



Certificate of Compatibility

NEC is pleased to verify that:

VoiceHost

Has successfully met the standards for SIP Trunk compatibility
with the NEC products listed below.

SV8100/SL1100/SL1000

Test Completion Date:	5 th March 2014
Test Location:	Local
Name of Provider:	VoiceHost
Website:	http://www.voicehost.co.uk
System Tested:	SV8100
Software Version:	C9.00
SIP Connection Mode:	Networking Mode
Test Plan Version:	1.0

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

SIP Configuration Notes – VoiceHost

Use the specific configuration guide below as an example to configure an SV8100 or SL11100/SL1000 PBX for connection to the service described above via SIP trunks.

Recommended Software Versions

SV8100:

CCPU vC9.00



SL1X00:

CCPU v4.0



System Programming

The following items should be changed – all other items are considered irrelevant and as such left as default. Screenshots are for example purposes only and will have been taken from the PBX under test but will apply to the other PBXs listed on the cover of the certificate. Any differences in programming will be documented where necessary.

Easy Edit	PRG	Item	Setting
Advanced Items > IP/SIP > Blades > CCPU IP Address	10-12-09	IPL/VOIPDB IP Address	Set according to customers network requirements
	10-12-10	IPL/VOIPDB 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 IPL IP Address (10-12-09)

The screenshot shows the configuration interface for the CCPU IP Address. The left sidebar displays a tree view with 'Blades' expanded, showing 'Advanced Items' and 'IP SIP'. The main window shows the 'CCPU IP Address' configuration page with the following settings:

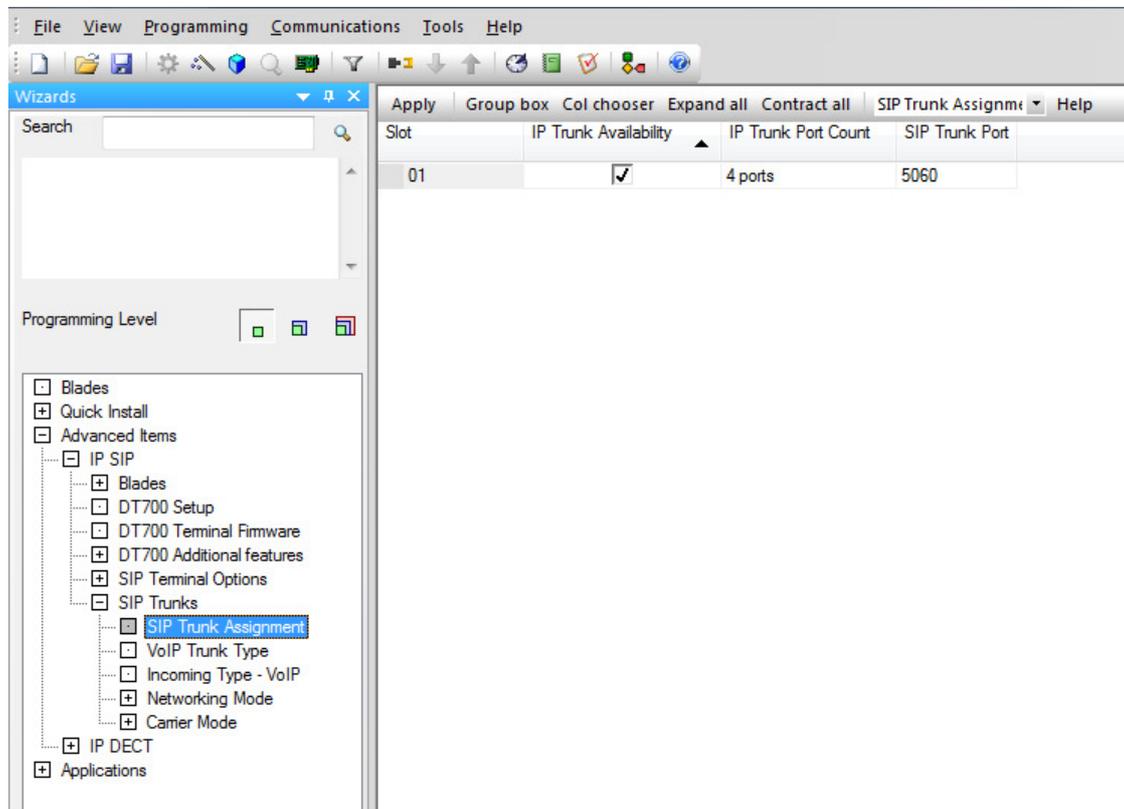
Item	Value
IP Address	172.16.0.10
Subnet Mask	255.255.0.0
Default Gate...	192.168.1.1
IPL IP Address	192.168.1.10
IPL Subnet ...	255.255.255.0
DNS Primary ...	0.0.0.0
DNS Second...	0.0.0.0
DNS Port	53

