HiPath 1100

HiPath 1120
HiPath 1130
HiPath 1150
HiPath 1190
Programming Manual

SIEMENS

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Introduction

The HiPath 1100 family consists of the following systems: HiPath 1120, HiPath 1130, HiPath 1150, and HiPath 1190. The features and operation of these systems are very similar. Their differences stem from their capability regarding the number of extensions, external lines and optional modules that they can accommodate.

The following documentation package was developed to describe the characteristics for these systems:

- User Manual:
  This manual describes step by step how to operate and use the features provided by each system.
- Programming Manual:
  The Configuration Manual briefly describes the installation of HiPath 1120, HiPath 1130, HiPath 1150 and HiPath 1190 systems as well as the programming codes for the entire family of systems. It highlights the specific characteristics of each system.
- System Telephones Instruction Manual:
  It is included with the telephone package and describes how to setup and use the telephone sets.
- Quick Reference Guide for Standard and System Telephones:
  This guide provides summarized information on how to use the different codes for the features of each system.
- Attendant Console Quick Reference Guide:
  This guide provides summarized information on how to use a system telephone as an Attendant Console.
- Service Manual
  This manual contains information regarding Siemens distributors and Service Centers where you can request maintenance service and programming assistance as well as purchase products and options for your Communications Systems.
- Warranty Certificate:
  This Certificate defines the terms and conditions of the warranty provided by Siemens.

About This Programming Manual

This User Manual describes how to program the HiPath 1100 systems. It also describes all the programming codes and functions provided by your system. Some functions may not be available with your system. The reasons for this are the following:

- The function is not configured for your type of line and/or system. Ask your System Administrator for further information.
- Your communications platform does not support the feature. Ask about upgrade capabilities for your system.

Important Notes

	Do not install the system or telephone sets where there may be a risk of explosion.
	To ensure optimal performance and operation use only original accessories manufactured by Siemens.
	Never open the system or dismantle any of the telephones. If you have any problems, ask for assistance from your System Administrator.

Care of the equipment
Avoid putting the system and telephones in contact with coloring liquids or other damaging fluids such as tea, coffee, fruit juices or soft drinks.

The information in this document provides only general descriptions of the features. The actual features may not correspond exactly to the descriptions herein and, furthermore, they are subject to changes to the extent that products continue to be developed.

The selection of features to be provided is not binding unless explicitly established in the terms of the contract.

Trademarks

This equipment conforms to the EU Directive 1999/5/EG, as attested by the CE mark.

This device has been manufactured in accordance with our certified environmental management system (ISO 14001). This process ensures the lowest consumption of raw materials and energy as well as the lowest production of industrial waste.

Step by Step

How To Use This Manual

The steps for programming the system are presented sequentially in graphic format under the column "Step by Step" on the left side of each page.

The graphic symbols have the following meaning:

FLASH Key - Standard MF telephone
FIL Key - System telephone

Press the Flash key if you are using a Standard MF telephone.

Programmable key.

Lift the handset.

Replace the handset.

Initiate conversation.

Enter numbers, keys, passwords, internal or external phone numbers, etc.

Back, Next and Enter Keys.

Press the key with the LED turned off.

Press the key with the LED turned on.

Press the key with the blinking LED.

Wait to hear an audible tone through the handset or speaker.

<< D >> An extension is calling.

All steps of operation described in this document apply to system telephones and standard telephones.

Features and Options

The HiPath 1100 comes with a basic configuration. However, it can be reconfigured to create large systems and provide many other functions through a series of options and expansion modules, depending upon your business needs. The list below shows different types of access, Option Modules, and Expansion Modules. Following this list you will find a table showing the number of modules for each system.

- External lines:
  - S_0 basic access (ISDN)
  - E1 CAS primary access
  - ADSL access
  - Analog line
- Internal extensions:
  - System telephones:
    Profiset E3030, E822 ST and E821 ST models.
  - Analog telephones (pulse or tone)
  - Answering machine
  - Fax
  - Entrance Telephone/Door Opener
- Sensor and Relay
- USB and V.24 adapter for system integration with applications such as CTI, HiPath 1100 Manager, billing, etc.
- Expansion Modules
  - EB 202: 2 external analog lines and 2 analog extensions.
  - EB 204: 2 external analog lines and 4 analog extensions.
  - EB 206: 2 external analog lines and 6 analog extensions.
  - EB 210: 2 external analog lines and 10 analog extensions.
  - EB 200: 2 external analog lines.
  - EB 400: 4 external analog lines.
  - EB 800: 8 external analog lines.
  - EB 010: 10 analog extensions.
  - EB 012: 12 analog extensions.
- Option Modules
  - S_0 module:
    Provides access to ISDN networks through basic S_0 digital access and allows for the use of network resources→ page 116.
  - TME1 module:
    Provides digital trunk connection through E1 CAS signaling → page 116.
  - Fax/DID module:
    Automatic answering and fax signal detection. It also transfers calls to the appropriate extensions → page 107.

- ADSL module:
  Provides ADSL (Asymmetric Digital Subscriber Line) access connection and LAN set-up for shared Internet access for PCs → page 126.
- Music Module (HiPath 1120):
  Ability to play music for calls on hold. The music input is provided by an external music source, such as a radio connected to the system → page 77.
  This module also features a relay and a sensor for supporting additional devices such as Entrance Telephones, Door Openers, alarms, etc. → page 127.
- CD 16 Module (HiPath 1190):
  This module is used for connecting up to 16 system telephones.

- Interaction Center Smart:
  It provides management resources for Call Centers including real time information and preconfigured reports.
- TAC Smart - Telephony Advanced Control (optional software):
  With the Telephony Advanced Control Smart you can identify callers on your computer monitor, including for calls received over an analog extension. This software also provides complete control of the telephone through a Windows interface (for making calls, answering and transferring calls, call forwarding, and so on...).
- CallReport is a billing system that records information on PABX system activity, such as calls received and calls made.

Modules and Their Capabilities

	HiPath 1120	**HiPath 1130**	**HiPath 1150**	**HiPath 1190**
Basic Configuration:				
External analog lines	2			0
Analog extensions	8	10		
System telephone interface	4	8		
Expansion modules[1]:				
EB 010	0	1	4	14
EB 012	0		3	8
EB 202	0	2	4	20
EB 204	2	0		
EB 206	0	1	4	16
EB 210	0	1	4	8
EB 200	2	2	4	16
EB 400	0	2	2	8
EB 800	0	1	1	4
Option Modules[2]				
S_0 Module	1			2
TME1 Module	0	1		2
ADSL Module	1			

	HiPath 1120	HiPath 1130	HiPath 1150	HiPath 1190
Fax/DID Module	1			
Music Module	1	on board		
CD 16 Module	0			1
TFE Door Opener interface	4			
Total System Capacity				
External line/extension/system telephones	6/16/4	17/20/8 16/20/8	10/50/8 or 16/40/8 or 17/46/8	32/140/24 or 45/140/24
Total external analog lines without a TME1 or a S_0 module[3]	6	14	16	32

1.When the maximum capability for external lines is exceeded due to the installation of EB, S_0 or TME1 modules, the system disables a number of external analog lines, adjusting the capability as needed for each system. The extensions slots, however, will continue to operate as usual.

For example, HiPath 1130

- Slot 0, MB 210,
- Slot 1, EB 210,
- Slot 3, TME1- 15 channels

In this case the external lines for EB 210 will not enabled, but the extension will.

2.$_S$0 and TME1 modules cannot be used simultaneously.
On the HiPath 1150 and HiPath 1190 ADSL and TME1 modules can be used simultaneously.

3.When using an external digital line, the maximum number of analog lines is calculated by subtracting the number of configured lines in each module from the total capacity of the lines.

Example 1: HiPath 1150

- Slot 0, MB 210
- Slot 3, S_0 - 5 ports = 10 external lines

Overall, there are 17 external lines at a maximum available on the system. This means there is room for 5 additional external analog lines.

10 S_0 external digital lines + 2 MB external analog line = 12 external lines.

An EB 400 could be used in Slot 1 or Slot 2. There are no 5-port modules.

If an EB 800 was installed on the switch, the entire module would be inoperable since it would exceed the system's maximum capacity for external lines.

Example 2: HiPath 1150

- Slot 0, MB 210
- Slot 3, TME1 = 15 external lines

Overall, there are 17 external lines at a maximum available on the system. This means there is no room for an additional EB module with an external analog line.

15 CAS external digital lines + 2 MB external analog lines = 17 external lines

If an EB 200 was installed in Slot 1 or Slot 2 the module would not be operable, since it would exceed the system's maximum capacity for external lines.

Example 3: HiPath 1150

- Slot 0, MB 210
- Slot 3, TME1 = 10 external lines (disable the channels in the TME1 Module and configure unused external lines as Vacant by turning the switch off then on again).

Overall, there are 12 external lines on the system. This means there are 5 additional external lines available before reaching the maximum capacity of 17 external lines.

10 CAS external digital lines + 2 MB external analog lines = 12 external lines.

An EB 400 could be used in Slot 1 or Slot 2. There are no 5-port modules.

If an EB 800 was installed on the switch, the entire module would be inoperable since it would exceed the system's maximum capacity for external lines.

⇩ HiPath 1120/1130/1150 Installation Guide

⇩ Summary of Programming Codes

Step by Step

Programming Mode

You can change the default settings of the HiPath 1100 to fit your needs.

System programming can only be executed using the system's first extension slot (analog extension (MF) or system telephone).

The Numbering Plan is configured based on the modules that are detected by the system.

- **For the HiPath 1120**:

1. Motherboard
2. S_0 Module
3. Analog modules

- **For HiPath 1130 and HiPath 1150:**

1. TME1 Module
2. Motherboard
3. S_0 Module
4. Analog modules

- **For HiPath 1190:**

1. Analog modules
2. TME1 Module
3. S_0 Module

The system can also be configured with the HiPath 1100 Manager administrative software. After connecting a PC to the system through a serial interface, all data can be stored on the hard drive (→ page 136).

Step by Step

Numbering Plan:

Description	HiPath 1120	HiPath 1130	HiPath 1150	HiPath 1190
External line	801 to 806	801 to 817		801 to 845
Extension, including S_0	11 to 30	11 to 60 610 to 621	11 to 60 610 to 645	101 to 240
Groups of external lines	0 890 to 899			
Call Groups (CG)	770 to 779			
Hunt Groups (HG)	780 to 789			
UCD Subscriber Groups	790 to 799			
USB/CAPI line	10	10		100

The instructions that follow refer to the factory default settings.

Activating System Programming Mode

We recommend using a system telephone with a display. If this is not possible, you may use a standard MF telephone. Programming cannot be executed using a pulse dialing telephone.

Standard telephones v. system telephones:
The step by step instructions on how to program a system are based on a standard telephone. If you are using a system telephone consider the following:

SPEAKER = HOOK

FEATURE = * (Service)

Lift the handset at the programmer's extension slot.

* 9 5 Enter the code for activating the System Programming.

Enter the system password (default is 31994 - Changing system password → page 88).

You will hear a tone indicating that you have now accessed the Programming Mode.

Step by Step

Audible Tones in the Programming Mode (Brazil)

- Correct entry: 1 beep/confirmation tone.
- Incorrect entry: 3 beeps. The program will then revert back to the initial screen of the Programming Mode.
- After completing the programming steps, the system responds with a confirmation tone and finalizes the setting configuration. The program will then revert back to the initial screen of the Programming Mode.

Canceling a Setting's Configuration

- You can cancel the configuration of a setting at any time by pressing the "#" key. The program will then revert back to the initial screen of the Programming Mode.

Exiting a Setting's Configuration

There are three different ways to finalize the configuration of a setting. After configuring the setting, you will be returned to the initial screen of the Programming Mode.

- After a setting is configured, the Programming Mode is automatically exited.
- After configuring a setting, press the # key.
- After configuring a setting, wait approximately 5 seconds.

If no code or setting is entered, the system will continue to wait for one or assume a "null entry" then proceed to the next programming step. The next step will depend on the code that was selected.

Exiting Programming Mode

After completing the configuration of a setting, you will be returned to the initial screen of the Programming Mode. Follow these steps to exit the Programming Mode:

Replace the handset.

Step by Step

Main Configurations

Some settings may be modified right from the beginning. In most cases, however, we recommend using the default settings. If you need to change any settings, see the following chapters:

Dialing Mode on an External Analog Line

This features specifies the dialing mode to be used over an external analog line (DP or MF).

Required: Programming Mode must be active (*95 31994).

1 9 ♪ Enter the code for programming.

♪ Enter a number for an external analog line (e.g., 801).

1 ... 2 ♪ Enter the appropriate code:

1 = Analog line: Pulse dialing (DP)

2 = Analog line: Multifrequency tone dialing (MF) (default for all analog lines)

♪ Enter the next external line number.

or

♪ Press this key.
Initial state for Programming Mode.

Default Access to a Group of External Lines

This feature configures the access method to be used for a group of external lines. The default external line access code is "0."

Required: Programming Mode must be active (*95 31994).

0 0 2 ♪ Enter the code for programming.

♪ Enter the extension number (e.g., 11/101).

Step by Step

Enter the number for the group of external lines (e.g., 0, 890, etc).

Enter the next extension number

or

♪ Press this key.
Initial state for Programming Mode.

For example,

External lines 801 and 802 are programmed as part of the 890 group of lines.
When using code 002, Extension 11/101 is assigned to Group 890. This means that when the "0" access code is entered at this extension a search for a free line is performed in Group 890.
If no line is available in Group 890, the system searches other groups.
With code 002, Extension 11/101 is assigned to Group 0. This means that when the "0" access code is entered at this extension a search for a free line will be performed in Group 0.
If line is available in Group 0, the system searches other groups.

Analog Line Attendants

If you want calls received over external analog lines to ring at specified extensions at certain times of the day, all you need to do is configure them as analog line Attendants.
Any extension can also be configured as a Second Attendant. In this case an extension only receives a call when the external line answering extension does not answer the call within a specified time (→ page 42. When this occurs, extensions configured as Second Attendants for external lines receive the call.

Required: Programming Mode must be active (*95 31994).

4 2 ♪ Enter the code for programming.

Enter a number for an external analog line (e.g., 801).

1 ... 4 Select the period of the day for answering calls:

Step by Step

1 = Day Service

2 = Night Service

3 = Day Service after a specified time period

4 = Night Service after a specified time period

... Enter the extension numbers (e.g., 11/101) or call groups that should signal when receiving calls from the specified external line (up to 10 extensions or 1 group).

Press this key.
Initial state for Programming Mode.

To assign an extension as an attendant for different lines, repeat the programming steps.

If an extension is connected to a Door Opener, it cannot be configured as an attendant.

Within a Subscriber Group an incoming call rings at the first extension available, according to the call distribution plan configured for the UCD Subscriber Group.

When there is no First Attendant configured, the call is forwarded to the Overflow extension. If an Overflow extension has not been configured, the call is terminated and does not ring at any extension, neither can it be captured. When this occurs, the system waits until the external line is made available by the Carrier.

Deleting Attendants for an External Line

Required: Programming Mode must be active (*95 31994).

4 2 Enter the code for programming.

Enter a number for an external analog line (e.g., 801).

***** The selected line attendant will be deleted.

Press this key.
Initial state for Programming Mode.

Step by Step

Speed Dialing

You can store up to 250 telephone numbers of up to 20 digits each in the System Speed Dialing. You can assign a name of up to 10 characters to each number. This allows you to do alphanumeric searches in the Speed Dialing Phonebook (see Alphanumeric Search in the Manual do Usuário).

You can lookup phone numbers in the Speed Dial Phonebook by entering their assigned speed-dial number. This can be done from any extension. By default there are no speed-dial numbers stored in the phonebook.

Required: Programming Mode must be active (*95 31994).

1 2 ♪ Enter the code for programming.

0 0 0 ... 2 4 9 ♪ Enter the appropriate speed-dial number (abbreviated number).

Enter the internal number, Code "0" for an external line or the external line number (e.g., 801). Then enter the external number (up to 20 digits).

When the system is operating as a Satellite PABX, first select a number for an external line (e.g., 801) or for a group of external lines (e.g., 890) connected to the PABX. Next, select the PABX internal access code or the PABX's Numbering Plan sequence required for making an external call. Finally, enter the external number (up to 20 digits).

Wait 5 seconds ♪ Wait for a confirmation tone.

♪ Initial state for Programming Mode.

For HiPath 1120:
Entry 249 of the speed-dial phonebook is shared by the Relay and Sensor functions and it may be assigned a name of up to 15 characters.

A name can be assigned to the number using the HiPath 1100 Manager.

Step by Step

Class Of Service (COS)

You can assign one of eight Classes Of Service (COS) to each telephone
(see page 25). Thus, it is possible to block outgoing calls to selected external numbers while allowing others to proceed. All classes of service allow for answering external calls and making internal calls.

Classes Of Service

- No Trunk Access (No Permission):
  You can only make external calls using the System Speed Dialing, Class 0.
- Outward-Restricted Trunk Access:
  You can only make external calls using the System Speed Dialing phonebook or one of the Permission Lists 1, 2 or 3 (→ page 22).
- Restricted Trunk Access (with Denied List):
  You can make external calls but not to numbers on Denied Lists 1, 2 or 3 (→ page 21).
- Unrestricted Trunk Access (Total Permission):
  You can make all Class 7 external calls.

Denied List

There are three lists of denied numbers that can be configured with different telephone numbers and individual extension prefix combinations.

- Denied List 1 (COS 1) with 4 entries
- Denied List 2 (COS 2) with 10 entries
- Denied List 3 (COS 3) with 35 entries

Telephones configured for Restricted Trunk Access (with Denied List) cannot dial numbers that start with those combinations. If you try to dial one of these numbers, the extension will answer with a busy signal.

Even though restrictions are set by the lists, the numbers entered in the Speed Dialing phonebook can be accessed by dialing the assigned speed-dial numbers.

The Denied List may contain some combinations already recorded, depending on the country (→ page 24). These can be deleted if needed.

Step by Step

Required: Programming Mode must be active (*95 31994).

2 **3** ♪ Enter the code for programming.

1 **or** **2** **or** **3** ♪ Enter the Denied List number you want to delete.

0 **1** **...** **3** **5** ♪ Enter the list entry of the number to be denied access.

Enter the number that will be denied access (up to 10 digits).
Warning: Enter the number without the external access code.

Wait 5 seconds ♪ Wait for a confirmation tone.
Initial state for Programming Mode.

To change a blocked number simply enter its list entry number and the new number.

Deleting Numbers from the Denied List

Required: Programming Mode must be active (*95 31994).

2 **3** ♪ Enter the code for programming.

1 **or** **2** **or** **3** ♪ Enter the Denied List number you want to delete.

0 **1** **...** **3** **5** ♪ Enter the list entry number of the number to be deleted.

Wait 5 seconds If no new number is entered after 5 seconds, the content of that entry is removed.

♪ Initial state for Programming Mode.

Permission Lists

There are three Permission Lists that can be configured with different telephone numbers and individual extension prefix combinations (enter the number without the external access code).

- Permission List 1 (COS 4) with 4 entries
- Permission List 2 (COS 5) with 10 entries
- Permission List 3 (COS 6) with 25 entries

Step by Step

In addition to speed-dial numbers, the telephones configured for Outward-Restricted Trunk Access (with Permission List) can only dial numbers that start with these combinations. When any other number is dialed, the phone answers with a busy signal.

