Release Note	Alcatel-Lucent OmniTouch™ 4135 IP

TC1252 ed.014 **Release R1.5.x**

RELEASE NOTE FOR OMNITOUCH 4135 IP VERSION 1.5.28

Release note for OmniTouch 4135 IP

Revision History

Edition 9: November 12, 2012	update for 1.5.16 version
Edition 10: May 21, 2013	upgrade for 1.5.19 version
Edition 11 : February 11, 2014	upgrade for 1.5.21 version
Edition 12 : June 27, 2014	upgrade for 1.5.23 version
Edition 13 : November 21, 2014	upgrade for 1.5.26 version
Edition 14 : March 27,2015	upgrade for 1.5.28 version

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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. It can operate as an IP terminal with the OmniPCX Office.

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
- DHCP incl. DHCP options from OmniPCX Enterprise Server

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 [1]
- TC0931 DHCP server configuration for Alcatel-Lucent terminals (IPTouch, Mobile IPTouch, MyIC Phone, OmniTouch 4135) [2]
- TC1548 Alcatel-Lucent OmniPCX Office OmniTouch 4135 IP Conference Phone [3]

The documents [1] resp. [2] give details on the conference phone declaration on the OmniPCX Enterprise and on the management of a provisioning server, resp. use of OmniPCX Enterprise DHCP server for the OmniTouch 4135 IP.

The document [3] gives details on the commissioning of an OmniTouch 4135 IP with an OmniPCX Office.

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 and 10.1
- Alcatel-Lucent OmniPCX Enterprise Communication Server, Release 11.0.1 and 11.1
- Alcatel-Lucent 4760 LDAP Server, version 5.0.07.05
- Alcatel-Lucent OmniPCX Office Communication Server, Release 8.1 and 8.2
- Alcatel-Lucent OmniPCX Office Communication Server Release 9.1
- Alcatel-Lucent OmniPCX Office Communication Server Release 10.0

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 KNOW ISSUES AND LIMITATIONS

The version 1.5.26 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 1.5.28

Warning

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.

Warning

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.

Warning

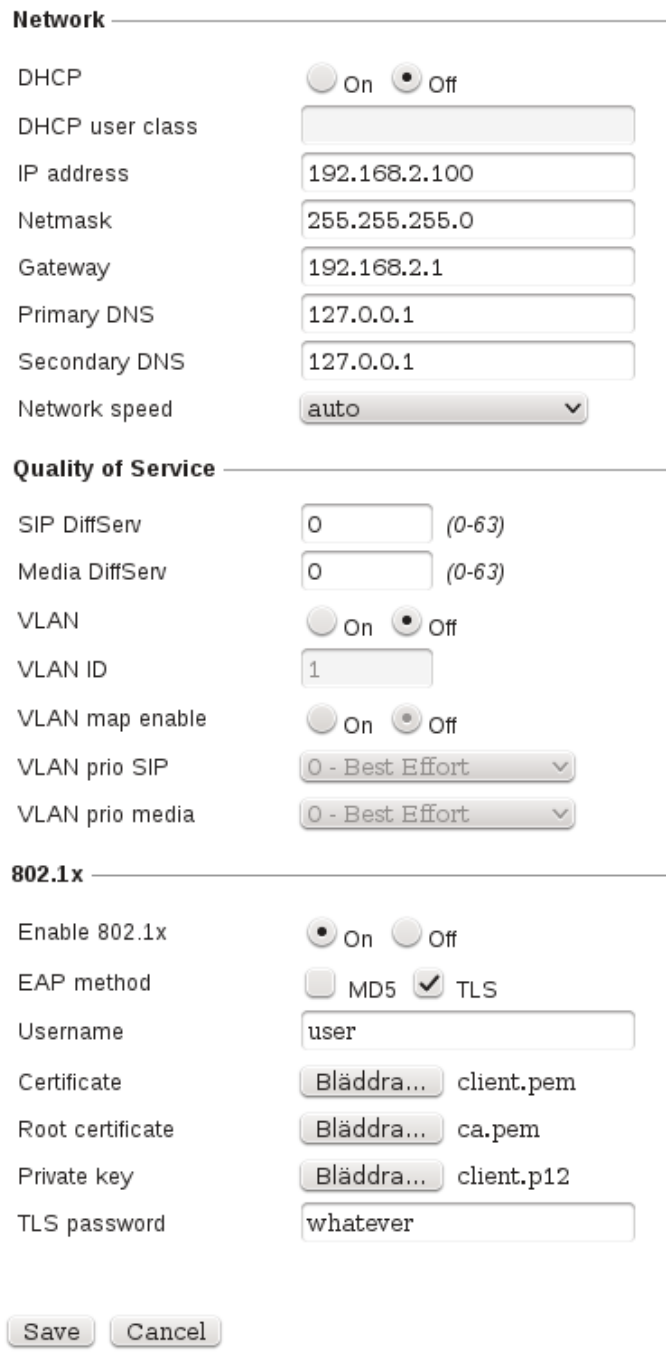
Downgrading the OmniTouch 4135 IP is not supported. For downgrading the device, the default firmware of the conference phone must be restored. See "restore firmware" procedure in the documentation "Installation and Administration of OmniTouch 4135 IP"

