



## **Avaya Solution & Interoperability Test Lab**

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# **Application Notes for Interquartz Endurance 10CS SIP Telephone with Avaya IP Office - Issue 1.0**

### **Abstract**

These Application Notes describe the configuration steps required for Interquartz Endurance 10CS SIP Telephone to interoperate with Avaya IP Office R9.0.

Readers should pay attention to Section 2, in particular the scope of testing as outlined in Section 2.1 as well as the observations noted in Section 2.2, to ensure that their own use cases are adequately covered by this scope and results.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

## 1. Introduction

These Application Notes outline the steps necessary to configure the Interquartz Endurance 10CS SIP telephone with Avaya IP Office. Interquartz supply telephones in the Corporate, Financial, Health, Government, Educational, Industrial, Hotel & Hospitality and SME/SoHo market sectors. Endurance telephones are designed ideally for the hospitality industry.

## 2. General Test Approach and Test Results

The test approach was to configure a SIP Extension/User on IP Office and to connect the Endurance 10CS telephone to the appropriate network. Calls are made to and from the Endurance 10CS telephone using an Avaya SIP, H.323 and Digital deskphone in order to ensure that each party can successfully complete a telephone conversation. Message Waiting Indication (MWI) set was also tested. A voice mailbox is setup for each Endurance 10CS telephone in order to allow a voicemail message to be left and MWI initiated.

**Note:** The voicemail system used during Compliance Testing was Avaya IP Office Voicemail Pro.

DevConnect Compliance Testing is conducted jointly by Avaya and DevConnect members. The jointly-defined test plan focuses on exercising APIs and/or standards-based interfaces pertinent to the interoperability of the tested products and their functionalities. DevConnect Compliance Testing is not intended to substitute full product performance or feature testing performed by DevConnect members, nor is it to be construed as an endorsement by Avaya of the suitability or completeness of a DevConnect member's solution.

## 2.1. Interoperability Compliance Testing

All test cases were performed manually. Calls were made to/from the Endurance 10CS telephone to a variety of Avaya Telephones. Calls to/from the Public Switched Telephone Network (PSTN) were also included. The main objectives were to verify the following:

- Registration
- Basic Call (Including calling number display, if display equipped)
- Call termination (origination/destination)
- Hold/Resume
- Music on Hold
- Transfer Blind/Attended
- Attended Transfer
- Call forwards
- Call waiting
- Call Park
- Call Pickup
- Short Codes
- Media shuffling
- Message Waiting Indication on/off
- DTMF
- Codec negotiation
- Long call duration

## 2.2. Test Results

Tests were performed to insure full interoperability between Endurance 10Cs, telephones and Avaya IP Office. The tests were all functional in nature and performance testing was not included. All the test cases passed successfully with the following observations:

Avaya IP Office does not support local call forward on third party SIP telephones using short codes, therefore the call forward feature needs to be provisioned in the IP Office Manager.

No indication tone (i.e. fast busy) is given when dialling an invalid (unobtainable) number from the Endurance 10CS, and the telephone returns to dial tone.

## 2.3. Support

Technical support from InterQuartz can be obtained through the following:

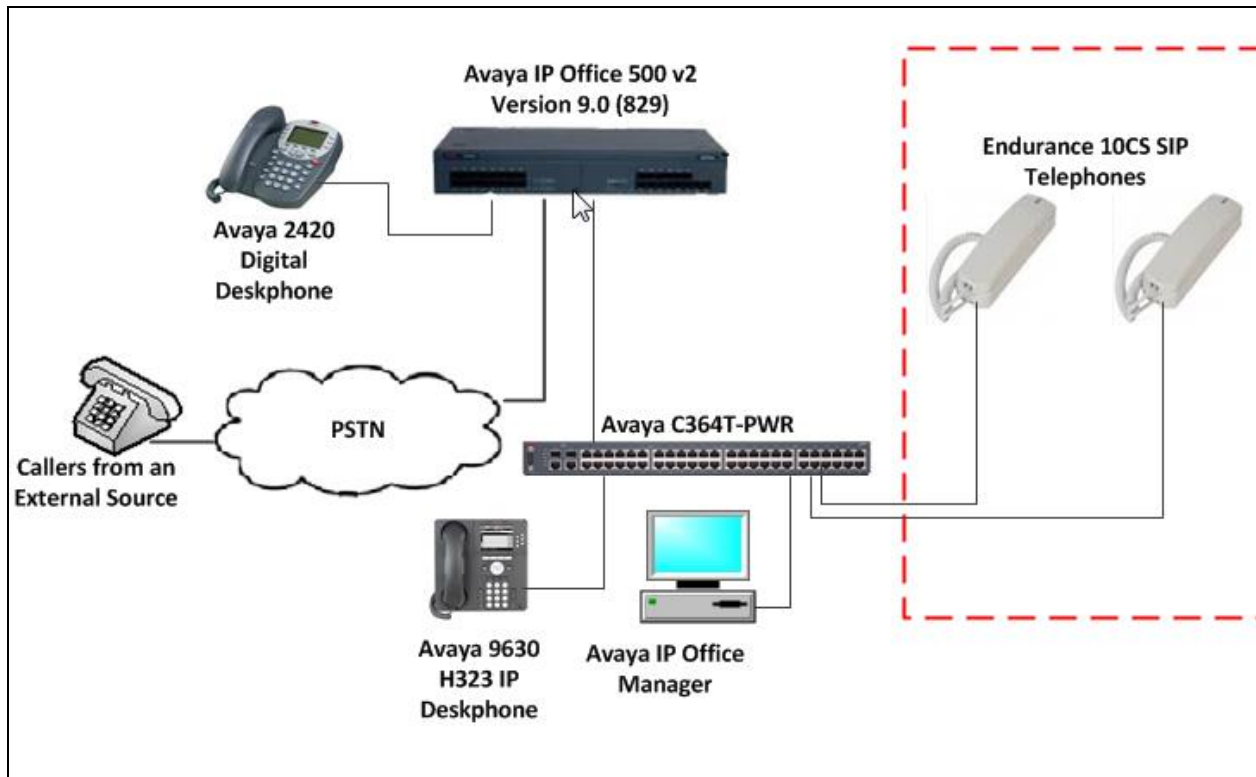
Web: <http://www.interquartz.co.uk>

Phone: +441617633122

E-mail: [support@interquartz.co.uk](mailto:support@interquartz.co.uk)

### 3. Reference Configuration

**Figure 1** illustrates a sample configuration consisting of Avaya IP Office 500v2 platform. The Endurance telephones are registered on Avaya IP Office. An Avaya 9630 H.323 IP Deskphone, 2420 Digital Deskphone were included to demonstrate calls to/from the Endurance telephones. A simulated PSTN was also configured to test calls to/from the Endurance telephones.



