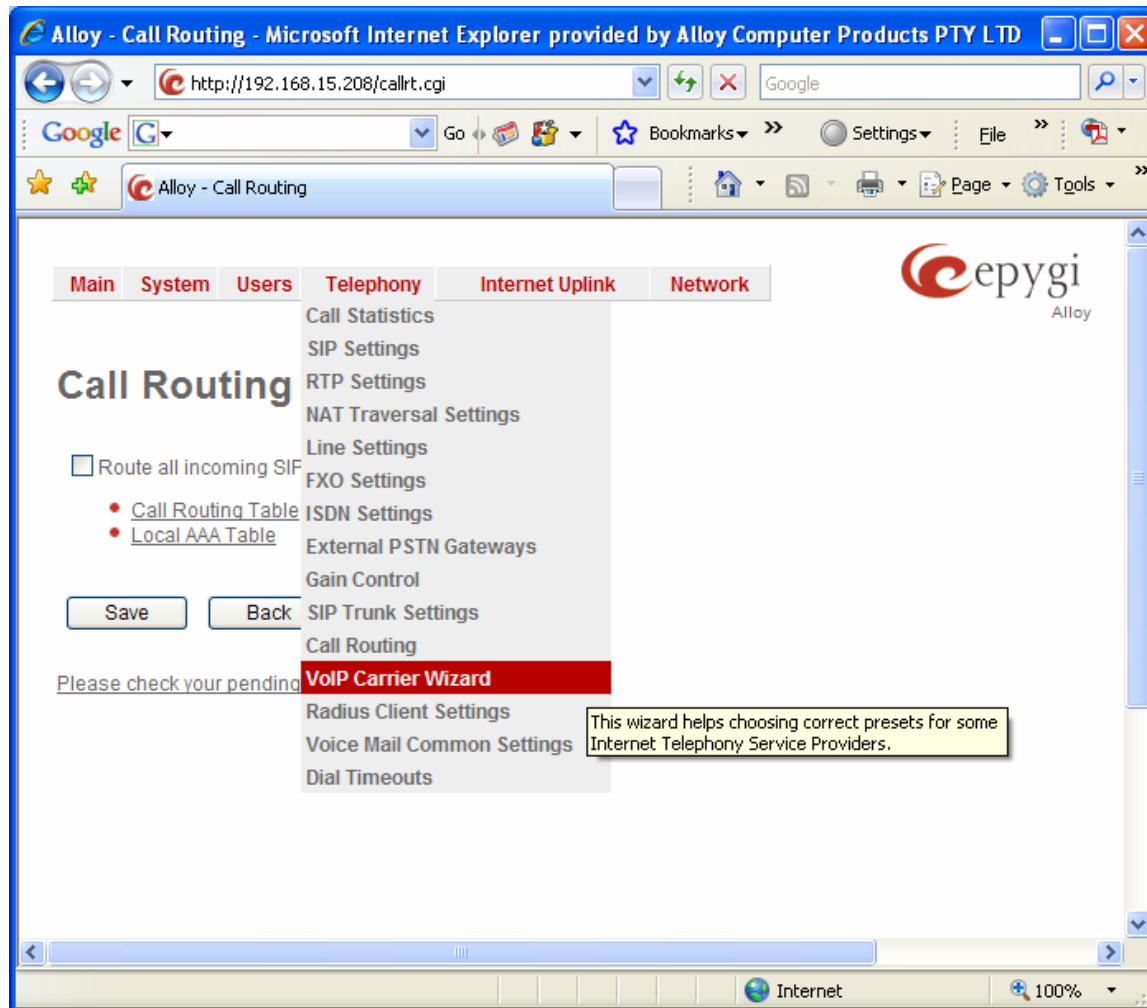


## Configuration Guide for NexVoice – DID Plans.

The following procedures document configuration of Nextep VoIP DID Plans, to enable presentation of Caller ID “CLID” on external calls, and to enable Direct In Dial of specific numbers to specific extensions.

This document only covers manual configuration of the Nextep Service, it does not document any PBX feature configuration, codec configuration, or networking services configuration. Please refer Epygi manuals for information relating to configuration of these services.