The Permission List already contains some combinations. These can be deleted if so desired.

Required: Programming Mode must be active (*95 31994).

2 4 ♪	Enter the code for programming.
4 or 5 or 6 ♪	Enter the number for the Permission List.
0 1 ... 2 5 ♪	Enter the phonebook entry number for the number to be allowed access.
⌨	Enter the number that will be allowed access (up to 16 digits). Warning: Enter the number without the external access code.
Wait 5 seconds ♪	Wait for a confirmation tone. Initial state for Programming Mode.

To change an allowed number just enter its list entry number and the new number.

Deleting Numbers from a Permission List

Required: Programming Mode must be active (*95 31994).

2 4 ♪	Enter the code for programming.
4 or 5 or 6 ♪	Enter the number for the Permission List.
0 1 ... 2 5 ♪	Enter the list entry number of the number to be deleted.
Wait 5 seconds	If no new number is entered after 5 seconds, the content of that entry is removed.
♪	Initial state for Programming Mode.

Step by Step

Default Permission and Denied Lists

For both Permission Lists and Denied Lists there are some pre-programmed numbers that can be changed, if necessary.

Country	Permission List	Denied List
Brazil	190 193 0800 0810	0900 900
Argentina		
Portugal	112	64
Chile	800	
Venezuela		
Mexico		
Vietnam		
Spanish (IM)	190	
English (IM)		
French (IM)		
China		
Malaysia		
Singapore	999 1800 995 1608	#571#
Thailand	01 11 2 12 3 13 4 14 5 15 6 16 7 17 8 18 9 19	001 100 101
Greece	100 199 166 0800	090
India		
Pakistan		
Spain	091 1003 112 900	903 905 906
Russia	01 02 03 04	05 07 09 00
Ukraine		

Step by Step

Country	Permission List		Denied List
Peru	190		
Philippines			
Canada			
South Africa	1	072	09
	2	073	
	3	074	
	4	082	
	5	083	
	6	084	
	7	086	
	8	0800	
	9		

Permission for using the numbers in the Speed Dialing phonebook without a COS review.

Allows users with a class without permission to make external calls using the Speed Dialing phonebook.

Required: Programming Mode must be active (*95 31994).

0 7 2 ♩ Enter the code for programming.

***** or **#** ♩ To activate/deactivate the permission:

***** = To activate

= To deactivate (default)

♩ Initial state for Programming Mode.

Assigning a Class Of Service (COS)

Required: Programming Mode must be active (*95 31994).

1 1 ♩ Enter the code for programming.

▦ ♩ Enter the number for the group of external lines (e.g., 0, 890...899).

D N ♩ Enter COS for Day and Night Service.

Step by Step

D : Enter COS for Day Service

N : Enter COS for Night Service

Instead of entering **D** or **N** enter the following COS:

0 = No Trunk Access (No Permission)

1 = Outward-Restricted Trunk Access with Denied List 1 (4 entries)

2 = Outward-Restricted Trunk Access with Denied List 2 (10 entries)

3 = Outward-Restricted Trunk Access with Denied List 3 (35 entries)

4 = Outward-Restricted Trunk Access with Permission List 1 (4 entries)

5 = Outward-Restricted Trunk Access with Permission List 2 (10 entries)

6 = Outward-Restricted Trunk Access with Permission List 3 (25 entries)

7 = Unrestricted Trunk Access (default for all lines)

Enter the extensions (e.g., 11/101) to which the COS selected will be assigned.

Press this key.
Initial state for Programming Mode.

To assign a COS to additional lines, repeat the programming steps described above.

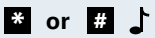
COS Changeover

You can allow or deny a temporary COS Changeover from an extension to a different extension.

Required: Programming Mode must be active (*95 31994).

Enter the code for programming.

Enter the extension number (e.g., 11/101).



To allow/deny COS Changeover:

***** = To allow

= To deny (default)

Step by Step

Enter the next extension number

or

♪ Press this key.
Initial state for Programming Mode.

Language

Select the desired language for displaying messages on the system telephones. The field is updated automatically according to the selection entered in the Country field. Note that when you change the language field the country field is not changed. It is possible, therefore, to select a country with a different default language. For example, Country: Brazil, Language: English.

Required: Programming Mode must be active (*95 31994).

6 4 ♪ Enter the code for programming.

0 ... 4 Select the language for displaying messages.

- 0 = Custom
- 1 = Portuguese
- 2 = Spanish
- 3 = English (default)
- 4 = French

♪ Initial state for Programming Mode.

Country/Group of Countries

To configure the settings correctly select the country where the system will be used.

Required: Programming Mode must be active (*95 31994).

6 5 ♪ Enter the code for programming.

0 1 ... 3 1 Enter the code for the country or group of countries as shown on the table below (e.g., "03" for Portugal).

♪ The system restarts after the change is made.

Step by Step

Code Table for Countries and Groups of Countries.

Code	Group	Countries	Display language
01	Brazil (default)	Brazil Bolivia Paraguay[1]	Portuguese Spanish Spanish
02	Argentina	Argentina	Spanish
03	Portugal	Portugal	Portuguese
04	Chile	Chile	Spanish
05	Venezuela	Venezuela	Spanish
06	Mexico	Mexico	Spanish
07	Vietnam	Vietnam	English
08	Spanish (IM)	Colombia Uruguay Ecuador Central America Indonesia[2]	Spanish English
09	English (IM)	Saudi Arabia Bahrain Egypt United Arab Emirates Ghana Yemen Iran Jordan Kuwait Libya Nigeria Oman Kenya Zimbabwe Syria Sudan Tanzania Serbia/ Montenegro	English

Step by Step

Code	Group	Countries	Display language
10	French (IM)	Algeria Cameroon Ivory Coast Lebanon Morocco Senegal Tunisia	French
11	China	China	English
12	Malaysia	Malaysia	English
13	Singapore	Singapore	English
14	Thailand	Thailand	English
15	Greece	Greece	English
16	India	India	English
17	Pakistan	Pakistan	English
18	Spain	Spain	Spanish
19	Russia	Russia	English
20	Ukraine	Ukraine	English
21	Peru	Peru	Spanish
22	China 2	China 2	English
23	Philippines	Philippines	English
24	Canada	Canada	English
25	South Africa	South Africa	English
26	Turkey	Turkey	English
27	Latvia	Latvia	English
28	Lithuania	Lithuania	English
29	Italy	Italy	English
30	Australia	Australia	English
31	United Kingdom	United Kingdom	English

1.For Bolivia and Paraguay, set "01=Brazil" for country/groups of countries then "02=Spanish" for language.
2.For Indonesia set "08=Intern. Spanish" for country/group of countries then "03=English" for language.

Step by Step

Attendant Console (AC)

The Attendant Console centralizes the flow of calls at up to two answering stations equipped with system telephones with a display. In the default configuration no Attendant Console is configured.

Required: Programming Mode must be active (*95 31994).

5 0 ♩ Enter the code for programming.

▦ ♩ Enter an extension number for the Attendant Console (e.g., 12/102).

▦ ♩ Enter the next extension number, if you like.

or

♩ Press this key.
Initial state for Programming Mode.

Deleting an Attendant Console

Required: Programming Mode must be active (*95 31994).

5 0 ♩ Enter the code for programming.

* ♩ Delete all Attendant Consoles.

♩ Press this key.
Initial state for Programming Mode.

The Attendant Console does not receive "Direct message to speakerphone" and it must not belong to any Associated Group.
Only the first Attendant Console can called by entering 9. For the second terminal you must enter the extension number.

Step by Step

Warning Tone for Calls without LCR

This feature alerts the user to the fact that the call HiPath 1100 being made may be charged by the Carrier at a higher rate than usual. This may be due to the unavailability of an external line for LCR (Least Cost Routing).

When using a standard telephone, a warning tone indicates to the user that a different carrier is completing the call at this time. When using a system telephone, the carrier's name will show on the display.

Required: Programming Mode must be active (*95 31994).

0 9 2 ♩ Enter the code for programming.

* or # ♩ Activate/Deactivate Tone:

* = To activate

= To deactivate (default)

♩ Initial state for Programming Mode.

In order to use this feature the HiPath 1100 must have been enabled for LCR (programmed via HiPath 1100 Manager).

Programming an External Line

Groups of external lines

Programming allows access to an external line or group of external lines through a code other than "0."

Required: Programming Mode must be active (*95 31994).

5 6 ♩ Enter the code for programming.

0 or 8 9 0 a 8 9 9 Enter the group code number (default is 0).

⠿ ♩ Enter a number for an external line (e.g., 801).

♩ Press this key.
Initial state for Programming Mode.

Step by Step

Overflow for a Group of External Lines

This feature makes a second group of external lines available in the event the lines in the first group are busy. The availability of the second group of external lines will depend on the extension's class of service.

Required: Programming Mode must be active (*95 31994).

0 9 9 ♪ Enter the code for programming.

0 or 8 9 0 a 8 9 9 Enter the number for the group of external lines (e.g.

0 or 8 9 0 a 8 9 9 Enter the overflow group number.

♪ Press this key.
Initial state for Programming Mode.

Configuring Priority by Type of External Line

External lines can be accessed using Code 0 or the code for the group of lines (e.g., 890). If the switch has analog and digital lines, you can configure the type of line that will be given priority.

Required: Programming Mode must be active (*95 31994).

9 4 ♪ Enter the code for programming.

1 ... 3 Select the type of line:

1 = Independent seizure of the type of line (default). In this case the seizure is sequential and cyclic.

2 = External digital lines are enabled as first option.

3 = External analog lines are enabled as first option.

♪ Initial state for Programming Mode.

Protocol for Seizing an External Analog Line

This feature specifies the protocol to be used by the system for seizing an external analog line, based on the local carrier's information.

Step by Step

Required: Programming Mode must be active (*95 31994).

0 1 7 ♪ Enter the code for programming.

⊞ ♪ Enter a number for an external analog line (e.g., 801).

1 ... 2 Select the type of protocol:

1 = LOOP seizure (default for "other countries")

2 = GROUND seizure (default for Canada)

♪ Press this key.
Initial state for Programming Mode.

When using the GROUND option for Canada, the "Polarity Reversal" feature for these external lines must be disabled.

Caller ID (CLIP) on an Analog Line

HiPath 1100 systems are capable of receiving Caller ID information through FSK and DTMF protocols over analog lines. This service must be activated by the local carrier.

The default setting depends on the country.

Required: Programming Mode must be active (*95 31994).

0 0 5 ♪ Enter the code for programming.

⊞ ♪ Enter a number for an external analog line (e.g., 801).

0 ... 3 Select the type of protocol:

0 = Disabled

1 = DTMF1 Brazil

2 = DTMF2 ETSI

3 = FSK

⊞ ♪ Enter the next external line number.

or

♪ Press this key.
Initial state for Programming Mode.

Step by Step

When you configure settings for a specific country, the appropriate protocol is automatically selected.

Country	Protocol	Code
Brazil (01)	DTMF1	1
Spanish - IM (08), English - IM (09), India (16) and Peru (21)	DTMF2	2
Other countries	FSK	3

Step by Step

External Line Call Direction

When a user tries to access a line, lines that have been previously programmed as outgoing are given priority. If an incoming call is received over that line, however, it will come through as usual.

To avoid this situation the method for accessing external lines can be defined at the time of making or receiving a call. This facility is usually contracted with the local carrier to ensure optimal usage of all lines available.

Required: Programming Mode must be active (*95 31994).

5 5 ♩ Enter the code for programming.

⠿ ♩ Enter a number for an external line (e.g., 801).

1 ... 3 ♩ Enter the number for the type of access to an external line:

- 1 = Bidirectional (default)
- 2 = Unidirectional incoming
- 3 = Unidirectional outgoing

⠿ ♩ Enter the next external line number.

or

♩ Press this key.
Initial state for Programming Mode.

Flash Duration

The duration of the Flash signal that is sent by the system to each external analog line can be configured individually. Flash signal duration depends on the specific setting for each country.

If the country configuration(→ page 27) or the type of external analog line (→ page 17) is changed, the Flash Duration will automatically reset to the default value.

Required: Programming Mode must be active (*95 31994).

1 8 ♩ Enter the code for programming.

⠿ ♩ Enter a number for an external analog line (e.g., 801).

Step by Step

0 5 ... 9 9 ♪ Enter the length of time (05 to 99) for the Flash signal. Take into account that 05 = 50 ms ... 99 = 990 ms.

⊞ ♪ Enter the number for the next external line available

or

♪ Press this key.
Initial state for Programming Mode.

Reseizure Time for an External Line

There is a timeout for reseizing an external line. Once an outgoing call has ended the line will remain blocked during the specified timeout.

Required: Programming Mode must be active (*95 31994).

2 9 ♪ Enter the code for programming.

0 5 ... 9 9 ♪ Enter the length of time (05 to 99) for the Flash signal, where 05 = 500 ms (default) to 99 = 9900 ms.

♪ Initial state for Programming Mode.

Valid only for external analog lines.

Maximum time between rings for an incoming call

This consists of the time interval between two call pulses from the local carrier (approximately 6 seconds). After this pause, the system disconnects the external line and is ready to receive new incoming calls.

In some countries the pause between pulses is longer than 6 seconds. When this occurs, the length of time can be set as desired.

Required: Programming Mode must be active (*95 31994).

1 7 ♪ Enter the code for programming.

⊞ ♪ Enter a length of time (05 to 20 seconds).

♪ Initial state for Programming Mode.

Step by Step

13 seconds for Argentina and 06 seconds for all other countries.

Coefficient for an External Analog Line

If the appropriate impedance value or type of external line is available, the quality of transmission and reception of information between the local carrier and the PABX can be improved.

Required: Programming Mode must be active (*95 31994).

4 7 ♩ Enter the code for programming.

⠿ ♩ Enter a number for an external analog line (e.g., 801).

1 ... 4 ♩ Enter the appropriate number for the type of external line. For Brazil, for example:

- 1 = 900 Ω Standard Line (default)
- 2 = 600 Ω Line
- 3 = Long Line
- 4 = Short Line

⠿ ♩ Enter the next external line number.

or

♩ Press this key.
Initial state for Programming Mode.

Polarity Reversal

When a carrier provides this facility, the CDR process occurs in real time. That is, when the party called answers/hangs up, the public exchange sends a signal to the system to initiate/end Call Detail Report.

The default setting for this feature is Deactivated.

Required: Programming Mode must be active (*95 31994).

5 8 ♩ Enter the code for programming.

⠿ ♩ Enter a number for an external analog line (e.g., 801).

Step by Step

* or # ♩ Activate or deactivate polarity reversal on an external line:

* = To activate

= To deactivate (default)

⠿ ♩ Enter the number for the next external line available

or

♩ Press this key.
Initial state for Programming Mode.

When using the GROUND option for Canada, this feature must be disabled for external lines.

Dial Tone Detection

If Dial Tone Detection is activated on an analog line, the number dialed will be stored and will only be sent to the external line after the extension detects a dial tone from the local carrier. With MF telephones the number dialed will be transmitted to the external line approximately 4 to 5 seconds after the last digit was dialed (1A dialing).

Required: Programming Mode must be active (*95 31994).

6 0 ♩ Enter the code for programming.

⠿ ♩ Enter a number for an external analog line (e.g., 801).

* or # ♩ Activate/Deactivate Dial Tone Detection for an external analog line:

* = To activate (default)

= To deactivate

⠿ ♩ Enter the number for the next external line available.

or

♩ Press this key.
Initial state for Programming Mode.

Step by Step

Operation as a Satellite PABX

When a group of external lines is programmed as a Satellite PABX, a false dial tone is not generated.

External Line Connection

This feature determines if an external analog line connected to one of the HiPath 1100 systems is also connected to a local carrier or another PABX.

Required: Programming Mode must be active (*95 31994).

3 3 ♪ Enter the code for programming.

⊞ ♪ ... ⊞ ♪ Enter the number for the group of external lines (e.g., 0, 890).

1 or 2 ♪ Enter the code for the type of connection:

1 = Connection to a local carrier (default)

2 = Connection to another PABX system

♪ Press this key.
Initial state for Programming Mode.

Second Code for External Access

This setting specifies the code used by the main PABX for accessing external lines. This code is used to check if there is a dial tone at an external line and to generate a pause while dialing, redialing or using the speed dialing feature.

The default setting for the second code is "0."

Required: Programming Mode must be active (*95 31994).

3 4 ♪ Enter the code for programming.

0 ... 9 or 0 0 ... 9 9 Enter the external access code for the main PABX (one or two digits) and wait for a confirmation tone:

0 ... 9 = Second external access code, one digit

0 0 ... 9 9 = Second external access code, two digits

Step by Step

Wait 5 seconds ♪ Wait for a confirmation tone.
Initial state for Programming Mode.

If no value is entered, Dial Tone Detection will not be activated.

Auto-Seizure Mode for an External Line

This allows dialing an external call when the handset is lifted, without using an access code (e.g., 0). When this setting is selected, you must enter a code to dial internal calls or activate the Extension key.

Required: Programming Mode must be active (*95 31994).

0 3 6 ♪ Enter the code for programming.

***** or **#** ♪ Activate/Deactivate auto-seizure:

***** = To activate

= To deactivate (default)

♪ Initial state for Programming Mode.

When option 0 (Automatic ID) is selected, the activation of this feature may impact the programming of the Dialing Mode. It is recommended that you reconfigure the Dialing Mode (Pulse or Tone) for the extensions.

False Tone

This send an external line dial tone even when there is no external line available.

Required: Programming Mode must be active (*95 31994).

0 6 3 ♪ Enter the code for programming.

***** or **#** ♪ Activate/Deactivate a false tone:

= Deactivated for Argentina and India

***** = Activated for all other countries (default)

♪ Initial state for Programming Mode.

Step by Step

If LCR (configured via the HiPath 1100 Manager) or Emergency Numbers is enabled, the user will hear a False Tone.

Step by Step

External Line Present

System slots that are not connected to an external line should be configured as "unavailable."

Required: Programming Mode must be active (*95 31994).

0 7 9 ♪ Enter the code for programming.

⊞ ♪ Enter a number for an external analog or digital line (e.g., 801).

* or # ♪ Present/Absence of an external line

* = Present (default)

= Absent

♪ Press this key.
Initial state for Programming Mode.

In the case of an external ISDN line, if the setting is configured as Absent two interfaces will be disabled.

For digital lines (E1 CAS) you must program the TME1 Module using the HiPath 1100 E1 Trunk Manager application.

Waiting time for a second External Analog Line Attendant

With this feature a call rings directly and immediately at the First Attendant. After a specified timeout the call is routed to the Second Attendant for that line (→ page 18).

The default configuration is set to 30 seconds.

Required: Programming Mode must be active (*95 31994).

0 8 3 ♪ Enter the code for programming.

⊞ ♪ Enter a number for an external analog line (e.g., 801).

0 0 ... 9 9 Enter the activation timeout (00 to 99 in 5-second increments) where 00 = 0 seconds... 06 = 30 seconds (default), etc.

♪ Initial state for Programming Mode.

Step by Step

Programming an Extension

Pickup Groups

Extensions can be grouped into a maximum of 16 Pickup Groups. This allows an extension to answer calls that ring at other extensions belonging to the same Pickup Group.

Required: Programming Mode must be active (*95 31994).

4 3 ♪ Enter the code for programming.

0 1 ... 1 6 ♪ Enter the number of the Pickup Group (01 to 16).

