



Avaya Solution & Interoperability Test Lab

Application Notes for Bittel Kingstar BT-2008 SIP Telephones with Avaya Communication Server 1000E Rel 6.0 – Issue 1.0

Abstract

These Application Notes describe how to configure a Bittel Kingstar BT-2008 SIP telephone (model 67IP-T10) to interwork with an Avaya Communication Server 1000E (release 6.0) as a SIP Line Universal Extension endpoint (UEXT) registered to the Avaya Communication Server 1000E SIP Line Gateway. The Avaya Communication Server 1000E embedded SIP Line service extends existing networking and line services to supported SIP clients and facilitates the use of 3rd party SIP telephones.

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 describe the validated test configuration for a Bittel Kingstar BT-2008 SIP telephone (model 67IP-T10) with an Avaya Communication Server 1000E (software version 6.0). The 67IP-T10 is a two line SIP telephone with 10 programmable service keys, hands free operation and 2 built in Ethernet ports. This particular model is intended for the hospitality market as an analog telephone replacement. It lacks an alphanumeric display, all telephone programming is performed using a web browser and a built in web server. The telephone has a Message Waiting Indicator which is compatible with Avaya CallPilot™ Unified Messaging. Common telephone functions such as mute, redial and hold have dedicated buttons.

The 67IP-T10 telephone is configured on the Avaya Communication Server 1000E as a SIP Line Universal Extension endpoint (UEXT). Avaya Communication Server 1000E SIP Line services allow a SIP telephone to register with a local SIP server and receive a subset of telephone services as well as line appearance on the Avaya Communication Server 1000E. Not all Avaya Communication Server 1000E services and features are available to 3rd party SIP telephones; the objective of this Application Notes is to document which Avaya Communication Server 1000E features work with the Bittel 67IP-T10 telephone and to report compliance test results.

2. General Test Approach and Test Results

These subsections describe the results of tests executed on the 67IP-T10 telephone, using the test configuration as detailed in **Figure 1**. It was observed during testing that altering settings in some web pages required the telephone to restart, where as changing similar setting in other web pages did not trigger a restart. To ensure consistency, the 67IP-T10 was restarted manually after a configuration change was made. Where a particular feature was present on both the 67IP-T10 and the CS 1000E, it was tested in either setting and any interaction or deviations from the expect results was reported. In the ensuing test cases the variety of telephones used are identified as follows:

- Phone 1 = Bittel 67IP-T10 SIP Phone at extension 2000
- Phone 2 = Bittel 67IP-T10 SIP Phone at extension 2001
- Phone 3 = Bittel 67IP-T10 SIP Phone at extension 2002
- Phone 4 = Avaya 1140 IP telephone at extension 2010
- Phone 5 = Avaya M3904 digital telephone at extension 2011
- Phone 6 = Avaya 1140 SIP telephone at extension 2012

2.1. Interoperability Compliance Testing

SIP Line operation on a CS1000E requires the activation of the SIP Line service on a signaling server and is dependant of the following packages being present in the call server keycode file.

Package Mnemonic	Package number	Package description	Comment
SIP_LINES	417	SIP Line Service	Basic package
SIPL_3RDPARTY	416	Third-party SIP Line package	Package for non Avaya SIP telephones
SIPL_NORTEL	415	Avaya SIP Line package	For Avaya SIP telephones
FFC	139	Flexible Feature Codes	Needed for special features, e.g., Call Forward All Calls.

The CS 1000E SIP Line Gateway (SLG) application can be installed as a co-resident or standalone configuration, SIP Line UEXT operation and configuration is the same in either situation. For the purposes of this application note, the SLG was installed using a standalone server. The 67IP-T10 telephone was configured with system default settings for a standard 3rd party SIP telephone, except where a unique entry was required (e.g., telephone number). A subset of default call features was tested including, but not limited to:

- Call Forward (busy, no answer, unconditional)
- Transfer (attended and unattended)
- Conference (3 party)
- Call Park

In addition, a range of voice codec's were tested. Basic 67IP-T10 telephone IP and feature configuration prior to registration on the Communication Server 1000E was tested. Default 67IP-T10 settings were used, except where highlighted.

2.2. Test Results

The following observations were made during 67IP-T10 testing.

- **67IP-T10 does not have an answer supervision feature when using hands free mode.**
When a call is placed to the 67IP-T10 and the call is answered using the Line 1 key, the caller's voice will be heard on loudspeaker. When the caller hangs up, the 67IP-T10 phone responds with "*busytone*" for approx. 30 seconds, and then sounds "*number unobtainable*" tone for approx. 45 seconds, then goes silent. The LED on the speaker key stays illuminated. On subsequent incoming calls, the 67IP-T10 will not sound an alerting tone; however the Line 1 LED will flash. This operation was confirmed as normal behavior by Bittel.
- **G.729 codec not interworking with TDM or UNISTim phones.**

If the 67IP-T10 is configured to only use the G.729 codec & calls are made to UNISlim or TDM telephones, the calls fail with a SIP error 403 (= forbidden). Calls to/from a SIP telephone work as expected.

- **67IP-T10 call transfer fails.**

If an established call on a 67IP-T10 telephone is transferred to another telephone, using the **Hold** and **Flash** keys, the call drops and “*dial tone*” is heard. This problem occurs for both attended and unattended transfers.

- **DTMF over IP results vary depending on which DTMF signaling method is configured.**

The 67IP-T10 default setting is RFC2833. INFO-type & DTMF-relay settings may need to be set for calls over TDM trunks or to particular IVR equipment.

- **CS 1000E feature Call Forward Busy Allowed does not work.**

This CS1000E feature is configured in the telephone class of service, when this is set to “FBA”, the caller gets ‘*busytone*’ if they call a 67IP-T10 telephone which has an established call. A workaround is to use the 67IP-T10’s built in Call Forward Busy feature (see 67IP-T10 VOIP Page → Advanced Settings page).

- **Conferencing feature requires a second line**

The 67IP-T10 cannot use the CS1000E’s built in conferencing service and requires a second SIP line to enable this feature. This release of CS1000E software only allows one SIP line per user.

2.3. Support

The 67IP-T10 is manufactured by Bittel Electronics and the contact details are as follows:

Bittel Electronics
No.1 Rizhao North Road,
Rizhao,
Shandong,
China, 276800
Tel: +86 633 2212125
Fax: +86 633 2212118
Email: sales@bittelcom.com
Web site: www.bittelcom.com

3. Reference Configuration

The following diagram shows the network configuration used for all test cases in the Test Plan.