### 1) Initiate the Voip Carrier Wizard.



## 2) Second page of Wizard:

Configure the account details as provided on the Nextep service.

SIP server and Outbound Proxy = vic.nexvoice.net.au

Port = 5060

Alloy - VoIP Carrier Wizard - Microsoft Internet Explorer provided by Alloy Computer Products PTY LTD

http://192.168.15.208/voipcarrierwizard.cgi

Google

Alloy - VoIP Carrier Wizard

Main System Users Telephony Internet Uplink Network

epgy  
Alloy

### VoIP Carrier Wizard

#### VoIP Carrier Settings

##### VoIP Carrier Common Settings

Account Name: 0XXXXXXXXX

Password: .....

Confirm Password: .....

SIP Server: vic.nexvoice.net.au

SIP Server Port: 5060

##### VoIP Carrier Advanced Settings

☐ Use RTP Proxy

Authentication User Name:

☐ Send Keep-alive Messages to Proxy

Timeout: 30 sec

Outbound Proxy

Host Address: vic.nexvoice.net.au

Port: 5060

Secondary SIP Server

Host Address:

Port:

Outbound Proxy for Secondary SIP Server

Host Address:

Port:

Previous Next Cancel Help

Done Internet 100%

### 3) Third page of Wizard:

Provide a "Prefix" or "Access Code" to call out via Nextep

Provide a mapping for the primary DID and all unassociated inbound Nextep Calls to an Ext. (Auto-Attendant or Direct Ext)

Optionally: enable Failover to PSTN or ISDN services.

The screenshot shows a web browser window titled "Alloy - VoIP Carrier Wizard - Microsoft Internet Explorer provided by Alloy Computer Products PTY LTD". The address bar shows the URL "http://192.168.15.208/voipcarrierwizard.cgi". The browser's menu bar includes "Go", "Bookmarks", "PageRank", "7 blocked", "Settings", "File", and "Tools". The page has a navigation bar with tabs: "Main", "System", "Users", "Telephony", "Internet Uplink", and "Network". The "Telephony" tab is selected. The page title is "VoIP Carrier Wizard". The main content area is titled "VoIP Carrier Access Code" and contains the following fields and options:

- "Access Code:" with a text input field containing the value "0".
- "Route Incoming Calls to:" with a dropdown menu showing "00".
- A checkbox labeled "Failover to PSTN" which is checked.

At the bottom of the form are four buttons: "Previous", "Next", "Cancel", and "Help". Below the form, there is a link that says "Please check your pending events!". At the very bottom of the page, there is a copyright notice: "Copyright (C) 2007 Epygi Technologies, Ltd. All rights reserved." The browser's status bar at the bottom shows "Done" and "Internet" with a 100% zoom level.

### 4) Confirm all selected details on the final Screen and complete the wizard process.

**5) Enter the Call Routing Table:**

A new Nextep entry will have been created in the call routing table, and a Virtual Extension would also have been created. This Virtual Extension (in this case Ext 99) holds registration with Nextep Voice Servers, and is the primary point for the main In Dial number and any unallocated In Dial numbers. If in the future you need to change the inbound call path then this is done on the "unconditional call forward" option of the Virtual Ext holding registration with Nextep (in this case Ext 99)