▦ ♪ ... ▦ ♪ Configure extensions for a Pickup Group (e.g., 11/101).

♪ Press this key.
Initial state for Programming Mode.

You can also add extensions to an existing Pickup Group.

Deleting Extensions from a Pickup Group

Required: Programming Mode must be active (*95 31994).

4 3 ♪ Enter the code for programming.

0 1 ... 1 6 ♪ Enter the number of the Pickup Group (01 to 16).

* ♪ Delete the extensions in the call Pickup Group.

♪ Press this key.
Initial state for Programming Mode.

Alert Ring Timeout for Pickup Groups

If a call is not answered within a specified period of time, a short alert ring is sent to the Pickup Group (see also Pickup Groups).

Required: Programming Mode must be active (*95 31994).

0 3 5 ♪ Enter the code for programming.

Step by Step

0 0 ... 5 9 ♪ Enter the length of time for the Alert Ring Signal (00 to 59 seconds).

or

* ♪ Disable the Alert Ring Signal (default).

♪ Initial state for Programming Mode.

Call Groups (CG)

Extensions can be grouped in Call Groups (CG) that can then be accessed through numbers 770 to 779. Whenever this number is dialed, every telephone in the group rings until one of them answers.

In the default configuration the first 10 extensions in HiPath 1100 systems belong to Call Group 770.

Required: Programming Mode must be active (*95 31994).

1 3 ♪ Enter the code for programming.

⠿ ♪ Enter the Call Group number (770 to 779).

⠿ ♪ ... ⠿ ♪ Enter the extension numbers (up to 10 extensions - e.g., 11/101) to be included in the Subscriber Group.

♪ Press this key.
Initial state for Programming Mode.

Deleting Extensions from a Call Group (CG)

Required: Programming Mode must be active (*95 31994).

1 3 ♪ Enter the code for programming.

⠿ ♪ Enter the Call Group number (770 to 779).

* ♪ All extensions belonging to the Call Group selected are deleted.

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Activating Callback/Urgent Call with Timeout

When an extension or external number is busy, this configuration allows you to set a timeout for activating the Callback or Urgent Call features after approximately 7 seconds.

Required: Programming Mode must be active (*95 31994).

0 3 7 ♩ Enter the code for programming.

* or # ♩ Activate/Deactivate the features:

* = To activate Callback and deactivate Urgent Call

= To deactivate Callback and activate Urgent Call (default)

♩ Initial state for Programming Mode.

Call Name/Number Display

This feature enables Caller ID information to be displayed on an extension's telephone display.

Required: Programming Mode must be active (*95 31994).

0 3 9 ♩ Enter the code for programming.

1 ... 3 ♩ Select the information to be shown on the display:

1 = Name and number (default)

2 = Name only

3 = Number only

♩ Initial state for Programming Mode.

Step by Step

UCD Subscriber Groups

A UCD Group (Uniform Call Distribution) is a group of extensions assigned to answer calls destined for a specific number that identifies the group. Internal or external calls are distributed cyclically among the members of a group or among agents. Then they are routed to the extension that has been free the longest. Calls made to a particular extension do not affect the distribution pattern. The calls that are not answered are not rerouted within the group.

Users can add or delete their own extensions in the UCD group (see UCD Group Login and Logout in the Manual do Usuário).

You can also view the UCD group call statistics using the Call Center Interaction Center Smart software.

Extensions can be grouped in a maximum of 10 UCD Groups (790 to 799). In the default configuration no extensions are assigned to Subscriber Groups.

Required: Programming Mode must be active (*95 31994).

0 2 3 ♪ Enter the code for programming.

▦ ♪ Enter the UCD Subscriber Group number (790 to 799).

▦ ♪ ... ▦ ♪ Enter the extension numbers (e.g., 11/101) to be included in the UCD Subscriber Group.

♪ Press this key.
Initial state for Programming Mode.

Deleting Extensions from a UCD Subscriber Group

Required: Programming Mode must be active (*95 31994).

0 2 3 ♪ Enter the code for programming.

▦ ♪ Enter the UCD Subscriber Group number (790 to 799).

* ♪ Deletes all extensions in the UCD Subscriber Group.

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Collect Call Barring for a UCD Subscriber Group

When Collect Call Barring is activated, all collect calls to a UCD Group are automatically rejected by the system. The system bypasses Collect Call Barring for members and non-members of the UCD Group. This means that Collect Call Barring is only acknowledged.

Required: Programming Mode must be active (*95 31994).

0 0 7 ♩ Enter the code for programming.

⠿ ♩ Enter the UCD Group number (e.g., 790).

* or # ♩ Activate/Deactivate Collect Call Barring:

* = To activate

= To deactivate (default)

⠿ ♩ Enter the next UCD Group number

or

♩ Press this key.
Initial state for Programming Mode.

If a call has been answered at least once by the system, Collect Call Barring cancels the blocking.

When an incoming call over a digital line is forwarded for not being answered (*14), and Collect Call Barring is activated, the call will ring at the First Attendant for the external line.

Call Waiting Message for UCD Queues

This feature enables assigning a message or Music On Hold for a UCD Group extension when all extensions in the group are busy.

Required: Programming Mode must be active (*95 31994).

0 2 4 ♩ Enter the code for programming.

⠿ ♩ Enter the UCD Group number (e.g., 790).

Step by Step

Enter the number for the extension connected to the answering machine/messaging equipment (e.g., 15/ 105)

or

* ♪ Enables to send music from an external music source to the UCD Queue (default).

♪ Press this key.
Initial state for Programming Mode.

UCD Queue Size

When all UCD Group agents are busy or unavailable, calls to a UCD Group are placed on a waiting queue. Calls are distributed among group members according to priority and waiting time on the queue.

Messages or music can be played for callers that are waiting.

This setting specifies the size of the UCD queue for each UCD Group. The default setting for UCD Groups is 99 queue positions.

Required: Programming Mode must be active (*95 31994).

0 2 5 ♪ Enter the code for programming.

Enter the UCD Subscriber Group number (e.g., 790).

0 0 ... 9 9 ♪ Set the size of the UCD Queue for a specific UCD Group (00 to 99 positions).

Enter the next UCD Subscriber Group number

or

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Timeout for Activating a Call Waiting Message for a UCD Queue.

This feature activates the playing of a message (announcement or music) for calls that are waiting to be answered.

Different timeouts can be set for playing a different message for each UCD Group. The default setting is for playing a message immediately, as soon as a call is placed in a queue.

Required: Programming Mode must be active (*95 31994).

0 2 6 ♪ Enter the code for programming.

▦ ♪ Enter the UCD Subscriber Group number (790 to 799).

0 0 ... 9 9 ♪ Enter a timeout for activating message playing (00 to 99 in 5-second increments) where 00 = 0 seconds (default)... 06 = 30 seconds, etc.

▦ ♪ Enter the next UCD Subscriber Group number

or

♪ Press this key.
Initial state for Programming Mode.

UCD Overflow Call Destination

This setting specifies a call destination for each UCD group when:

- All agents are logged out
- A UCD Queue reaches the maximum number of calls waiting
- The queue's overflow timeout expires.

In the default configuration the destinations for UCD Groups overflow are not specified.

Required: Programming Mode must be active (*95 31994).

0 2 7 ♪ Enter the code for programming.

▦ ♪ Enter the UCD Subscriber Group number (790 to 799).

Step by Step

Enter the overflow call destination. This can be a different UCD Subscriber Group or an extension.

Enter the next UCD Subscriber Group number

or

♪ Press this key.
Initial state for Programming Mode.

Deleting an overflow call destination

0 2 7 ♪ Enter the code for programming.

Enter the UCD Subscriber Group number (790 to 799).

* ♪ Deletes the overflow call destination.

Enter the next UCD Subscriber Group number

or

♪ Press this key.
Initial state for Programming Mode.

Round-robin Distribution of Calls to Agents

This setting allows you to configure a round-robin type distribution of calls so each call rings automatically at the station of the next available agent. If no agents are logged in, calls are forwarded to an overflow call destination.

Required: Programming Mode must be active (*95 31994).

0 2 8 ♪ Enter the code for programming.

Enter the UCD Subscriber Group number (790 to 799).

* **or** # ♪ Activate/Deactivate round-robin distribution of calls to agents:

* = To activate (default)

= To deactivate

Enter the next UCD Subscriber Group number

or

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Time for Agent's Notes

Upon ending a UCD call an agent may need to make some notes.

This features allows you to set a period of time for the agent to leave the Group and make notes about the call undisturbed.

The default setting is for the agent to become available immediately at the end of a call.

Required: Programming Mode must be active (*95 31994).

0 2 9 ♪ Enter the code for programming.

⠿ ♪ Enter the UCD Subscriber Group number (790 to 799).

0 0 ... 9 9 ♪ Specify the time for the agent to take notes (00 to 99 in 5-second increments) where 00 = 0 seconds (default)... 06 = 30 seconds, etc.

⠿ ♪ Enter the next UCD Subscriber Group number

or

♪ Press this key.
Initial state for Programming Mode.

Ring Signal Timeout for Agents

This setting specifies how long an incoming call will keep on ringing at an agent's station.

The default setting is 30 seconds.

Required: Programming Mode must be active (*95 31994).

0 3 0 ♪ Enter the code for programming.

⠿ ♪ Enter the UCD Subscriber Group number (790 to 799).

0 1 ... 9 9 ♪ Enter the timeout for a call to ring at an agent's station (01 to 99 in 5-second increments) where 01 = 5 seconds... 06 = 30 seconds (default), etc.

⠿ ♪ Enter the next UCD Subscriber Group number

or

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Time in a UCD Queue

This setting specifies the maximum length of time a call is allowed to remain in a UCD Queue.

Once the time expires the call is disconnected or forwarded to a UCD overflow call extension. The default setting for a call to remain in a Queue is 1 minute.

Required: Programming Mode must be active (*95 31994).

0 3 1 ♪ Enter the code for programming.

▦ ♪ Enter the UCD Subscriber Group number (790 to 799).

0 0 ... 9 9 ♪ Enter the time allowed for a call to remain in a Queue (00 to 99 in 5-second increments) where 00 = 0 seconds... 06 = 30 seconds ... 12 = 1 minute (default), etc.

▦ ♪ Enter the next UCD Subscriber Group number

or

♪ Press this key.
Initial state for Programming Mode.

Waiting Message before Signaling a UCD Call

This feature allows you to connect a call waiting message for incoming calls before they ring at a UCD extension.

Required: Programming Mode must be active (*95 31994).

0 3 2 ♪ Enter the code for programming.

▦ ♪ Enter the UCD Subscriber Group number (790 to 799).

* **or** # ♪ Activate/Deactivate call waiting message:

* = To activate

= To deactivate (default)

▦ ♪ Enter the next UCD Subscriber Group number

or

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Minimum Time for Call Waiting Message in a UCD Queue

This setting specifies a minimum length of time until a message is played for calls waiting in a UCD Queue.

Required: Programming Mode must be active (*95 31994).

0 3 3 ♪ Enter the code for programming.

⠿ ♪ Enter the UCD Subscriber Group number (790 to 799).

0 0 ... 9 9 ♪ Enter the minimum amount of time for playing the announcement (or music) (00 to 99 in 5-second increments) where 00 = 0 seconds (default)... 01 = 5 seconds (default) ... 06 = 30 seconds, etc.

⠿ ♪ Enter the next UCD Subscriber Group number

or

♪ Press this key.
Initial state for Programming Mode.

Hunt Groups (HG)

A Hunt Group is a group of extensions for answering calls directed to a specific number identifying the group. When an extension does not answer an internal or external call within a specified period of time, the call will ring consecutively at the extensions that are available within the group. When there is no signal, the extension may disconnect from the Hunt Group.

Extensions can be grouped in a maximum of 10 Hunt Groups (780 to 789). The default setting assigns no extensions to Hunt Groups.

Required: Programming Mode must be active (*95 31994).

0 2 1 ♪ Enter the code for programming.

⠿ ♪ Enter the Hunt Group number (780 to 789).

⠿ ♪ Enter the extension numbers (e.g., 11/101) to be included in the Hunt Group.

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Deleting extensions from Hunt Groups

Required: Programming Mode must be active (*95 31994).

0 2 1 ♪ Enter the code for programming.

⠿ ♪ Enter the Hunt Group number (780 to 789)

* ♪ Delete all extensions in the Hunt Group.

♪ Press this key.
Initial state for Programming Mode.

Search Mode for Hunt Groups

This setting specifies how each Hunt Group will conduct a search for an available extension: linear or round-robin search

- A linear search always starts from the first extension in the group.
- A round-robin search starts after the last extension selected.

Required: Programming Mode must be active (*95 31994).

0 2 2 ♪ Enter the code for programming.

⠿ ♪ Enter the Hunt Group number (780 to 789).

1 **or** 2 ♪ Select the search mode:

1 = Linear (default)

2 = Round-robin

⠿ ♪ Enter the next Hunt Group number

or

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Override

This settings allows an extension to override another extension when there is a conversation in progress. When this is done, the call that is overridden receives a warning tone.

In UCD Groups, Line Attendants can override without a beep the extensions of Agents that are logged in. Thus a group Supervisor can assess how clients are being treated.

Required: Programming Mode must be active (*95 31994).

4 **4** ♩ Enter the code for programming.

♩ Enter the extension number (e.g., 12/102).

0 or **1** ♩ Enter a permission type:

0 = Without permission to override (default)

1 = with permission to override and sending warning tone

♩ Enter the next extension number

or

♩ Press this key.
Initial state for Programming Mode.

Within the system, an Override has the same limitations as a Conference or Silent Monitoring, that is, a maximum of 2 simultaneous overrides are allowed. Note: The Silent Monitoring feature is ticketed as an Override.

Silent Monitoring

This feature allows an extension to override another without sending a warning signal to the parties having a conversation (available only for certain countries.)

Required: Programming Mode must be active (*95 31994).

0 **4** **6** ♩ Enter the code for programming.

♩ Enter the extension number (e.g., 11/101).

Step by Step

***** or **#** ♪ Activate/Deactivate permission for Silent Monitoring of a specific extension:

***** = To activate

= To deactivate (default)

⠿ ♪ Enter the next extension number

or

♪ Press this key.
Initial state for Programming Mode.

Within the system, Silent Monitoring has the same restrictions as the Conference and Override features.
A maximum of 2 simultaneous conferences is allowed by the system. Note: The Override feature is ticketed as a Conference.
If the monitoring or the monitored party changes status, Silent Monitoring is canceled. This occurs, for example, when a call is placed on hold.

Caller ID for Analog Extensions (CLIP)

When the system receives an incoming call with caller ID (enabled by the local carrier), the extension configured to use this feature receives and displays the caller's data on the telephone display.
For example,

- E805C (Brazil)
- Profiset 3020
- Profiset 3025
- Gigaset 4010

The telephone must have an external power supply and comply with the appropriate regulations.

Required: Programming Mode must be active (*95 31994).

0 **1** **0** ♪ Enter the code for programming.

⠿ ♪ Enter the analog extension number (e.g., 12/102).

0 ... **4** ♪ Select the type of configuration:

Step by Step

0 = No Caller ID (default)

1 = DTMF prior to ringing

2 = DTMF during ringing

3 = FSK prior to ringing

4 = FSK during ringing

Enter the next analog extension number

or

Press this key.
Initial state for Programming Mode.

Electronic Lock Password Reset

If it occurs that an extension's user forgets the password used to block the extension, the password can be reset to the system's default (default password is 0000).

Required: Programming Mode must be active (*95 31994).

2 **6** Enter the code for programming.

Enter the extension number (e.g., 12/102).

Enter the next extension number

or

Initial state for Programming Mode.

A blocked extension can only make internal calls using the System Speed Dialing phonebook (abbreviated numbers).

Timeout for Call Forwarding - No Answer

This feature specifies a timeout for the First Attendant to answer an incoming call. If the call is not answered, it is forwarded to a Second Attendant, as programmed (see Call Forwarding - No Answer in the Manual do Usuário).

Required: Programming Mode must be active (*95 31994).

Step by Step

3 0 ♪ Enter the code for programming.

0 1 ... 9 9 Enter the length of time (01 to 99 in 5-second increments) where 01 = 5 seconds... 06 = 30 seconds (default).

♪ Initial state for Programming Mode.

Dialing Mode

The Dialing Mode designates the dialing method as pulse (DP), tone (DTMF) or automatic detection.

Required: Programming Mode must be active (*95 31994).

6 8 ♪ Enter the code for programming.

⊞ ♪ Enter the extension number (e.g., 12/102).

0 ... 2 ♪ Enter the code for the dialing mode:

0 = Automatic detection of Dialing Mode (default)

1 = Pulse

2 = Tone

⊞ ♪ Enter the next extension number

or

♪ Press this key.
Initial state for Programming Mode.

Flash Detection Time

The Flash Detection Time is the maximum period of time required by a PABX to detect a flash signal generated by an internal telephone. If older MF dialing telephones are connected to the system, it may be necessary to adjust the Flash Detection Time to their response times (see manufacturer's instructions). The specified Flash Detection Time may vary for different countries.

Required: Programming Mode must be active (*95 31994).

3 1 ♪ Enter the code for programming.

Step by Step

Enter the extension number (e.g., 12/102).

1 ... **3**

Enter the code for the appropriate Flash Detection Time according to the table below. The default code is "1" (e.g., 280 ms for Brazil, 350 ms for India).

Enter the next extension number

or

#

Press this key.
Initial state for Programming Mode.

Country	Code	Time
Brazil, China, Vietnam, Chile, Venezuela, Mexico, English (IM), Spanish (IM), French (IM), Malaysia, Singapore, Pakistan, Ukraine, Philippines, Peru	1	280 ms
	2	750 ms
	3	1200 ms
Portugal, Argentina	1	350 ms
	2	750 ms
	3	1200 ms
Spain	1	200 ms
	2	750 ms
	3	1200 ms
Thailand	1	350 ms
	2	750 ms
	3	1500 ms
Canada	1	1100 ms
	2	750 ms
	3	500 ms
South Africa	1	170 ms
	2	750 ms
	3	1200 ms

Step by Step

Overflow/Escape Extension

An Overflow Extension (Escape Extension) is configured to answer calls only when the extension called is not available.

Examples:

- The extension called is activated for room monitoring (Babyphone)
- The extension that was programmed as the first attendant is currently assigned as Door Opener
- No extension is configured (all extensions were deleted using the code "42").

By default, the first extension of the system is configured as the Overflow Extension for Busy signal or Wrong Number.

Required: Programming Mode must be active (*95 31994).

3 2 ♪ Enter the code for programming.

1 ... 3 ♪ Choose a list for Call Forwarding:

1 = No answer

2 = Busy

3 = Wrong number

Enter the extension number (e.g., 12 /102) to be added to the list.

♪ Initial state for Programming Mode.

The Overflow Extension is accessed using your own internal number.

The Overflow Extension cannot be configured or used for Fax.

Step by Step

Hotline

With this feature a number entered in the speed dialing phonebook can be called automatically as soon as the handset is lifted without having to dial it manually.

An administrative extension (11/101), an overflow extension or a Door Opener extension cannot be configured as a Hotline. If a Hotline is assigned to a certain extension and one of these features is enabled, the Hotline will be automatically removed from that extension.

By default, no telephone is configured as a Hotline.

Required: Programming Mode must be active (*95 31994).

Activating the Hotline Mode

4 5 ♩ Enter the code for programming.

▦ ♩ Enter the extension number (e.g., 12/102) to be assigned a Hotline mode.