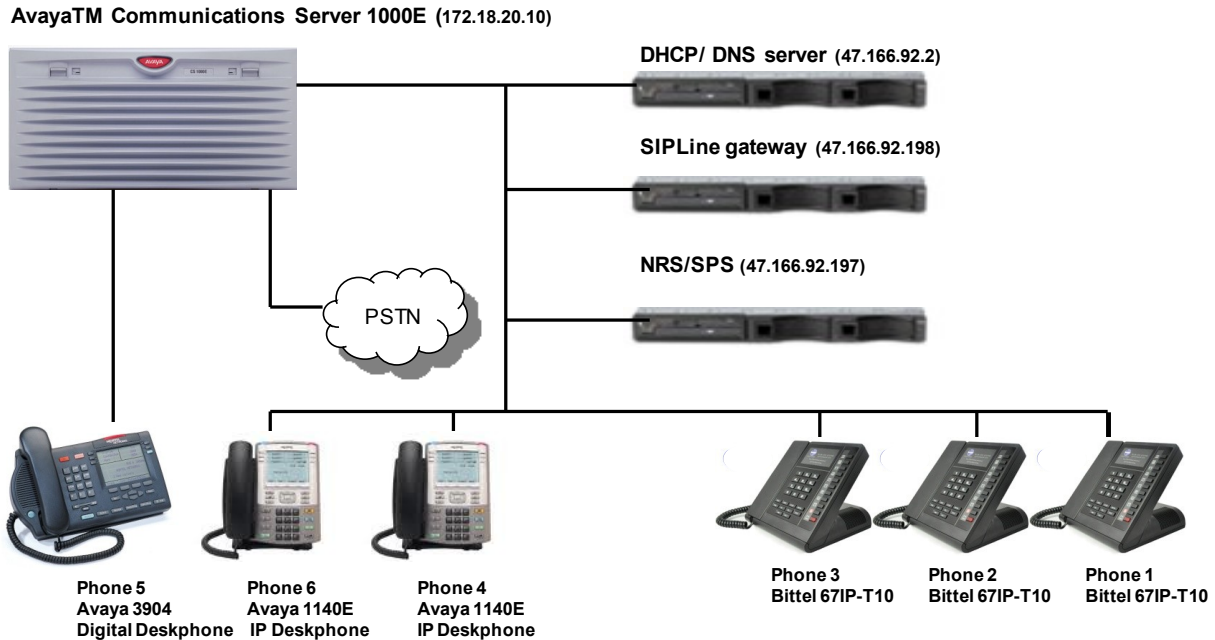


Figure 1: Test Configuration for Avaya Communication Server 1000E and Bittel 67IP-T10

4. Equipment and Software Validated

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

Hardware Component	Software / Firmware Version
Avaya Communication Server 1000E (Call Processor Pentium Mobile)	Avaya Communication Server 1000E 06.00R / 6.00.20.00 (PSWV 100 with latest Patches and Deplist)
Avaya Communication Server 1000E Media Gateway	CSP Version: MGCC AO01 MSP Version: MGCM AB01 APP Version: MGCA AA07 FPGA Version: MGCF AA15 BOOT Version: MGCB AL60 DSP1 Version: DSP1 AB01 DSP2 Version: DSP2 AB01
Avaya 1100 series IP Telephones <ul style="list-style-type: none">• 1140e• 1120e Avaya M3900 series Telephones <ul style="list-style-type: none">• M3904 Avaya 1100 series SIP Telephone <ul style="list-style-type: none">• 1140	0625C7M (UNISTim 4.2) 0624C7M (UNISTim 4.2) Version: AA93 SIP 2.2 - 1120 2.02.21.00
Bittel Kingstar BT-2008 SIP Phones (model 67IP-T10)	Ver 0.43.018

5. Configure Avaya Communication Server 1000E SIP Line

This section describes the steps required to configure the Avaya CS1000E SIP Line application using CS 1000 Element Manager. A command line interface (CLI) option is also available to provision the SIP Line application on CS 1000E system. For detailed information, see item [6] in **Section 9** of this document.

5.1. Prerequisite

A Communication Server 1000E application server which has been:

- Installed with CS 1000 Release 6.0 Linux Base
- Joined CS 1000 Release 6.0 Security Domain
- Deployed with SIP Line Application

For information on installing and configuring Communication Server 1000E, see item [3] in **Section 9** of this document.

5.2. Configure Codec's

It is necessary to confirm the required voice codec's are selected and relevant parameters are correct. Log in to Element Manager (for detailed information on this task, see item [3] in **Section 9**) and navigate to the **System → IP Network → IP Telephony Nodes** page. Click on the node number and select the **Voice Gateway (VGW) and Codecs** property page. The following screen shot shows the codec settings used during the 67IP-T10 compliance test.

Managing: 172.18.20.12 Username: admin
System > IP Network > IP Telephony Nodes

Node ID: 1 - Voice Gateway (VGW) and Codecs

General | **Voice Codecs** | Fax

Voice Codecs

Codec G711: ☒ Enabled (required)
Voice payload size: 20 (milliseconds per frame)
Voice Payout (jitter buffer) delay: 40 80 (milliseconds)
Nominal Maximum
Maximum delay may be automatically adjusted based on Nominal settings.
☐ Voice activity detection (VAD)

Codec G729: ☒ Enabled
Voice payload size: 20 (milliseconds per frame)
Voice Payout (jitter buffer) delay: 40 80 (milliseconds)
Nominal Maximum
Maximum delay may be automatically adjusted based on Nominal settings.
☐ Voice activity detection (VAD)

Codec G723.1: ☒ Enabled
Nominal settings.
☐ Voice activity detection (VAD)

Codec G723.1: ☒ Enabled
Voice payload size: 30 (milliseconds per frame)
Voice Payout (jitter buffer) delay: 60 120 (milliseconds)
Nominal Maximum
Maximum delay may be automatically adjusted based on Nominal settings.
Coding rate: 5.3 (kbps)

* Required Value.

Note: Changes made on this page will NOT be transmitted until the Node is also saved.

Save Cancel

Figure 2: CS 1000E codec selection.

5.3. SIP Line Parameters

In Element Manager, navigate to **Customers** → (*customer number*) and click on **SIP Line Service**. The **Root Domain** entry is typically the system NRS SIP Domain.

Managing: 172.18.20.12 Username: admin
Customers » Customer 00 » Edit » SIP Line Service

SIP Line Service

☒ SIP Line Service

Root domain: DPP.NORTEL *

User agent DN prefix: 15

Optional features: ☐ Nortel Multimedia

*Required Value

Figure 3: CS 1000E SIP Line Service activation.

In Element Manager, navigate to **System** → **IP Networks** → **IP Telephony Nodes** and select **SIP Line Configuration Details**. The **SIP Domain** value is as previously entered. The **SLG SIP Local SIP Port** value is **5070**. Save and synchronize to ensure the new configuration is retained.

Managing: 172.18.20.12 Username: admin
System » IP Network » IP Telephony Nodes

Node ID: 1 - SIP Line Configuration Details

General | SIP Line Gateway Settings | SIP Line Gateway Service

SIP Line Gateway Application: ☒ Enable gateway service on this Node

General

SIP Domain name: dpp.nortel *

SLG endpoint name: cores2

SLG Group ID:

SLG Local Sip Port: 5070 (1 - 65535)

SLG Local Tls Port: 5071 (1 - 65535)

Virtual Trunk Network Health Monitor

☒ Monitor IP Addresses (listed below)

Information will be captured for the IP addresses listed below.

Monitor IP: Add

Monitor addresses: Remove

SIP Line Gateway Settings

Security Policy: Security Disabled

Number of Byte Re-negotiation: 0

Options: ☐ Client Authentication
☐ x509 Certificate Authentication Enabled

* Required Value.

Note: Changes made on this page will NOT be transmitted until the Node is also saved.

Save Cancel

Figure 4: CS 1000E SIP Line configuration.

When finished configuring the SIP Line application, use the following screenshot to confirm the procedure was successful and that the application is enabled.

Managing: 172.18.20.12 Username: admin
System » IP Network » IP Telephony Nodes

IP Telephony Nodes

Click the Node ID to view or edit its properties.

Add... Import... Export... Delete				Print Refresh	
<input type="checkbox"/> Node ID ▲	Components	Enabled Applications	ELAN IP	TLAN IP	Status
<input type="checkbox"/> 1	1	SIP Line, LTPS, PD, Gateway (SIPGw, H323Gw)	-	47.166.92.198	Synchronized
Show: <input checked="" type="checkbox"/> Nodes <input type="checkbox"/> Component Servers and Cards					

Figure 5: CS 1000E Node configuration completed.