**Figure 1: Avaya and Interquartz Reference Configuration**

## 4. Equipment and Software Validated

The following equipment and software were used for the sample configuration provided:

Equipment/Software	Release/Version
Avaya IP Office 500 v2	9.0 Build 829
DIGSTA8 Digital Module	9.0.0.829
Avaya IP Office Voicemail Pro	9.0.0.829
Avaya IP Office Manager	9.0 Build 829
Avaya 9630 IP Deskphone (H.323)	Release 3.2
Avaya 2420 Digital Deskphone	--
Interquartz Equipment	Software / Firmware Version
Interquartz Endurance 10CS	10.uk.1.0.1

**Note:** Testing was performed with IP Office 500 v2 R9.0, but it also applies to IP Office Server Edition R9.0. Note that IP Office Server Edition requires an Expansion IP Office 500 v2 R9.0 to support analogue or digital endpoints or trunks. IP Office Server Edition does not support TAPI Wave or Group Voicemail.

## 5. Avaya IP Office Configuration

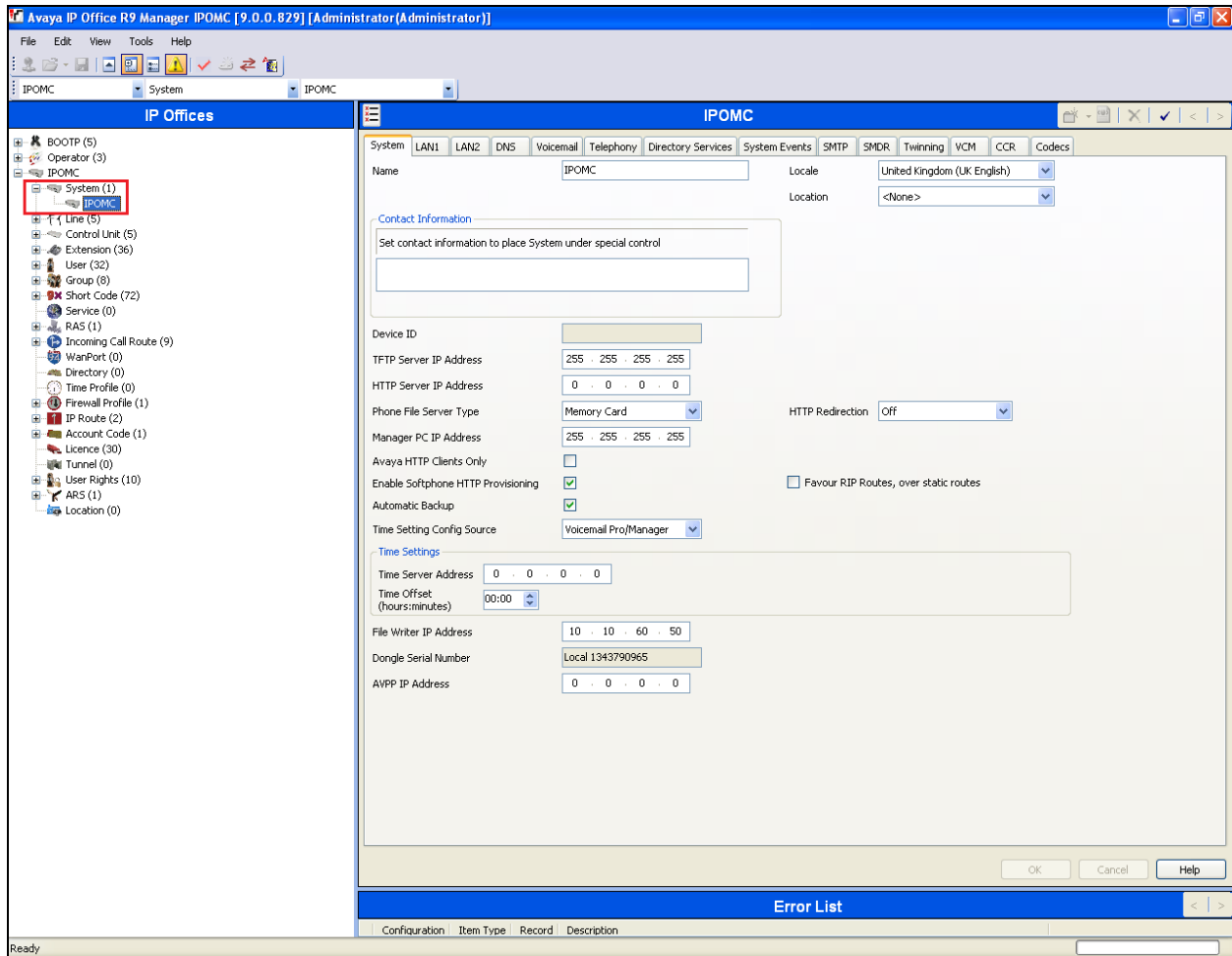
Configuration and verification operations on the Avaya IP Office illustrated in this section were all performed using Avaya IP Office Manager. The information provided in this section describes the configuration of the Avaya IP Office for this solution. It is implied a working system is already in place with the necessary licensing. For all other provisioning information such as initial installation and configuration, please refer to the product documentation in **Section 9**. The configuration operations described in this section can be summarized as follows:

- Launch Avaya IP Office Manager
- Verify IP Office license
- Obtain LAN IP address
- Administer SIP Registrar
- Create SIP Extensions
- Create Users
- Save Configuration

**Note:** The configuration of Avaya IP Office Voicemail Pro is outside the scope of these Application Notes.

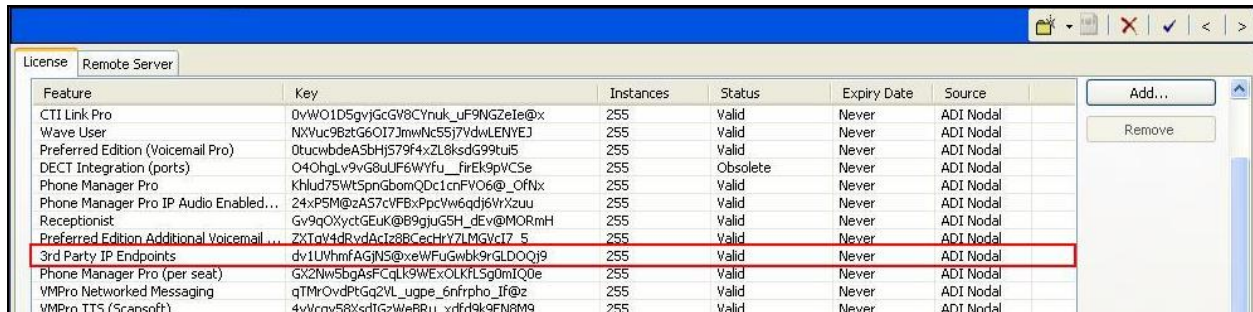
## 5.1. Launch Avaya IP Office Manager

From the Avaya IP Office Manager PC, go to **Start→Programs→IP Office→Manager** to launch the Manager application. Log in to Avaya IP Office using the appropriate credentials to receive its configuration (Not shown).