**6) Tick the selection box on the new Nextep Entry, and then click the "duplicate" link at the top of the table.**

Call Routing Table													
<a href="#">Show Detailed View &gt;&gt;&gt;</a>													
<a href="#">Enable</a> <a href="#">Disable</a> <a href="#">Add</a> <a href="#">Edit</a> <a href="#">Duplicate</a> <a href="#">Delete</a> <a href="#">Select all</a> <a href="#">Inverse Selection</a> <a href="#">Move Up</a> <a href="#">Move Down</a> <a href="#">Move To</a>													
	ID	State	Pattern	Pattern Modification	Call Settings	Fail Reason	Local Authentication	Inbound Pattern/Modification	Inbound Settings	DT	UES / URP	Metric	Description
	1	Enabled	000		FXO port: Any Port	None	No	*	PBX			10	Emergency Call
	2	Enabled	9\*1*	NDS: 3	FXO port: FX01	Any	No	*	PBX			10	Make PSTN Call
	3	Enabled	9\*2*	NDS: 3	FXO port: FX02	Any	No	*	PBX			10	Make PSTN Call
	4	Enabled	9\*3*	NDS: 3	FXO port: FX03	Any	No	*	PBX			10	Make PSTN Call
	5	Enabled	9\*4*	NDS: 3	FXO port: FX04	Any	No	*	PBX			10	Make PSTN Call
	6	Enabled	9[?,\]*	NDS: 1	FXO port: Any Port	Any	No	*	PBX			10	Make PSTN Call
	<input checked="" type="checkbox"/>	34	Enabled	321*	NDS: 3	IP-PSTN vic.nextvoice.net.au:5060, ML : Yes	None	No	*	PBX	UES: 99 URP: No	10	Nextep

You will need 2 entries in call routing for out bound calls.

- I) One Route entry for extensions without a DID – these signal out the CLID of the Primary account number.
- II) A Second Route entry is restricted to extensions that are configured with a Child DID. These extensions will signal their DID on outbound calls (not the primary DID), and will receive calls direct on their Child DID numbers.

This restriction is implemented through the “Filter on Caller / Call Type / Modify Caller ID” option on the first screen when editing the new duplicated route entry.

Alloy - Call Routing Wizard - Microsoft Internet Explorer provided by Alloy Computer Products PTY LTD

http://192.168.15.208/lcrwizard.cgi

Main System Users Telephony Internet Uplink Network

epygi Alloy

### Call Routing Wizard

#### Routing Call Type - Edit Entry

Pattern: 321\* (wildcard supported) ☐ Require Authorization for Enabling/Disabling

Number of Discarded Symbols: 3 Enabler Key:

Prefix:  Disabler Key:

Suffix:

Call Type: IP-PSTN

Metric: 10

Description: Nextep\_KEEPID

☒ Filter on Caller / Call Type / Modify Caller ID

☐ Set Date/Time Period(s)

Previous Next Cancel Help

Please check your pending events!

Internet 100%

7) Third page of Wizard:

Ensure that the "Keep Original Caller ID" checkbox is marked.

The Use Extension Settings Box should be the same as the wizard created route (i.e. Ext 99)

Alloy - Call Routing Wizard - Microsoft Internet Explorer provided by Alloy Computer Products PTY LTD

http://192.168.15.208/lcrwizard.cgi

Google

Alloy - Call Routing Wizard

Main System Users Telephony Internet Uplink Network

epygi  
Alloy

### Call Routing Wizard

#### Routing Call Settings - Edit Entry

Use Extension Settings: 99 ☒ Keep Original Caller ID  
☐ Add Remote Party ID

Transport Protocol for SIP messages  
☒ UDP  
☐ TCP

Destination Host: vic.nexvoice.net.au  
Destination Port: 5060

Username:   
Password:

☒ Multiple Logons  
☐ Enable Activity Timeout  
Activity Timeout:   
☐ Use RTP Proxy

Done Internet 100%

**8) Fourth page of Wizard:**

We need to restrict this route entry to extensions that will be able to receive a Direct In Dial Number from the range provided by Nextep.

This restriction is applied in the "inbound Caller Pattern" field, in the following format.

**"{xx,xx,xx,xx}"** xx being an extension who's SIP username has been configured to one of the Nextep Child DID numbers. In this case Ext 24 and 52 will be configured.

Alloy - Call Routing Wizard - Microsoft Internet Explorer provided by Alloy Computer Products PTY LTD

http://192.168.15.208/lcrwizard.cgi

Google

Go

Bookmarks

PageRank

7 blocked

Settings

File

Tools

Main System Users Telephony Internet Uplink Network

epygi  
Alloy

### Call Routing Wizard

#### Inbound Call Type - Edit Entry

Inbound Caller Pattern: {24,52} (wildcard supported)

Inbound Number of Discarded Symbols:

Inbound Prefix:

Inbound Call Type: PBX

Previous Next Cancel Help

Done Internet 100%

**9) Confirm all selected details on the final Screen and complete the Route Edit process.**

**10)** Confirm both Route table entries exist.

The Lower ID (34) entry {higher in table} should be the one that is restrictive to inbound Child DID extensions  
The Higher ID (35) entry {Lower in table} is the one used by any other extension calling via Nextep. It signals the Primary DID outbound.