5.4. Configure Avaya Communication Server 1000E SIP Line Extension(s)

Before registering SIP telephones, it is necessary to manually configure the CS 1000E with (at a minimum) the following settings for each SIP telephone extension planned:

- SIP User Name (normally same as the telephone number)
- Directory Number (the users telephone number)
- Universal Agent Directory Number (UADN – a unique identifier)
- Station Control Password (SCPW – nominally the telephone number)

CS 1000E Element Manager Phones provisioning is the preferred way to configure telephones. Select the **Phones** link (highlighted in the next screenshot) from the Element Manager Navigation sidebar and click the **Add** button. This brings up the **New Phones** screen. As values may differ between installations, in this configuration the following values were used:

- **Number of phones** is 1
- **Customer** is 0

Click the **Phone Type** radio button and select **UEXT-SIPL → Universal Extension SIPL** from the drop down list (see highlighted area in the next screenshot). Default values were used for the remaining parameters on this property page.

The screenshot displays the 'New Phones' configuration page in the CS 1000E Element Manager. The left sidebar shows the navigation menu with 'Phones' highlighted. The main content area includes the following fields and options:

- Number of phones:** 1 (range 1-100)
- Customer:** 0
- Type:** Phone Type (selected), Template, Copy From TN
- Options:**
 - ☐ Default value for DES
 - ☐ Default value for ZONE (Only applicable to IP phone types)
 - ☐ Default value for Node Id (Only applicable to UEXT-SIPL phone types)
 - ☐ Automatically assign DN starting DN
 - ☐ Automatically assign TN starting TN

The 'Preview' button is circled in red at the bottom right of the form.

Figure 6: CS 1000E Add a New Telephone.

Click on the **Preview** button (highlighted) to bring up the **Phone Details** page. Values chosen in the previous page will be propagated and default values will be assumed for several options. The following values were used on this page:

- **Terminal Number** = 96 0 0 20
- **Designation** = Bittel
- **Zone** = 1
- **Sip User Name** = 4052
- **Node Id** = 1

Click on **Optional Features Max Client Count**.

- **SIPN** = 0
- **SIP3** = 1
- **FMCL** = 0
- **TLSV** = 0

When finished populating the required values, scroll down to the **Features** property page (highlighted in next figure).

CS 1000 ELEMENT MANAGER Help | Logout

General Properties

Customer Number: *

Terminal Number: *

Designation: *

Zone: *

SIP User Name: *

Node Id: *

Super User: ☐

Optional Features: ☒ Max Client Count

SIPN:

SIP3:

FMCL:

TLSV:

Features

Top

Figure 7: CS 1000E Phone Details.

The features property page (see below) allows setting of telephone features such as call forwarding and presentation of caller line ID. Many features have a default value (e.g., allowed/denied), some require numeric parameters.

The screenshot shows the 'CS 1000 ELEMENT MANAGER' interface. On the left is a navigation sidebar with a tree view containing categories like 'UCM Network Services', 'Home', 'Links', 'System', 'Customers', and 'Routes and Trunks'. The 'Keys' link under 'System' is circled in red. The main content area is titled 'Features' and contains a table with the following data:

Feature	Description	Value
AAA	Automatic Answer Back	Denied
ABDA	CDR on Abandoned Calls	Denied
ADAY	Alternate Redirection by Day Option	
ADV	Data Port Verification	Denied

Figure 8: CS 1000E Phone Features.

The following values and settings were used in this test configuration:-

Feature	Description	Value
CFXA	Call Forward External	Allowed
CNDA	Call Party Name Display	Allowed
DDGA	Present/Restrict Calling Number	Allowed
DNDA	Dialed Number Name Display	Allowed
FBA	Call Forward Busy for DID Calls	Allowed
FNA	Call Forward No Answer	Allowed
HTA	Hunting	Allowed
NCOS	Network Class of Service	0
SCPW	Station Control Password	4052
MWA	Message Waiting Class of Service	Allowed
TGAR	Trunk Group Access Restriction	0

Scroll down to the **Keys** property page (see **Figure 9**). Select **SCR – Single Call Ringing** from the **Key 0 - Key Type** drop down list, this will enable further **Key Value** property settings on the right side of the page. For this configuration, the value 4052 was chosen as the telephone **Directory Number**. Click on the **Multiple Appearance Redirection Prime (MARP)** checkbox and type a user name and choose the required **Display Format** and **Language** character options. Select the **Key 1 - Key Type** drop down list and choose **HOT_U – Hotline (Universal)**. In the **UADN** box, the value is a concatenation of the **User agent DN prefix** (see section 5.3-figure 3, value = 15 in this example) and the telephone **Directory Number** (value = 4052 in this case).

The screenshot shows the 'CS 1000 ELEMENT MANAGER' interface. On the left is a sidebar with a tree view containing categories like 'UCM Network Services', 'System', 'Customers', 'Routes and Trunks', 'Dialing and Numbering Plans', 'Phones', 'Tools', and 'Security'. The main area is titled 'Keys' and contains a table with columns 'Key No.', 'Key Type', and 'Key Value'. Key 0 is selected, showing its configuration details on the right. Key 0's 'Key Type' is 'SCR - Single Call Ringing' and its 'Key Value' includes 'Directory Number' 4052, a checked 'Multiple Appearance Redirection Prime (MARP)' checkbox, and fields for 'First Name' (Bittel), 'Last Name' (Set1), 'Display Format' (First, Last), and 'Language' (Roman). Key 1's 'Key Type' is 'HOT_U - Hotline(Universal)' and its 'Key Value' includes 'UADN' 154052. Other keys (2-6) are 'NUL - Unassigned'. At the bottom right are buttons for 'Print', 'Validate', 'Finish', and 'Cancel'.

Figure 9: CS 1000E Phone Keys.

When finished entering all required values, scroll down to the page end and press the **Validate** button. If no errors are reported, click on the **Save** button. This completes the CS 1000E SIP Line configuration for Bittel BT-67IP-T10 SIP telephones.

6. Configure the Bittel 67IP-T10 telephone

The Bittel 67IP-T10 telephone requires an Internet web browser to configure the telephone parameters for correct operation with a CS 1000E. No particular HTML browser is specified in the 67IP-T10 User Guide, Microsoft Internet Explorer 8 and Firefox 3.5 have been used successfully. Please refer to the phone User Guide (item [7] in **Section 9** of this document) for complete instructions on how to operate the 67IP-T10 telephone and a detailed listing of all available telephone features. The following procedure will describe how to register a 67IP-T10 with a CS 1000E.

The 67IP-T10 lacks a display, but does provide a facility to speak the telephone IP address. Power up the 67IP-T10, either using the supplied power adapter or using PoE from an Ethernet switch. If not already done, connect the 67IP-T10 to an Ethernet switch which is capable of routing IP packets to the SLG (see **Figure 1**). When the telephone has completed the boot sequence, press the **Mute** key, the 67IP-T10 IP address (either statically configured or assigned by a DHCP server) will be spoken via the 67IP-T10 loudspeaker (in English).

Launch the web browser and set the URL to `http://<67IP-T10 IP address>`. Click the **Go** button and the 67IP-T10 will return with a logon page. The default user name is **admin**; the default password is **admin**. Directly after log in, the basic status page is presented (see next screenshot).