- 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.
- AVA (DHCP VLAN negotiation) is not supported

5.2 Delivered features in 1.5.26 version

5.2.1 Support of 802.1x EAP-TLS

Since version 1.5.26, 802.1x authentification is supported on 4135, with EAP-TLS. Here is a example of 4135 configuration web page for 802.1x parameters :



5.3 Delivered corrections for 1.5.x version

5.3.1 Delivered corrections for 1.5.28

Identifier	Siebel	Description
	1-170217041	Issue with area code for LDAP in Switzerland.
#61	1-167972463	DNS 2 is not taken in account in DHCP mode

5.3.2 Delivered corrections for 1.5.26

Identifier	Siebel	Description
#55	1-156964033	OT4135 screen text not saved in XML file
#59	1-163219561	Close HTTP port when HTTPS is enabled

5.3.3 Delivered corrections for 1.5.25

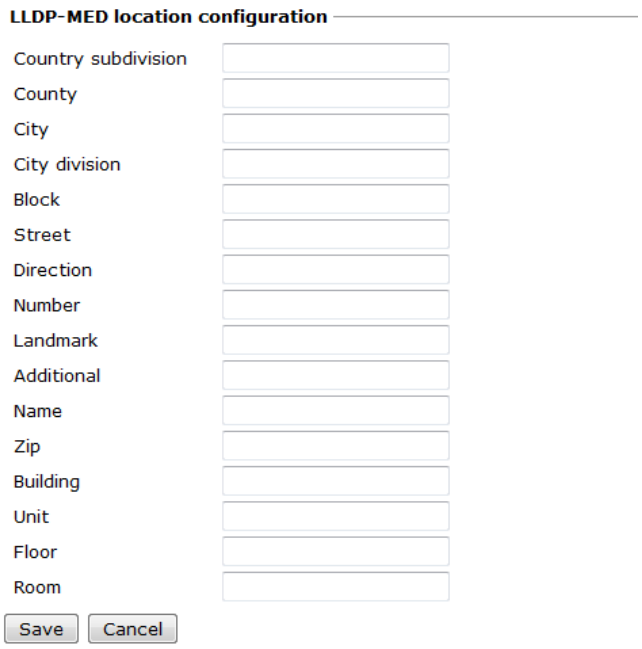
Identifier	Siebel	Description
#58	1-163220526	First RTP event of DTMF digits does not have Marker Bit set to 1

5.3.4 Delivered corrections for 1.5.23

Identifier	Siebel	Description
#56	1-156476223	no audio when reaching audio conference bride with a OT4135IP
#57	1-155091591	Callback on busy feature is not working in OT 4135 SIP phone

5.3.5 Delivered features for 1.5.21 : LLDP Vlan assignement

Since version 1.5.21, the 4135 is able to support the LLDP-MED protocol (Link Layer Discovery Protocol). It is possible to receive automatically the VLAN through LLDP, if the switch is correctly configured.
Here are the LLDP-MED flags which can be configured using the 4135 web interface :



In fact, here is the description of all the flags which can be sent to LLDP server by 4135 :
ports

```
med
   location
      coordinate
         latitude            [WORD  Latitude as xx.yyyyN or xx.yyyyS]
         longitude            [WORD  Longitude as xx.yyyyE or xx.yyyyW]
         altitude            [WORD  Altitude]
         datum                [WGS84  ...]
                             [NAD83  ...]
                             [NAD83/MLLW  ...]

      address
         country             [WORD  Country as a two-letter code]
         language             [WORD  Language]
         country-subdivision    [WORD  Country subdivision]
         county              [WORD  County]
         city                [WORD  City]
         city-division        [WORD  City division]
         block               [WORD  Block]
         street              [WORD  Street]
         direction            [WORD  Direction]
         trailing-street-suffix [WORD  Trailing street suffix]
         street-suffix        [WORD  Street suffix]
```

```
        number              [WORD  Number]
        number-suffix       [WORD  Number suffix]
        landmark            [WORD  Landmark]
        additional          [WORD  Additional]
        name                [WORD  Name]
        zip                 [WORD  ZIP]
        building            [WORD  Building]
        unit                [WORD  Unit]
        floor               [WORD  Floor]
        room                [WORD  Room]
        place-type          [WORD  Place type]
        script              [WORD  Script]

    elin                    [WORD  ELIN number]

  policy
    application
      voice
        <CR>                - Apply new MED policy
        unknown
          <CR>              - Apply new MED policy
          vlan              [WORD  VLAN ID to advertise]
          dscp              [WORD  DSCP value to advertise (between 0 and 63)]
        vlan                [WORD  VLAN ID to advertise]
        dscp                [WORD  DSCP value to advertise (between 0 and 63)]
        priority
          background
            <CR>            - Apply new MED policy
            unknown
              <CR>          - Apply new MED policy
              vlan          [WORD  VLAN ID to advertise]
              dscp          [WORD  DSCP value to advertise (between 0 and 63)]
            vlan            [WORD  VLAN ID to advertise]
            dscp            [WORD  DSCP value to advertise (between 0 and 63)]
          spare
            <CR>            - Apply new MED policy
            unknown
              <CR>          - Apply new MED policy
              vlan          [WORD  VLAN ID to advertise]
              dscp          [WORD  DSCP value to advertise (between 0 and 63)]
            vlan            [WORD  VLAN ID to advertise]
            dscp            [WORD  DSCP value to advertise (between 0 and 63)]

          best-effort  Best effort
```