▦ ♩ Enter the speed dialing number you want to select (e.g., 000 to 249).

▦ ♩ Enter the next extension number

or

♩ Press this key.
Initial state for Programming Mode.

Any entry in the Speed Dialing phonebook can be configured as a Hotline for many extensions.

There is an option that allows you to time the call for a specified speed dialing number: the Warmline (code 62). During the timeout the extension can dial any number.

Step by Step

Deactivating the Hotline Mode

Required: Programming Mode must be active (*95 31994).

4 5 ♪ Enter the code for programming.

 ♪ Enter the extension number (e.g., 12/102) for which you want to remove a Hotline assignment.

* ♪ The Hotline Mode is deactivated.

 ♪ Enter the next extension number

or

♪ Press this key.
Initial state for Programming Mode.

Warmline

Specify the length of time the extension should wait to call the first number configured as a Hotline. Assuming the timeout is 9 seconds, the call will be made 9 seconds after the handset is lifted. However, if during the 9 second time interval a key is pressed on the phone keypad, the call to the Hotline will be canceled.

Each extension can have a different timeout for activating a Hotline. This timeout may vary from 0 to 9 seconds.

By default, the Hotline activation timeout is "0 seconds".

Required: Programming Mode must be active (*95 31994).

6 2 ♪ Enter the code for programming.

 ♪ Enter the extension number (except 11/101, for example, 12/102) for which you want to change the timeout.

0 ... 9 Enter the length of time (0 to 9 seconds) for the Hotline timeout.

 ♪ Enter the next extension number

or

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Associated Group

With this feature you can assign many extensions to one Executive telephone. There are 8 groups available with 16 extensions for each group. A group is assigned to each Executive telephone. To ensure proper operation all extensions must have system telephones installed. An extension can be assigned to many groups at the same time.

By default no Associated Groups are configured.

Required: Programming Mode must be active (*95 31994).

5 1 ♩ Enter the code for programming.

⠿ ♩ Enter an extension for the executive telephone (e.g., 11/101).

⠿ ♩ ... ⠿ ♩ Specify up to 15 extensions as associated telephones (e.g., 12/102).

♩ Press this key.
Initial state for Programming Mode.

Deleting an Associated Group

Required: Programming Mode must be active (*95 31994).

5 1 ♩ Enter the code for programming.

⠿ ♩ Enter an extension for the executive telephone (e.g., 11/101).

* ♩ The executive telephone extension is deactivated.

♩ Press this key.
Initial state for Programming Mode.

CD Port Assignment

Assigning CD ports to extension slots allows system telephones to be connected to the PABX.

Required: Programming Mode must be active (*95 31994).

4 6 ♩ Enter the code for programming.

0 1 ... 2 4 ♩ Enter a number from 01 to 24 for the CD port.

Step by Step

0 1 to **0 4** = for HiPath 1120

0 1 to **0 8** = for HiPath 1130/1150

0 1 to **2 4** = for HiPath 1190

Enter the extension number (e.g., 12/102) to which you want to assign a CD port.

Enter the next number for the CD port and extension.

or

Press this key.
Initial state for Programming Mode.

Deleting a CD Assignment from an Extension

Required: Programming Mode must be active (*95 31994).

4 6 Enter the code for programming.

Enter the extension number to be deleted.

***** Delete the CD assignment from the extension.

Enter the next extension number

or

Press this key.
Initial state for Programming Mode.

By default, the assignment starts at the first extension slot on HiPath 1120/1130/1150 systems.
On the HiPath 1190 system there is no default assignment.

Extension Coefficient

If the impedance value or appropriate type of internal line is available, the quality of transmission and reception can be improved.

Required: Programming Mode must be active (*95 31994).

4 8 Enter the code for programming.

Enter the analog extension number (e.g., 12/102).

Step by Step

1 ... **4** ♪ Enter the appropriate number for the type of line.

For example, in the case of Brazil it would be:

1 = 900 Ω Standard Line (default)

2 = 600 Ω Line

3 = 900 Ω Standard Line (default)

4 = 600 Ω Line

⠿ ♪ Enter the next extension number

or

♪ Press this key.
Initial state for Programming Mode.

External Message Waiting Indicator (MWI)

When Voice Mail services are provided by a local carrier, the HiPath 1100 enables a feature called Message Waiting Indicator (MWI) on the Voice Mail Server. With this feature a group of extensions called an External MWI Group is able to receive signals generated by the Voice Mail Server that indicate when there is a message waiting in the user's mailbox.

This signaling is transmitted using a FSK protocol (→ page 33). The signals are detected over an external analog line by a Voice Mail Server configured for this type of protocol.

For standard telephones with a display MWI will only be indicated if a CLIP is configured for the extension using option 3 or 4 (→ page 56).

See Voice Mail Protocol → page 138.

Step by Step

Activating External Message Waiting Indicator

Activates the MWI feature for a group of extensions.

Required: Programming Mode must be active (*95 31994).

0 1 4 ♪ Enter the code for programming.

* or # Activate/Deactivate an external MWI group:

* = To activate

= To deactivate (default)

♪ Initial state for Programming Mode.

External MWI Group

The extensions configured for this group receive a Message Waiting Indicator (MWI) signal from the external Voice Mail Server.

By default, no extension is configured.

Required: Programming Mode must be active (*95 31994).

0 1 5 ♪ Enter the code for programming.

⊞ ♪ ... ⊞ ♪ Enter the extension numbers (e.g., 11/101) to be included in the external MWI group.

♪ Press this key to finalize the entry.
Initial state for Programming Mode.

or

* Press this key to delete the extensions in the group.

♪ Press this key to finalize the entry.
Initial state for Programming Mode.

Step by Step

The Group must be enabled to use this feature (code 014).

The Message Waiting Indicator is signaled by means of a LED key on system telephones and by a distinctive audible tone on standard telephones. In the case of a standard telephone enabled for CLIP FSK with MWI service the signal can be configured to show an icon on the display or by some other type of indication.

Waiting Message Server Number

This setting specifies a MSN number for the Waiting Message server.

By default, no MSN is configured.

Required: Programming Mode must be active (*95 31994).

0 6 5 ♩ Enter the code for programming.

⠿ ♩ Enter a MSN (up to 20 digits).

♩ Press this key.
Initial state for Programming Mode.

Internal Voice Mail Interface

This setting specifies the UCD Subscriber Group that will interface with the internal Voice Mail Server equipment.

By default, no group is configured.

Required: Programming Mode must be active (*95 31994).

0 1 6 ♩ Enter the code for programming.

7 9 0 ... 7 9 9 ♩ Enter the UCD Subscriber Group number for the Voice Mail (e.g., 790)

or

* Press the key to delete its function assignment.

♩ Initial state for Programming Mode.

Step by Step

Only one UCD Subscriber Group may be configured for Voice Mail. This group's extensions are connected to the server via the HiPath 1100 a/b pair.
See Voice Mail Protocol → page 138.

Collect Call Barring by Extension

When Collect Call Barring is activated, all collect calls for the specified extension are automatically rejected by the system.

Required: Programming Mode must be active (*95 31994).

9 3 ♩ Enter the code for programming.

⠿ ♩ Enter the extension number (e.g., 11/101).

* or # ♩ Activate/Deactivate Collect Call Barring:

* = To activate

= To deactivate (default)

⠿ ♩ Enter the next extension number

or

♩ Press this key.
Initial state for Programming Mode.

If a call has been answered at least once by the system, Collect Call Barring cancels the blocking.

When an incoming call over a digital line is forwarded for not being answered (*14), and Collect Call Barring is activated, the call will ring at the First Attendant for the external line.

Step by Step

Type of Equipment Connected to an Extension

This setting specifies the type of equipment that is connected to a selected extension slot.

Required: Programming Mode must be active (*95 31994).

0 0 3 ♩ Enter the code for programming.

⊞ ♩ Enter the extension number (e.g., 11/101).

0 ... 2 ♩ Select the type of equipment:

- 0 = Standard (default)
- 1 = Fax
- 2 = Answering machine

⊞ ♩ Enter the next extension number

ou

♩ Press this key.
Initial state for Programming Mode.

Auto-Answering Mode

This setting specifies the use of Auto-Answering Mode for the telephone by using a feature code (see Functions used for Making Calls - Speakerphone Auto-Answering Mode in the User Manual).

Required: Programming Mode must be active (*95 31994).

0 3 4 ♩ Enter the code for programming.

⊞ ♩ Enter the extension number (e.g., 11/101).

* **or** # ♩ Activate/Deactivate permission to use Auto-Answering:

- * = To activate
- # = To deactivate (default)

⊞ ♩ Enter the next extension number

or

Step by Step

♪ Press this key.
Initial state for Programming Mode.

Call Charge Alert for Analog Extensions

This setting allows you to transmit billing pulses to an analog extension.

Please refer to the documentation provided with the telephone set connected to the extension to find out if billing indication is supported and which transmission mode is used.

Required: Telephone with a display and Programming Mode activated (*95 31994).

0 **4** **1** ♪ Enter the code for programming.

⠿ ♪ Enter the analog extension number (e.g., 11/101).

***** **or** **#** ♪ Activate/Deactivate transmission of billing pulses:

***** = To activate

= To deactivate (default)

⠿ ♪ Enter the next analog extension number

or

♪ Press this key.
Initial state for Programming Mode.

Timer for Outgoing External Calls

This setting specifies a maximum time for the duration of an outgoing external call for each extension.

The time count starts upon connection of a call and it never restarts while the call is in progress (e.g., when there is a transfer). Once the time expires, the call is terminated.

In the default configuration the maximum time for the duration of outgoing external calls is 180 seconds for all extensions.

Required: Programming Mode must be active (*95 31994).

Step by Step

0 4 7 ♩	Enter the code for programming.
⠿ ♩	Enter the extension number (e.g., 11/101).
⠿ ♩	Enter the length of time for the duration of external calls for the specified extension (00000 to 17279 in 5-second increments), where 00 = 0 seconds... 36 = 180 seconds (default), etc.
⠿ ♩	Enter the next extension number
or	
# ♩	Press this key. Initial state for Programming Mode.

Activating/Deactivating the timer for outgoing external calls

Required: Programming Mode must be active (*95 31994).

0 4 8 ♩	Enter the code for programming.
⠿ ♩	Enter the extension number (e.g., 11/101).
* **or** # ♩	Activate/Deactivate the timer for an outgoing external call: * = To activate # = To deactivate (default)
♩	Initial state for Programming Mode.

Second Attendant for MSN

This setting specifies a timeout after which a call will start ringing at the extension set as Second Attendant (see MSN and Extension Assignment on page 72).

The default configuration is set to 30 seconds.

Required: Programming Mode must be active (*95 31994).

0 8 2 ♩	Enter the code for programming.
0 0 1 ... 1 4 0 ♩	Enter the slot (001... 140) for the MSN.
0 0 ... 9 9	Enter the delay time (00 to 99 in 5-second increments) where 00 = 0 seconds... 06 = 30 seconds (default), etc.

Step by Step

Initial state for Programming Mode.

Modem Extension

This setting specifies the extension where the modem is connected.

By default, no extension is configured.

Required: Programming Mode must be active (*95 31994).

0 8 5 Enter the code for programming.

Enter the extension number (e.g., 11/101).

Initial state for Programming Mode.

MSN and Extension Assignment

This setting assigns extensions to each MSN to be transmitted to the outgoing calls destination.

In the default configuration there are no extensions assigned to any slots.

Required: Programming Mode must be active (*95 31994).

0 8 6 Enter the code for programming.

Enter the extension number (e.g., 11/101).

1 or 2 Select a period for operation:

1 = Day

2 = Night

0 0 1 ... 1 4 0 Enter the slot (001... 140) for the MSN.

Initial state for Programming Mode.

External-to-External Transfer

This feature allows a specified extension to transfer an external call (incoming or outgoing) to another external call.

Required: Programming Mode must be active (*95 31994).

Step by Step

0 9 1 ♪ Enter the code for programming.

⠿ ♪ Enter the extension number (e.g., 11/101).

* or # ♪ Activate/Deactivate Transfer:

* = To activate

= To deactivate (default)

♪ Press this key.
Initial state for Programming Mode.

An External-to-External transfer can only be made when at least one of the lines is a digital line, and one of the calls is an outgoing call.

DISA

This settings allows you to make an external call from an external telephone (as if it was an extension) through your system. In addition, the following features can activated or deactivated:

- Call Forwarding
- Deactivating a Feature
- Conference
- Night Service
- Suffix Dialing
- Door Opener
- Electronic Lock
- System and Individual Speed Dialing
- Relay
- Do Not Disturb

Step by Step

Only one external call can be made or one feature can be used at a time.

A feature that is enabled during a call is disabled as soon as one of the parties hangs up.

TAPI only monitors physical ports. To operate correctly, a DISA feature must use special ports, and those cannot be monitored. If a physical port is used when the DISA feature is active, the TAPI will be able to monitor it.

Step by Step

DISA Permission

This setting specifies an extension for using the DISA feature.

Required: Programming Mode must be active (*95 31994).

0 1 8 ♪ Enter the code for programming.

⠿ ♪ Enter the extension number (e.g., 11/101).

* or # ♪ Activate/Deactivate a DISA permission for an extension:

* = To activate

= To deactivate (default)

⠿ ♪ Enter the next extension number

or

♪ Press this key.
Initial state for Programming Mode.

MSN DISA

This specifies from which MSN the DISA features will operate.

In the default configuration no MSN is set.

Required: Programming Mode must be active (*95 31994).

0 1 9 ♪ Enter the code for programming.

⠿ ♪ Enter a MSN (up to 20 digits).

♪ Press this key.
Initial state for Programming Mode.

Step by Step

External Line DISA

Configures an external line for DISA answering mode.

The system allows only one DISA call. When there is a DISA call in progress, a second call to a DISA external line or with DISA answering mode is treated as a regular call. If a call is received over an external line that is configured for Fax/DID and DISA, the call will be answered by DISA, if this facility is available.

Required: Programming Mode must be active (*95 31994).

0 2 0 ♪ Enter the code for programming.

⠿ ♪ Enter the code for an external analog line (e.g., 801).

1 ... 4 ♪ Select an answering timeout for DISA:

- 1 = Never (default)
- 2 = Night only
- 3 = Day only
- 4 = Always

⠿ ♪ Enter the next number for an external analog line

or

♪ Press this key.
Initial state for Programming Mode.

When an external digital line is used for the DISA feature, its MSN number (MSN DISA - Code 019) is always active for answering DISA.

Step by Step

General Programming

Music on Hold

You can enter music for external calls that are placed on hold (MOH) using a music source:

- Internal: The caller on hold hears music generated by the system.
- External: The caller hears music from an external music source (e.g., a radio) connected directly to the system's external music input.
- External connected to an extension: The caller hears music from an external music source (e.g., a radio) connected to an extension.

In order to accomplish this, add extensions in two MOH groups or do not assign any extension.

Required: Programming Mode must be active (*95 31994).

3 6 ♪ Enter the code for programming.

0 ... 4 Enter the code for a music source:

- 0 = No music
- 1 = To activate an external music source
- 2 = To activate an external source - extension
- 3 = To activate an internal source (default)
- 4 = To activate an internal PCM source

♪ Initial state for Programming Mode.

Code 36 is used when there is no group assigned to the extension.

Step by Step

Assigning Extensions to MOH Groups

Extensions can be grouped in two MOH groups.

No extensions configured as a default.

Required: Programming Mode must be active (*95 31994).

0 8 7 ♩ Enter the code for programming.

1 or 2 Select Group 1 or 2.

 ♩ Enter the extension numbers (e.g., 11/101).

♩ Press this key.
Initial state for Programming Mode.

Deleting Extensions in a Group

Required: Programming Mode must be active (*95 31994).

0 8 7 ♩ Enter the code for programming.

1 or 2 Select Group 1 or 2.

* ♩ To delete all extensions in the group.

♩ Press this key.
Initial state for Programming Mode.

Music source for a MOH Group

When an extension has a call on hold, the caller will hear the music programmed for that extension's group.

0 8 8 ♩ Enter the code for programming.

1 or 2 Select Group 1 or 2.

0 ... 4 Enter the code for a music source:

- 0 = No music (default)
- 1 = To activate external music source.
- 2 = To activate an external music source connected to an extension.
- 3 = To activate an internal music source.
- 4 = To activate an internal PCM source

Step by Step

# ♩	Press this key. Initial state for Programming Mode.

Music Source Extension

This is an extension to which a music source is connected.

No extensions are configured as a default.

0 8 9 ♩	Enter the code for programming.
1 or 2	Select Group 1 or 2.
⌨ ♩	Enter the extension number (e.g., 11/101).
# ♩	Press this key. Initial state for Programming Mode.

Deleting an Extension

Required: Programming Mode must be active (*95 31994).

0 8 9 ♩	Enter the code for programming.
1 or 2	Select Group 1 or 2.
* ♩	Deletes the music source extension.
# ♩	Press this key. Initial state for Programming Mode.

The extension specified is deactivated when the External Music Source - Extension Assignment Option is configured.

External Music Source - Extension Assignment

With this feature Music On Hold can be played from audio equipment connected to an extension slot.

By default, no extension is configured.

Required: Programming Mode must be active (*95 31994).

0 6 4 ♩	Enter the code for programming.
⌨ ♩	Enter the extension number (e.g., 11/101).

Step by Step

or

***** ♪ Deletes the music source extension.

♪ Initial state for Programming Mode.

Setting the Time for an external Room Monitor

If the Fax/DID module is installed in the system you can run the Room Monitor feature (Babyphone) from an external telephone. Set the time for an automatic call disconnect.

Required: Programming Mode must be active (*95 31994).

6 9 ♪ Enter the code for programming.

0 1 ... **9 9** ♪ Enter the length of time (01 to 99 seconds) for external monitoring. The default setting is 10 seconds.

♪ Initial state for Programming Mode.

Types of Caller Lists

This setting specifies if only external calls or all internal and external calls should be displayed in the Caller Lists.

Required: Programming Mode must be active (*95 31994).

0 4 9 ♪ Enter the code for programming.

1 **or** **2** ♪ Select the type of Caller List:

1 = External

2 = Internal and external (default)

♪ Initial state for Programming Mode.

Step by Step

Deleting Digits from a Caller List

Digits configured with this feature cannot be dialed when using a Caller List. For example,
The following number is stored in the Caller List: 0893415000 and the digits configured for deletion are 089 (area code).

The system dials only the number 3415000. The code 089 will not be dialed.

In the default configuration no digits are excluded.

Required: Programming Mode must be active (*95 31994).

7 1 ♩ Enter the code for programming.

Enter the first digits (up to 6) that are not supposed to be dialed when using a Caller List.

Wait 5 seconds ♩ Wait for a confirmation tone.
Initial state for Programming Mode.

Date/Time - Manual Setting

The date and time can be shown on your system telephone display. It is important to set the correct time/ date for recording call details.

Required: Programming Mode must be active (*95 31994).

1 4 ♩ Enter the code for programming.

D_1 D_2 M_1 M_2 Y_1 Y_2 H_1 H_2 MI_1 MI_2 Enter the date and time:

D_1 D_2	=	Day, from 1 to 31
M_1 M_2	=	Month, from 1 to 12
Y_1 Y_2	=	Year, from 00 to 99
H_1 H_2	=	Hour, from 00 to 23
MI_1 MI_2	=	Minutes, from 00 to 59

For example, 0508990830 for 05/08/99, 8:30 a.m.