## 5.2. Verify IP Office License

Before 3<sup>rd</sup> party IP Endpoints can be configured on the IP Office a valid license is required. From the configuration tree in the **IP Office** pane, click on **License** (not shown). When the new pane is opened verify that a valid license is available.

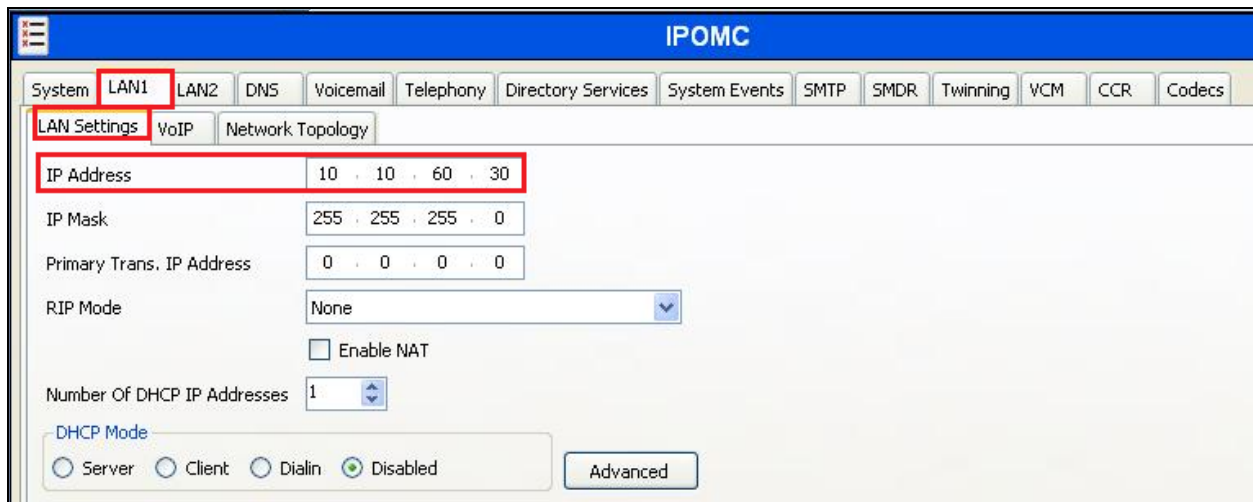


Feature	Key	Instances	Status	Expiry Date	Source
CTI Link Pro	0vW01D5gvjGcGV8CYnuk_uF9NGZeIe@x	255	Valid	Never	ADI Nodal
Wave User	NXVuc9BztG6O17JmwNc55j7VdwLENYEJ	255	Valid	Never	ADI Nodal
Preferred Edition (Voicemail Pro)	0tucwbdeASbHj579f4xZL8ksdG99tuI5	255	Valid	Never	ADI Nodal
DECT Integration (ports)	O4OhgLv9vG8uUF6WYfu__firEk9pVCSe	255	Obsolete	Never	ADI Nodal
Phone Manager Pro	Khlud75Wt5pnGbomQDc1cnFV06@_OfNx	255	Valid	Never	ADI Nodal
Phone Manager Pro IP Audio Enabled...	24xPSM@zAS7cVFBxPpcVw6qdj6VrXzuu	255	Valid	Never	ADI Nodal
Receptionist	Gv9qOXYctGEuk@B9gjuG5H_dEv@MORmH	255	Valid	Never	ADI Nodal
Preferred Edition Additional Voicemail ...	ZXTv4dRvdAcIz8BCeChY7LlMGvC17_5	255	Valid	Never	ADI Nodal
3rd Party IP Endpoints	dv1UVhmfAGjN5@xeWfUgwbk9rGLDOQj9	255	Valid	Never	ADI Nodal
Phone Manager Pro (per seat)	Gx2Nw5BgAsFcqLK9WEExOUKfL5g0mIQ0e	255	Valid	Never	ADI Nodal
VMPro Networked Messaging	qTMrOvdPtGq2VL_ugpe_6nfrpho_Ir@z	255	Valid	Never	ADI Nodal
VMPro TTS (Scansoft)	4vYcmv58XsdIGzWeBRU_xdf9d9k9EN8M9	255	Valid	Never	ADI Nodal

## 5.3. Obtain LAN IP Address

From the configuration tree in the left pane, select **System** (not shown) to display the System screen in the right pane. Select the **LAN1** tab, followed by the **LAN Settings** sub-tab. Make a note of the **IP Address**, which will be used later to configure Endurance 10CS SIP telephone in **Section 6.4**.

**Note:** During the initial configuration of Avaya IP Office, the LAN1 was configured on the private network side and LAN2 was configured on the public network side. Avaya IP Office can support SIP extensions on the LAN1 and/or LAN2 interfaces, but the compliance test used the LAN1 interface. Thus, only the LAN1 configuration will be discussed in these Application Notes.



IPOMC

System **LAN1** LAN2 DNS Voicemail Telephony Directory Services System Events SMTP SMDR Twinning VCM CCR Codecs

**LAN Settings** VoIP Network Topology

IP Address: 10 . 10 . 60 . 30

IP Mask: 255 . 255 . 255 . 0

Primary Trans. IP Address: 0 . 0 . 0 . 0

RIP Mode: None

☐ Enable NAT

Number Of DHCP IP Addresses: 1

DHCP Mode: ☐ Server ☐ Client ☐ Dialin ☒ Disabled

Advanced

## 5.4. Administer SIP Registrar

From the configuration tree in the left pane, select **System** (not shown) to display the System screen in the right pane. Select the **LAN1** tab, followed by the **VoIP** sub-tab, and enter the follow:

- **SIP Registrar Enable** Check the check box
- **Domain Name** Enter a valid Domain Name for SIP endpoints to use for registration with IP Office or leave blank. (If the **Domain Name** field is left blank, then the SIP endpoints will use the LAN IP address for registration)
- **UDP** Check the check box and select **5060** as the **UDP Port**

Defaults were used for the remaining fields. Click on the **OK** button to save (not shown).

