

**Opera 240 System DECT Integration
with Gigaset N720 IP PRO Base Station
and Gigaset N720 DM PRO Manager
Installation and User Guide**

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This guide refers to the following software revisions:

Gigaset N720 DM PRO DECT Manager:	Revision 71.040.00.000.00
Gigaset N720 IP PRO DECT Base Station:	Revision 71.040.00.000.00
MDS Gateways Opera 240 System:	Revision 13.650

1 Introduction

The Opera 240 IPPBX System has been integrated tightly with the Gigaset N720 DECT to extend the system phone features to the DECT handset. These features include:

- Searching the centralised PBX directory
- Manage your call diversions
- Change your extension settings such as language, outgoing CLIP, extension PIN code, auto-answer setup, paging setup..
- Set Do Not Disturb
- Opt in or out of group
- Operator Switch PBX to night mode

2 To set up the Opera 240 System and the Gigaset DECT system.

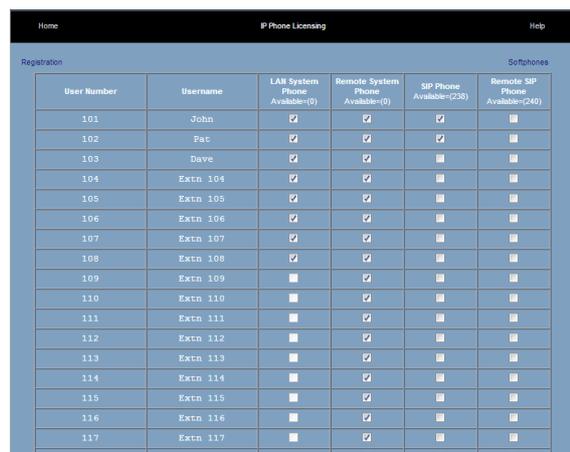
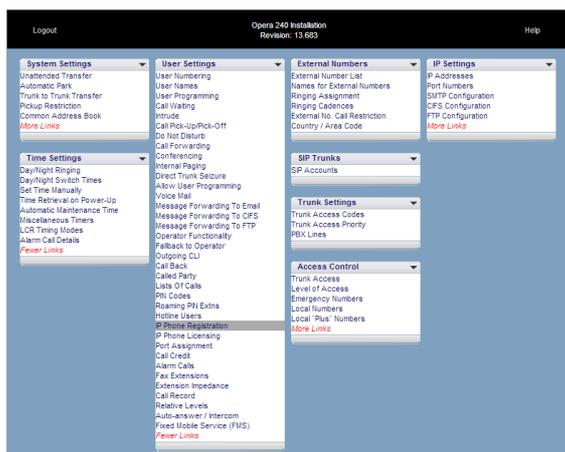
The Opera 240 System and the Gigaset N720 IP PRO DECT Base station and the Gigaset N720 DM PRO Manager are connected on the same LAN.

The DM PRO is a DECT system manager capable of managing multiple base stations. The connection from the manager to all the DECT base stations on the LAN is established automatically.

Here we describe how to configure the DM PRO to interface with the Opera 240 system. The DECT handset used is the KPN model Chicago 800M, but other handsets with similar navigation keys will work equally well.

3 Check the SIP extensions on the Opera 240

The Opera 240 SIP extensions are connected to the DECT handsets. Logon to the Opera system programming and check that there are sufficient sip extension licences available on the 'IP Phone Licensing' page (under 'User Settings', below). The number of available licenses is shown at the top of the 'SIP Phone' column. You will need one sip extension for each DECT handset. Allocate a SIP Phone license to each extension which will use a DECT handset by ticking the white box in the 'SIP Phone' column and press 'Save'.

The image shows a screenshot of the IP Phone Licensing web interface. The page title is "IP Phone Licensing". There are "Home" and "Help" links at the top. The main content area is a table with the following columns: "User Number", "Username", "LAN System Phone Available(0)", "Remote System Phone Available(0)", "SIP Phone Available(235)", and "Remote SIP Phone Available(240)". The table contains 18 rows of data, each representing a SIP extension. The "SIP Phone Available" column has a small icon of a phone handset next to the number 235. The "Remote SIP Phone Available" column has a small icon of a phone handset next to the number 240. The "SIP Phone" column contains checkboxes, some of which are checked. The "Remote SIP Phone" column contains checkboxes, some of which are checked. The table is titled "Registration" and "Softphones".

