Certificate of Compatibility

NEC Infrontia Limited is pleased to verify that:

Yealink - Enterprise IP Phone Range

has successfully met the standards for SIP Extension compatibility with the NEC Infrontia products listed below.

Test Completion Date:	2ND December 2009
Manufacturer:	Yealink
Model:	Enterprise IP Phone Range
Firmware Version:	Program 6.2.0.40
NEC Infrontia Platform Tested:	A Yealink declaration indicates compliance for the T12/T12P/T20/T20P/T22/T22P/T26/T26P/T28P based on NEC testing of the T28 ref SIPE0041
Software Version:	V3.0
Test Plan Version:	1.1

Please refer to Configuration Notes below for further information.

SIP Configuration Notes – Yealink - Enterprise IP Phone Range

This guide should be used to configure the above device, for connection to an XN120 or Aspire or SV8100 system.

Recommended Software Versions

Aspire:		*XN120:*		*SV8100:*	
NTCPU	V7.60	CPU	V8.00	CPU	V3.00
PCPro	V7.14	PCPro	V8.00	PCPro	V3.00
VOIPU	V4.09	VOIPU	V4.09		

System Configuration
An unused extension number should be assigned to an unallocated port on the telephone system. (Refer to PRG11-02. The SIP device will register to this extension number.

If authentication is required, a password should be entered in PRG15-15-16.
Authentication also needs to be enabled in PRG10-33-02.

CODEC settings can be changed in PRG84-19.

Further information is available in the Online Help.

SIP Extension Configuration
The Yealink - Enterprise IP Phone can be configured using the keys and LCD screen on the front of the phone. Alternatively, a web-based interface can be used.

The most common method of configuration is to use DHCP to issue the device with an IP address, and then use a Web Browser to configure the advanced settings.

Step 1 – Issue an IP address:
1. Connect the Yealink Enterprise IP Phone to a network with a DHCP server. (By default the telephone will try to obtain an address via DHCP)
2. To determine which address has been issued, press the Menu Key, select number 1 from the list, and press the enter key. The current IP address will be displayed on the LCD screen.

Step 2 – Configure the advanced settings:
1. Open Internet Explorer (or other Web Browser) and type the device's IP address into the address bar.
2. You will be prompted to Sign in. Sign in to the web admin menu using the username **admin** and the password **admin**.
3. A menu screen will now appear and you can configure the phone settings.
4. Note that most settings can be left at default – in most circumstances, only the items listed below from the Line menu need to be changed for the phone to register to the PBX.

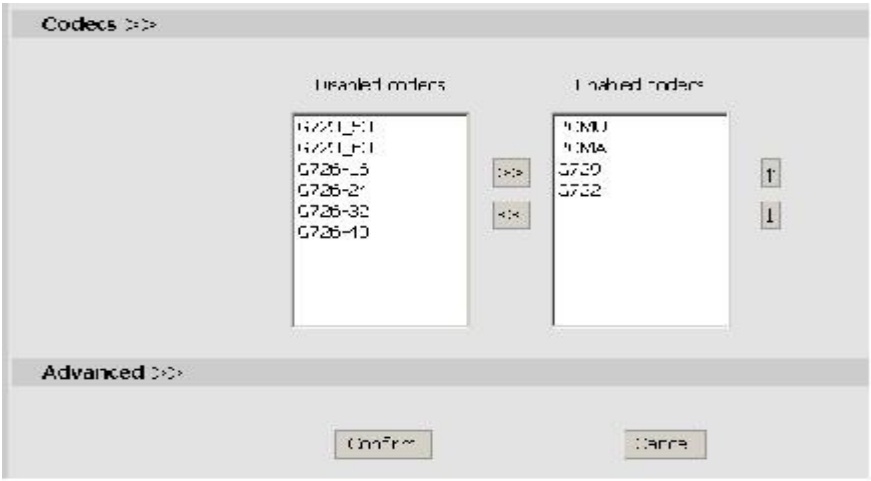
   In the example below, the Yealink Enterprise IP Phone is configured to register to the telephone system (172.16.0.10) on port UDP/5070, as extension 210. These settings should match the configuration of your telephone system.

Click on the **ACCOUNT** tab to get to this screen.

SIP Server:	Set this to the telephone system's IP address
Outbound Proxy:	Set this to the telephone system's IP address
SIP User ID:	This should be the devices extension number e.g. *210*.
Authenticate ID:	This should be the devices extension number e.g. *210*.
Authenticate Password:	This should only be required if a password has been set in PRG 15-15-16.
Name:	This will appear on the display of the device.

