

**Amiba Cloud PBX Integration
with Gigaset DECT N720 and N870**

Installation and User Guide

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This guide refers to the following software revisions:

Gigaset N720 DM PRO DECT Manager:	Revision	70.110.00.000.00
Gigaset N720 IP PRO DECT Base Station:	Revision	70.110.00.000.00
Gigaset N870	Revision	V2.26.1 (V2.26. 1+build.e2c130f)
Amiba Cloud PBX:	Revision	21.083

1 Introduction

The Amiba Cloud PBX has been integrated tightly with the Gigaset N720 and the N870 DECT to extend the PBX phone directory the DECT handset.

2 To set up the Amiba Cloud PBX

Here we describe how to configure the Amiba cloud PBX to provide access to the PBX directory from a DECT handset. The handset described is the Gigaset S650, but other handsets with similar navigation keys will also work.

2.1 Check the SIP extensions credentials on the Amiba Cloud PBX

Logon to the installer portal of the Amiba cloud PBX and under the Users tab go to the User Settings page. Select an unused extension to be allocated to the DECT handset and tick the Enabled tick box, enter the user data and press Save.

The screenshot shows the Amiba Cloud PBX administration interface. The top navigation bar includes the Amiba logo, 'ADMINISTRATION (mdsinstall) Back', and menu items: System, Time, Users (selected), Groups, Trunks, Access Control, Contact Centre, and Call Logging. The main content area is titled 'User Settings' and contains a table of SIP extensions. The table has the following columns: Index, Number, Name, E-mail Address, Mobile Number, PIN Code, Enabled (14/15), Outgoing CLI, Send Welcome Email, and Contacts Actions. The 'Enabled' column contains checkboxes, and the 'Outgoing CLI' column contains dropdown menus set to 'None'. A 'Save' button is located at the bottom of the table.

Index	Number	Name	E-mail Address	Mobile Number	PIN Code	Enabled (14/15)	Outgoing CLI	Send Welcome Email	Contacts Actions
8	108	Poste 108			3208	<input type="checkbox"/>	None		0
9	109	Poste 109			0006	<input type="checkbox"/>	None		0
10	110	Poste 110			2611	<input checked="" type="checkbox"/>	None		0
11	111	Poste 111			5112	<input checked="" type="checkbox"/>	None		0
12	112	Poste 112			1746	<input checked="" type="checkbox"/>	None		0
13	113	Poste 113			6605	<input checked="" type="checkbox"/>	None		0
14	114	Poste 114			3262	<input checked="" type="checkbox"/>	None		0
15	115	Poste 115			9523	<input checked="" type="checkbox"/>	None		0
16	116	Poste 116			0403	<input checked="" type="checkbox"/>	None		0
17	117	Poste 117			0908	<input checked="" type="checkbox"/>	None		0
18	118	Poste 118			0130	<input type="checkbox"/>	None		0
19	119	Poste 119			8816	<input type="checkbox"/>	None		0
20	120	Poste 120			4048	<input type="checkbox"/>	None		0
21	121	Poste 121			1292	<input type="checkbox"/>	None		0
22	122	Poste 122			9137	<input type="checkbox"/>	None		0
23	123	Poste 123			5142	<input type="checkbox"/>	None		0
24	124	Poste 124			4560	<input type="checkbox"/>	None		0
25	125	Poste 125			7419	<input type="checkbox"/>	None		0
26	126	Poste 126			6212	<input type="checkbox"/>	None		0
27	127	Poste 127			1888	<input type="checkbox"/>	None		0

2.2 Check the SIP registration credentials for the DECT handsets. Go to the IP Phone Registration page under the Users tab and scroll to the unused extensions that will be allocated to the DECT handset. Make a note of the IP registration name and the PIN. You may change these from the default values if you wish.

The screenshot shows the 'IP Phone Registration' page in the amibacom ADMINISTRATION interface. The page has a dark blue header with the time '16:27:39' and the language 'English'. The navigation menu includes 'System', 'Time', 'Users', 'Groups', 'Trunks', 'Access Control', 'Contact Centre', and 'Call Logging'. The main content area shows a table with the following columns: Index, User Number, Username, IP registration name, PIN Code, and Details. The table contains 20 rows of data, all with a status of 'Not Connected'. A blue box highlights the 'IP registration name' and 'PIN Code' columns for all rows. A 'Download' button is located at the top left of the table, and a 'Save' button is at the bottom right. The page also includes a 'Number Per Page' dropdown set to '50' and a 'Page' indicator showing 'Page 1 2 3 4'.