excellent-effort Excellent effort
controlled-load Controlled load
video Video
voice Voice
network-control Network control

voice-signaling
guest-voice
guest-voice-signaling
softphone-voice
video-conferencing
streaming-video
video-signaling

power

dot3
power

5.3.6 Delivered corrections for 1.5.21

Identifier	Siebel	Description

5.3.7 Delivered corrections for 1.5.19

Identifier	Siebel	Description
crms00402302		UTF-8 characters not handled by OT4135
crms00391956		Bad display after transfer in conversation
crms00427953	1-145583679	OTBE - Basic call - unsupported G729A media on 4135
	1-146134963	Wrong DTMF payload sent on incoming calls

	1-145109801	UTF-8 characters not well displayed in case of LDAP query to an external LDAP server

5.3.8 Delivered corrections for 1.5.16

Identifier	Siebel	Description
	1-133345822	DNS issue on 4135
	1-133331631	OT4135 on PCS
Product Evolution		SIP OBS: conf bridge OT4135 generates initial RTP packets with Marker bit always set to 1

5.3.9 Delivered corrections for 1.5.14

Identifier	Siebel	Description
Product Evolution		Transfer function removed
Product Evolution	1-126849921	Added - ARS functionality (See details below)
Product Evolution		Enhanced - SD Memory support : v1.5.14 supports SDHC up to 32GB
crms00324893	1-126435101	Configurable conference tone 425Hz ,pulse 200ms, pause 9800ms. See installation guide for more information.
Product Evolution		Improved support of UTF 8 characters

Added - ARS functionality

ARS functionality, if enabled, will scan all outgoing calls for ARS prefix and if found, start ARS input sequence. This sequence consist of three steps, project account code input, Secret pin code input and number to dial input. The first two steps can be disabled to match the server configuration.

The code input steps will end as soon as the specified number of characters have been entered. The last step is finished by pressing hash, OK or off hook key. If on hook key is pressed in any part of the sequence, the call will end.

If the ARS prefix is found together with more numbers afterwards, these extra numbers will be interpreted as the project account code and this step will be automatically disabled in the sequence.

ARS functionality is enabled by editing the ARS section in the configuration file.

ARS section in configuration file:

<enable> : Enable ARS functionality

<prefix> : ARS prefix

<code1_length> : Project account code. Set to zero to disable input step on the phone

<code2_length> : Secret pin code. Set to zero to disable input step on the phone

5.3.10 Delivered corrections for 1.5.12

Identifier	Siebel	Description
	1-113101885	Bad framing when dialing for a transfer
crms00282313		OT4135: SIP password must be hidden in MMI
crms00282314		OT4135: Admin pin code must be available thru MMI
crms00324893		OT4135 - Line information is lost after a hold scenario
crms00347280		OT4135: Line info content incomplete or empty
crms00338007		OT4135: Contact list created with web admin are not seen in local MMI
crms00344163		OT4135 interface allows to change the time and date even if the NTP service is enabled
crms00342775	1-126909851	Item not translated in 4135 menu
	1-125109016	MOH not broadcast on the 4135

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.

The OT4135 IP can retrieve its configuration through DHCP from an OmniPCX Entreprise or from an external DHCP server. Refer to the document [2] for details.

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.

With an OmniPCX Office, the OT4135 IP can be configured in a few steps. Refer to the document [3] for details.

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.

With an OmniPCX Office Server, the OT4135 IP can be automatically updated. Refer to the document [3] for details.

6.3 OT 4135 IP configuration and upgrade through a provisioning server

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

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.

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Submitting a Service Request

Please connect to our eService Request application.

Before submitting a Service Request, make sure that:

- In case a Third-Party application is involved, that application has been certified via the AAPP
- You have read through the Release Notes which lists new features available, system requirements, restrictions etc. available in the Technical Documentation Library
- You have read through the Troubleshooting Guides and Technical Bulletins relative to this subject available in the Technical Documentation Library
- You have read through the self-service information on commonly asked support questions, known issues and workarounds available in the Technical Knowledge Center

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