BASIC

Network

VOIP

PHONE

MAINTENANCE

SECURITY

LOGOUT

BASIC

STATUS

WIZARD

CALL LOG

MMI SET

Network

WAN		LAN	
Connect Mode	Static	IP Address	192.168.10.1
MAC Address	00:09:45:54:f1:2c	DHCP Server	ON
IP Address	47.166.92.186		
Gateway	47.166.92.190		

Phone Number

SIP LINE 1	4053@47.166.92.209:5070	Registered
SIP LINE 2	@:5060	Unapplied
IAX2	@:4569	Unregistered

Version: VOIP PHONE V1.7.197.110 Apr 28 2010 19:44:21

Figure 10: 67IP-T10 basic status page.

If a DHCP server is operational, the 67IP-T10 will automatically request and receive an IP address, Subnet Mask and Gateway values; and possibly other options (depending on the DHCP server capabilities and configuration). If it is required, the 67IP-T10's IP settings can be configured manually by selecting the **Wizard** tab, then selecting options and populating desired values in the dialog boxes. The following screenshots illustrate the settings used in the test lab. First select **Static IP Mode** and then click on **NEXT**.

Network Mode Select	
Static IP MODE	<input checked="" type="radio"/>
DHCP MODE	<input type="radio"/>
PPPoE MODE	<input type="radio"/>
<div> <div>BACK</div> <div>NEXT</div> </div>	

Figure 11: 67IP-T10 WIZARD Network Mode Select page.

Although not directly required for 67IP-T10 operation, a DNS server is normally configured for correct CS 1000E function and the IP address and domain names for the various system elements will have been populated. The 67IP-T10 uses IP addresses for registration. Click **NEXT** to move to the **Static IP Set** page.

Static IP Set	
Static IP Address	47.166.92.187
Netmask	255.255.255.192
Gateway	47.166.92.190
DNS Domain	galctlab.com
Primary DNS	47.166.92.2
Alter DNS	47.166.113.37
<div> <div>BACK</div> <div>NEXT</div> </div>	

Figure 12: 67IP-T10 WIZARD Static IP Set page.

For this test configuration, the following values were used on the **Static IP Set** page :

Parameter	Value	Description/Information
Static IP address	47.166.92.197	Telephone set IP address
Netmask	255.255.255.192	Subnet Mask for the LAN segment
Gateway	47.166.92.190	Gateway IP address for routing calls
DNS Domain	galctlab.com	Lan domain, not the SIP domain
Primary DNS	47.166.92.2	Primary DNS to resolve system names
Alter DNS	47.166.113.37	Secondary DNS is not mandatory

Click on **NEXT** to bring up the next screen (**Simple SIP set**).

BASIC

STATUS WIZARD CALL LOG MMI SET

Simple SIP Set

Display Name	Bittel Set1
Server Address	47.166.92.201
Server Port	5070
User Name	4052
Password	••••
Phone Number	4052
Enable Register	<input checked="" type="checkbox"/>

BACK NEXT

Figure 13: 67IP-T10 WIZARD Simple SIP Set page.

The following values were used on the **Simple SIP Set** page:

Parameter	Value	Description/Information
Display Name	Bittel Set1	User name, as set in figure 12
Server Address	47.166.92.201	Node IP address of server running SIP Line service
Server Port	5070	Must be port 5070 for SIP Line service
User Name	4052	SIP User Name, as in figure 10
Password	4052	Station control Password, as in figure 11
Phone Number	4052	Directory number, as set in figure 12
Enable Register	Checked	Set must register for SIP Line services

Populate the fields with the values and then click on **NEXT**. A summary table with the important WAN and SIP values is presented (see below), click on **Finish** to make the changes permanent. There will be a short delay while the 67IP-T10 is reconfigured and the web session will end.

BASIC	
<div> <div>STATUS</div> <div>WIZARD</div> <div>CALL LOG</div> <div>MMI SET</div> </div>	
WAN	
Connect Mode	STATIC
Static IP Address	47.166.92.186
Gateway	47.166.92.190
SIP	
Register Server	47.166.92.201
User Name	4052
PhoneNumber	4052
Register	ON
<div> <div>BACK</div> <div>Finish</div> </div>	

Figure 14: 67IP-T10 WIZARD Summary table.

The 67IP-T10 basic status page (see **Figure 10**) contains a menu sidebar with dedicated sections for all important telephone configuration screens. The **Network**, **VOIP** and **PHONE** sections can be used by advanced users to directly configure the 67IP-T10 without making use of the **WIZARD** and some advanced SIP configuration options are only available in these pages.

The 67IP-T10 **Phone** page (below) is primarily used to select the preferred codec list. Note that while CS 1000E does not support G.726 or G.722, the SDP transparency feature will ensure the complete codec list is conveyed to the far end during call setup.

PHONE

DSP	CALL SERVICE	DIGITAL MAP	PHONE BOOK	FUNCTION KEY
DSP Configuration				
First Codec	g711Ulaw64k ▼	Second Codec	g711Alaw64k ▼	
Third Codec	g729 ▼	Fourth Codec	g723 ▼	
Fifth Codec	g726-32 ▼	Sixth Codec	g722 ▼	
Handdown Time	200 ms	Default Ring Type	Type 1 ▼	
Input Volume	3 (1-9)	Output Volume	9 (1-9)	
Handfree Volume	9 (1-9)	Ring Volume	5 (1-9)	
G729 Payload Length	20ms ▼	Signal Standard	United Kingdom ▼	
G722 Timestamps	160/20ms ▼	G723 Bit Rate	6.3kb/s ▼	
VAD	<input type="checkbox"/>	Dtmf Payload Type	101 (96-127)	
<div style="border: 1px solid #0056b3; padding: 2px 10px; display: inline-block; font-weight: bold;">APPLY</div>				

Figure 15: 67IP-T10 Phone page.

67IP-T10 Codec's were chosen to match the CS1000E codec configuration (see **Figure 2**) by selecting the required values from the **First** through **Sixth Codec** drop down lists on the **DSP Configuration** page. The following values were used for the remaining parameters:

Parameter	Value	Parameter	Value
Hand down	200 mS	Default ring type	Type 1
Input Volume	3	Output Volume	9
Handsfree Volume	9	Ring Volume	5
G.729 Payload length	20 mS	Signal standard	United Kingdom
G.722 Timestamps	160/200 mS	G.723 Bit Rate	6.3 kb/S
VAD	unchecked	DTMF Payload Type	101

VOIP

SIP
IAX2
STUN
DIAL PEER

SIP Line Select

SIP 1 ▼
Load

Basic Setting

Register Status	Registered	Display Name	Bittel set 1
Server Name	cores2	Proxy Server Address	
Server Address	47.166.92.201	Proxy Server Port	
Server Port	5070	Proxy Username	
Account Name	4052	Proxy Password	
Password	••••	Domain Realm	dpp.nortel
Phone Number	4052	Enable Register	<input checked="" type="checkbox"/>

APPLY

Advanced Set

Advanced SIP Setting

Register Expire Time	32	seconds	Forward Type	Off ▼
NAT Keep Alive Interval	60	seconds	Forward Phone Number	
User Agent	Voip Phone 1.0			
Signal Key		Server Type	NORTEL ▼	
Media Key		DTMF Mode	DTMF_RFC2833 ▼	
Local Port	5060	RFC Protocol Edition	RFC3261 ▼	
Ring Type	Default ▼		Transport Protocol	UDP ▼
Hot Line Number		RFC Privacy Edition	NONE ▼	
Conference Number		Subscribe Expire Time	300	seconds
Transfer Expire Time	0	seconds	Enable Conference Number	<input type="checkbox"/>
Enable Subscribe	<input type="checkbox"/>		Enable DNS SRV	<input type="checkbox"/>
Enable Keep Authentication	<input type="checkbox"/>		Click To Talk	<input type="checkbox"/>
NAT Keep Alive	<input type="checkbox"/>		Signal Encode	<input type="checkbox"/>
Enable Via rport	<input checked="" type="checkbox"/>		Rtp Encode	<input type="checkbox"/>
Enable PRACK	<input type="checkbox"/>		Enable Session Timer	<input type="checkbox"/>
Long Contact	<input type="checkbox"/>		Answer With Single Codec	<input type="checkbox"/>
Enable URI Convert	<input checked="" type="checkbox"/>		Auto TCP	<input type="checkbox"/>
Dial Without Register	<input type="checkbox"/>		Enable Strict Proxy	<input type="checkbox"/>
Ban Anonymous Call	<input type="checkbox"/>		Enable GRUU	<input type="checkbox"/>
			Enable Displayname Quote	<input type="checkbox"/>

APPLY

Figure 16: 67IP-T10 VOIP page.