Index	User Number	Username	IP registration name	PIN Code	Details
1	101	Poste 101			Not Connected
2	102	Poste 102			Not Connected
3	103	Poste 103			Not Connected
4	104	Poste 104			Not Connected
5	105	Poste 105			Not Connected
6	106	Poste 106			Not Connected
7	107	Poste 107			Not Connected
8	108	Poste 108			Not Connected
9	109	Poste 109			Not Connected
10	110	Poste 110			Not Connected
11	111	Poste 111			Not Connected
12	112	Poste 112			Not Connected
13	113	Poste 113			Not Connected
14	114	Poste 114			Not Connected
15	115	Poste 115			Not Connected
16	116	Poste 116			Not Connected
17	117	Poste 117			Not Connected
18	118	Poste 118			Not Connected
19	119	Poste 119			Not Connected
20	120	Poste 120			Not Connected

These registration credentials will be needed to programme the DECT handsets as described below.

3 Program the Gigaset N720

The DECT handsets should now be registered to the DECT base station as described in the handset guide.

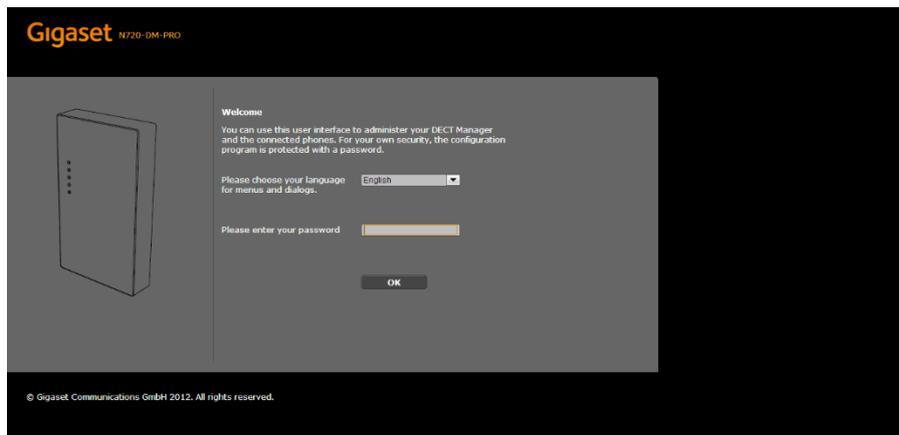
The Gigaset N720 DM PRO is a DECT system manager capable of controlling multiple DECT base stations. The connection between the manager and DECT base stations on the same LAN is established automatically.

3.1 Logon to the DECT Manager.

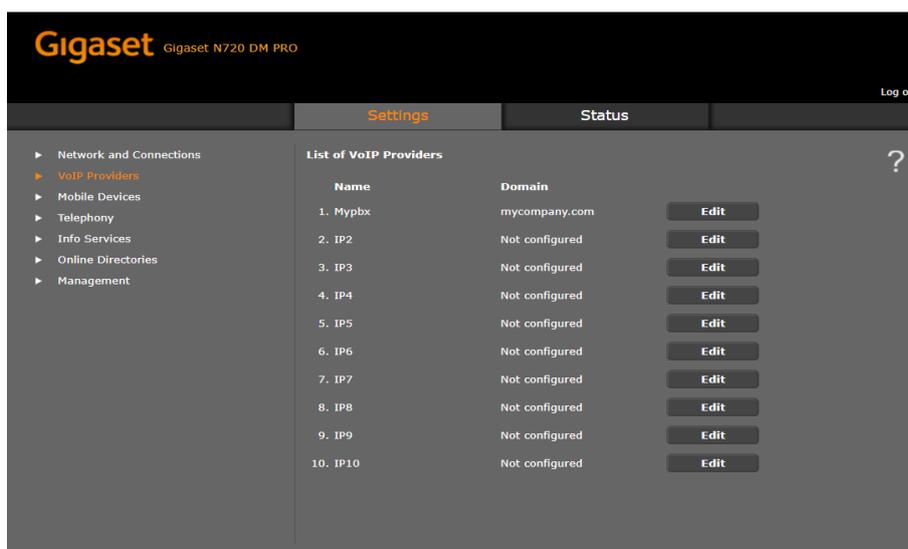
Logon to the Gigaset N720 DM PRO DECT Manager from a PC on the LAN by typing the following URL into the browser:

www.gigaset-config.com

Password: admin



3.2 Program the Amiba Cloud PBX details into the DECT manager.



Click on 'VoIP Providers'