Note: if they are not in the correct order, they can be moved by selecting the record, and use the Move Links at the top of the table. Restrictive route before general (all ext) route.

Call Routing Table													
<a href="#">Show Detailed View &gt;&gt;&gt;</a>													
<a href="#">Enable</a> <a href="#">Disable</a> <a href="#">Add</a> <a href="#">Edit</a> <a href="#">Duplicate</a> <a href="#">Delete</a> <a href="#">Select all</a> <a href="#">Inverse Selection</a> <a href="#">Move Up</a> <a href="#">Move Down</a> <a href="#">Move To</a>													
	ID	State	Pattern	Pattern Modification	Call Settings	Fail Reason	Local Authentication	Inbound Pattern/Modification	Inbound Settings	DT	UES / URP	Metric	Description
	1	Enabled	000		FXO port: Any Port	None	No	*	PBX			10	Emergency Call
	2	Enabled	9\*1*	NDS: 3	FXO port: FXO1	Any	No	*	PBX			10	Make PSTN Call
	3	Enabled	9\*2*	NDS: 3	FXO port: FXO2	Any	No	*	PBX			10	Make PSTN Call
	4	Enabled	9\*3*	NDS: 3	FXO port: FXO3	Any	No	*	PBX			10	Make PSTN Call
	5	Enabled	9\*4*	NDS: 3	FXO port: FXO4	Any	No	*	PBX			10	Make PSTN Call
	6	Enabled	9[? ,\]*	NDS: 1	FXO port: Any Port	Any	No	*	PBX			10	Make PSTN Call
<input checked="" type="checkbox"/>	34	Enabled	321*	NDS: 3	IP-PSTN vic.nexvoice.net.au:5060, ML : Yes	None	No	{24,52}	PBX		UES: 99 URP: No	10	Nextep
<input type="checkbox"/>	35	Enabled	321*	NDS: 3	IP-PSTN vic.nexvoice.net.au:5060, ML : Yes	None	No	*	PBX		UES: 99 URP: No	10	Nextep

# 11) Configure extensions with the Nextep Child DID numbers

Extensions can be either real Phone Extensions or Virtual Extensions.

Virtual Extensions can be used to add enhanced PBX functions: Call Hunt Groups, Multi Line Ring Groups, Auto Attendants or more complex IVR functions.

From "Users", "Extensions Management" select an Extension (real or Virtual) and Click Edit from the links at the top. (Optional : a new extension can be created via the "Add" Link)

Alloy - Extensions Management - Microsoft Internet Explorer provided by Alloy Computer Products PTY LTD

http://192.168.15.208/usermanagement.cgi

Google

Alloy - Extensions Management

Main System **Users** Telephony Internet Uplink Network

**Extensions Management**

Receptionist Management  
Extensions Directory  
Authorized Phones Database

Quadro offers several telephone lines. The Extensions Management table allows you to assign extensions to telephone users and to specify the corresponding attached line.

Add Edit Delete Select all Inverse Selection

Extension	Display Name	Attached Line	SIP Address	Percentage of System Memory	Call Relay	Codecs
00	Attendant		30574000@sip.epygi.com:5060	1% (5 min 22 sec)	No	PCMU, ...
<input type="checkbox"/> 28	Night Attendant		28	1% (5 min 22 sec)	No	PCMU, ...
<input checked="" type="checkbox"/> 29	Alloy Holidays		29, Proxy:sip.epygi.com:5060	2% (10 min 44 sec)	No	PCMU, ...
<input type="checkbox"/> 55	Services Menu		55	1% (5 min 22 sec)	No	PCMU, ...
<input type="checkbox"/> 10 (Pickup Group)	Warehouse		10		No	PCMU, ...