♩ Initial state for Programming Mode.

Step by Step

When you restore the default setting (99), the date the SW was generated will be displayed. The time displayed will be 12:00.

For the HiPath 1120 system a Fax/DID module is required for showing a Date/Time stamp on system telephone displays

Updating Date/Time over an ISDN Line

This setting allows automatic synchronization of the system's date and time during an external call over an ISDN line.

Required: Programming Mode must be active (*95 31994).

0 3 8 ♪ Enter the code for programming.

* or # ♪ Activate/Deactivate synchronization:

* = To activate (default)

= To deactivate

♪ Initial state for Programming Mode.

Call Charges

Call Charge Unit

To show call charges in currency units you must specify a call charge factor. Pulses are multiplied by this factor.

A Call Charge unit consists of a pulse sent over a line by a public exchange to provide and display call charge information according to the type of call (local, DDD, International, etc.) and other criteria determined by the carrier.

The default value is the "0" comma slot and the "00001" factor.

Required: Programming Mode must be active (*95 31994).

9 5 ♪ Enter the code for programming.

Set the Call Charge Factor (5 digits).

Step by Step

Enter the decimal separator position (0 to 4)

For example, for $ 0.12: 00012 and 2
For example, for $ 2.00: 00002 and 0

Initial state for Programming Mode.

Multiplier for Call Charge Factor

This setting specifies the multiplier for Call Charge factors.

The default setting specifies that each pulse be multiplied by 1 for both factors.

Required: Programming Mode must be active (*95 31994).

0 4 2 — Enter the code for programming.

1 or 2 — Select a Call Charge factor:

1 = Factor 1

2 = Factor 2

0 0 0 ... 2 5 4 — Select a pulse multiplier.

Initial state for Programming Mode.

Extension Call Charge Factor

This setting specifies if there is a factor for billing the users.

Required: Programming Mode must be active (*95 31994).

0 4 3 — Enter the code for programming.

Enter the extension number (e.g., 11/101).

1 ... 3 — Select a billing factor for the extension:

1 = None (default) - equivalent a billing value of x1

2 = Factor 1

3 = Factor 2

Enter the next extension number

or

Step by Step

# ♩	Press this key. Initial state for Programming Mode.

Call Charge Value by Extension

This setting specifies the monthly amount that each extension can spend.

Required: Programming Mode must be active (*95 31994).

9 7 ♩	Enter the code for programming.
▦ ♩	Enter the extension number (e.g., 11/101).
▦ ♩	Enter the maximum amount that can be spend by the extension (up to 5 digits)
0 ... 4 ♩	Enter the decimal separator position (0 to 4) For example, for $ 0.12: 00012 and 2 For example, for $ 1.00: 00001 and 0 (default).
♩	Initial state for Programming Mode.

Call Cost Limit for an Extension

This setting limits how much an extension has available for Call Charges.

Required: Programming Mode must be active (*95 31994).

0 4 4 ♩	Enter the code for programming.
▦ ♩	Enter the extension number (e.g., 11/101).
* or # ♩	Activate/Deactivate Call Charge limit: * = To activate # = To deactivate (default)
♩	Initial state for Programming Mode.

Step by Step

Date for Updating the Call Cost Limit for an Extension

This specifies a day for resetting the Call Charge limit.

Required: Programming Mode must be active (*95 31994).

0 4 5 ♩ Enter the code for programming.

d d Enter a day for resetting the limit (01 to 31).

or

* To deactivate

♩ Initial state for Programming Mode.

If 31 is entered, the Call Charge limit will be reset to the last day of each month.

Updating the Software

SW Information

This displays information about the system's software. To view this information use a system telephone with a display.

Required: Programming Mode must be active (*95 31994).

0 0 1 Enter the programming code to view the name of the product, e.g., "HiPath 1150.

* ♩ Press the key to view additional information:

1) Release

2) Version

3) APS

4) Serial number

♩ Press this key.
Initial state for Programming Mode.

Step by Step

Local SW Update

This feature initiates the download of the last software version released for the PC and then downloads the update for the exchange.

Required: Programming Mode must be active (*95 31994).

0 6 0 ♪ Enter the code for programming.

♪ Initial state for Programming Mode.

Activating a Software Update

This feature allows you to update the system's software automatically over an ISDN network on a scheduled date.

Required: Programming Mode must be active (*95 31994).

0 5 5 ♪ Enter the code for programming.

* or # ♪ Activate/Deactivate software update:

* = To activate

= To deactivate (default)

♪ Initial state for Programming Mode.

Day for SW Update

This setting specifies a day for starting the data transfer.

The default setting for the update to start is day 01.

Required: Programming Mode must be active (*95 31994).

0 5 4 ♪ Enter the code for programming.

d d Enter the day for starting the transfer.

♪ Initial state for Programming Mode.

Time for SW Update

This setting specifies the time of day for starting the data transfer on the specified day.

Step by Step

The default setting specifies the time for the update process at 00:00 hours.

Required: Programming Mode must be active (*95 31994).

0 5 8 ♩ Enter the code for programming.

h h : m m Enter the hour (00 to 23) and the minutes (00 to 59) for starting the update.

♩ Initial state for Programming Mode.

External Number for Updating the Software

This setting specifies a number to be used by the system to update the software.
The default configuration does not specify any number.

Required: Programming Mode must be active (*95 31994).

0 5 6 ♩ Enter the code for programming.

⁞⁞⁞ ♩ Enter the external numbers (up to 20 digits).

♩ Press this key to finalize the entry.
Initial state for Programming Mode.

Frequency for SW Update

This setting specifies regular intervals for transferring data, in months. During a transfer the telephone operates as usual.

The default setting specifies updates to be done in a monthly basis.

Required: Programming Mode must be active (*95 31994).

0 5 7 ♩ Enter the code for programming.

0 1 ... 1 2 Enter a timeout for the update (01 to 12) where 01 = update every month (default) 12 = update every 12 months at a specified date.

♩ Initial state for Programming Mode.

Step by Step

Uploading the SW update

This setting specifies when the data downloaded will be uploaded to the system's memory.

When this upload is in progress (during approximately 3 minutes) the telephone operates as usual.

The default setting specifies for data to be transferred at 00:00 hours.

Required: Programming Mode must be active (*95 31994).

0 5 9 ♪ Enter the code for programming.

h h : m m Enter the hour (00 to 23) and the minutes (00 to 59) for starting the uploads.

♪ Initial state for Programming Mode.

Setting a System Password

The system's Programming Mode is protected by password against unauthorized use. The default password is "31994." This password can be changed.

Required: Programming Mode must be active (*95 31994).

8 0 ♪ Enter the code for programming.

▦ ♪ Enter a new system password (5 digits).

▦ ♪ Confirm the new password by entering it again (5 digits).

♪ Initial state for Programming Mode.

For future reference it is recommended that you write down your password and store it in a safe place. If you forget your password, consult a support technician to obtain access to programming.

Step by Step

Night Service Password

Independently from the system password, an additional password can be defined for activating/deactivating different features (e.g., Night Service, relays). The default password is "31994." This password can be changed.

Required: Programming Mode must be active (*95 31994).

4 9 ♩ Enter the code for programming.

Enter a new system password (5 digits).

♩ Initial state for Programming Mode.

Step by Step

Restoring Default Settings

You can delete the settings that have been configured and restore the default settings. Only Country/Group of Countries settings (Code 65) will be saved as last configured.

Required: Programming Mode must be active (*95 31994).

9 9 ♪ Enter the code for programming.

Enter the system password (default is 31994).

♪ The system restarts.

HiPath 1120 Alarms

You can assign an alarm to a system sensor. When the alarm is triggered, the system dials the number stored as entry 249 in the Speed Dialing phonebook (the name assigned to this entry can be up to 15 characters long. For example, it can be the name of an emergency station).

The system ID is automatically sent and continues to be sent to the station called until the service requested returns the "#" digit, acknowledging the alarm **"#"**. This works as a confirmation that the service has detected the alarm call sent by the system.

If a Fax/DID module is installed, you can send an alarm message in addition to the Exchange ID.

When an alarm is triggered, the HiPath 1120 makes a call using the Speed Dialing entry 249. The slot number is called and a previously programmed sequence of digits (in DTMF format) is repeated every 6 seconds after the connection is established.

The purpose of this sequence of digits is to identify the alarm source. An alarm center, for example, is able to identify which PABX is sending the signal. If the receiving switch does not acknowledge the alarm within a few minutes, the procedure is repeated at specified time intervals.

Step by Step

For information on how to program this feature refer to the topic describing the programming of the Sensor and Relay for the HiPath 1120 "Relay and Sensor on the HiPath 1120."

Emergency Numbers

You can specify up to five emergency numbers. When one of these numbers is dialed and all external lines are busy, the call on the first external line will be interrupted and the line used for making the emergency call. A call is not disconnected only if it is an incoming call over an external analog line.
The default setting specifies two emergency numbers for Brazil (190 for Police and 193 for Fire Department) and one for Portugal and Spain (112 for Emergency).

Required: Programming Mode must be active (*95 31994).

0 4 0 ♩ Enter the code for programming.

1 ... 5 Select the slot for the emergency number (1 to 5)

⌨ Enter the emergency number (up to 10 digits).

♩ Wait 5 seconds.

The name assigned to these numbers can have up to 15 characters.

Emergency calls never use external lines configured for:

- Internet access
- Absent external line
- External line configured to accept only incoming calls

Module Detection

This setting resets the ports for the selected slots.

Required: Programming Mode must be active (*95 31994).

0 6 1 ♩ Enter the code for programming.

Step by Step

0 **0** ... **2** **0** Enter the slots for the new modules:

0 **0** = Detects all slots (defaults)

0 **1** to **2** **0** = Detects only the specified slot

♪ Press this key.
Initial state for Programming Mode.

- The modules can only be connected/disconnected when the system is turned off.
- When the "00" option is selected, the system detects the components as described on page 14.

This means that if a numbering sequence for analog lines/extensions has been previously configured it will be changed when a S_0 Module or a TME1 Module is added.

Example 1: In a HiPath 1150 system that has only a MB Module (2 external lines and 10 analog extensions) the numbering pattern will be 801 and 802 for external analog lines, and from 11 to 20 for analog extensions. When a S_0 is added you have:

- 803 to 806 for external digital lines

- 21 to 25 for S_0 extensions

Example 2: for a HiPath 1190 system:

MB + EB 210 + S_0- 5 ports

801 to 802 - External analog lines

101 to 110 - Analog extensions

803 to 812 - S_0 external digital lines

111 to 115 - S_0 extensions

If a specific slot is selected (01 to 20), the previous numbering will be maintained and the system will only detect the module.

Step by Step

Remote Administration

Service Call

This feature allows you to call a service center and let administration be carried out remotely, through the call established.

*94 Enter this code.

Enter the service center number.

Enter to confirm.

Wait for a confirmation tone.

Remote Software Update

If authorized, the software can be update remotely.

*9415 Enter this code.

Wait for a confirmation tone.

The software is sent by the service center.

Remote Operation Mode

This specifies the remote updating of the software. The update can be carried out remotely over external digital ISDN lines and analog lines connected to a modem.

Required: Programming Mode must be active (*95 31994).

084 Enter the code for programming.

1 or 2 Select the operating mode:

1 = Via ISDN (default)

2 = Via modem

Initial state for Programming Mode.

Step by Step

Activating Remote Administration

This setting allows the system to be administered remotely.

Required: Programming Mode must be active (*95 31994).

0 6 6 ♪ Enter the code for programming.

* or # ♪ Activate/Deactivate Remote Administration:

* = To activate

= To deactivate (default)

♪ Initial state for Programming Mode.

Configuring an External Number

This specifies external numbers (Service MSN without external access code 0) that are able to perform Remote Administration.

The default configuration does not specify a MSN.

Required: Programming Mode must be active (*95 31994).

0 6 7 ♪ Enter the code for programming.

1 ... 4 Select a slot for the external number (1 to 4).

⠿ ♪ Enter the external number (up to 20).

1 ... 4 Select the next slot for an external number.

or

♪ Press this key.
Initial state for Programming Mode.

Remote Administration Password

This feature assigns a password for enabling Remote Administration using a specified external number (Service MSN).

The default configuration does not specify a password.

Required: Programming Mode must be active (*95 31994).

0 6 8 ♪ Enter the code for programming.

Step by Step

1 ... 4	Select a slot for the external number (1 to 4).
	Enter a password (5 digits).
1 ... 4	Select the next external number
or	
#	Press this key. Initial state for Programming Mode.

Remote MSN

This setting specifies an MSN of your ISDN line as the Remote Administration MSN.

The default configuration does not specify a MSN.

Required: Programming Mode must be active (*95 31994).

0 6 9	Enter the code for programming.
0 0 1 ... 1 4 0	Enter the slot (001... 140) for the MSN
or	
*	Press the key to remove it.
	Initial state for Programming Mode.

Without MSN Verification

Remote Administration will be performed without verifying the Service MSN transmitted.

Required: Programming Mode must be active (*95 31994).

0 7 0	Enter the code for programming.
* or #	Activate/Deactivate: * = To activate # = To deactivate (default)
	Initial state for Programming Mode.

Remote Administration via DTMF

With this feature you can configure the HiPath 1100 remotely with an MF telephone.

Step by Step

Required: Programming Mode must be active (*95 31994).

5 7 ♪ Enter the code for programming.

* or # Activate/Deactivate remote configuration:

* = To deactivate remote configuration

= To deactivate remote configuration

♪ Initial state for Programming Mode.

Replace the handset.

Required: Remote Configuration must be enabled and the programming extension must have a conversation in progress on the external line that will be used for the remote configuration.

* 9 9 1 ♪ With a conversation in progress enter the programming extension code to transfer control of the HiPath 1100 to the remote programmer.

⠿ ♪ The remote programmer must now enter the system password using an MF telephone (default - 31994).

♪ Wait for a confirmation tone to indicate that the password was accepted.

To set the required configuration, proceed as if the remote telephone was directly connected to the system.

If a Fax/DID Module is Installed.

If the HiPath 1100 is equipped with a Fax/DID module configured to answer external lines.

* 9 5 ♪ Enter the code using a remote MF telephone after the call is answered.

⠿ ♪ The remote programmer must now enter the system password using an MF telephone (default - 31994).

♪ Wait for a confirmation tone to indicate that the password was accepted.

To set the required configuration, proceed as if the remote telephone was directly connected to the system.

Step by Step

If the system is connected via serial cable to a computer that has access to a Telephone Network, the remote programming can be executed via modem using the HiPath 1100 Manager. See the Help file for instructions.

Ending Remote Administration

Required: The remote telephone is in Programming Mode.

9 6 ♩ Enter the programming code using the remote MF telephone. This allows the system to free the external line and the MF code receiver.

Replace the handset.

Type of MSN Signal

This setting lets you choose one of the four types of rings for various calls, and a ring for registered MSNs. The default configuration for MSNs is Type 1 ring.

Required: Programming Mode must be active (*95 31994).

0 7 3 ♩ Enter the code for programming.

0 0 1 ... 1 4 0 ♩ Enter the slot (001... 140) for the MSN.

1 ... 4 Select a type of ring for the selected MSN.

♩ Initial state for Programming Mode.

Assigning a Temporary MSN

This feature allows you to use a temporary MSN from your own directory to make an external call. Or, to use the "Key Assignment" feature to assign a key to a MSN for monitoring incoming and outgoing calls (see Key Assignment - Using a Temporary MSN for Making a Call, in the Manual do Usuário).

Required: Programming Mode must be active (*95 31994).

0 9 3 ♩ Enter the code for programming.

Step by Step

Enter the MSN number selected:

Example

Slot	MSN
001	3415565 - Home
002	3416496 - Office

User is at his/her office (3416496):

1 = This specifies that the MSN number must be used for other features (e.g., 3415565)

2 = This specifies that an MSN slot (001 ... 140) must be used for other features (e.g., 001)

Initial state for Programming Mode.

Replace the handset.

At his time, the called destination receives the information that the calling number is 3415565, even though the call has been originated from number 3416496.

Entrance Telephone

Configuring an Entrance Telephone

With the HiPath 1100 you can connect up to four Entrance Telephones in extension slots. Each Entrance Telephone must be individually activated in the system.

Required: Programming Mode must be active (*95 31994).

1 **5** Enter the code for programming.

1 ... **4** Select a slot for the Entrance Telephone extension (1 to 4).

Enter the analog extension number (e.g., 12/102) to be enabled as an Entrance Telephone.

Repeat these steps for any additional slot.

or

Press this key.
Initial state for Programming Mode.

Step by Step

Deleting an Entrance Telephone Assignment

Required: Programming Mode must be active (*95 31994).

1 5 ♩ Enter the code for programming.

1 ... 4 ♩ Enter the slot to be deleted.

* ♩ Delete the assignment of the Entrance Telephone to the extension.

⠿ ♩ Enter the next slot.

or

♩ Press this key.
Initial state for Programming Mode.

1. By default no slot is set as an Entrance Telephone.
2. Each TFE Interface Module can be connected to one Entrance Telephone only.
3. Each TFE Interface Module serves as an interface for an Entrance Telephone **or** or Pager. To provide these two interfaces two modules must be used.

Door Lock

This feature detects when there is a locking device installed.

Required: Programming Mode must be active (*95 31994).

1 6 ♩ Enter the code for programming.

1 ... 4 ♩ Enter the slot for the TFE Interface where the lock is located (1 to 4).

* **or** # Activate/Deactivate the Door Lock:

* = To activate

= To deactivate (default)

⠿ ♩ Repeat these steps for any additional slot.

Step by Step

or

♩ Press this key.
Initial state for Programming Mode.

DIDs for Entrance Telephones

You can specify which telephones are to answer the Entrance Telephone calls (up to 10 extensions).

The default setting is extension 11/101.

Required: Programming Mode must be active (*95 31994).

5 9 ♩ Enter the code for programming.

1 ... 4 ♩ Enter the slot for the extension configured as the Door Opener (1 to 4).

⊞ ♩ Enter the extension number (e.g., 12/102) to answer calls from the Entrance Telephone.

* ♩ Confirm the extension assigned to the Entrance Telephone slot.

⊞ ♩ Enter the next extension number

or

♩ Press this key.
Initial state for Programming Mode.

Deleting DID Extensions

Required: Programming Mode must be active (*95 31994).

5 9 ♩ Enter the code for programming.

1 ... 4 ♩ Enter the slot for the extension configured as the Door Opener (1 to 4).

* ♩ Delete DID extensions.

♩ Press this key.
Initial state for Programming Mode.

Step by Step

Permissions for a Door Opener

Different extensions can be individually enabled to activate the Door Opener.

This class of service is assigned to all extensions by default.

Required: Programming Mode must be active (*95 31994).

2 5 ♪ Enter the code for programming.

1 ... 4 ♪ Enter the slot for the extension configured as the Door Opener (1 to 4).

⊞ ♪ ... ⊞ ♪ Enter the extension numbers (e.g., 12/102) to be enabled as Door Openers.

* ♪ Delete extensions enabled for opening doors.

♪ Press this key.
Initial state for Programming Mode.

Deleting Authorized Extensions

Required: Programming Mode must be active (*95 31994).

2 5 ♪ Enter the code for programming.

1 ... 4 ♪ Enter the slot for the extension configured as the Door Opener (1 to 4).

* ♪ Delete the extension assigned to the Entrance Telephone slot.