The previous screenshot shows the 67IP-T10 **VOIP** page (accessible from the basic status page - **Figure 10**). Note, **IAX2**, **STUN** or **Dial Peer** settings were left at default values as these are not required for CS 1000E operation. The following values were used initially; alterations to these values will be highlighted in the particular test case where they occur. **SIP Line Select → Basic Line Settings**.

Parameter	Value		Parameter	Value
Server Name	Cores2		Domain Realm	dpp.nortel
Proxy values	All unset			

Remaining settings are propagated from Basic setup (**Figure 17**). Click on the **Apply** button to save these settings. **SIP Line Select → Advanced Line Settings**. Click on the **Advanced Set** button to bring up the advance settings page.

Parameter	Value		Parameter	Value
Register Expire Time	32		Forward Type	Off
NAT Keep Alive	60		Server Type	Nortel
DTMF Mode	DTMF_RFC2833		RFC Protocol Edition	RFC3261
Transport Protocol	UDP		RFC Privacy Edition	None
Subscribe Expire Time	300			

Click on the **Apply** button to save the settings.

Note: Only one SIP line was tested, settings are independent for each SIP line. 67IP-T10 operation using Network Address Translation was not tested. Unset checkboxes were not enabled during the testing.

7. Verification Steps

To confirm successful configuration and registration of the 67IP-T10 telephone with the CS 1000E SIP Line proxy either of the following two actions is sufficient.

- Use a web browser to access the 67IP-T10. On successful log in, the Basic information page returned will indicate the telephone registration status and the IP address of the SIP Line proxy server. See **Figure 10** for an example.
- Log in to the CS 1000E SIP Line proxy server using the administration terminal. Issue the command **slgSetShowAll**; examine the results to ensure the phone is registered. Use the **slgSetShowbyUID** command for detailed information.

```
[nortel@cores2 ~]$ slgSetShowAll

=== VTRK ===
UserID          TN          Clients  Calls  SetHandle
-----
          4053      096-00-00-30          1      0  0x9e69120
          4052      096-00-00-24          1      0  0x9e64a60

Total User Registered = 2

[nortel@cores2 ~]$ slgSetShowByUID 4053

=== VTRK ===
UserID          TN          Clients  Calls  SetHandle
-----
          4053      096-00-00-30          1      0  0x9e69120
StatusFlags = Registered Controlled KeyMapDwld SSD
FeatureMask =
CallProcStatus = -1

Current Client = 0, Total Clients = 1

== Client 0 ==
IP:Port:Trans = 47.166.92.186:5060:udp
Type          = SIP3
UserAgent     = Voip Phone 1.0
x-nt-guid     = 00094554f12c
RegDescrip    =
RegStatus     = 1
PbxReason     = OK
SipCode       = 200
Expire        = 32
Contact       = sip:4053@47.166.92.186:5060
```

Figure 17: 67IP-T10 registration details.

8. Conclusion

The Bittel 67IP-T10 is a low cost basic SIP phone intended primarily for the hospitality industry. It lacks an alphanumeric display, but provides a web interface for phone programming. There is a built in Ethernet switch (with optional DHCP services) to provide network access for PC's, phone and PC share the same network, reducing costs.

When configured on a Avaya Communication Server 1000E, it provides similar services and features to an analog telephone, but uses SIP protocol over IP and thus operates over an Ethernet network rather than requiring point-to-point wiring,. In operation, it has most of the features required to support day to day business activities. The ten user definable keys could be used to program DTMF sequences to activate/deactivate features such as 'Call Forward Unconditional, 'Call Pickup'. The 67IP-T10's Message Waiting Indicator is compatible with Avaya™ Modular Messaging installations.

9. References

The following documents and external references may be helpful in understanding operation of particular CS1000 features and may provide more detailed information on international SIP standards.

- [1] A descriptive document on SIP services offered on user agents or PBX's. Session Initiation Protocol Service Examples - draft-ietf-sipping-service-examples-12, SIPPING Working Group, Internet-Draft, 7/24/2007, available at <http://tools.ietf.org/wg/sipping/draft-ietf-sipping-service-examples/draft-ietf-sipping-service-examples-13.txt>.
- [2] Information on how to install and configure Linux and Telephony applications:- Avaya Communication Server 1000E – Documentation Library – Document NN43001-315 (*Linux Platform Base and Applications Installation and Commissioning*)
- [3] The necessary procedures and guidelines bring a CS1000E system online:- Avaya Communication Server 1000E – Documentation Library – Document NN43041-310 (*Communication Server 1000E Installation and Commissioning*).
- [4] System Management platform (UCM) provides security, software deployment and other services to CS1000E elements: Avaya Communication Server 1000E – Documentation Library – Document NN43001-116 (*Unified Communications Management Common Services Fundamentals*).
- [5] For information on configuring and operating SIP Line services on the CS1000E, see the following document:- Avaya Communication Server 1000E – Documentation Library – Document NN43001-508 (*Configuration SIP Line Fundamentals*).
- [6] A complete and detailed account of all CS1000E telephony features and services can be found in the following document : Avaya Communication Server 1000E – Documentation Library – Document NN43001-106-B1 through NN43001-106-B6 (*Communication Server 1000 Features and Services Fundamentals - Book 1 through Book 6*).
- [7] The installation and operating instructions for Bittell 67IP-T10 telephone can be found in the following document: BT-2008 (67-T-A) SIP Phone User Guide.

10. Appendix

10.1. Linux Base software and installed Applications

Product Release: 6.00.18.00

Base Applications

base	6.00.18
NTAFS	6.00.18
sm	6.00.18
Jboss-Quantum	6.00.18
lhmonitor	6.00.18
kcv	6.00.18
dfoTools	6.00.18
cppmUtil	6.00.18
oam-logging	6.00.18
dmWeb	6.00.18.62
baseWeb	6.00.18
ipsec	6.00.18
Snmp-Daemon-TrapLib	6.00.18
tap	6.00.18
EmCentralLogic	6.00.18

Application configuration: CS+SS+NRS+EM

Packages:

CS+SS+NRS+EM

Configuration version: 6.00.18

cs	6.00.R
dbcom	6.00.18.65
cslogin	6.00.18
sigServerShare	6.00.18.62
csv	6.00.18.65
tps	6.00.18.65
vtrk	6.00.18.65
pd	6.00.18.62
sps	6.00.18.63
ncs	6.00.18
gk	6.00.18.65
nrsm	6.00.18
nrsmWebService	6.00.18
managedElementWebService	6.00.18
emWeb_6-0	6.00.18
csmWeb	6.00.18
bcc_6-0	6.00.18
ftpkg	6.00.18
cs1000WebService_6-0	6.00.18