▶ Network and Connections
 ▶ VoIP Providers
 ▶ Mobile Devices
 ▶ Telephony
 ▶ Info Services
 ▶ Online Directories
 ▶ Management

VoIP Provider 1

Profile Download

Provider: Mypbx

Profile version:
 Select VoIP provider

General Data of your Service Provider

Domain: mycompany.com

Proxy server address: mypbx.mycompany.com

Proxy server port: 5060

Registration server: mypbx.mycompany.com

Registration server port: 5060

Registration refresh time: 180 sec

Network Data of your Service Provider

STUN enabled: Yes No

STUN server address:
 STUN server port: 3478

STUN refresh time: 240 sec

NAT refresh time: 20 sec

Outbound proxy mode: Always Automatic Never

Outbound server address: mypbx.mycompany.com

Outbound proxy port: 5060

Network Protocol

Select protocol: Automatic UDP only TCP only

Set **Cancel** **Delete**

- Set the Domain, the Proxy Server Address and the Registration server to the URL of the Amiba Cloud PBX, for example, mypbx.mycompany.com
- Set the Proxy server port to 5060.
- Set Registration refresh time to 180 seconds
- Set STUN Enabled to NO.
- Set NAT Refresh time to 20 sec.
- Set Outbound Proxy mode to Automatic
- Set outbound server address to the IP address of the Amiba Cloud PBX
- Set outbound proxy port to 5060
- Press SET at the bottom of the page to save the settings.

3.3 Program the Registration details in the DECT handsets

- Click on 'Mobile Devices' to see the registered DECT handsets.

The screenshot shows the settings interface for a Gigaset N720 DM PRO handset. The top navigation bar includes 'Settings' and 'Status'. A left sidebar lists menu items: Network and Connections, VoIP Providers, Mobile Devices (highlighted), Telephony, Info Services, Online Directories, and Management. The main content area is titled 'Mobile device 1' and shows the following configuration:

Mobile device registered	
Device type	S650H PRO
DECT user identity (IPUI/IPEI)	02 EA 45 64 46
Software version	63
Deregister mobile device for this SIP connection	Deregister
Personal Provider Data	
A separate SIP connection must be assigned to each handset.	
Authentication name	kdfbocni2467
Authentication password	*****
Username	John Smith
Display name	John
Select VoIP provider	1. Mypbx
Show advanced settings	
Set Cancel	

- At 'New mobile device with own data', click 'Add'
- Click Edit for the device and program the Authentication name and Password with the IP registration name and IP registration PIN of the extension as defined in the IP Phone registration page of the Amiba Cloud PBX. Select the VoIP provider that programmed in the previous section.
- Click 'Set' to at the bottom of the page save the settings.

3.4 Programme the DECT Controller to search the PBX directories

- Click on 'Online directories'

Directory via XML Protocol

Directory name

Server address

Username

Password

Enable directory

Enable private online directory Yes No

The private online directory has the same server address as the directory via XML protocol.

Set **Cancel**

- Scroll down to 'Directory via XML Protocol' and enter the following:
Directory name: PBX Directory
Server address: [PBX NAME].[DOMAIN]/[PBX NAME]/xhtml.cgi , for example, mypbx.mycompany.com/mypbx/xhtml.cgi
Username & Password not required.
Enable phone book: checked
Enable a private online directory: No
- Click 'Set' at the bottom of the page, to save the settings

3.4 Program the INT key on the handsets

- Click 'Mobile Devices' and select 'Edit' for the handset.
- Select 'Show advanced settings'

Hide Advanced Settings

Online directories

You can decide which directory will be opened by pressing the directory key and the INT key on your handset. One online directory can be selected for an automatic name search.