Easy Edit	PRG	Item	Setting
Advanced Items > IP/SIP > Blades >VoIP Resource IP Address	84-26-01	VoIP Gateway IP Address	Set according to customers network requirements and IPL channel capacity IPLA: 32 Channel = 2 x VoIP Gateway IP addresses 64 Channel = 4 x VoIP Gateway IP addresses 128 Channel = 8 x VoIP Gateway IP addresses IPLB: All Channels = 1 x VoIP Gateway IP address

The screenshot shows a software application window with a menu bar (File, View, Programming, Communications, Tools, Help) and a toolbar. A 'Wizards' panel is open on the left, displaying a search box and a tree view. The tree view is expanded to 'Advanced Items' > 'IP SIP' > 'Blades' > 'VoIP Resource I', which is highlighted. The main area displays a table with the following data:

Slot	VoIP Gateway	IP Address	RTP Port	RTCP Port
01	1	192.168.1.20	10020	10021
01	2	192.168.1.21	10052	10053
01	3	172.16.0.22	10084	10085
01	4	172.16.0.23	10116	10117
01	5	172.16.0.24	10148	10149
01	6	172.16.0.25	10180	10181
01	7	172.16.0.26	10212	10213
01	8	172.16.0.27	10244	10245

Easy Edit	PRG	Item	Setting
Advanced Items > IP/SIP > SIP Trunks > SIP Trunk Assignment	10-40-01	IP Trunk Availability	Set to Enabled
	10-40-02	IP trunk Port Count	Set to number of SIP trunks required. Associated IP Trunk Licenses must be installed on PBX.



Easy Edit	PRG	Item	Setting
Advanced Items > IP/SIP > SIP Trunks > VoIP Trunk Type	10-03-02	Trunk Type	Set VOIPU card trunk ports to SIP

The screenshot shows the 'voicehost with IP authentication 3.pcp [NEC SV8100 R9] - PCPro' application window. The 'Wizards' pane on the left is open to 'IP SIP' > 'SIP Trunks' > 'VoIP Trunk Type'. The main area displays a table with the following columns: Slot, Physical Port, Trunk Logical, and Trunk Type.

Slot	Physical Port	Trunk Logical	Trunk Type
01	001	5	SIP
01	002	6	SIP
01	003	7	SIP
01	004	8	SIP
01	005	0	H.323
01	006	0	H.323
01	007	0	H.323
01	008	0	H.323
01	009	0	H.323
01	010	0	H.323
01	011	0	H.323
01	012	0	H.323
01	013	0	H.323
01	014	0	H.323
01	015	0	H.323
01	016	0	H.323
01	017	0	H.323
01	018	0	H.323
01	019	0	H.323
01	020	0	H.323
01	021	0	H.323
01	022	0	H.323
01	023	0	H.323
01	024	0	H.323

Easy Edit	PRG	Item	Setting
Advanced Items > IP/SIP > Blades > Networking Mode > Networking Mode	10-23-01	System Interconnection	Set to Enabled
	10-23-02	IP Address	Set to SIP server IP Address supplied by VoiceHost
	10-23-04	Dial Number	The first digit(s) that will be dialed
	10-28-01	Domain Name	Set according to customers network requirements
	10-28-02	Host Name	Set according to customers network requirements
	10-28-04	UserID	SIP ID, as supplied by VoiceHost
	10-29-14	Carrier Choice	Carrier Choice set as Carrier B
	10-29-16	Register Sub Mode	Set to Disabled
	84-13-28	Audio Capability	G.711_PT
	84-13-32	DTMF Relay Mode	Set to RFC2833