If you need additional sip licences these can be purchased from your Opera system vendor and must be installed on the system licences page. Once the licence has been installed and the system re-started, the licences must be allocated the individual extensions that will be used to interface the Gigaset DECT system.

4 Check the registration details of the SIP extensions.

You should note the IP Registration Name and PIN for each of these extensions. These are displayed on the 'IP Phone registration' page. These details will need to be programmed into the SIP authentication details of the Gigaset DECT system as described below.

The screenshot shows the 'Opengear 240 Installation' web interface. The main menu is divided into several sections:

- System Settings:** Unattended Transfer, Automatic Park, Trunk to Trunk Transfer, Pickup Restriction, Common Address Book, [More Links](#)
- Time Settings:** Day/Night Ringing, Day/Night Switch Times, Set Time Manually, Time Retrieval on Power-Up, Automatic Maintenance Time, Miscellaneous Timers, LCR Timing Modes, Alarm Call Details, [Power Links](#)
- User Settings:** User Numbering, User Names, User Programming, Call Waiting, Intrude, Call Pick-Up/Pick-Off, Do Not Disturb, Call Forwarding, Conferencing, Internal Paging, Direct Trunk Ejecture, Allow User Programming, Voice Mail, Message Forwarding To Email, Message Forwarding To CFS, Message Forwarding To FTP, Operator Functionality, Fallback to Operator, Outgoing CLI, Call Back, Called Party, Lists Of Calls, PIN Codes, Roaming PIN Extra, Hotline Users
- External Numbers:** External Number List, Names for External Numbers, Ringing Assignment, Ringing Cadenaces, External No. Call Restriction, Country / Area Code
- SIP Trunks:** SIP Trunks, SP Accounts
- Trunk Settings:** Trunk Access Codes, Trunk Access Priority, PBX Lines
- Access Control:** Trunk Access, Level of Access, Emergency Numbers, Local Numbers, Local Plus Numbers, [More Links](#)
- IP Phone Registration:** P Phone Licensing, Port Assignment, Call Credit, Alarm Calls, Fax Extensions, Extension Impedance, Call Record, Relative Levels, Auto-answer / Intercom, Fax/Host Service (FMS), [Power Links](#)
- IP Settings:** IP Addresses, Port Numbers, DHCP Configuration, CFS Configuration, FTP Configuration, [More Links](#)

The screenshot shows the 'IP Phone Registration' page with a table listing the registration details for 18 extensions. The table columns are: User Number, Username, IP registration name, IP registration PIN, Auto-Discovery Pool, and IP Address.

User Number	Username	IP registration name	IP registration PIN	Auto-Discovery Pool	IP Address
101	John	10101	2890	<input type="checkbox"/>	< 192.168.1.188.SP >
102	Pat	10102	9284	<input type="checkbox"/>	Not Connected
103	Dave	10103	4131	<input checked="" type="checkbox"/>	Not Connected
104	Extn 104	10104	3953	<input checked="" type="checkbox"/>	Not Connected
105	Extn 105	10105	4851	<input checked="" type="checkbox"/>	Not Connected
106	Extn 106	10106	3729	<input checked="" type="checkbox"/>	Not Connected
107	Extn 107	10107	9284	<input checked="" type="checkbox"/>	Not Connected
108	Extn 108	10108	9143	<input checked="" type="checkbox"/>	Not Connected
109	Extn 109	10109	7492	<input checked="" type="checkbox"/>	Not Connected
110	Extn 110	10110	2277	<input checked="" type="checkbox"/>	Not Connected
111	Extn 111	10111	0011	<input checked="" type="checkbox"/>	Not Connected
112	Extn 112	10112	7860	<input checked="" type="checkbox"/>	Not Connected
113	Extn 113	10113	4125	<input checked="" type="checkbox"/>	Not Connected
114	Extn 114	10114	0946	<input checked="" type="checkbox"/>	Not Connected
115	Extn 115	10115	4655	<input checked="" type="checkbox"/>	Not Connected
116	Extn 116	10116	7857	<input checked="" type="checkbox"/>	Not Connected
117	Extn 117	10117	8114	<input checked="" type="checkbox"/>	Not Connected
118	Extn 118	10118	4554	<input checked="" type="checkbox"/>	Not Connected