Directory for direct access

Corporate directory for INT key

Automatic look-up

Network Mailbox Configuration

Call number or SIP name (URI)

Activate network mailbox Yes No

Apply changes for all SIP connections **OK**

- Under the setting 'Corporate Directory for INT Key', select 'Public PBX Directory'
- Click 'Set' at the bottom of the page to save the settings
- Power cycle the Gigaset N720 DM PRO Manager to implement the new settings.

3.5 Using the PBX Directory on the DECT handset

- Pressing the 'INT' key on the DECT handset allows you to search the PBX common directory and Extension list.

4 Program the Gigaset N870

The DECT handsets should now be registered to the DECT base station as described in the handset guide.

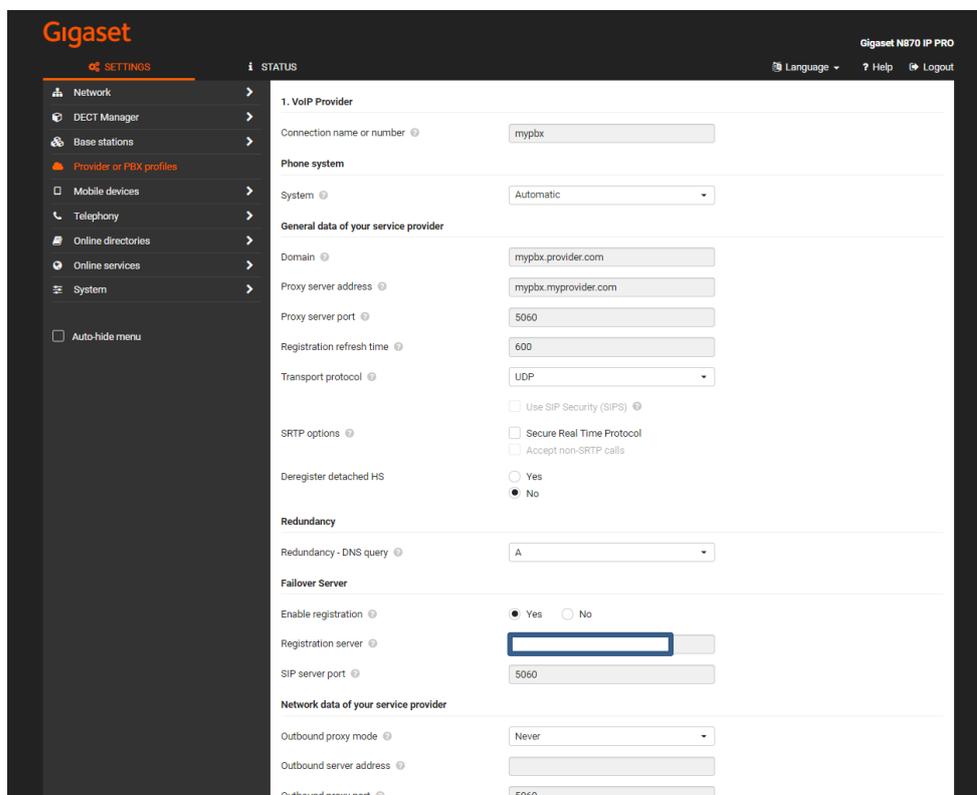
The Gigaset N870 is a DECT system manager capable of controlling multiple DECT base stations. The connection between the manager and DECT base stations on the same LAN is established automatically.

4.1 Logon to the DECT Manager.

Logon to the Gigaset N870 as described in the product manual.

4.2 Program the Amiba Cloud PBX details into the DECT manager.

Navigate to Settings/Provider of PBX Profiles/ and click on the Edit button for an unused Provider.



The screenshot shows the '1. VoIP Provider' configuration page in the Gigaset N870 IP PRO settings. The page is divided into several sections with various input fields and checkboxes. The 'Registration server' field is highlighted with a blue box. The 'Enable registration' radio button is set to 'Yes'.