CODEC Setup

If necessary you can change the order of the supported CODECs to match the telephone system through the **ACCOUNT** tab of the browser menu.



After making any changes, click on Confirm. The phone will always restart its self after any changes have been made.

Compatibility Overview

	Compatible/Incompatible
Registration - No Authentication	
Successful Registration	Compatible
Maintain Registration	Compatible
Registration Refresh	Compatible
Registration Failure	Compatible
De-registration	Compatible
Registration with Authentication	
Successful Registration	Compatible
Maintain Registration	Compatible
Registration Refresh	Compatible
Registration Failure	Compatible
De-registration	Compatible
Registration Failure 480	Compatible
Call to PSTN/ISDN	
Call Setup	Compatible
Call Continuance	Compatible
Disconnect by Calling Party	Compatible
Disconnect by Called Party	Compatible
Call Cancel	Compatible
Call internal to Keytelephone	
Call Setup	Compatible
Call Continuance	Compatible
Disconnect by Calling Party	Compatible
Disconnect by Called Party	Compatible
Call Cancel	Compatible
Incoming call from PSTN/ISDN	
Call Setup	Compatible
Call Continuance	Compatible
Disconnect by Calling Party	Compatible
Disconnect by Called Party	Compatible
Call Cancel	Compatible
Incoming call from Keytelephone	
Call Setup	Compatible
Call Continuance	Compatible
Disconnect by Calling Party	Compatible
Disconnect by Called Party	Compatible
Call Cancel	Compatible
CODECs Disabling and Reordering	
Disabled CODEC outgoing call	Compatible
Disabled CODEC incoming call	Compatible
CODEC Order outgoing call	Compatible
CODEC order incoming call	Compatible
Sending digits during ringing	
Sending digits during ringing	Compatible

Sending digits during conversation	
Sending digits during conversation	Compatible
DTMF Relay	
Sending DTMF via RTP	Compatible
Flash hook/recall	
Hold & retrieve	Compatible
Consult Transfer (Flash hook/recall)	
Hold & Transfer (REFER)	Compatible
Blind Transfer (Flash hook/recall)	
Hold & Blind Transfer (REFER)	Compatible
Call to PSTN/ISDN Peer to Peer enabled	
Call Setup	Compatible
Call Continuance	Compatible
Disconnect by Calling Party	Compatible
Disconnect by Called Party	Compatible
Call Cancel	Compatible
Call internal to Keytelephone Peer to Peer enabled	
Call Setup	Compatible
Call Continuance	Compatible
Disconnect by Calling Party	Compatible
Disconnect by Called Party	Compatible
Call Cancel	Compatible
Sending digits during ringing Peer to Peer enabled	
Sending digits during ringing	Compatible
Sending digits during conversation Peer to Peer enabled	
Sending digits during conversation	Compatible
DTMF Relay Peer to Peer enabled	
Sending DTMF via RTP	Compatible
Flash hook/recall Peer to Peer enabled	
Hold & retrieve	Compatible
Consult Transfer (Flash hook/recall) Peer to Peer enabled	
Hold & Transfer (REFER)	Compatible
Blind Transfer (Flash hook/recall) Peer to Peer enabled	
Hold & Blind Transfer (REFER)	Compatible
Power out/kill process	
Unexpected SIP extension termination (Idle)	Compatible
Unexpected SIP extension termination (In conversation)	Compatible
Network Issues	
Disconnect the Ethernet cable X3 (During idle)	Incompatible – See Note 1
Disconnect the Ethernet cable X3 (During conversation)	Compatible
Disconnect the Ethernet cable X4 (During idle)	Incompatible
Disconnect the Ethernet cable X4 (During conversation)	Compatible
Disconnect the Ethernet cable X2 (RTP stream) (During conversation)	Incompatible

CODEC Overview – See section 7 for detailed test results of CODEC compatibility.	
G.711	Compatible
G.729	Compatible
G.723	Incompatible

Note 1: If network connectivity is lost at any point the phone will need to be restarted.

There is a compatibility issue when using G.723, for this reason, do not set the codec to G.723 in PRG 84-19

Disclaimer:
NEC Infrontia Limited has performed Interoperability Testing with the Equipment listed above. The results of these tests proved satisfactory.

IMPORTANT: NEC Infrontia Limited cannot be held responsible for any future compatibility issues that may arise, as Manufacturers may make changes to their systems which are outside of NEC Infrontia's control.