5 Register the DECT Handset to the DECT BS

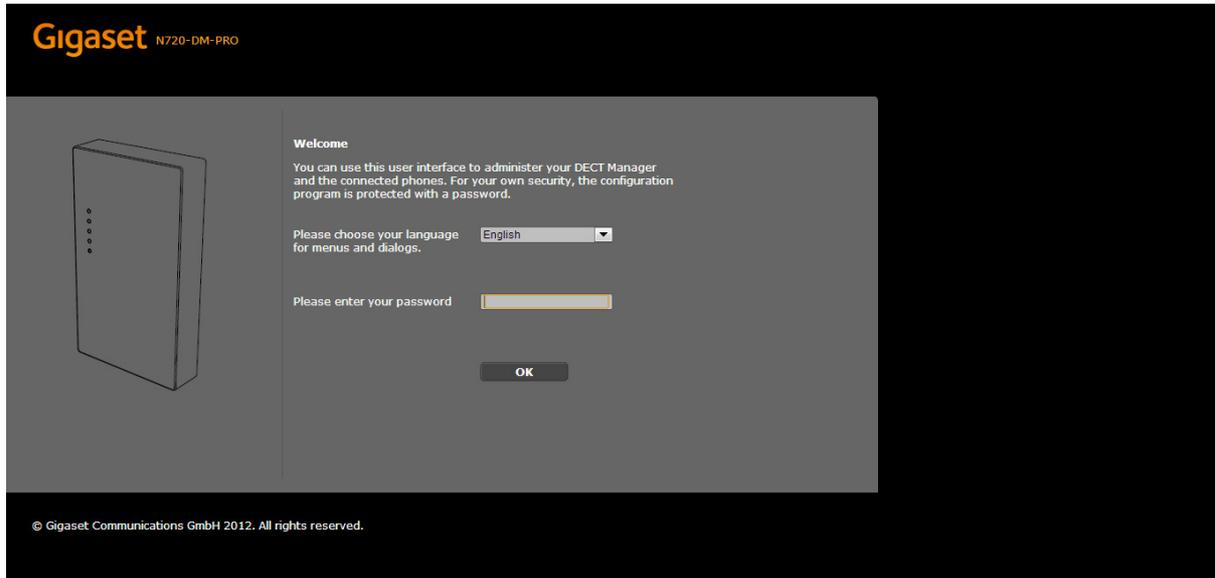
The DECT handsets should now be registered to the DECT base station as described in the handset guide.

6 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:

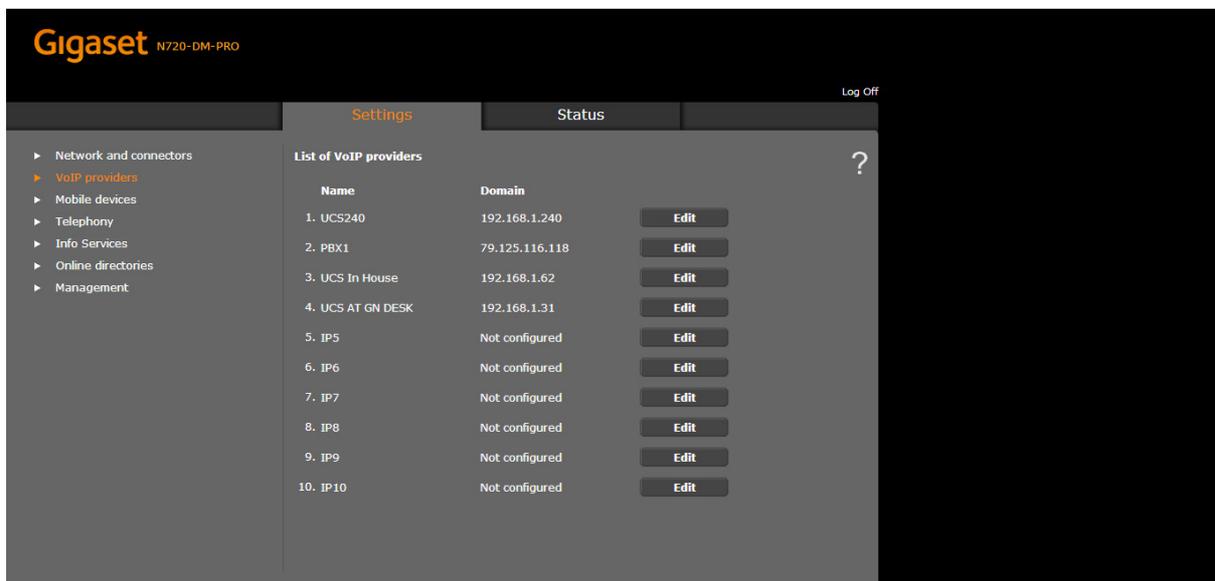
www.gigaset-config.com

Password: admin



7 Point the DECT manager at the Opera IP address.

- Click on 'VoIP Providers'



- Select an unused VoIP provider and press Edit.

	Settings	Status
<ul style="list-style-type: none"> ▶ Network and connectors ▶ VoIP providers ▶ Mobile devices ▶ Telephony ▶ Info Services ▶ Online directories ▶ Management 	<p>VoIP Provider 4 ?</p> <p>Profile Download</p> <p>Provider <input type="text" value="UCS AT GN DESK"/></p> <p>Profile Version</p> <p style="text-align: center;">Select VoIP Provider</p> <p>General data for your service provider</p> <p>Domain <input type="text" value="192.168.1.31"/></p> <p>Proxy server address <input type="text" value="192.168.1.31"/></p> <p>Proxy server port <input type="text" value="5060"/></p> <p>Registration server <input type="text" value="192.168.1.31"/></p> <p>Registration server port <input type="text" value="5060"/></p> <p>Registration refresh time <input type="text" value="180"/> sec</p> <p>Network data for your service provider</p> <p>STUN enabled <input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>STUN server address <input type="text"/></p> <p>STUN server port <input type="text" value="3478"/></p> <p>STUN refresh time <input type="text" value="240"/> sec</p> <p>NAT refresh time <input type="text" value="20"/> sec</p> <p>Outbound proxy mode <input type="radio"/> Always <input checked="" type="radio"/> Automatic <input type="radio"/> Never</p> <p>Outbound server address <input type="text" value="192.168.1.31"/></p> <p>Outbound proxy port <input type="text" value="5060"/></p> <p style="text-align: center;">Set Cancel Delete</p>	

- Set the Domain, the Proxy Server Address and the Registration server to the IP address of the Opera system.
- 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 Opera system
- Set outbound proxy port to 5060
- Press SET at the bottom of the page to save the settings.

8 Program the Registration details in the DECT handsets

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

The screenshot shows the 'Settings' tab of the DECT Manager. On the left is a navigation menu with 'Mobile devices' selected. The main area is titled 'List of registered mobile devices / subscribers' and contains a table with the following data:

	Username Display name	SIP connection	Handset registered	eMail account	Net AM	
1.	IP101 John	UCS AT GN DESK ✓	✓	-	✓	Edit
2.	IP102 John	UCS240 ✗	✓	-	✓	Edit

Below the table, there is a note: 'The provider account data should already exist before a mobile device is configured.' Below that are options to 'Add' a new device or 'Add' a device by copying data from an existing one. There are also radio buttons for 'Displayed name on idle display' (Username or Display name) and a dropdown for 'Check for new eMail' (Never).