Sys No.	System Inter...	IP Address	Call Control...	Dial Number	Keep Alive ...	Keep Alive b...	Keep Alive b...	Option Keep.
0001	<input checked="" type="checkbox"/>	37.157.52.142	1720	0	Disable	180	1	ping
0002	<input checked="" type="checkbox"/>	37.157.52.142	1720	1	Disable			
0003	<input checked="" type="checkbox"/>	37.157.52.142	1720	2	Disable			
0004	<input checked="" type="checkbox"/>	37.157.52.142	1720	3	Disable			
0005	<input checked="" type="checkbox"/>	37.157.52.142	1720	4	Disable			
0006	<input checked="" type="checkbox"/>	37.157.52.142	1720	5	Disable			
0007	<input checked="" type="checkbox"/>	37.157.52.142	1720	6	Disable			
0008	<input checked="" type="checkbox"/>	37.157.52.142	1720	7	Disable			
0009	<input checked="" type="checkbox"/>	37.157.52.142	1720	8	Disable			
0010	<input checked="" type="checkbox"/>	37.157.52.142	1720	9	Disable			
0011	<input type="checkbox"/>	0.0.0.0	1720		Disable			
0012	<input type="checkbox"/>	0.0.0.0	1720		Disable			
0013	<input type="checkbox"/>	0.0.0.0	1720		Disable			
0014	<input type="checkbox"/>	0.0.0.0	1720		Disable			
0015	<input type="checkbox"/>	0.0.0.0	1720		Disable			
0016	<input type="checkbox"/>	0.0.0.0	1720		Disable			
0017	<input type="checkbox"/>	0.0.0.0	1720		Disable			
0018	<input type="checkbox"/>	0.0.0.0	1720		Disable			
0019	<input type="checkbox"/>	0.0.0.0	1720		Disable			
0020	<input type="checkbox"/>	0.0.0.0	1720		Disable			
0021	<input type="checkbox"/>	0.0.0.0	1720		Disable			
0022	<input type="checkbox"/>	0.0.0.0	1720		Disable			
0023	<input type="checkbox"/>	0.0.0.0	1720		Disable			
0024	<input type="checkbox"/>	0.0.0.0	1720		Disable			
0025	<input type="checkbox"/>	0.0.0.0	1720		Disable			
0026	<input type="checkbox"/>	0.0.0.0	1720		Disable			

Domain Name	Host Name	User ID	SIP Camer C...	Register Sub...	Audio Capab...	DTMF Paylo...	DTMF Relay...	RTP Filter	Call Forward ...	Incoming/O...	SIP Trunk Sl...
testing.co.uk	sip	ST116676T001	Carrier B	<input type="checkbox"/>	G.711_PT	110	RFC2833	<input type="checkbox"/>	Disabled	OFF	Off

- 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 Inter digit 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.
- CLI can be sent out using either 21-17 IP Trunk Calling Party Number Setup for Trunks or 21-19 IP Trunk Calling Party Number Setup for Extensions. If nothing is defined against the extension or trunk, or CLI is restricted through further programming, then no outbound CLI is sent.

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 – 10275 should be forwarded to the VoIP Gateway IP addresses
- NAT should be enabled in PRG10-12-06 and the Public IP address should be entered into PRG10-12-07.

Known Limitations/Comments

- The service uses “Networking Mode” which means that the system does not maintain a registration. This means that the system is unable to determine if the SIP server is available, and if it is acceptable to set up calls.
- The service only supports codec G.711.
- At the time of publishing the service does not support T38 fax mode. Should the carrier add this to the service it will not be added to the certificate until further testing has been completed.

NEC UK cannot be held responsible for any regulatory non-compliance resulting from the use of this service.

Document History

Version	Date	Description
1.0	5 th march 2014	Initial Release for SV8100/SL1100/S1000

Disclaimer:

NEC UK has performed Interoperability Testing with the Switch (es) and Provider listed above on the date specified. The results of these tests proved satisfactory.

IMPORTANT: NEC UK 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 UK's control.

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ANY PREVIOUS DOCUMENTATION ASSOCIATED WITH THIS CARRIER AND SERVICE SHOULD BE DELETED OR DESTROYED