10.2. Installed Linux Base and Application Patches and Service Updates

Product Release: 6.00.18.00

In system patches: 4

PATCH#	NAME	RPM
2	p29703_1	nortel-cs1000-shared-ssSubagent-6.00.18-00.i386
3	p29407_1	nortel-cs1000-cs-6.00.R.100-00.i386
15	p28774_1	nortel-cs1000-Jboss-Quantum-6.00.18.00-00.i386
16	p28797_1	nortel-cs1000-Jboss-Quantum-6.00.18.00-00.i386

In System service updates: 21

PATCH#	NAME
0	ntp-4.2.4p8-1.el5.pp.i386.000
1	nortel-cs1000-csv-6.00.18.65-04.i386.000
4	nortel-cs1000-linuxbase-6.00.18.65-03.i386.001
5	nortel-cs1000-patchWeb-6.00.18.65-01.i386.001
7	nortel-cs1000-bcc_6-0-6.00.18.65-02.i386.000
9	nortel-cs1000-cs1000WebService_6-0-6.00.18.65-02.i386.
10	nortel-cs1000-ftrpkg-6.00.18.65-02.i386.000
12	nortel-cs1000-sps-6.00.18.63-00.i386.000
13	nortel-cs1000-gk-6.00.18.65-01.i386.000
14	nortel-cs1000-tps-6.00.18.65-19.i386.000
17	nortel-cs1000-vtrk-6.00.18.65-76.i386.000
22	nortel-cs1000-shared-general-6.00.18.62-00.i386.000
23	nortel-cs1000-shared-pbx-6.00.18.62-00.i386.000
24	nortel-cs1000-emWeb_6-0-06.00.18.63-01.i386.001
25	nortel-cs1000-pd-6.00.18.62-00.i386.000
26	nortel-cs1000-nrsm-6.00.18.62-00.i386.000
28	nortel-cs1000-dmWeb-6.00.18.62-00.i386.001
30	nortel-cs1000-csmWeb-6.00.18.62-00.i386.001
31	nortel-cs1000-auth-6.00.18.62-00.i386.000
32	nortel-cs1000-ISECSH-6.00.18.62-00.i386.000
34	nortel-cs1000-dbcom-6.00.18.65-01.i386.001

The following SP is in service: Service_Pack_Linux_6.00_18_20110104.nt1

10.3. Installed call server dependency lists

VERSION 4121

RELEASE 6

ISSUE 00 R +

DepList 1: core Issue: 02 (created: 2011-01-10 09:38:29 (est))

IN-SERVICE PEPS

PAT#	CR #	PATCH REF #	NAME	DATE	FILENAME
SPECINS					
000	Q02033000	ISS1:1of1	p28736_1	04/02/2011	p28736_1.cpl
001	Q02071451	ISS1:1OF1	p29164_1	04/02/2011	p29164_1.cpl
002	Q02129706	ISS1:1OF1	p29842_1	04/02/2011	p29842_1.cpl
003	wi00826342	ISS2:1OF1	p30471_2	04/02/2011	p30471_2.cpl
004	Q02093188	ISS1:1OF1	p29352_1	04/02/2011	p29352_1.cpl
005	Q02097405	ISS1:1OF1	p24463_1	04/02/2011	p24463_1.cpl
006	Q01987279-02	ISS1:1OF1	p28416_1	04/02/2011	p28416_1.cpl
007	Q02076740	ISS1:1OF1	p29154_1	04/02/2011	p29154_1.cpl
008	Q02029209	ISS1:1OF1	p28469_1	04/02/2011	p28469_1.cpl
009	Q02024455-01	ISS1:1OF1	p28717_1	04/02/2011	p28717_1.cpl
010	Q01983521-04	ISS1:1OF1	p27616_1	04/02/2011	p27616_1.cpl
011	Q02035822-01	ISS1:1OF1	p29212_1	04/02/2011	p29212_1.cpl
012	Q01986974-05	ISS1:1OF1	p28821_1	04/02/2011	p28821_1.cpl
013	Q02049121-01	ISS1:1OF1	p28819_1	04/02/2011	p28819_1.cpl
014	Q02097631	ISS1:1OF1	p28328_1	04/02/2011	p28328_1.cpl
015	Q02064793-06	ISS1:1OF1	p27947_1	04/02/2011	p27947_1.cpl
016	Q01976701-01	ISS1:1OF1	p28211_1	04/02/2011	p28211_1.cpl
017	Q02092223	ISS1:1OF1	p29343_1	04/02/2011	p29343_1.cpl
018	Q02043398	ISS1:1OF1	p28869_1	04/02/2011	p28869_1.cpl
019	Q02038440	ISS1:1OF1	p28674_1	04/02/2011	p28674_1.cpl
020	Q02100965	ISS1:1OF1	p29450_1	04/02/2011	p29450_1.cpl
021	Q02040015	ISS1:1OF1	p28657_1	04/02/2011	p28657_1.cpl
022	Q02102219-01	ISS1:1OF1	p29464_1	04/02/2011	p29464_1.cpl
023	Q02035396	ISS1:1OF1	p28675_1	04/02/2011	p28675_1.cpl
024	Q02020734-02	ISS1:1OF1	p28668_1	04/02/2011	p28668_1.cpl
025	Q02077909	ISS1:1of1	p29272_1	04/02/2011	p29272_1.cpl
026	Q02064503	ISS1:1OF1	p29196_1	04/02/2011	p29196_1.cpl
027	Q02041981	p28695_1	p28719_1	04/02/2011	p28719_1.cpl
028	Q02122052	ISS1:1OF1	p29726_1	04/02/2011	p29726_1.cpl
029	Q02135191	ISS1:1OF1	p29935_1	04/02/2011	p29935_1.cpl
030	Q02041702	ISS1:1OF1	p28698_1	04/02/2011	p28698_1.cpl
031	Q02041385-02	ISS1:1OF1	p29032_1	04/02/2011	p29032_1.cpl
032	Q02086333	ISS1:1OF1	p29262_1	04/02/2011	p29262_1.cpl
033	Q02077848-01	ISS1:1OF1	p29320_1	04/02/2011	p29320_1.cpl
034	Q02034783-01	p28596	p28594_1	04/02/2011	p28594_1.cpl
035	Q02156053	ISS1:1OF1	p30176_1	04/02/2011	p30176_1.cpl
036	Q02007476	ISS1:1OF1	p28031_1	04/02/2011	p28031_1.cpl
037	Q02134312-01	ISS1:1OF1	p30123_1	04/02/2011	p30123_1.cpl
038	Q02017013-01	ISS1:1OF1	p28313_1	04/02/2011	p28313_1.cpl
039	Q02114752	ISS1:1OF1	p29718_1	04/02/2011	p29718_1.cpl
040	Q02110973	ISS1:1OF1	p29690_1	04/02/2011	p29690_1.cpl
041	Q02107402	ISS1:1of1	p29512_1	04/02/2011	p29512_1.cpl
042	Q02100914	ISS1:1OF1	p28597_1	04/02/2011	p28597_1.cpl
043	Q02036885-02	ISS1:1OF1	p28857_1	04/02/2011	p28857_1.cpl