- At 'New mobile device with own data', click 'Add'
- Click Edit for the device and program the Authentication name and Password with the 'IP Phone registration Name' and 'IP Registration PIN' of the sip extension as defined on the Opera system. Repeat this process for each DECT handset.

The screenshot shows the 'Settings' tab of the DECT Manager, specifically the configuration page for 'Mobile device 1'. The page is titled 'Mobile device 1' and contains the following fields:

- Personal Provider Data**
- A separate SIP connection must be assigned to each handset.
- Authentication name: IP101
- Authentication password: [masked]
- Username: IP101
- Display name: John
- Select VoIP provider: 4. UCS AT GN DESK

At the bottom, there is a 'Show Advanced Settings' button and 'Set' and 'Cancel' buttons.

- Click 'Set' to at the bottom of the page save the settings.

9 Configure the controller to allow access to system phone menus

- Click on 'Info Services'

The screenshot shows the 'Info Services' configuration page. The sidebar on the left has 'Info Services' selected. The main content area is titled 'Info Services' and contains the following settings:

- Info Services**
The handset can display info received from a server.
- Choose Info Services**
 - Customised Info Service
 - via Gigaset.Net
 - via PBX Manager
- Settings for the customised RAP Info Service**
 - Server address for online services: [Empty]
 - Username: johnm
 - Password: [Empty]
- Settings for PBX Manager**
 - Server address for PBX Manager menu: 192.168.1.31/menu
 - Username: [Empty]
 - Password: [Empty]

Buttons: Set, Cancel

- Check the box named 'via PBX Manager'
- Under the 'Settings for PBX Manager', set the server address to [Opera System IP Address]/menu. No username or password is required.
- Click 'Set' at the bottom of the page to save the settings.

10 Programme the Controller to search the IPPBX directories

- Click on 'Online directories'

The screenshot shows the 'Directory via XML protocol' configuration page. The main content area is titled 'Directory via XML protocol' and contains the following settings:

- Directory name: IPPBX
- Server address: 192.168.1.31/pb
- Username: [Empty]
- Password: [Empty]
- Enable phone book:
- Enable a private online directory: Yes No

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

Buttons: Set, Cancel

- Under the 'Directory via XML Protocol' enter the following:
Directory name: IPPBX
Server address: [System IP Address]/pb
Username & Password not required.
Enable phone book: checked
Enable a private online directory: No
- Click 'Set' to at the bottom of the page save the settings

11 Program the INT key and the voicemail key on the handsets

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

The screenshot shows a settings menu with a dark background. At the top, there is a button labeled 'Hide Advanced Settings'. Below this, the section 'Online directories' is titled. It contains a paragraph: '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.' There are three dropdown menus: 'Directory for direct access' set to 'Local directory', 'Corporate directory for INT key' set to 'Public PBX directory (XML)', and 'Automatic look-up' set to 'Public PBX directory (XML)'. Below this is the 'Network Mailbox Configuration' section, which has a text input field for 'Call number or SIP name (URI)' containing '*99'. There are radio buttons for 'Activate network mailbox' with 'Yes' selected. At the bottom, there is an 'OK' button and the text 'Apply changes for all SIP connections'.

- Under the setting 'Corporate Directory for INT Key', select 'Public PBX Directory'
- Under 'Network Mailbox Configuration', enter *99 for the number and set 'Activate network mailbox' to Yes.
- Click 'Set' to at the bottom of the page save the settings
- Power cycle the Gigaset N720 DM PRO Manager to implement the new settings.

12 Using the IPPBX Features on the DECT handset

- Pressing the 'INT' key allows you to search the IPPBX directories (Central, Personal and Extension list).
- Pressing the 'Menu' key, then selecting 'Select Services' -> 'PBX Control' gives you access to a range of menus as per the 'Menus' key on the IP keyset such as:
 - o Manage your call diversions
 - o Change your extension settings such as language, outgoing CLIP, extension PIN code, auto-answer setup, paging setup..
 - o Set Do Not Disturb
 - o Opt in or out of group
 - o Operator Switch PBX to night mode
- Press the voicemail key on the handset to listen to your voicemails.