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Call Detail Report Manager

For control purposes, the HiPath 1100 issues call detail reports that contain information about calls received and calls made. This information can be sent to a PC or printer via serial interface connection. To generate reports that can help control costs, the Call Detail Report feature must be installed on the PC.

To provide accurate call details, you must update the system's time and date information (→ page 81).

The following information is recorded:

- Current date (**Date**)
- End of the call (**Time**)
- External line used (**Ln**)

Note: Example of the (Ln) field content for ticketing:

External line	(Ln) Field
801	00
802	01

- Extension (**Ext**)

Some specific types of access will be displayed in this field, indicated by the following numbers:

Access	(Ext) Field
Sensor - Outgoing call	9101
Data Link - Outgoing or incoming data call for system administration	9201
DISA - Incoming call	9301
Fax/DID - Incoming call	9401

- COS Changeover (**WCOS**)
- Ring duration (**Ring**)
- Call duration (**Duration**)
- Dialed number (**Number**)
  To maintain confidentiality, the last four digits of the number can be replaced with a "?."

Step by Step

- Type of Call (**I**):
  1 = Incoming call
  2 = Outgoing call
  5 = Transferred incoming call
  6 = Transferred outgoing call
  7 = 3-way conference with incoming call
  8 = 3-way conference with outgoing call
  * = Incoming call, not yet answered
- Impulses (**Call fees**) with a TME1 Module installed.
- Project Code (**Account Code**)

Example

Date	Time	Ln	Ext	WCOS	Ring	Duration	Number	I	Callfees	Acc. Code
22.11.99	14:00:00	01	21		00:14	00:01:34	2222222	1		

When a call is transferred, a new call detail report is issued. The hold time at the external line is accounted for by the extension that transferred the call.

Ticket Cost Code

External calls can be assigned Cost Codes which provide more control over telephony costs (see Functions used during Calls - Cost Code, in the Manual do Usuário). This information will appear in the billing ticket.

Required: Programming Mode must be active (*95 31994).

0 9 5 ♩ Enter the code for programming.

* or # ♩ Activate/Deactivate sending Cost Code for call detail report:

* = To activate

= To deactivate (default)

♩ Initial state for Programming Mode.

Step by Step

Data Transfer Speed

The system can be connected to a PC or printer with a V.24 adapter to display or print the call detail report (→ page 102). The communication speed can be set to ensure proper data transfer.

Required: Programming Mode must be active (*95 31994).

2 0 ♩ Enter the code for programming.

1 ... 9 Enter the code for the transmission (Baud) rate:

- 1 = 9600 baud
- 2 = 14400 baud
- 3 = 19200 baud
- 4 = 38400 baud
- 5 = 56000 baud (default)
- 6 = 57600 baud
- 7 = 115200 baud
- 8 = 128000 baud
- 9 = 256000 baud

♩ Initial state for Programming Mode.

Digit Suppression in Call Detail Reports

The last digits dialed in an external call can be suppressed in the data output. These digits are replaced by "?."

By default, no digit is suppressed.

Required: Programming Mode must be active (*95 31994).

2 1 ♩ Enter the code for programming.

0 ... 9 Select the number of digits to be suppressed.

♩ Initial state for Programming Mode.

Step by Step

Call Detail Report for Incoming Calls

If the system is enabled for Caller ID over digital (E1 CAS) or analog lines by a local carrier, the call information will be displayed on the Call Detail Report.

The columns "Ext" (Extensions), "Ring" (Ring Duration), "Duration" (Call Duration) and "Call fees" (Pulses) remain empty while the column "I" (Type of Call) shows an " * " next to the call.

Required: Programming Mode must be active (*95 31994).

6 1 ♩ Enter the code for programming.

1 ... 4 Enter the code for the type of Call Detail Report.

1 = Outgoing calls are recorded at the end of the call. Incoming calls (with or without Caller ID at the source) are recorded at the end of the call (default).

2 = Outgoing calls are recorded at the end of the call.

3 = Outgoing calls are recorded at the end of the call. Incoming calls with Caller ID at the source are recorded at the beginning of the call.
Incoming calls (with or without Caller ID at the source) are recorded at the end of the call.

4 = Outgoing calls are recorded at the end of the call. Incoming calls with Caller ID at the source are recorded at the beginning of the call.

♩ Initial state for Programming Mode.

Caller ID service must be contracted with a local carrier.

Call Detail Report Filter

The number programmed in this filter specifies the type of outgoing call to be recorded, based on the first four digits of the dialed number.

For example, in order to record only international outgoing calls, you must program the digits "00."
The maximum number of digits is 4.

Step by Step

In the default setting a digit sequence is not configured.

Required: Programming Mode must be active (*95 31994).

6 7 ♪ Enter the code for programming.

Enter the sequence of digits (up to 4) for the numbers to be recorded.

Wait 5 seconds ♪ Wait for a confirmation tone.
Initial state for Programming Mode.

Call Detail Report through Serial Interface

This setting specifies if Call Detail Report will be done through a serial interface or a modem.

Required: Programming Mode must be active (*95 31994).

0 0 6 ♪ Enter the code for programming.

* **or** # ♪ Activate/Deactivate Call Detail Report through a serial interface:

* = To activate

= To deactivate (default)

♪ Initial state for Programming Mode.

CommServer does not work when this item is active.

Step by Step

Fax/DID Module

HiPath 1100 systems can be equipped with an optional Fax/DID Module (direct dialing to extensions) for answering external calls automatically, playing announcements and detecting fax signals. A caller can dial any extension or enter any digit configured in the Answering Menu and be transferred to another extension or group.

For HiPath 1120 systems this module also provides a RTC (Real-Time Clock) feature for displaying the time on system telephones.

The module has three modes of operation: Fax, DID, and Fax/DID. If a S_0 or TME1 module is also installed, a fourth mode of operation is available: a DID for digital lines.

Announcements stored in this module can be programmed as a Second Attendant for external calls or as a forwarding destination for an extension (see Call Forwarding in the Manual do Usuário).

Fax Mode

In this mode of operation the module detects only fax signals. A greeting announcement is played for all incoming external calls. If the caller wants to send a fax, the transmission can be started at the end of the announcement. If no fax signal is detected within 10 seconds of the greeting announcement, a second announcement will be played and the call will be transferred to an Attendant.

DID Mode

In this mode of operation the module detects extensions or digits dialed and then transfers the call accordingly. When an external call is answered, a greeting announcement is played to guide the caller. An example of a recorded announcement would be: "You have reached Siemens. Dial the extension number you would like to reach 22 for Sales Department or 23 for Technical Support." If no valid MF signal is detected within 10 seconds of the greeting announcement, a second announcement will be played and the call will be transferred to an Attendant.

Step by Step

Fax/DID Mode

In this mode of operation the module detects fax signals, and extensions or digits entered. When an external call is answered, a greeting announcement is played to guide the caller. An example of a recorded announcement would be: "You have reached Siemens. To send a fax start transmission now. For Sales Department dial 22. For Technical Support dial 23." If no valid fax signal, digit or extension is detected within 10 seconds of the greeting announcement, a second announcement will be played and the call will be transferred to an Attendant.

Announcement Mode

When an external call is answered, a greeting announcement is played and the call is transferred to an attendant. An example of a recorded announcement would be: "You have reached Siemens. Your call is being transferred."

Call Answering Menu

The Fax/DID module allows you to create a customized Call Answering Menu as well as transfer a call to a specific extension or group by prompting the caller to enter a digit.

A call is transferred to a preconfigured destination after 3 seconds. If a digit is entered before this period of time, it will be analyzed and the call will be forwarded to a new destination. The destination can be an extension or a group.

When the Call Answering Menu is not configured, the Fax/DID module can only identify extension and group numbers.

Required: Programming Mode must be active (*95 31994).

0 0 9 ♪ Enter the code for programming.

0 ... 9 or * Select a digit for Call Forwarding.

⊞ ♪ Enter an extension or Subscriber Group number to be assigned to the digit (e.g., 12/780).

Step by Step

0 ... 9 or * Select the next digit for Call Forwarding.

or

♪ Press this key.
Initial state for Programming Mode.

To Remove an Option

Required: Programming Mode must be active (*95 31994).

0 0 9 ♪ Enter the code for programming.

0 ... 9 or * Select the Call Forwarding digit to be removed.

♪ Wait 5 second to delete.

0 ... 9 or * Select the Call Forwarding digit to be removed.

or

♪ Press this key.
Initial state for Programming Mode.

Announcement Recording

The system provides a feature for recording announcements for auto-answering, call transfers, and alarms. The recording is done using the handset. We suggest that you record your announcement in a quiet environment. You can check the recorded announcement by playing it back.

You can record a different announcement for each mode of operation.

To ensure proper operation record at least one greeting announcement and one announcement for transferring calls.

Required: Programming Mode must be active (*95 31994).

3 7 ♪ Enter the code for programming.

9 or 0 Enter code "9" to "record new announcement" or "0" to "play back announcement."

0 1 ... 1 2 ♪ Next, enter the code for selecting one of the following announcements:

Step by Step

0 **1** = Fax Mode - Greeting announcement for business hours (maximum of 24 seconds)

0 **2** = Fax Mode - Greeting announcement for Night Service (maximum of 24 seconds)

0 **3** = Fax Mode - Announcement for transferring calls (maximum of 16 seconds)

0 **4** = DID Mode - Greeting announcement for business hours (maximum of 32 seconds)

0 **5** = DID Mode - Greeting announcement for Night Service (maximum of 32 seconds)

0 **6** = DID Mode - Announcement for transferring calls (maximum of 16 seconds)

0 **7** = Fax/DID Mode - Greeting announcement for business hours (maximum of 32 seconds)

0 **8** = Fax/DID Mode - Greeting announcement for Night Service (maximum of 32 seconds)

0 **9** = Fax/DID Mode - Call Forwarding announcement (maximum of 16 seconds)

1 **0** = Caller ID Announcement Mode (maximum of 16 seconds)

1 **1** = Alarm Announcement Mode - for HiPath 1120 only (maximum of 8 seconds)

1 **2** = Reservation

Speak directly into the handset to record an announcement. Or listen to a recorded announcement.

1 Press this key to stop the recording or the playback of the announcement.

9 **or** **0** Enter the code for recording ("9") or for playing back ("0") a new announcement.

or

Press this key.
Initial state for Programming Mode.

Configuring the Call Answering Mode

The Fax/DID Module's Auto-Answering Mode must be configured individually for each analog and digital line.

Step by Step

To activate

Required: Programming Mode must be active (*95 31994).

2 7 ♪ Enter the code for programming.

♪ Enter a number for an external analog or digital line (e.g., 801).

0 ... 5 Select the operating mode for the line:

- 0 = Module is deactivated
- 1 = Fax
- 2 = DID
- 3 = Fax/DID
- 4 = Announcement
- 5 = AutoFax

♪ Enter the number for the next external line available.

or

♪ Press this key.
Initial state for Programming Mode.

To deactivate

Required: Programming Mode must be active (*95 31994).

2 7 ♪ Enter the code for programming.

♪ Enter a number for an external analog or digital line (e.g., 801).

0 Enter the code for deactivating Fax/DID reception.

♪ Enter the number for the next external line available.

or

♪ Press this key.
Initial state for Programming Mode.

Fax Reception Extension

After the detection of a fax signal, the Fax/DID Module can transfer a call to a preconfigured extension. The DID Mode does not need to be configured for this feature.

Step by Step

Required: Programming Mode must be active (*95 31994).

2 8 ♩ Enter the code for programming.

♩ Select an external line (e.g., 801) for Fax/DID Reception.

♩ Enter the extension number for Fax Reception (e.g., 12/102).

♩ Enter the number for the next external line available.

or

♩ Press this key.
Initial state for Programming Mode.

You must first program the extension for fax in "Type of Equipment Connected to an Extension - Code 003" before programming Code 28.

Deleting Fax Reception Extensions

Required: Programming Mode must be active (*95 31994).

2 8 ♩ Enter the code for programming.

♩ Enter a number for an external line (e.g., 801) assigned to Fax Reception.

* ♩ The Fax extension selected is removed.

♩ If necessary, enter the number for the next external line available.

or

♩ Press this key.
Initial state for Programming Mode.

Step by Step

Collect Call Barring for Fax/DID

When Collect Call Barring is active, all collect calls made to a Fax/DID are automatically rejected by the system. Call Barring will not work in the case of calls transferred to a Fax/DID.

Required: Programming Mode must be active (*95 31994).

0 0 8 ♪ Enter the code for programming.

1 ... 4 ♪ Select an operating mode for the Fax/DID Module:

- 1 = Fax
- 2 = DID
- 3 = Fax/DID
- 4 = Message (announcement)

* or # ♪ Activate/Deactivate Collect Call Barring for the selected mode:

- * = To activate
- # = To deactivate (default)

⌨ ♪ Enter the next operating mode

or

♪ Press this key.
Initial state for Programming Mode.

If a call has been answered at least once by the system, Collect Call Barring cancels the blocking.

When an incoming call over a digital line is forwarded for not being answered (*14), and Collect Call Barring is activated, the call will ring at the First Attendant for the external line.

Step by Step

MSN Answering for Fax/DID

This setting specifies a Fax/DID answering mode for each MSN number.

Required: Programming Mode must be active (*95 31994).

0 8 0 ♪ Enter the code for programming.

0 0 1 ... 1 4 0 ♪ Enter the slot (001... 140) for the MSN.

0 ... 5 Select an answering mode for MSN:

- 0 = Module is disabled (default)
- 1 = Fax
- 2 = DID
- 3 = Fax/DID
- 4 = Message (announcement)
- 5 = AutoFax

⌨ ♪ Enter next MSN

or

♪ Press this key.
Initial state for Programming Mode.

Fax Extension for MSN

After detecting a fax signal, the Fax/DID module can transfer a call to a Fax extension. The DID Mode does not need to be configured for this feature.

Required: Programming Mode must be active (*95 31994).

0 8 1 ♪ Enter the code for programming.

0 0 1 ... 1 4 0 ♪ Enter the slot (001... 140) for the MSN.

⌨ ♪ Enter the extension number for Fax Reception (e.g., 12/102).

0 0 1 ... 1 4 0 ♪ Enter the next MSN slot

or

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Fax/DID Release after Timeout

When a Fax/DID Module is answering four simultaneous calls (or 2 calls for the HiPath 1120), a fifth call will hear a ring signal generated by the local carrier, which means that the HiPath 1100 has not answered the call yet. If the timeout specified for this feature is shorter than the local carrier's timeout, the call can be routed in two different ways, depending whether the PABX received it over an analog or a digital line:

- In the case of an external analog line, the PABX must bypass the Fax/DID module and forward the call to an analog line attendant (in the event that there is no attendant, the call is forwarded to an overflow extension). Of course, if a channel becomes available in the meantime, the call will be answered as usual and the timeout will be ignored. However, if the time specified for this setting is longer than the local carrier's timeout (1.5 minutes for Brazil), the call will be disconnected by the local carrier before the PABX can forward it to an attendant.
- In the case of an external digital line (CAS or ISDN) the PABX sends a "disconnect" signal to the line upon receiving the call. This means that the time specified for this setting is ignored in the case of digital lines. When the Fax/DID module is busy answering four simultaneous calls (2 calls, for a HiPath 1120), the external user hears a busy signal.

Required: Programming Mode must be active (*95 31994).

0 9 4 ♩ Enter the code for programming.

0 0 ... 9 9 Enter the period of time you want to specify for the timeout (00 to 99 in 5-second increments) where 00 = 0 seconds... 06 = 30 seconds (default), etc.

♩ Initial state for Programming Mode.

Step by Step

When the Fax/DID module is busy answering calls, it means that it is playing one of the 12 programmed messages or waiting for the user to press a key (in the case of a DID). If the Fax/DID module has answered a call and forwarded it to an extension (the call is ringing somewhere), that call is no longer considered one of the four calls that is being answered by the Fax/DID module keeping it busy. In summary, once the Fax/DID module has forwarded a call to an extension, the channel is available for another call.

Programming a Digital Trunk

HiPath 1100 systems can be equipped with digital trunks by installing a S_0 (ISDN access) and a TME1 (E1 CAS access) module.

S_0 Module

Each ISDN access provides two communications channels (64 kbps each)as well a capability for sharing applications such as video conferencing or Internet access. Depending on your carrier, some facilities may be provided, including Caller ID, Caller ID Blocking, Direct Dialing to Extensions. The HiPath 1120 can be equipped with a 2-port module; the HiPath 1130/1150 with a 2-port module or one 5-port module; and the HiPath 1190 with two 2- or 5-port modules.

When you only have digital ISDN lines to use, the settings for DID Prefix, External Number Phonebook, Country Code, and Area Code must be configured.

Step by Step

S_0 Ports

This setting specifies the operating mode for the S_0 module maximizing the system's port usage.

This option is best for the HiPath 1190 due to its high port capacity. The goal is to obtain the greatest possible number of extensions/external lines allowed according to the following port detection rules:

- External line and extension (default): Each port will decrease the number of external line slots by 2 and extension slots by 1. The connection may be PP, PMP or S_0 Bus line (see item "Mode of Operation").
- External line only: Each port will decrease the number of external line slots by 2. The connection must be PP or PMP. If it has been previously configured as S_0 Bus line, the connection will be automatically reversed to PP (which is the default).
- Extension only: Each port will decrease the number of extension slots by 1. The connection must be a S_0 Bus line. If it has been previously configured as PP or PMP, the connection will be automatically reversed to S_0 Bus line.

After completing the configuration, the system must be restarted.

Required: Programming Mode must be active (*95 31994).

0 6 2 ♩ Enter the code for programming.

0 1, **0 2**, **0 3** or **1 1** Enter the S_0 Module slot on the system[1].

1 ... **3** Select an operating mode:

1 = External line and extension (default)

2 = External line only

3 = Extension only

0 1, **0 2**, **0 3** or **1 1** Enter the S_0 Module slot on the system[2].

or

1. Enter the slots for the modules: HiPath 1120 (02), HiPath 1130/1150 (03), and HiPath 1190 (01 and 11).
2. Enter the slots for the modules: HiPath 1120 (02), HiPath 1130/1150 (03), and HiPath 1190 (01 and 11).

Step by Step

Press this key.
Initial state for Programming Mode.

Mode of Operation

This setting specifies the type of connection, either Point-to-Multipoint or Bus S_0, between the system's digital lines and the local carrier's lines.

Required: Programming Mode must be active (*95 31994).

9 0 Enter the code for programming.

0 1, **0 2**, **0 3** or **1 1** Enter the S_0 Module slot on the system[1].

Enter the slot for the S_0 module slot:

0 0 or **0 1** = for HiPath 1120;

0 0 ... **0 4** = For HiPath 1130/1150;

0 0 ... **0 4** = For HiPath 1190 (for the second module use Slot 11 and Port 00 to... 04).

1 ... **3** Select the type of connection for the external digital line.

1 = Point-to-Point (PP - default for the first port)

2 = Point-to-Multipoint (PMP)

3 = Bus S_0 connection (default for all other ports) only for HiPath 1130/1150 or HiPath 1190

Enter the next module slot

or

• Press this key.
Initial state for Programming Mode.

HiPath 1120 cannot be programmed as S_0 Bus.

With other systems, the first port may also be configured as an S_0 bus.

1.Enter the slots for the modules: HiPath 1120 (02), HiPath 1130/1150 (03), and HiPath 1190 (01 and 11).