The screenshot displays the IPOMC+ configuration window. The 'LAN1' tab is selected under the 'System' category. Within the 'LAN1' settings, the 'VoIP' sub-tab is active. The 'SIP Registrar Enable' checkbox is checked and highlighted with a red box. Below it, the 'Domain Name' field is empty and also highlighted with a red box. In the 'Layer 4 Protocol' section, the 'UDP' checkbox is checked and highlighted with a red box, and the 'UDP Port' is set to '5060' in a dropdown menu, also highlighted with a red box. Other settings include 'H323 Gatekeeper Enable' (checked), 'Auto-create Extn' (checked), 'Auto-create User' (unchecked), 'H323 Remote Extn Enable' (unchecked), 'SIP Trunks Enable' (checked), 'Auto-create Extn/User' (checked), 'SIP Remote Extn Enable' (unchecked), 'Remote UDP Port' (5060), 'Remote TCP Port' (5060), 'Remote TLS Port' (5061), and 'Challenge Expiry Time (secs)' (10).

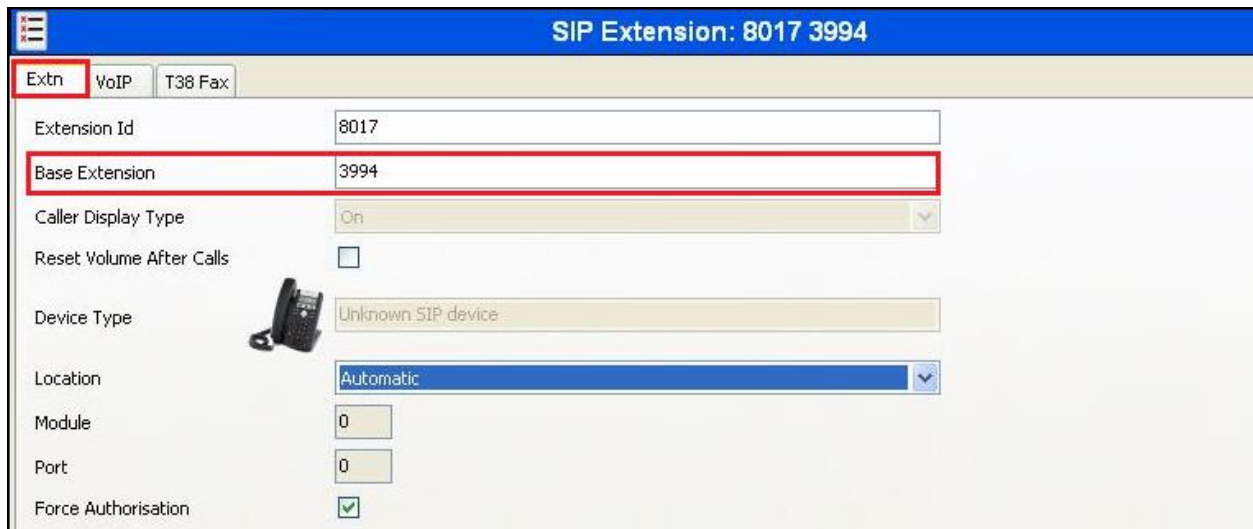


## 5.5. Create SIP Extensions

The Endurance telephones are configured as SIP Extensions on the IP Office. From the configuration tree in the **IP Office** pane, right click on **Extension**, and select **New → SIP Extension** (not shown). Click on the **Extn** tab and enter the following:

- **Base Extension** Enter the number used for this extension (i.e. 3994). Note the **Extension Id** is auto filled in

Defaults were used for the remaining fields and tabs. Click on the **OK** button to save (not shown).



SIP Extension: 8017 3994


Extn VoIP T38 Fax

Extension Id 8017

Base Extension 3994

Caller Display Type On

Reset Volume After Calls ☐

Device Type  Unknown SIP device

Location Automatic

Module 0

Port 0

Force Authorisation ☒

## 5.6. Create Users

From the configuration tree in the **IP Office** pane, right click on **User**, and select **New** (not shown). Click on the **User** tab and enter the following:

- **Name** Enter a name for the user (i.e. END10CS)
- **Extension** Enter the **Extension** number as configured in **Section 5.5**

Defaults were used for the remaining fields.

The screenshot shows the 'END10CS: 3994' configuration page with the 'User' tab selected. The 'Name' field is set to 'END10CS' and the 'Extension' field is set to '3994'. Other fields include 'Password', 'Confirm Password', 'Account Status' (Enabled), 'Full Name' (END10CS 3994), 'Email Address', 'Locale', 'Priority' (5), 'System Phone Rights' (None), and 'Profile' (Basic User).

Select the **Telephony** tab, followed by the **Call Settings** sub-tab. Check the **Call Waiting On** field, as shown below. Defaults were used for the remaining fields.

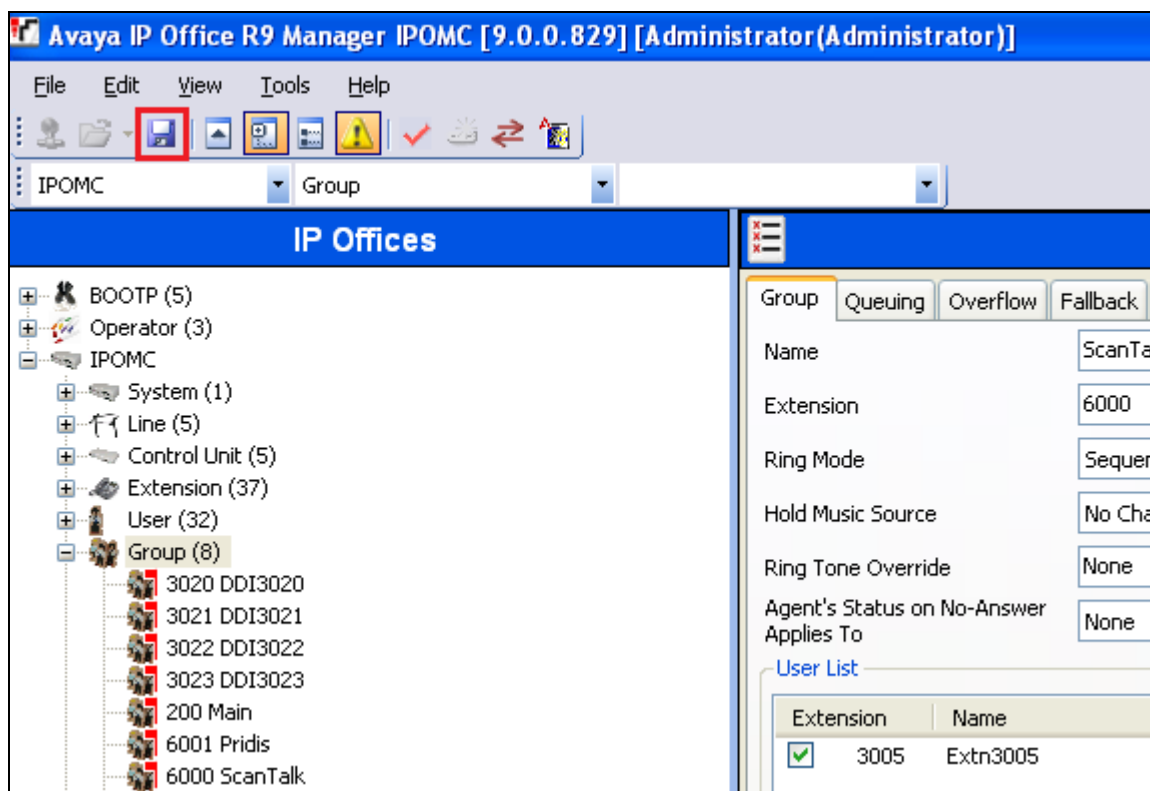
The screenshot shows the 'END10CS: 3994' configuration page with the 'Telephony' tab selected and the 'Call Settings' sub-tab active. The 'Call Waiting On' checkbox is checked. Other settings include 'Outside Call Sequence' (Default Ring), 'Inside Call Sequence' (Default Ring), 'Ringback Sequence' (Default Ring), 'No Answer Time (secs)' (System Default (15)), 'Wrap-up Time (secs)' (2), 'Transfer Return Time (secs)' (Off), 'Call Cost Mark-Up' (100), 'Answer Call Waiting On Hold' (checked), 'Busy On Held' (unchecked), and 'Offhook Station' (unchecked).