Section	Field	Value
1. VoIP Provider	Connection name or number	mypbx
	System	Automatic
General data of your service provider	Domain	mypbx.provider.com
	Proxy server address	mypbx.myprovider.com
	Proxy server port	5060
	Registration refresh time	600
	Transport protocol	UDP
	Use SIP Security (SIPS)	<input type="checkbox"/>
	Secure Real Time Protocol	<input type="checkbox"/>
SRTP options	Accept non-SRTP calls	<input type="checkbox"/>
	Deregister detached HS	<input checked="" type="radio"/> No
	Redundancy - DNS query	A
Failover Server	Enable registration	<input checked="" type="radio"/> Yes
	Registration server	[Highlighted]
	SIP server port	5060
Network data of your service provider	Outbound proxy mode	Never
	Outbound server address	
	Outbound proxy port	5060

- Set the Domain and the Proxy Server Address and the Registration server to the URL of the Amiba Cloud PBX, for example, mypbx.mycompany.com
- Set the Proxy server port to 5060.
- Set Registration refresh time to 180 seconds
- Set Outbound Proxy mode to Automatic
- Set outbound server address to the IP address of the Amiba Cloud PBX
- Set outbound proxy port to 5060
- Press SET at the bottom of the page to save the settings.

4.3 Program the Registration details in the DECT handsets

- Navigate to Settings/Mobile devices and click the edit button for the device.

The screenshot shows the Gigaset N870 IP PRO settings interface. The left sidebar contains navigation options: Network, DECT Manager, Base stations, Provider or PBX profiles, Mobile devices (selected), Administration (Registration Centre, Telephony, Online directories, Online services, System), and Auto-hide menu. The main content area is titled 'Mobile device' and includes the following sections:

- Mobile device:** IPUI (0324e3352f), RegStatus (Registered), Authentication Code (PIN) (0000), and a 'Generate random PIN' button.
- Personal provider data:** A note stating 'A separate SIP connection must be assigned to each handset.' Fields for Authentication name, Authentication password, Username, Display name, and VoIP provider are present, with the first three highlighted by blue boxes.
- Online directories:** Directory for direct access (Online directories), Directory for INT key (Public White Pages (XML)), and Automatic look-up (Public White Pages (XML)).
- LDAP authentication:** Selected LDAP book (None) and Show other LDAP servers (No).
- Network mailbox configuration:** Call number or SIP name (URI) (*99) and a checked 'Activate network mailbox' option.

At the bottom of the page, there is a 'Group pick-up' section.

- Program the Authentication name and Password with the IP registration name and IP registration PIN of the extension as defined in the IP Phone registration page of the Amiba Cloud PBX. Select the VoIP provider that programmed in the previous section.
- Program the three options in the section Online Directories as shown above in the screenshot.
- Click 'Set' to at the bottom of the page save the settings.

- 4.4 Programme the DECT Controller to search the IPPBX directories
- Navigate to Settings/Online directories/XML/ and click the edit button for the Public directory.

The screenshot shows the 'Public Directory via XML Protocol' configuration page in the Gigaset N870 IP PRO web interface. The page is divided into several sections:

- Public Directory via XML Protocol:**
 - Directory name: PBX Directory
 - Server address: [Red box highlights this field]
 - Username: [Empty field]
 - Password: [Empty field]
 - List update / refresh: Yes No
- Public White Pages:**
 - Enable White Pages: Yes No
 - Directory name: PBX Directory
 - Start mode: List
- Public Yellow Pages:**
 - Enable Yellow Pages: Yes No
- Public Private Pages:**
 - Enable Private Pages: Yes No

Buttons for 'Set' and 'Cancel' are located at the bottom of the page.

- Enter the following:
 Directory name: PBX Directory
 Server address: [PBX NAME].[DOMAIN]/[PBX NAME]/xhtml.cgi , for example, mypbx.mycompany/mypbx/xhtml.cgi
 Username & Password not required
 Public White Pages: Enable
 Directory Name: PBX Directory
 Start Mode: List
- Click 'Set' at the bottom of the page, to save the settings
- Power cycle the Gigaset N870 to implement the new settings.

- 4.5 Using the PBX Directory on the DECT handset
- Pressing the 'Directory' or 'INT' key on the DECT handset allows you to search the PBX common directory and Extension list.

5 Gigaset N510 parameters required for Call Transfer

1. Set the codec to G.711 only.
2. Set the parameter 'Initiate transfer with R button'
3. Set the parameter 'Transfer on Hang-up'