Step by Step

Symmetric Call

This setting configures the system for symmetric calls.

Check with your local carrier to know which operating mode should be configured for your system.

Required: Programming Mode must be active (*95 31994).

0 7 4 ♩ Enter the code for programming.

* or # ♩ Activate/Deactivate Symmetric Mode:

* = To activate (default)

= To deactivate

♩ Initial state for Programming Mode.

Absence of ACK Setup for external ISDN Line

Check with your local carrier to know which operating mode should be configured for your system.

Required: Programming Mode must be active (*95 31994).

0 7 5 ♩ Enter the code for programming.

* or # ♩ Activate/Deactivate ACK setup:

* = To activate

= To deactivate (default)

♩ Initial state for Programming Mode.

Notify

Check with your local carrier to know which operating mode should be configured for your system.

Required: Programming Mode must be active (*95 31994).

0 7 6 ♩ Enter the code for programming.

* or # ♩ Activate/Deactivate Notify:

* = To activate (default)

= To deactivate

♩ Initial state for Programming Mode.

Step by Step

Automatic Keypad

Your local carrier can inform you which ISDN features can be controlled by code in your country.

This feature allows you to activate the appropriate ISDN function at the terminal, with no need for external access.

Required: Programming Mode must be active (*95 31994).

0 7 7 ♪ Enter the code for programming.

* or # ♪ Activate/Deactivate Automatic Keypad:

* = To activate

= To deactivate (default)

♪ Initial state for Programming Mode.

Assignment of an external ISDN line to a MSN

This features allows you to assign the MSNs provided by your local carrier to calls made to ISDN lines.

By default all ISDN lines are assigned to MSNs.

Required: Programming Mode must be active (*95 31994).

0 7 8 ♪ Enter the code for programming.

0 0 1 ... 1 4 0 ♪ Enter the slot (001... 140) for the MSN.

 ♪ Enter a number for an external digital line (e.g., 801).

0 0 1 ... 1 4 0 ♪ Enter the next MSN slot

or

♪ Press this key.
Initial state for Programming Mode.

Deleting Assigned External Lines

Required: Programming Mode must be active (*95 31994).

0 7 8 ♪ Enter the code for programming.

0 0 1 ... 1 4 0 ♪ Enter the slot (001... 140) for the MSN.

Step by Step

* ♪	The selected external line is deleted.
0 0 1 ... 1 4 0 ♪	Enter the next MSN slot
or	
# ♪	Press this key. Initial state for Programming Mode.

TME1 Module

The E1 CAS access provides Caller ID and Direct Dialing to Extensions facilities to help reduce call loss rate and make it easier to access the user. The HiPath 1130 and the HiPath 1150 can be equipped with one TME1 module (configured for up to 15 channels). The HiPath 1190 can be equipped with two TME1 modules.

When E1 digital lines are being used, only the External Number Phonebook needs to be programmed. Country Code and Area Code can be left blank.

Note:

- Country Code and Area Code are never sent to the public exchange.

When the total number of digital trunks configured for the module plus the number of external analog lines exceed the maximum capacity of the system, the external analog lines for the EB 202, 206 and 210 expansion modules are disabled. The extensions, however, will continue to work as usual. The lines are disabled in the order they are physically installed (1, 2...). This continues until the total number reaches the required number of trunks. The remaining modules continue operating as usual.

However, in the case of the EB 200, 400 and 800 modules, it is strongly recommended that you change their slots to prevent their deactivation. These modules become inoperable if any one of their external line slots is disabled.

The S_0 and TME1 modules as well as the ADSL and TME1 modules cannot operate simultaneously on the HiPath 1130.

Step by Step

External Line Prefix

This setting specifies the prefix for the PABX external lines, for domestic and international calls. By default, the type of a programmed called is not specified.

Required: Programming Mode must be active (*95 31994).

8 9 ♪ Enter the code for programming.

1 or 2 ♪ Select the type of call:

1 = National

2 = International

⌨ Enter the line prefix (up to 5).

♪ Press this key.
Initial state for Programming Mode.

External Number Registration

To use the Attendant feature each external number must be registered to a specific slot.

If the prefix (Code 089) for these numbers has already been configured, only the final digits need to be registered.

By default, no digits are specified.

Required: Programming Mode must be active (*95 31994).

9 1 ♪ Enter the code for programming.

0 0 1 ... 1 4 0 ♪ Enter the slot (001... 140).

⌨ ♪ Enter the DID number (up to 20 digits).

♪ Press this key to confirm the entry.
(After entering 20 digits, the entry mode exits automatically.)

0 0 1 ... 1 4 0 ♪ Enter the next slot.

or

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Assigning an External Number to an Extension

The external numbers registered for each slot (see "MSN and Extension Assignment - Code 086") must be assigned to extensions or Call Groups designated for answering calls during a specified period of time.

Each extension can only be entered once. A distinctive tone on the handset indicates an invalid entry.

In the default configuration there are no extensions assigned to any slots.

Required: Programming Mode must be active (*95 31994).

9 2 ♪	Enter the code for programming.
0 0 1 ... 1 4 0 ♪	Enter the external number slot.
1 ... 4	Select a period of time:
	1 = Day, incoming
	2 = Day, outgoing
	3 = Day, incoming, after a specified period of time.
	4 = Night, incoming, after a specified period of time.
⊞	Enter the extensions or Call Groups (CG, HG or UCD - up to 10 extensions per group. For example, 11/770, 780 or 790).
0 0 1 ... 1 4 0 ♪	Enter the next slot.
or	
# ♪	Press this key. Initial state for Programming Mode.

Deleting an Extension Number

Required: Programming Mode must be active (*95 31994).

9 2 ♪	Enter the code for programming.
0 0 1 ... 1 4 0 ♪	Enter the external number slot.
* ♪	Press the key to remove it.
0 0 1 ... 1 4 0 ♪	Enter the next slot.

Step by Step

or

♪ Press this key.
Initial state for Programming Mode.

Busy Signal

This features allows all telephones in the "Busy Signal" Group to automatically switch to a busy signal when an extension of the group (that activate this feature) has a call in progress.

External calls no longer ring (caller hears a busy signal).

This is useful when there is only one person of the group available and this person does not want to be disturbed by other external calls while there's a conversation in progress. The caller will think that the called person is busy at the moment.

Required: Programming Mode must be active (*95 31994).

0 0 4 ♪ Enter the code for programming.

0 0 1 ... **1 4 0** ♪ Enter the slot for the MSN number.

1 **or** **2** ♪ Choose a period of time for the assignment of MSN to extensions:

1 = Day

2 = Night

0 0 1 ... **1 4 0** ♪ Enter the slot for the group with a busy signal.

0 0 1 ... **1 4 0** ♪ Enter the next slot for the group with a busy signal.

or

♪ Press this key.
Initial state for Programming Mode.

This feature is valid only for digital lines with MSN numbers. It is not valid if more than one extension is configured for a MSN number.
If a Fax/DID module is installed and configured for digital lines, this feature will be invalid.

Step by Step

Local Area Code Filter

When a call is received, the local area code (LAC) serves as a filter for the number entered and determines its type.

By default, no number is set.

Required: Programming Mode must be active (*95 31994).

0 1 1 ♪ Enter the code for programming.

⠿ ♪ Enter the Local Area Code (up to 10 digits).

♪ Press this key.
Initial state for Programming Mode.

Country Area Code Filter

When a call is received, the country area code (CAC) serves as a filter for the entry number and determines its type.

Required: Programming Mode must be active (*95 31994).

0 1 2 ♪ Enter the code for programming.

⠿ ♪ Enter the country area code (up to 10 digits) according to the table below.

♪ Press this key.
Initial state for Programming Mode.

Country	CAC	Country	CAC
South Africa	27	Latvia	371
Argentina	54	Lithuania	370
Brazil	55	Malaysia	60
Canada	1	Mexico	52
Chile	56	Pakistan	92
China	86	Peru	51
China 2	86	Portugal	351
Spain	34	Russia	7
Philippines	63	Singapore	65
Greece	30	Thailand	66
Spanish (IM)	-	Turkey	90
French (IM)	-	Ukraine	380

Step by Step

Country	CAC	Country	CAC
English (IM)	-	Venezuela	58
India	91	Vietnam	84
Italy	39	-	-

ADSL Module

The ADSL module allows you to connect PCs to a network and have them share the ADSL access without requiring a splitter, ADSL modem, hub or any additional network cards. To share access simply install the module in one of the PCs.

The PCs are connected to the HiPath 1100, which provides the same functions as the V.24 serial interface via LAN. This capability is used for integrating applications such as the HiPath 1100 Manager, Interaction Center Smart and CDR applications. ADSL access must be enabled by a carrier for one of the lines. An Internet provider is also required.

To configure the ADSL module correctly you need information about the ADSL protocol, the carrier's VPI/VCI, the provider's DNS servers, user name and password. This information is entered in the HiPath 1100 ADSL Manager Administrative software for configuring the module correctly.

All the PCs must have a network card installed and be on the same network as the ADSL module used as a gateway for accessing the Internet (the default IP is 10.0.0.1). For example, a network with IP addresses from 10.0.0.2 to 10.0.0.10 and subnet mask 255.255.255.0.

Do not connect a V.24 interface adapter cable to the switch when using an ADSL module. All data is delivered through the network. Remember to configure the Communications Server for the network connection.

Step by Step

Restoring the ADSL Module Default Settings

This code restores the default configuration of the ADSL module assuming an IP of 10.0.0.1.

Required: Programming Mode must be active (*95 31994).

0 1 3 ♩ Enter the code for programming.

♩ Initial state for Programming Mode.

Relay and Sensor on the HiPath 1120

You can connect a Music module to the HiPath 1120 system. This module also provides a Relay and a Sensor for integrating other devices such as an Entrance Telephone, a Door Opener, alarms, etc.

Sensor

When the state of the sensor contact changes, for example, when an open contact closes, the following functions can be executed:

- Selection of a number in the Speed Dialing Phonebook
- Activation of a relay
- Select a number from the Speed Dialing phonebook and activate the relay.

The activation logic based on the initial position of the sensor contacts and its resulting actions are programmable.

Programming the Sensor's Function

Required: Programming Mode must be active (*95 31994).

7 0 ♩ Enter the code for programming.

0 ... 3 Select the sensor's function:

Step by Step

0 = Deactivate the sensor's function (default)

1 = Dial the number specified in **"Number Dialed by Sensor Activation"** (Code 052).

2 = Activate the relay through the sensor

3 = Detect DTMF code. When this setting is selected, the number that was called must acknowledge or ignore an alarm call by sending an acknowledgement code (**"#" DTMF signal**)

♪ Press this key.
Initial state for Programming Mode.

Sensor Activation Logic

The sensor's main position can be set as follows:

- Contacts are closed. The sensor is activated when contacts are open.
- Contacts are open. The sensor is activated when contacts are closed.

Required: Programming Mode must be active (*95 31994).

7 4 ♪ Enter the code for programming.

0 or 1 ♪ Select the main position for the sensor:

0 = Contacts closed (default)

1 = Contacts open

♪ Press this key.
Initial state for Programming Mode.

Time between Attempts for Activating the Sensor

This setting specifies a timeout after which a new attempt is made to call an internal or external number, assuming that the line was busy on the previous attempt.

The default setting is 3 minutes.

Required: Programming Mode must be active (*95 31994).

Step by Step

0 5 0 ♩	Enter the code for programming.
0 0 ... 1 0 ♩	Select a timeout until the next attempt (0 to 10 minutes).
♩	Initial state for Programming Mode.

Step by Step

MSN Assignment for the Sensor

This setting specifies an MSN for the system. This MSN will be used for outgoing calls. By using this MSN the called party is able to identify the origin of the call. For instance, this would be the case for an alarm.

The default configuration does not specify a MSN.

Required: Programming Mode must be active (*95 31994).

0 5 1 ♪ Enter the code for programming.

0 0 1 ... 1 4 0 ♪ Enter the slot for the MSN number.

♪ Initial state for Programming Mode.

Deleting

Required: Programming Mode must be active (*95 31994).

0 5 1 ♪ Enter the code for programming.

0 0 1 ... 1 4 0 ♪ Enter the slot for the MSN number.

* ♪ Press the key to remove it.

♪ Initial state for Programming Mode.

Number Dialed by Sensor Activation

This setting specifies the number to be automatically called when a specific sensor is activated. The number to be dialed when the sensor is activated is stored in the System Speed Dialing phonebook in entry 249. When the number stored in the System Speed Dialing is changed, this field is updated. Similarly, when the number in the field is changed, the change is reflected in the System Speed Dialing phonebook.

The default configuration does not specify any number.

Required: Programming Mode must be active (*95 31994).

0 5 2 ♪ Enter the code for programming.

♪ Enter the number to be called (up to 20 digits).

♪ Initial state for Programming Mode.

Step by Step

Number of Attempts for Activating the Sensor

This setting specifies the number of call attempts (between 1 and 100) for the number specified in "Number Dialed by Sensor Activation." (See also Time between Attempts for Activating the Sensor).

An attempt is made after every call that was not answered (busy signal), or when the "Detect DTMF Code" option (Code 70, Option 3) is enabled and no acknowledgment is received. When this occurs, the call is disconnected and a new attempt is made.

By default, only one attempt is made.

Required: Programming Mode must be active (*95 31994).

0 5 3 ♪ Enter the code for programming.

0 0 1 ... 1 0 0 ♪ Enter the number of attempts (001 to 100).

♪ Initial state for Programming Mode.

DTMF signals for the Relay

This setting specifies a number sequence that is converted to DTMF signals and sent after a call is answered. The number to be called must be specified in "Number Dialed by Sensor Activation" (Code 052).

The default configuration does not specify any number.

Required: Programming Mode must be active (*95 31994).

7 7 ♪ Enter the code for programming.

▦ ♪ Enter the number sequence (up to 20 digits).

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Relay

The relay can be activated via the sensor, assuming that the sensor is configured. It can be activated manually or automatically after a specified time. When the relay is activated, the contacts close. When it is deactivated, the contacts open.

By default, the relay is set to Switch Mode.

Required: Programming Mode must be active (*95 31994).

7 5 ♪ Enter the code for programming.

1 ... 5 Select the operating mode for the relay:

1 = "Switch": The relay can only be turned on from an extension by entering the proper feature code (see Miscellaneous Functions - Relay in the User Manual).

2 = "Monoflop": The relay is closed for a specified length of time. Alternatively, the relay can also be opened before the set time, by entering the proper feature code (see Miscellaneous Functions - Relay in the User Manual).

3 = "Switch": The current state of the really is reversed when the feature code for activating the Relay is selected at an extension.

4 = "Music on Hold": The Relay can be used for activating external equipment connected for playing announcements/music.

5 = "External signal": It is possible to use the relay to control a second ring from an analog extension.

♪ Initial state for Programming Mode.

When playing music from an external music source, it is required that all regulations related to copyrights for the country in question are followed.

Step by Step

Timer for Deactivating the Relay

Required: Programming Mode must be active (*95 31994).

7 3 ♪ Enter the code for programming.

0 0 0 ... 2 5 5 ♪ Enter the length of time (000 to 255) that the relay must remain closed. One unit equals 0.5 seconds.
The default is "002" = 1 second.

♪ Press this key.
Initial state for Programming Mode.

If the closing time is set to "000," the relay will remain active until it is manually deactivated.

External Ring for Activating the Relay

This setting lets you use the relay to control a second ring signal for an analog extension.

Required: Programming Mode must be active (*95 31994).

0 7 1 ♪ Enter the code for programming.

♪ Enter the extension number (e.g., 12/102).

♪ Initial state for Programming Mode.

Step by Step

Interaction Center Smart

Interaction Center Smart is a Call Center solution that allows supervisors to monitor and track one or more UCD Groups of up to 10 agents each, providing real-time data that includes agent status, support statistics (by group or by agent) and other types of information to help manage a Call Center.

With the Smart solution you can determine the number of calls received, number of calls lost, times of day when the highest number of calls are received and other pertinent information.

The system helps assess and improve your company's support service while providing essential information in an online environment or by generating reports.

The Interaction Center Smart solution provides two tools:

Monitor - Real-time monitoring of agent status, queued calls, and group statistics such as number of calls answered and number of calls abandoned. This provides continuos tracking of customer support services.

Analyst - Support Service statistical analysis by group or by agent for specific periods of time gives the supervisor complete flexibility. You can configure reports to show detailed information including the number of calls received, answered, abandoned, transferred, answered within preconfigured profiles, as well as ACD call duration, total talk time, total queuing time and other information.

Step by Step

TAC Smart - Telephony Advanced Control

The TAC SMART (Telephony Advanced Control) is designed to fit the needs of the telephony market by simplifying operations and improving the quality of services provided. Complete control of the telephone using Windows interface (make calls, answer and transfer calls, call forwarding, and so on...).

Analog Extension: With TAC Smart analog extension users have access to various facilities that up to now were only available to system telephone users, Caller ID being one of them.

Fast Access: Each user can create a list of most frequently used extensions and make calls simply by selecting one. The user can also use this list to check the extension status: busy or free.

Caller List: Whether the user's machine is on or off, the last 100 calls are stored in the server: calls answered, lost or made. All extension activity is recorded.

Customers Come First: TAC Smart provides two Speed Dialing phonebooks: a System Speed Dialing available to all TAC users, and an Individual Speed Dialing that displays all customer information before a call is answered.

Call Pickup: All incoming calls to a user's Pickup Group are shown on the screen, including source, destination, and hold time. You can answer calls and easily forward them to another extension within the company.

Architecture:TAC's operation is based on a Client/Server architecture. The server is connected to the C.O. via an ADSL module or a serial interface. It can then exchange signals with the C.O. and receive all information about an extension, including its status. Whenever any activity occurs, the server sends a command to the extension's client-PC via LAN. When the server receives a command from the client-PC, it sends it to the exchange.

Step by Step

HiPath 1100 Manager

The HiPath 1100 Manager is an administration software designed for programming HiPath 1100 systems quickly and easily by means of a graphical interface without the need to know programming codes.

The HiPath 1100 Manager can access the C.O. locally through a USB or V.24 serial interface or remotely via LAN, that is, as long as a network PC is connected online to the HiPath 1100 via a serial interface or an ADSL module. You can also update the HiPath 1100 software using the HiPath 1100 Software Update then store the database with the system's settings. Refer to the HiPath 1100 Manager Help file before executing this procedure.

HiPath 1100 ADSL Manager

HiPath 1100 ADSL Manager is an administration software designed for programming ADSL modules.

Hardware Requirements:

– 10/100 Base-T network card.

General Information:

– TCP/IP protocol;

– Default IP: 10.0.0.1;

– Default subnet mask: 255.255.255.0.

If you need to reset the IP address and the subnet mask, use code 013 "Restore ADSL module default settings."
Do not connect the V.24 interface adapter cable to the switch when using an ADSL module.

Once ADSL access to the provider is established and the module is connected to the HiPath 1100, you may need to make some adjustments for WAN and LAN use. The HiPath 1100 ADSL Manager application is designed to help you make these adjustments. It allows you to view, edit and update your system's configuration.

Step by Step

For more details on how to configure an ADSL module, see the topics in the Help file of the HiPath 1100 ADSL Manager software.

HiPath 1100 E1 Trunk Manager

HiPath 1100 E1 Trunk Manager is an administration software designed for programming TME1 modules.

Hardware Requirements:

– Serial communications interface (COM port).