Select the **Supervisor Settings** sub-tab, and enter a desired **Login Code** (i.e. **1234**). This Login Code will be used when Endurance 10CS telephone registers to the SIP user **2994** on the IP Office and also required in **Section 6.4**. Defaults were used for the remaining fields and tabs. Click on the **OK** button to save (not shown).

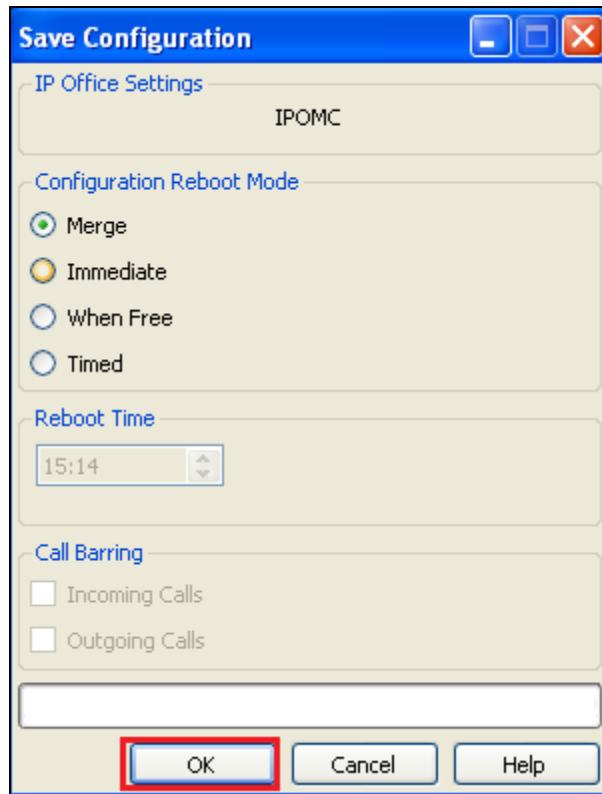
The screenshot shows the 'END10CS: 3994\*' configuration window with the 'Supervisor Settings' tab selected. The 'Login Code' field is highlighted with a red box and contains '\*\*\*\*'. Other fields include 'Login Idle Period (secs)', 'Monitor Group' (set to '<None>'), 'Coverage Group' (set to '<None>'), and 'Status on No-Answer' (set to 'Logged On (No change)'). There are also checkboxes for 'Force Login', 'Force Account Code', 'Incoming Call Bar', 'Outgoing Call Bar', and 'Inhibit Off-Switch Forward/Transfer'.

## 5.7. Save Configuration

Once all the configurations have been made it must be sent to the IP Office. Click on the Save Icon as shown below.

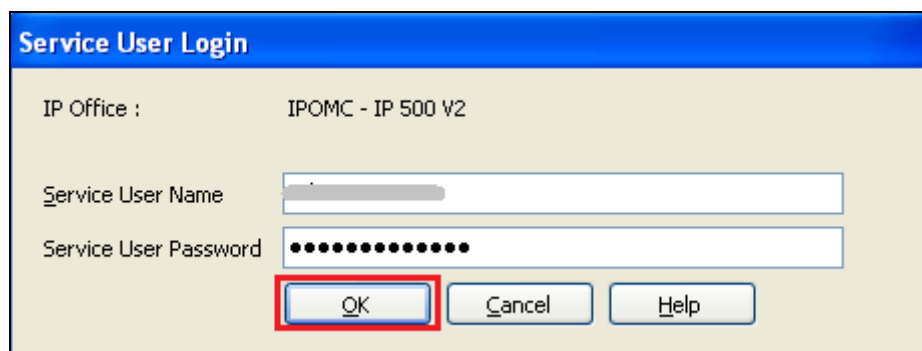


Once the **Save Configuration** Window opens, click the **OK** button.



The **Save Configuration** dialog box is shown with a blue title bar and standard window controls. It contains several sections: **IP Office Settings** with a label **IPOMC**; **Configuration Reboot Mode** with four radio buttons (**Merge** is selected, followed by **Immediate**, **When Free**, and **Timed**); **Reboot Time** with a time selection box set to **15:14**; and **Call Barring** with two unchecked checkboxes (**Incoming Calls** and **Outgoing Calls**). At the bottom is an empty text field and three buttons: **OK** (highlighted with a red rectangle), **Cancel**, and **Help**.

When the **Service User Login** Window opens enter the appropriate credentials and click the **OK** button.



The **Service User Login** dialog box has a blue title bar. It displays **IP Office :** **IPOMC - IP 500 V2**. Below this are two input fields: **Service User Name** (containing a greyed-out name) and **Service User Password** (filled with dots). At the bottom are three buttons: **OK** (highlighted with a red rectangle), **Cancel**, and **Help**.

