



## Certificate of Compatibility

NEC Infrontia Limited is pleased to verify that:

### **SureVoIP**

has successfully met the standards for SIP Trunk compatibility  
with the NEC Infrontia product listed below.

### **SV8100**

<b>Test Completion Date:</b>	19 <sup>th</sup> December 2010
<b>Test Location:</b>	<b>Remote</b>
<b>Name of Provider:</b>	SureVoIP
<b>Website:</b>	<a href="http://www.surevoip.co.uk">http://www.surevoip.co.uk</a>
<b>System Tested:</b>	SV8100
<b>Software Version:</b>	V4.00
<b>SIP Connection Mode:</b>	Carrier Mode
<b>Test Plan Version:</b>	1.2

Please refer to the following page(s) for further  
information and Configuration Notes.

**Disclaimer:**

NEC Infrontia Limited has performed Interoperability Testing with the Provider listed above. The results of these tests proved satisfactory. Please note that certification for devices otherwise stated as the system tested is applicable to all the devices listed above with them being based on the same SIP specification.

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

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## SIP Configuration Notes – SureVoIP

Use the specific configuration guide below to configure an SV8100 PBX for connection to the service described above via SIP trunks.

### Recommended Software Versions

CCPU V4.00



### System Programming

The following items should be changed – all other items are considered irrelevant or should be left as default.

Easy Edit	PRG	Item	Setting
Advanced Items > IP/SIP > Blades > CCPU IP Address	10-12-09	IPLA IP Address	Set according to customers network requirements
	10-12-10	Subnet Mask	Set according to customers network requirements
	10-12-03	Default Gateway	Set according to customers network requirements
	10-12-02	Default Gateway Subnet Mask	Set according to customers network requirements
	10-12-01	IP Address	Must be in a different network range to IPLA IP Address (10-12-09)
Advanced Items > IP/SIP > Blades >VoIP Resource IP Address	84-26-01	VoIP Gateway IP Address	Set according to customers network requirements and IPLA channel capacity
Advanced Items > IP/SIP > SIP Trunks > SIP Trunk Assignment	10-40-01	IP Trunk Availability	Set to ON
	10-40-02	IP trunk Port Count	Set to number of SIP trunks required. Associated IP Trunk Licenses must be installed on PBX.
Advanced Items > IP/SIP > SIP Trunks > VoIP Trunk Type	10-03-02	Trunk Type	Set VOIPU card trunk ports to SIP
Advanced Items > IP/SIP > SIP Trunks > Carrier Mode > Carrier Mode DNS	10-28-01	Domain Name	Set according to ITSP network requirements <b>surevoip.co.uk</b>
	10-28-02	Host Name	Set according to ITSP network requirements <b>sip</b>
	10-28-04	UserID	Account Number, as supplied by SureVoIP
	10-28-05	Domain Assignment	Set to Domain Name
	10-29-01	Default Proxy (transmit)	Set to OFF
	10-29-02	Default Proxy (receive)	Set to OFF
	10-29-05	Registrar Mode	Set to Manual
	10-29-08	DNS Mode	Set to Enabled
	10-29-09	DNS Server IP Address	Customers DNS Server IP address / Set according to customers network requirements
	10-29-11	Registrar	Set to <b>sip.surevoip.co.uk</b>
10-29-14	Carrier Choice	Carrier Choice set as <b>Default</b>	

	10-29-16	Register Sub Mode	Set to Disabled
	10-30-02	User Name	Account Number, as supplied by SureVoIP
	10-30-03	Password	Account Password, as supplied by SureVoIP
	84-13-28	Audio Capability	Set codec according to ITSP requirements <b>G.711</b>
	84-13-32	DTMF Relay Mode	Set to RFC2833
If multiple accounts have been provided the following 4 items should be configured for each account			
Advanced Items > IP/SIP > Blades > Carrier Mode > Multiple Accounts	10-36-01	Registration	Enable
	10-36-02	User ID	The account number assigned by SureVoIP
	10-36-03	Auth User ID	The account number assigned by SureVoIP
	10-36-04	Auth Password	The password assigned by SureVoIP

- DDIs can be configured if required, using the same procedure as for ISDN trunks
- SIP calls are sent “en bloc”. This means that the External Call Interdigit timer (PRG21-01-03) must expire before the call is set up. This can be reduced, but will have an impact on ISDN trunks also. The user can dial # to indicate “end of dialling” instead if required.

### **Network Configuration**

If Public IP addresses are assigned to the SV8100 IPLA and VoIP Gateways, then there should be no network configuration required.

If there is one public IP address assigned, and NAT is used, it is necessary to configure Port Forwarding on the router:

- Port 5060 should be forwarded to the IPLA IP address
- Port 10020 – 10100 should be forwarded to the VoIP Gateway IP addresses
- NATP should be enabled in PRG10-12-06 and the Public IP address should be entered into PRG10-12-07.

### **Known Limitations**

- Caller ID cannot be disabled on the SV8100 otherwise when making an outbound call the call will be rejected.
- G.711 is the preferred CODEC choice used on this service to maximise call speech quality. If limited bandwidth available there may be cases where G.729 would be more beneficial and this would need to be activated by SureVoIP on the account as the preferred CODEC choice and matched on the SV8100 in PRG84-13-28. Although this would still only apply on outbound calls as G.711 is always used for incoming calls.
- SureVoIP provide access to a web portal for their customers to logon and manage their account. This can be used to configure the incoming INVITE message for DDIs to the SV8100 if calls are not routing as expected because they are being routed to the User ID.

Windows Internet Explorer window showing the SureVoIP Business VoIP Telephone Solutions interface. The browser address bar displays [https://secure.surevoip.co.uk/customer/A2B\\_entity\\_did.php?form\\_action=list](https://secure.surevoip.co.uk/customer/A2B_entity_did.php?form_action=list).

Navigation menu on the left includes: ACCOUNT INFO, CALL HISTORY, PAYMENT HISTORY, INVOICES, DID, PASSWORD, SUPPORT, NOTIFICATION, and LOGOUT.

Information banner: Select the country below where you would like a DID, select a DID from the list and enter the destination you would like to assign it to.

Form fields:
 

- Select Country (dropdown)
- Select Virtual Phone Number (text input)
- VOIP CALL : Yes (radio) - NO (radio)
- Destination : (text input) Enter the phone number you wish to call, or the SIP/IAX client to reach (ie: 347894999 or SIP/jeremy@182.212.1.45). In order to call a VoIP number, you will need to enable voip\_call

Buttons: Buy New DID, Add Phone Number to your DID, Release DID, Next

Table: - DESTINATION LIST - 1 Records

DESTINATION	DID	ACTIVATED	PRIORITY	USED MINUTE	COUNTRY	ACTION
SIP/01224466115@82.153.203.51	441224466115	Active	Priority : 1	94:34	United Kingdom	

DISPLAY 10 GO

Footer: Internet | Protected Mode: On | 100%

**Document History**

Version	Date	Description
1.2	12/01/2011	Initial Release