLAN parameter to "On" and entering the "VLAN ID". Then, you have to complete SIP Account information in the "Settings > SIP" part.

6.2 OmniTouch 4135 IP binary upgrade

The binary of OmniTouch 4135 IP can be upgraded from a computer through the web interface. Therefore go to the menu Management > Firmware upgrade.

Some settings are lost when upgrading OmniTouch 4135 IP from version 1.2.x to 1.4.x version. Therefore the administrator should save the settings before upgrading the conference phone. He must then reconfigure it after the upgrade.

6.3 OT 4135 IP configuration and upgrade through provisioning

The OT 4135 IP can also be configured and upgraded using a provisioning server. Therefore go to the menu Management > Provisioning.

Note
OXE DHCP server can't be used when DHCP options are required. An external DHCP server must be used.

By default, the provisioning is enabled on the OT 4135 IP and uses the DHCP option 43 to retrieve the provisioning server IP address.

If DHCP is not used, the IP address of the provisioning server can be entered manually through the web interface of the conference module.

Refer to the documents "Installation and Administration of OmniTouch 4135 IP" and "Alcatel-Lucent OmniPCX Enterprise Communication Server OmniTouch 4135 IP" for details on the configuration of the OT 4135 IP and management of the provisioning server.

Note
Enabling the provisioning feature activate both automatic configuration upgrade and binary upgrade. Therefore the global and local configuration files as well as the metadata file and firmware binary must all present on the HTTP server.

6.4 Set configuration on the OmniPCX Enterprise

The OT 4135 IP can operate as SIP device or SIP extension with the OmniPCX Enterprise. Refer to the document "Installation and Administration of OmniTouch 4135 IP" for details on the configuration.

7. TROUBLESHOOTING

7.1 Status display

You can view the configuration of the OmniTouch 4135 IP directly on the screen or using the web interface. To read the settings from the OmniTouch 4135 IP you must select MENU> STATUS and then one of the following sub-menus: DEVICE, NETWORK, TIME & REGION, SIP, MEDIA or LOG. Detail of displayed parameters can be found in the document "Installation and Administration of OmniTouch 4135 IP".

7.2 System restart

It is possible to restart the application from the web interface with the button "Restart" from the menu "Settings> System". This action is also available from the equipment by pressing the MENU button, then "SYSTEM > RESTART".

Restarting takes about 30 seconds.

7.3 System reboot

It is possible to restart the equipment from the web interface with the button "Reboot" in the menu "Settings> System". This action is also available from the equipment by pressing the MENU button, then "SYSTEM > REBOOT".

Restarting takes about 2 minutes.

7.4 Configuration reset

It is possible to restore the factory settings of the equipment from the web interface with the reset button in the menu "Settings > System". This action is also available from the equipment by pressing the MENU button, then "SYSTEM > FACTORY RESET".

This action erases all settings, including contacts as well as network and SIP configurations made during installation.

7.5 Restore firmware

It is possible to restore the "original firmware" of the OT 4135 IP (firmware supplied with the conference phone). Therefore, first disconnect the power supply cable. Press and hold the MENU button while you connect the cable again. Hold the button until the SYSTEM RECOVERY menu is shown on the display. Press 3 to select RESTORE FIRMWARE.

This action erases all settings.

7.6 Log display

Using the web interface, you can view different logs of events: Application log, SIP Trace, System log, Provisioning log and Upgrade log. This is available in the menu "Status> Log", then select the type of logs you want to view. The display is not updated dynamically, it must use the "Refresh" button to view new events.

The Application Log can be used for troubleshooting LDAP issues. It may be helpful to change the log level of the Application Log (for example to "Trace" level for viewing all messages).

You can view SIP exchange involving this conference phone from the menu Status > Log then select SIP Trace.