## 6. Configure Interquartz Endurance 10CS Telephones

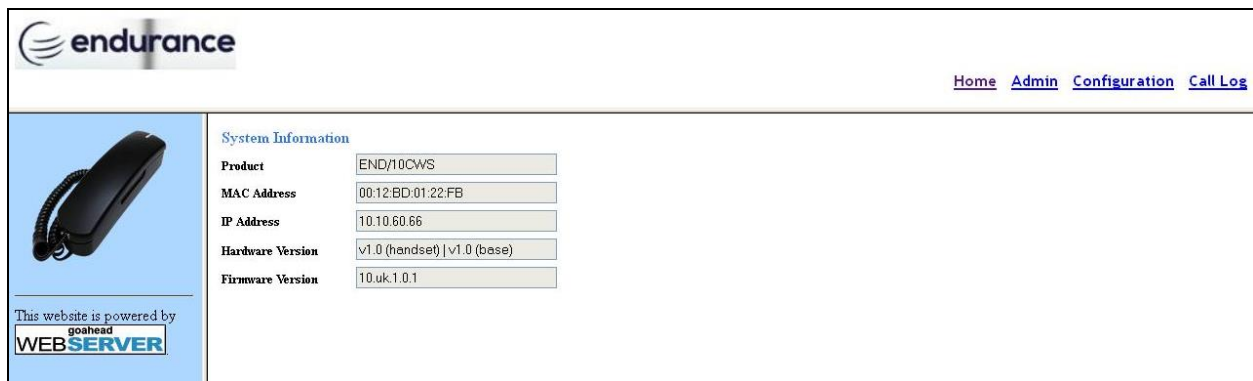
Configuration of the Endurance 10CS telephone is achieved using a Web based administration tool. The configuration operations described in this section can be summarized as follows:

- Access Web based administration tool
- Configure Network Settings
- Configure SIP Settings
- Configure SIP Accounts
- Configure Audio Settings

### 6.1. Access Web Based Administration Tool

To access the Web based tool, browse to the IP address of the Endurance 10CS telephones using any supported browser (i.e. Internet Explorer). After browsing to the IP address, enter the appropriate credentials (not shown).

**Note:** To find the IP address of the telephone, go off hook and dial **\*12345#**, the IP address will be spoken back.



The screenshot shows the web administration interface for an Endurance 10CS telephone. The header features the 'endurance' logo on the left and navigation links 'Home', 'Admin', 'Configuration', and 'Call Log' on the right. The main content area is titled 'System Information' and displays a table of device details. On the left side of the main area, there is a small image of a black telephone handset and a logo for 'goahead WEB SERVER' with the text 'This website is powered by'.

System Information	
Product	END/10CWS
MAC Address	00:12:BD:01:22:FB
IP Address	10.10.60.66
Hardware Version	v1.0 (handset)   v1.0 (base)
Firmware Version	10.uk.1.0.1

## 6.2. Configure Network Settings

Once logged on to the administration tool, click on **Configuration**. By default the **Network Settings** page opens. If using DHCP, check the **DHCP** check box, otherwise configure the following:

- **IP Address** Enter the IP address assigned for the telephone
- **Subnet Mask** Enter the appropriate subnet mask
- **Default Gateway** enter the appropriate gateway

The remaining settings were left at their default values. Click on the **Save** button to save the new settings.

The screenshot shows the 'endurance' web interface. The top navigation bar includes 'Home', 'Admin', 'Configuration' (highlighted), and 'Call Log'. The left sidebar lists various configuration settings. The main content area is titled 'Network Settings' and contains the following fields:

- DHCP**: ☐
- Primary Interface**: Eth0 (dropdown)
- Secondary Interface**: Eth1 (dropdown)
- IP Address**: 10.10.60.66 (text input, highlighted with a red box)
- Subnet Mask**: 255.255.255.0 (text input, highlighted with a red box)
- Default Gateway**: 10.10.60.1 (text input, highlighted with a red box)
- Primary DNS**: 0.0.0.0 (text input)
- Secondary DNS**: 0.0.0.0 (text input)
- IP Mode**: IPv4 (dropdown)
- Print Log Settings**:
  - Enable Print**: ☐
  - Print Level**: Level 0 (dropdown)
  - Enable Lower Print Levels**: ☒
  - Print To**: Console (dropdown)
  - Syslog Server IP**: (text input)
  - Local File**: (text input)
- Save**: (button, highlighted with a red box)

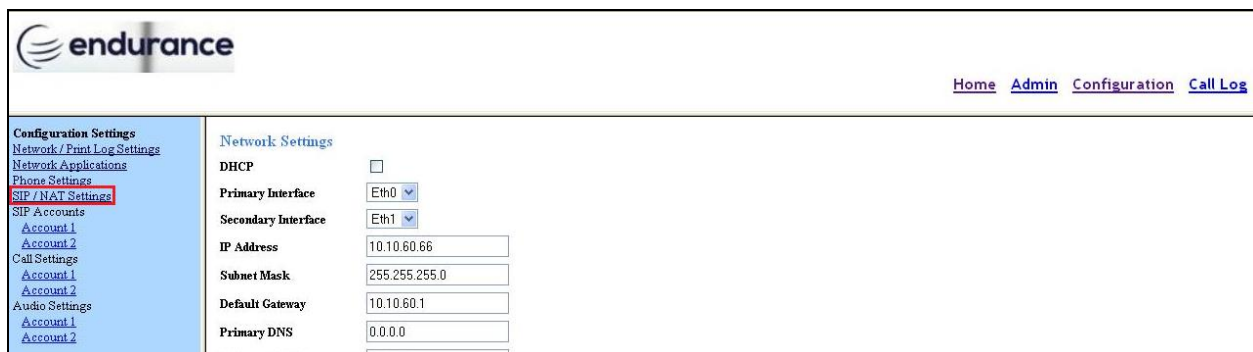
For the new Network Settings to take place on the telephone a reboot is required. Click on **Reboot** to modify the new settings. Once the reboot is completed, the Web page will update to indicate **Operation successful** (not shown).

**Note:** After the telephone reboots, the procedure in **Section 6.1** will be required again as the IP address of the telephone will have changed.

The screenshot shows the 'endurance' web interface after a successful configuration. The top navigation bar includes 'Home', 'Admin', 'Configuration', and 'Call Log'. The left sidebar lists various configuration settings. The main content area displays the message: 'Operation successful : Values have been modified. Please reboot.' Below this message is a button labeled 'Back Reboot'.