044	Q02096711	ISS1:1OF1	p29714_1	04/02/2011	p29714_1.cpl
045	Q02079849	ISS1:1OF1	p29238_1	04/02/2011	p29238_1.cpl
046	Q02024135-04	ISS1:1OF1	p28381_1	04/02/2011	p28381_1.cpl
047	Q01782930-01	ISS1:1OF1	p24964_1	04/02/2011	p24964_1.cpl
048	Q02031323-01	ISS1:1of1	p28546_1	04/02/2011	p28546_1.cpl
049	Q02100456-01	ISS1:1 OF 1	p29755_1	04/02/2011	p29755_1.cpl
050	Q02033139	ISS1:1OF1	p28582_1	04/02/2011	p28582_1.cpl
051	Q02032955-02	ISS1:1OF1	p28529_1	04/02/2011	p28529_1.cpl
052	Q02043226-02	ISS1:1OF1	p29125_1	04/02/2011	p29125_1.cpl
053	Q02039427-02	ISS1:1OF1	p28849_1	04/02/2011	p28849_1.cpl
054	Q02095838	1SS1:1OF1	p28852_1	04/02/2011	p28852_1.cpl
055	Q02119261	ISS2:1OF1	p29613_2	04/02/2011	p29613_2.cpl
056	Q02058567-01	ISS1:1OF1	p28965_1	04/02/2011	p28965_1.cpl
057	Q02027777	ISS1:1OF1	p28471_1	04/02/2011	p28471_1.cpl
058	Q02034835	ISS1:1OF1	p28569_1	04/02/2011	p28569_1.cpl
059	Q02038482	ISS1:1OF1	p28682_1	04/02/2011	p28682_1.cpl
060	Q02077171	ISS1:1OF1	p29169_1	04/02/2011	p29169_1.cpl
061	Q02028560-04	ISS1:1OF1	p28564_1	04/02/2011	p28564_1.cpl
062	Q02039217-01	ISS1:1OF1	p28760_1	04/02/2011	p28760_1.cpl
063	Q02129264	ISS1:1OF1	p29827_1	04/02/2011	p29827_1.cpl
064	Q02022264	ISS1:1OF1	p28486_1	04/02/2011	p28486_1.cpl
065	Q02097948	ISS1:1OF1	p29443_1	04/02/2011	p29443_1.cpl
066	Q01938235-05	ISS2:1OF1	p28418_2	04/02/2011	p28418_2.cpl
067	Q02031502	ISS1:1OF1	p28832_1	04/02/2011	p28832_1.cpl
068	Q02109161	ISS1:1OF1	p29536_1	04/02/2011	p29536_1.cpl
069	Q02159328-01	ISS1:1OF1	p30223_1	04/02/2011	p30223_1.cpl
070	Q02007976-03	ISS1:1OF1	p28028_1	04/02/2011	p28028_1.cpl
071	Q02019323	ISS1:1OF1	p28551_1	04/02/2011	p28551_1.cpl
072	Q02048680	ISS1:1OF1	p28983_1	04/02/2011	p28983_1.cpl
073	Q02043669	ISS1:1OF1	p28771_1	04/02/2011	p28771_1.cpl
074	Q02092594	ISS1:1OF1	p27830_1	04/02/2011	p27830_1.cpl
075	Q02065521	ISS1:1OF1	p29218_1	04/02/2011	p29218_1.cpl
076	Q02011613-01	ISS1:1OF1	p28108_1	04/02/2011	p28108_1.cpl
077	Q02024749-02	ISS1:1OF1	p29680_1	04/02/2011	p29680_1.cpl
078	Q02033951	ISS1:1OF1	p28579_1	04/02/2011	p28579_1.cpl
079	Q02093256-03	ISS1:1OF1	p29354_1	04/02/2011	p29354_1.cpl
080	Q02031118	ISS1:1OF1	p28680_1	04/02/2011	p28680_1.cpl
081	Q02083027	ISS1:1OF1	p29233_1	04/02/2011	p29233_1.cpl
082	Q02031359	p28679	p28725_1	04/02/2011	p28725_1.cpl
083	Q00349046-03	ISS1:1OF1	p17588_1	04/02/2011	p17588_1.cpl
084	Q02031959	ISS1:1OF1	p28728_1	04/02/2011	p28728_1.cpl
085	Q02058296-04	ISS1:1OF1	p28956_1	04/02/2011	p28956_1.cpl
086	Q02020526	ISS1:1OF1	p28537_1	04/02/2011	p28537_1.cpl
087	Q02029228-01	ISS1:1OF1	p28681_1	04/02/2011	p28681_1.cpl
088	Q02124953	ISS1:1OF1	p29744_1	04/02/2011	p29744_1.cpl
089	Q02038675	ISS1:1OF1	p28665_1	04/02/2011	p28665_1.cpl
090	Q02084339-02	ISS1:1OF1	p29137_1	04/02/2011	p29137_1.cpl
091	Q02055997	ISS1:1OF1	p28895_1	04/02/2011	p28895_1.cpl
092	Q02043231	ISS1:1OF1	p28712_1	04/02/2011	p28712_1.cpl
093	Q02021470-02	ISS1:1OF1	p28776_1	04/02/2011	p28776_1.cpl
094	Q02035555	ISS1:1OF1	p28814_1	04/02/2011	p28814_1.cpl
095	Q02105638-01	1SS1:1OF1	p29675_1	04/02/2011	p29675_1.cpl
096	Q02044341	ISS1:1OF1	p28957_1	04/02/2011	p28957_1.cpl
097	Q02172404	ISS1:1OF1	p30357_1	04/02/2011	p30357_1.cpl
098	Q02073690	ISS1:1OF1	p29208_1	04/02/2011	p29208_1.cpl
099	Q02096318	ISS1:1of1	p29423_1	04/02/2011	p29423_1.cpl