Internet 100%

**12)** In the "SIP Settings" section, configured the Nextep Child DID in the "Username" Field. The password is the password defined for the primary account ID. Also complete the "SIP Server" and "SIP Port" Fields. {vic.nexvoice.net.au} and {5060}.

Note: "Registration on SIP Server" is not needed on Child Accounts.

Alloy - Extensions Management - Edit Entry - Microsoft Internet Explorer provided by Alloy Computer Products PTY LTD

http://192.168.15.208/usermgmtsipsettings.cgi

Google

Go

Bookmarks

PageRank

7 blocked

Settings

File

Alloy - Extensions Management - Edit Entry

Home

Page

Tools

Main System Users Telephony Internet Uplink Network

epygi  
Alloy

## Extensions Management - Edit Entry

[General Settings](#)

[SIP Settings](#)

[SIP Advanced Settings](#)

[Remote Settings](#)

[Call Queue Settings](#)

[Voice Mailbox Settings](#)

[Licensing](#)

### SIP Registration Settings - 24

User Name

Password

Confirm Password

SIP Server

SIP Port

☐ Registration on SIP Server

Done

Internet

100%

12) In the "SIP Advanced Settings" section, ensure the "Authentication User Name" Field is the Primary Account Username. Other settings need not be defined.

Alloy - Extensions Management - Edit Entry - Microsoft Internet Explorer provided by Alloy Computer Products PTY LTD

http://192.168.15.208/usermgmtsipadvsettings.cgi

Google

Alloy - Extensions Management - Edit Entry

Main System Users Telephony Internet Uplink Network

epgy  
Alloy

## Extensions Management - Edit Entry

[General Settings](#)

[SIP Settings](#)

[SIP Advanced Settings](#)

[Remote Settings](#)

[Call Queue Settings](#)

[Voice Mailbox Settings](#)

[Licensing](#)

### SIP Advanced Settings - 24

Advanced Settings

Authentication User Name

☐ Send Keep-alive Messages to Proxy

Timeout (sec)

RTP priority level

Outbound Proxy

Host address

Port

Secondary SIP Server

Host address

Port

Outbound Proxy for Secondary SIP Server

Host address

Port

**13)** Repeat sets 11 and 12 until all required Child DID accounts are configured.

You should now have all Phone Extensions presenting either the primary DID outbound or the Child DID from certain extensions. Inbound calls will route back to Child DID extensions or default back to the Primary DID extension (in this case ext 99)

You can confirm SIP registration of the Primary account via: "System" menu "SIP Registration Status" Link.

The screenshot shows a web browser window titled "Alloy - Quadro Status - SIP Registration Status - Microsoft Internet Explorer provided by Alloy Computer Products PTY LTD". The address bar shows the URL "http://192.168.15.208/status.cgi". The page has a navigation menu with tabs: Main, System, Users, Telephony, Internet Uplink, and Network. The "System" tab is selected. The page title is "Quadro Status - SIP Registration Status". On the left, there is a sidebar with links: General Information, Network Status, Lines Status, Memory Status, Hardware Status, and SIP Registration Status (highlighted in red). The main content area is titled "Registration on SIP Servers" and contains a table with the following data:

Extension ▼	Reg. Name	Server	Registered	Registration Time
00	30574000	sip.epygi.com	Yes	02-Mar-2007 11:17:12
31	76689731	sip.epygi.com	Yes	02-Mar-2007 11:17:06
32	76689732	sip.epygi.com	Yes	02-Mar-2007 11:17:04
33	76689733	sip.epygi.com	Yes	02-Mar-2007 11:17:03
35	76689735	sip.epygi.com	Yes	02-Mar-2007 11:17:04
36	76689736	sip.epygi.com	Yes	02-Mar-2007 11:17:04
38	76689738	sip.epygi.com	Yes	02-Mar-2007 11:17:04
99	0385123220	vic.nexvoice.net.au	Yes	02-Mar-2007 11:48:21

The extension 99 row is circled in the screenshot.