## 6.3. Configure SIP Settings

Click on **SIP / NAT Settings** on the left hand side of the Web page.



endurance

Home Admin Configuration Call Log

Configuration Settings  
Network / Print Log Settings  
Network Applications  
Phone Settings  
**SIP / NAT Settings**  
SIP Accounts  
Account 1  
Account 2  
Call Settings  
Account 1  
Account 2  
Audio Settings  
Account 1  
Account 2

Network Settings

DHCP ☐

Primary Interface Eth0

Secondary Interface Eth1

IP Address 10.10.60.66

Subnet Mask 255.255.255.0

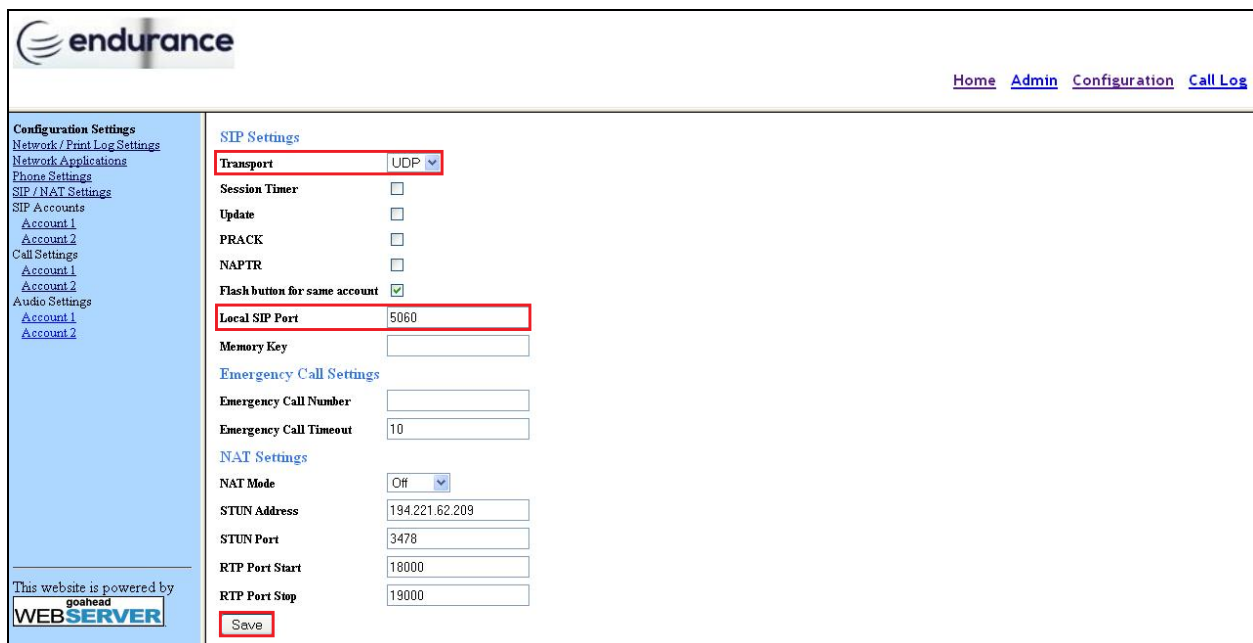
Default Gateway 10.10.60.1

Primary DNS 0.0.0.0

When the **SIP Settings** page opens, configure the following

- **Transport** Select **UDP** from the dropdown box
- **Local SIP Port** Enter **5060**, the **UDP** port as per **Section 5.4**

The remaining settings were left at their default values. Click on the **Save** button to save the new settings. Once the save is completed, the Web page will update to indicate **Operation successful** (not shown).



endurance

Home Admin Configuration Call Log

Configuration Settings  
Network / Print Log Settings  
Network Applications  
Phone Settings  
SIP / NAT Settings  
SIP Accounts  
Account 1  
Account 2  
Call Settings  
Account 1  
Account 2  
Audio Settings  
Account 1  
Account 2

SIP Settings

Transport UDP

Session Timer ☐

Update ☐

PRACK ☐

NAPTR ☐

Flash button for same account ☒

Local SIP Port 5060

Memory Key

Emergency Call Settings

Emergency Call Number

Emergency Call Timeout 10

NAT Settings

NAT Mode Off

STUN Address 194.221.62.209

STUN Port 3478

RTP Port Start 18000

RTP Port Stop 19000

Save

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WEB SERVER

## 6.4. Configure SIP Accounts

Click on **Account 1** under **SIP Accounts** on the left hand side of the Web page.



endurance

[Home](#) [Admin](#) [Configuration](#) [Call Log](#)

**Configuration Settings**  
Network / Print Log Settings  
Network Applications  
Phone Settings  
SIP / NAT Settings  
**SIP Accounts**  
Account 1  
Account 2  
Call Settings  
Account 1  
Account 2  
Audio Settings  
Account 1  
Account 2

**SIP Settings**

Transport: UDP

Session Timer: ☐

Update: ☐

PRACK: ☐

NAPTR: ☐

Flash button for same account: ☒

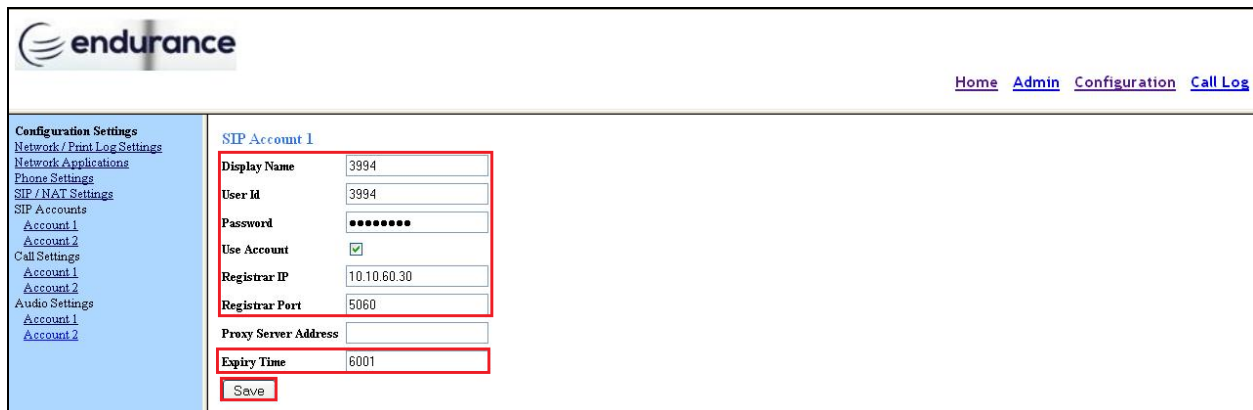
Local SIP Port: 5060

Memory Key:

When the **SIP Account 1** page opens, configure the following:

- **Display Name** Enter an appropriate name
- **User Id** Enter the **Extension** as configured in **Section 5.6** (i.e. 3994)
- **Password** Enter the **Login Code** as configured in **Section 5.6**
- **Use Account** Check the check box
- **Registrar IP** Enter the **LAN1** IP address of the IP Office as in **Section 5.3**
- **Registrar Port** Enter **5060**, the **UDP** port as per **Section 5.4**
- **Expiry Time** Enter the expiry time in seconds (i.e. 6000)

Click on the **Save** button to save the new settings. Once the save is completed, the Web page will update to indicate **Operation successful** (not shown).



endurance

[Home](#) [Admin](#) [Configuration](#) [Call Log](#)

**Configuration Settings**  
Network / Print Log Settings  
Network Applications  
Phone Settings  
SIP / NAT Settings  
**SIP Accounts**  
Account 1  
Account 2  
Call Settings  
Account 1  
Account 2  
Audio Settings  
Account 1  
Account 2

**SIP Account 1**

Display Name: 3994

User Id: 3994

Password: .....