100	Q02030977	ISS1:1OF1	p28507_1	04/02/2011	p28507_1.cpl
101	Q01999478-01	ISS1:1OF1	p27897_1	04/02/2011	p27897_1.cpl
102	Q02108852	ISS1:1OF1	p29825_1	04/02/2011	p29825_1.cpl
103	Q02103928	ISS1:1OF1	p29486_1	04/02/2011	p29486_1.cpl
104	Q02021384-01	ISS1:1OF1	p28615_1	04/02/2011	p28615_1.cpl
105	Q02124220	ISS1:1OF1	p29943_1	04/02/2011	p29943_1.cpl
106	Q02137476	ISS1:1OF1	p29962_1	04/02/2011	p29962_1.cpl
107	Q02094012	ISS1:1OF1	p29370_1	04/02/2011	p29370_1.cpl
108	Q01884473-01	ISS1:1OF1	p26726_1	04/02/2011	p26726_1.cpl
109	Q02006644-03	ISS1:1OF1	p30135_1	04/02/2011	p30135_1.cpl
110	Q02011541-03	ISS1:1OF1	p29998_1	04/02/2011	p29998_1.cpl
111	Q02164720	ISS1:1OF1	p30282_1	04/02/2011	p30282_1.cpl
112	Q02077977-01	ISS1:1OF1	p29177_1	04/02/2011	p29177_1.cpl
113	Q02109731-02	ISS1:1OF1	p29694_1	04/02/2011	p29694_1.cpl
114	Q02071739	ISS1:1OF1	p29096_1	04/02/2011	p29096_1.cpl
115	Q02058669-01	ISS1:1OF1	p30124_1	04/02/2011	p30124_1.cpl
116	wi00820216	Iss1:1of1	p30447_1	04/02/2011	p30447_1.cpl
117	Q02088715-02	ISS3:1OF1	p29077_3	04/02/2011	p29077_3.cpl
118	Q02140914-02	ISS1:1OF1	p30004_1	04/02/2011	p30004_1.cpl
119	Q01982233-06	ISS1:1OF1	p28172_1	04/02/2011	p28172_1.cpl
120	Q02057782-01	ISS1:1OF1	p29215_1	04/02/2011	p29215_1.cpl
121	Q01974578-04	ISS1:1OF1	p27329_1	04/02/2011	p27329_1.cpl
122	Q02052184-01	ISS1:1OF1	p30288_1	04/02/2011	p30288_1.cpl
123	Q02150271	ISS1:1OF1	p30104_1	04/02/2011	p30104_1.cpl
124	Q02151971	ISS1:1OF1	p30156_1	04/02/2011	p30156_1.cpl
125	Q02111317	ISS1:1OF1	p29844_1	04/02/2011	p29844_1.cpl
126	Q02121311	ISS1:1OF1	p29728_1	04/02/2011	p29728_1.cpl
127	Q02149096	ISS1:1OF1	p30090_1	04/02/2011	p30090_1.cpl
128	Q02007724-04	ISS1:1OF1	p29681_1	04/02/2011	p29681_1.cpl
129	Q02040038-03	ISS1:1OF1	p28647_1	04/02/2011	p28647_1.cpl
130	Q02158724	ISS1:1OF1	p30210_1	04/02/2011	p30210_1.cpl
131	Q02103392-01	ISS1:1OF1	p29480_1	04/02/2011	p29480_1.cpl
132	Q02061039-04	ISS1:1OF1	p28927_1	04/02/2011	p28927_1.cpl
133	Q02039403-01	ISS1:1OF1	p29378_1	04/02/2011	p29378_1.cpl
134	Q02108821-01	ISS1:1OF1	p29529_1	04/02/2011	p29529_1.cpl
135	Q02109705-04	ISS1:1OF1	p29701_1	04/02/2011	p29701_1.cpl
136	Q02131549	ISS1:1OF1	p30065_1	04/02/2011	p30065_1.cpl
137	Q02066737-05	ISS1:1OF1	p29537_1	04/02/2011	p29537_1.cpl
138	Q01925518-06	ISS2:1OF1	p29491_2	04/02/2011	p29491_2.cpl
139	Q02077764-04	ISS1:1OF1	p29174_1	04/02/2011	p29174_1.cpl
140	wi00733835	ISS1:1OF1	p30418_1	04/02/2011	p30418_1.cpl
141	Q02125731	ISS1:1OF1	p29802_1	04/02/2011	p29802_1.cpl
142	Q01873266-02	ISS1:1OF1	p25747_1	04/02/2011	p25747_1.cpl
143	Q02110455-03	ISS1:1OF1	p29670_1	04/02/2011	p29670_1.cpl
144	Q00350041-01	ISS1:1OF1	p16376_1	04/02/2011	p16376_1.cpl
145	Q02095619-04	ISS2:1OF1	p29376_2	04/02/2011	p29376_2.cpl
146	Q02113482	ISS1:1OF1	p30294_1	04/02/2011	p30294_1.cpl
147	Q02071694-04	ISS1:1OF1	p29679_1	04/02/2011	p29679_1.cpl
148	Q01974383-02	ISS1:1OF1	p27378_1	04/02/2011	p27378_1.cpl
149	Q02104745-01	ISS1:1OF1	p29495_1	04/02/2011	p29495_1.cpl
150	Q02124023-03	ISS1:1OF1	p29903_1	04/02/2011	p29903_1.cpl
151	Q02157668	ISS1:1OF1	p30204_1	04/02/2011	p30204_1.cpl
152	Q02110441-01	ISS1:1OF1	p29577_1	04/02/2011	p29577_1.cpl
153	Q02144165	ISS1:1OF1	p30036_1	04/02/2011	p30036_1.cpl
154	Q02112375-02	ISS1:1OF1	p29671_1	04/02/2011	p29671_1.cpl
155	Q02019660-04	ISS2:1OF1	p28252_2	04/02/2011	p28252_2.cpl

156	Q02108873-02	ISS1:10F1	p29590_1	04/02/2011	p29590_1.cpl
157	wi00734106	ISS1:10F1	p30421_1	04/02/2011	p30421_1.cpl
158	Q02170814	ISS1:10F1	p30345_1	04/02/2011	p30345_1.cpl
159	Q02157937	ISS1:10F1	p30218_1	04/02/2011	p30218_1.cpl
160	wi00830941	ISS1:10F1	p30461_1	04/02/2011	p30461_1.cpl
161	Q02120030	ISS1:10F1	p29713_1	04/02/2011	p29713_1.cpl
162	wi00732114	ISS1:10F1	p30398_1	04/02/2011	p30398_1.cpl
163	wi00730573	p29355	p30416_1	04/02/2011	p30416_1.cpl
164	Q02155346-01	ISS3:10F1	p30074_1	04/02/2011	p30074_1.cpl
165	wi00833809	ISS1:10F1	p30540_1	04/02/2011	p30540_1.cpl
166	wi00795545	ISS1:10F1	p30336_1	04/02/2011	p30336_1.cpl
167	Q02168320	ISS1:10F1	p30346_1	04/02/2011	p30346_1.cpl
168	Q02122642	ISS1:10F1	p29732_1	04/02/2011	p29732_1.cpl
169	Q01994258-03	ISS1:10F1	p30303_1	04/02/2011	p30303_1.cpl
170	wi00835128	ISS1:10F1	p30554_1	04/02/2011	p30554_1.cpl
171	Q02079612-02	ISS1:10F1	p29191_1	04/02/2011	p29191_1.cpl
172	Q02157822-01	ISS1:10F1	p30197_1	04/02/2011	p30197_1.cpl
173	Q02116276-01	ISS1:10F1	p29723_1	04/02/2011	p29723_1.cpl
174	wi00826065	ISS1:10F1	p30452_1	04/02/2011	p30452_1.cpl
175	Q02155698	ISS1:10F1	p30172_1	04/02/2011	p30172_1.cpl
176	Q02167838	p29830	p30324_1	04/02/2011	p30324_1.cpl
177	wi00821858	ISS1:10F1	p30243_1	04/02/2011	p30243_1.cpl
178	Q02136557	ISS2:10F1	p29899_2	04/02/2011	p29899_2.cpl
179	WI00824134	ISS1:10F1	p30456_1	04/02/2011	p30456_1.cpl
180	Q02062971	ISS1:10F1	p29028_1	04/02/2011	p29028_1.cpl
181	wi00834380	ISS1:10F1	p30548_1	04/02/2011	p30548_1.cpl
182	wi00819538	p30085	p30527_1	04/02/2011	p30527_1.cpl

MDP>LAST SUCCESSFUL MDP REFRESH :2011-01-10 17:38:55(Local Time)

MDP>USING DEPLIST ZIP FILE DOWNLOADED :2011-01-10 09:38:29(est)

10.4. Installed call server patches and plug-ins

14/02/11 13:58:36

TID: 46379

VERSION 4121

System type is - Communication Server 1000E/CPPM Linux
CPPM - Pentium M 1.4 GHz

IPMGs Registered: 1
IPMGs Unregistered: 0
IPMGs Configured/unregistered: 0

RELEASE 6

ISSUE 00 R +

IDLE_SET_DISPLAY Rls6 CoRes2

DepList 1: core Issue: 02(created: 2011-01-10 09:38:29 (est))

MDP>LAST SUCCESSFUL MDP REFRESH :2011-01-10 17:38:55(Local Time)

MDP>USING DEPLIST ZIP FILE DOWNLOADED :2011-01-10 09:38:29(est)

SYSTEM HAS NO USER SELECTED PEPS IN-SERVICE

LOADWARE VERSION: PSWV 100

INSTALLED LOADWARE PEPS : 0

ENABLED PLUGINS : 1

PLUGIN	STATUS	PRS/CR_NUM	MPLR_NUM	DESCRIPTION
206	ENABLED	Q00954846	MPLR19491	PI:Connected party number inserted at the tandem node

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