Use Account: ☒

Registrar IP: 10.10.60.30

Registrar Port: 5060

Proxy Server Address:

Expiry Time: 6001

**Save**



## 6.5. Configure Audio Settings

Click on **Account 1** under **Audio Settings** on the left hand side of the Web page.

endurance

[Home](#) [Admin](#) [Configuration](#) [Call Log](#)

**Configuration Settings**  
[Network / Print Log Settings](#)  
[Network Applications](#)  
[Phone Settings](#)  
[SIP / NAT Settings](#)  
[SIP Accounts](#)  
[Account 1](#)  
[Account 2](#)  
[Call Settings](#)  
[Account 1](#)  
[Account 2](#)  
**Audio Settings**  
[Account 1](#)  
[Account 2](#)

**SIP Account 1**

Display Name: 3994

User Id: 3994

Password: ••••••••

Use Account: ☒

Registrar IP: 10.10.60.30

Registrar Port: 5060

Proxy Server Address:

Expiry Time: 6001

When the **Audio Settings** page opens, configure the following:

- **DTMF Mode** Select **RFC 2833** from the dropdown box
- **Audio Codecs** Select the appropriate codecs (the screen shot below shows the codec setting used Compliances Testing)

The remaining settings were left at their default values. Click on the **Save** button to save the new settings. Once the save is completed, the Web page will update to indicate **Operation successful** (not shown).

endurance

[Home](#) [Admin](#) [Configuration](#) [Call Log](#)

**Configuration Settings**  
[Network / Print Log Settings](#)  
[Network Applications](#)  
[Phone Settings](#)  
[SIP / NAT Settings](#)  
[SIP Accounts](#)  
[Account 1](#)  
[Account 2](#)  
[Call Settings](#)  
[Account 1](#)  
[Account 2](#)  
**Audio Settings**  
[Account 1](#)  
[Account 2](#)

**Audio Settings - Port 1**

DTMF Mode: RFC 2833

SRTP Mode: Disabled

Silence Suppression: ☐

Jitter: 20

Packetization Time: 20

Audio Codec 1: PCMA

Audio Codec 2: G.729

Audio Codec 3: G.722

Audio Codec 4: Disabled

Audio Codec 5: Disabled

Audio Codec 6: Disabled

Audio Codec 7: Disabled

ToS: 0

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## 7. Verification Steps

From a PC which the **Avaya IP Office Monitor** application is installed, select **Start → All Programs → IP Office → Monitor** to launch the application. The **Avaya IP Office SysMonitor** window is displayed. Then select **Status → SIP Phone Status**.



Verify that there is an entry for the Endurance 10CS SIP extension from **Section 5.5**, and the **Status** is **SIP: Registered**.

**Note:** the Endurance 10CS telephone will display a **User Agent** of **Avantec**.

SIPPhoneStatus										
Total Configured: 22		Waiting 0 secs for update								
Total Registered: 0		Registered Status								
Extn Num	IP Address	Transport	User Agent	Licensed	SIP Options	SIP Events	Status	LastAv...	LastIP...	Reserv...
3009	0.0.0.0		UA?	No Licence			SIP: Unregistered			0
3010	0.0.0.0		UA?	No Licence			SIP: Unregistered			0
3011	0.0.0.0		UA?	No Licence			SIP: Unregistered			0
3012	0.0.0.0		UA?	No Licence			SIP: Unregistered			0
3013	0.0.0.0		UA?	No Licence			SIP: Unregistered			0
3015	0.0.0.0		UA?	No Licence			SIP: Unregistered			0
8013	0.0.0.0		UA?	No Licence			SIP: Unregistered			0
7001	0.0.0.0		UA?	No Licence			SIP: Unregistered			0
7002	0.0.0.0		UA?	No Licence			SIP: Unregistered			0
7003	0.0.0.0		UA?	No Licence			SIP: Unregistered			0
3998	0.0.0.0		UA?	No Licence			SIP: Unregistered			0
3995	10.10.60.33	UDP	SiTel/2.0.01	3rd Party IP	RU		SIP: Registered	11/09/...		0
3996	10.192.172.6	UDP	SiTel/2.0.01	3rd Party IP	R		SIP: Registered	11/09/...		0
3994	10.192.172.3	UDP	Avantec/2.0.01	3rd Party IP	R		SIP: Registered	11/09/...		0
3997	10.192.172.7	UDP	Yealink SIP-T28P 2.72.23.2	3rd Party IP	RU	TH	SIP: Registered	02/09/...		0
8014	0.0.0.0		UA?	Unknown			SIP: Unregistered	11/09/...		720914
8017	0.0.0.0		UA?	Unknown			SIP: Unregistered	11/09/...		720914

The following steps may also be used to verify the configuration:

- Place calls to and from the Endurance telephone and verify that the calls are successfully established with two-way talk path.
- Perform basic call handling including, call hold and call transfers.
- Leave a voice message on an Endurance telephone from another telephone by calling the Endurance telephone that covers to voice mail. Verify that the MWI on the Endurance telephone is activated.
- Then, retrieve the voice message using the Endurance telephone and verify that the MWI is deactivated.

## 8. Conclusion

A full and comprehensive set of feature and functional test cases were performed during Compliance testing. Interquartz Endurance 10CS SIP telephone is considered compliant with Avaya IP Office 500 v2 R9.0. All test cases have passed and met the objectives with some observations as stated in **Section 2.2**.

## 9. Additional References

These documents form part of the Avaya official technical reference documentation suite. Further information may be had from <http://support.avaya.com> or from the local Avaya representative.

*[1] Avaya IP Office Manager 9.0, Document 15-601011, Issue 9.01, September 2013*

Product Documentation for Interquartz can be obtained at: <http://www.interquartz.co.uk>

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