General Information:

With the HiPath 1100 E1 Trunk Manager you can do the following:

- Download the software and the database
- Choose the type of connection for the software and the module (local or via modem)
- Choose a COM port

For more details on how to configure a TME1 module see the topics in the Help file of the software.

The availability of administrative softwares HiPath 1100 Manager, HiPath 1100 ADSL Manager and HiPath 1100 E1 Trunk Manager for our clients is subject to undergoing a technical course for prospective users.

Step by Step

Call Report

CallReport is a billing system that records information on PABX system activity, such as calls received and calls made.

CallReport operates in a regular PC under a Windows 95 / 98 /NT 4.0 / 2000 / XP environment. It periodically receives data originating from the PABX that are then processed and stored in a computer hard drive, identifying extension, time, duration, branch, exit route and cost of call. Subsequently, it can generate reports containing total cost by extensions, sectors, and groups, among others, in addition to incoming and outgoing traffic reports.

All the information is specified in the CallReport database and can be manipulated by the user logged in as Administrator.

VMIe Protocol

Voice Mail analog connections require the VMIe protocol (Voice Mail Interface - extended). Voice Mail communication is carried out in the form of DTMF signals consisting of the following information:

1 Type of Call (TOC)
Required
Fixed size: 4 characters
Format: "***n" (n = code from table below)

Code	Type of Call	Code	Type of Call
1	Internal for Voice Mail	2	Not used
3	Call Forwarding (*11)	4	Second Attendant (*14)
5	Not used	6	Not used
7	Not used	8	Not used

2 Calling extension
Required
Fixed size: 6 DTMF signals
Format: "****i" (i = calling extension)
External call format: always "******"

Note: if an extension is longer, the DTMF digit "*" in the protocol is replaced by the additional extension digit.

Step by Step

3	Extension called Required element for calls Type 3 and 4. This element remains blank for all types of calls. Fixed size: 6 DTMF signals Format: "****i" (i = extension called)	**Note:** if an extension is longer, the DTMF digit "*" in the protocol is replaced by the additional extension digit.
4	Additional information about the calling extension Optional element Fixed size: 2 DTMF signals Format: "*i" (i = code in table below)	

Code	Information
1	The calling extension is a regular internal extension
2	Not used
3	The calling extension is an external user on an analog line.
4	The calling extension is an external user on a digital line

1. Internal call from Extension 16 to the VMIe Group: ***1***16*1;
2. Internal call from Extension 15 directly to Extension 11 which is forwarded (*11) to the VMIe Group: ***3****15****11*1;
3. Internal call from Extension 11 directly to Extension 15 which is forwarded to the VMIe Group configured as a Second Attendant. ***4****11****15*1;
4. Incoming call over an external analog line to Extension 11 which is forwarded (*11) to the VMIe Group: ***3**********11*3;
5. Incoming call over an external digital line to Extension 11 which is forwarded (*11) to the VMIe Group: ***3**********11*4;
6. Incoming call over an external analog line to Extension 12 which is forwarded to the VMIe Group configured as Second Attendant: ***4**********12*3;
7. Incoming call over an external digital line to Extension 12 which is forwarded to the VMIe Group configured as Second Attendant: ***4**********12*4;

Step by Step

8. Internal call from Extension 1015 directly to Extension 1011 which is forwarded (*11) to the VMIe Group: ***3**1015**1011*1;
9. Internal call from Extension 10015 directly to Extension 10011 which is forwarded to the VMIe Group configured as Second Attendant: ***4*10015*10011*1.

Voice Mail Protocol for the system:

The Voice Mail signals that there are messages in the extension's mailbox by sending the DTMF service code (*68) plus the extension number. When a message is erased, another DTMF code is used (#68) in order to deactivate signaling at the extension belonging to the VMIe Group. These codes are configurable to provide compatibility with different Voice Mail systems. Please refer to "Deactivating Internal MWI #68" and "Activating Internal MWI *68" in "System Configuration - Service Codes" in the HiPath 1100 System Manager.

For example,

1. Voice Mail indicates that there is a message in the mailbox of Extension 13: *6813;
2. Voice Mail indicates that the mailbox of Extension 12 is empty: #6812.

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Setup and Installation

This chapter provides basic instructions and describes procedures for setting up the HiPath 1120, HiPath 1130 and HiPath 1150 systems. Due to the size of the HiPath 1190 system and the many configuration options installation documentation must be kept by qualified technical personnel only.

Safety Recommendations

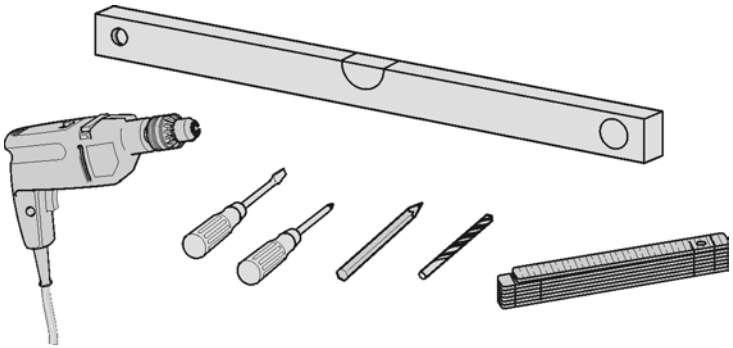
To ensure proper and reliable operation follow these guidelines when setting up your system:

- Install the system in a central location taking into account the length and extension of cables.
- The location chosen should satisfy the following environmental requirements:
  - Internal environment with natural air flow of air
  - Operation: 23°F to 113°F (-5°C to +45°C), from 5% to 95% RH
- To avoid electrical hazards keep a safety lock on the main distributing frame of the HiPath 1130 and the HiPath 1150.
- Protect against flood, flammable materials, excessive dust, vibration and mechanical stress.
- Do not install the system where there is a risk of exposure to sunlight, humidity, heating or cooling sources or proximity to electrical cabling.
- Avoid placing the equipment near data transmission equipment, electrical soldering devices, copy machines, PCs and other electrical equipment that could cause electrical interference
- Install a power outlet for the equipment at a distance of no more than 6.5 feet (2 meters).
- Do not block the natural flow of air around the equipment.
- Do not install inside closets.

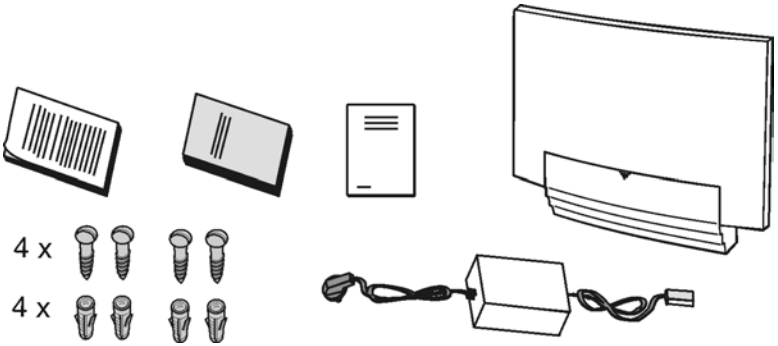
Note: For RSA - África do Sul version extension lines with a C/D interface must be installed indoors only. Only regular extensions (without a C/D interface) can be installed outdoors.

Warning: Only service and installation personnel should open the PABX box and/or connect and handle trunk and extension lines.

Required Tools

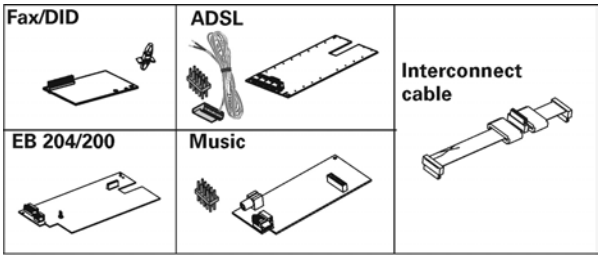


HiPath 1120 Contents

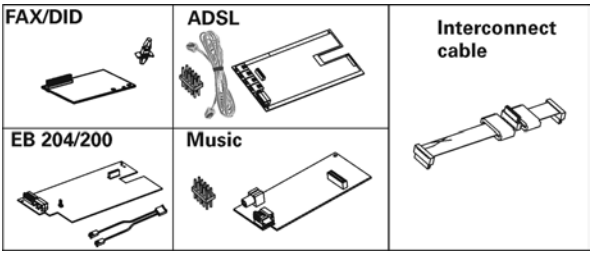


HiPath 1120 - Option Modules

1

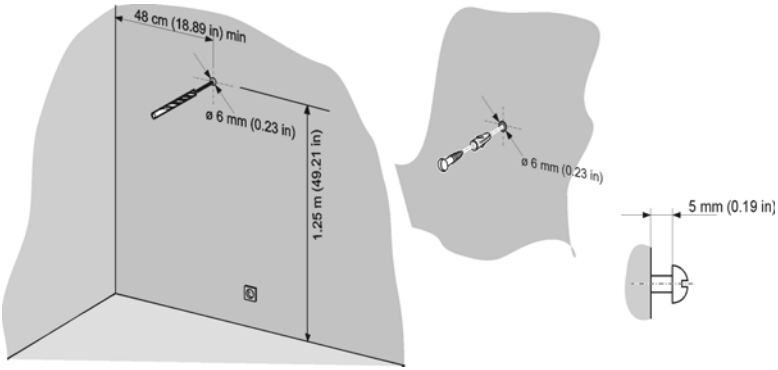


2 **Version CND**



HiPath 1120 - Installation

1



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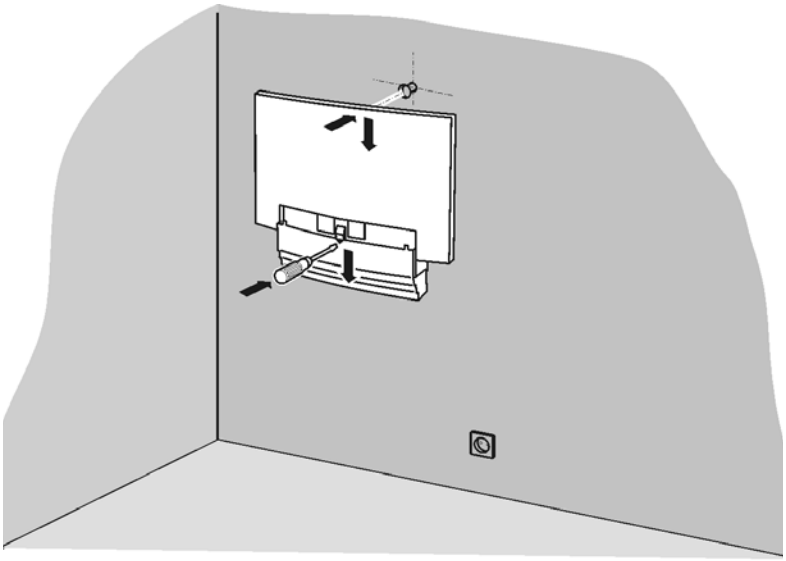

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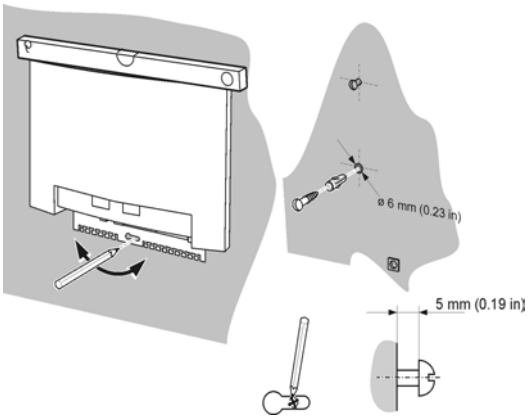

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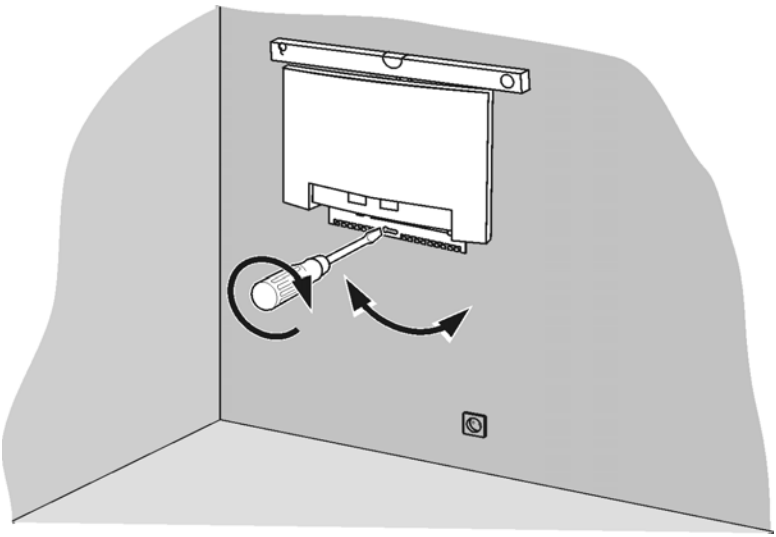
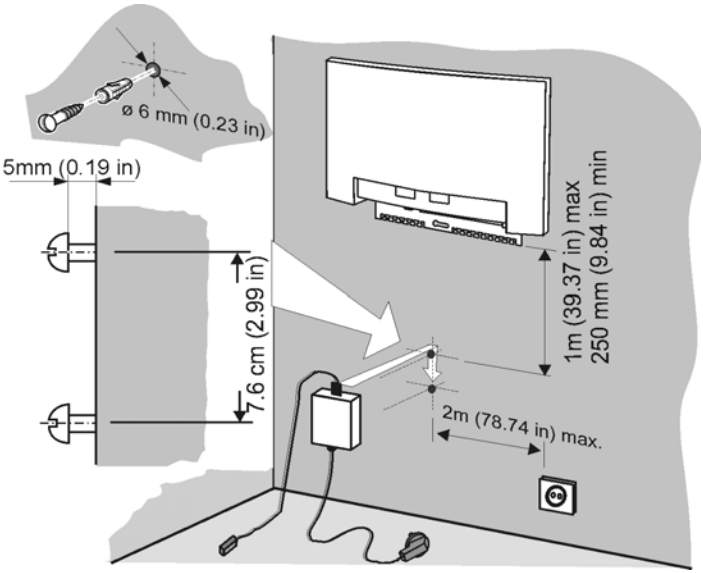
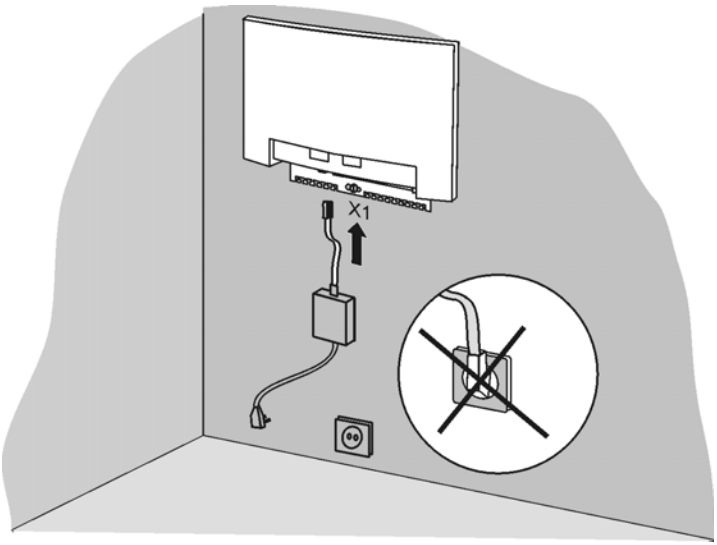


5

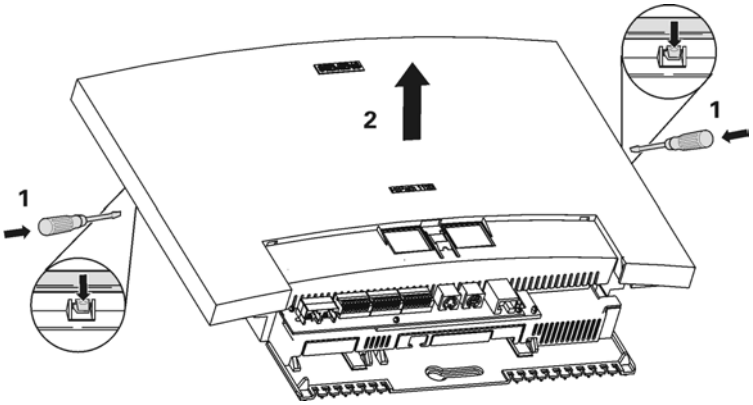

ø 6 mm (0.23 in)
5mm (0.19 in)
7.6 cm (2.99 in)
1m (39.37 in) max
250 mm (9.84 in) min
2m (78.74 in) max.

6

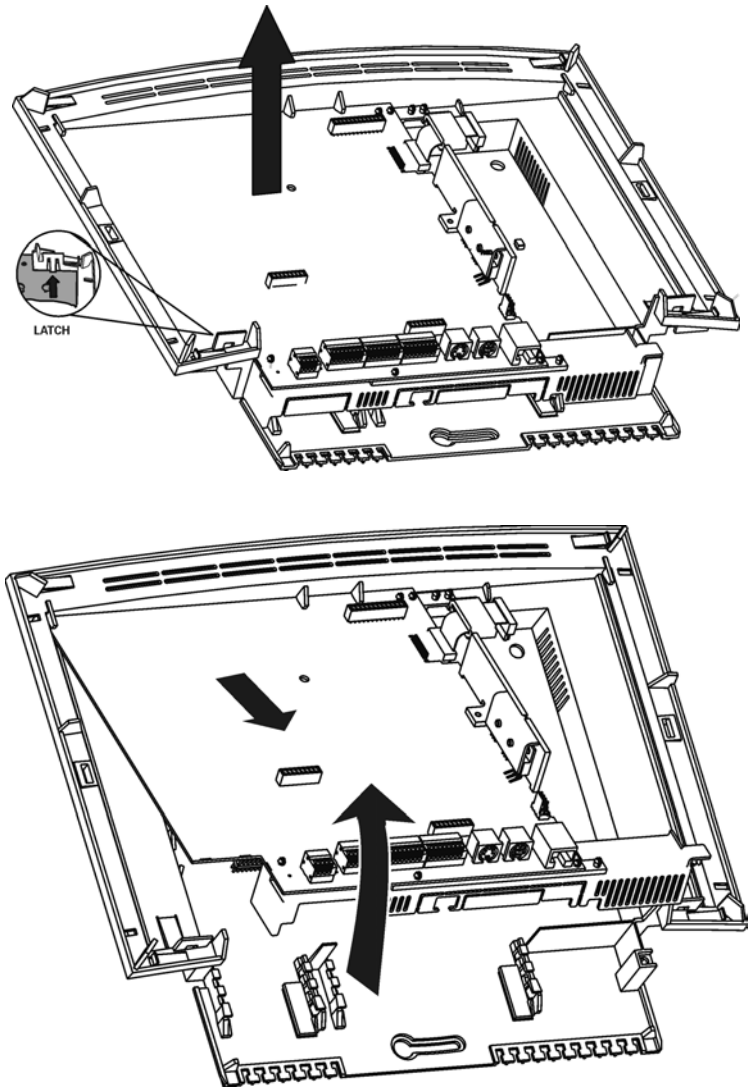


HiPath 1120 – Installing Optional Modules

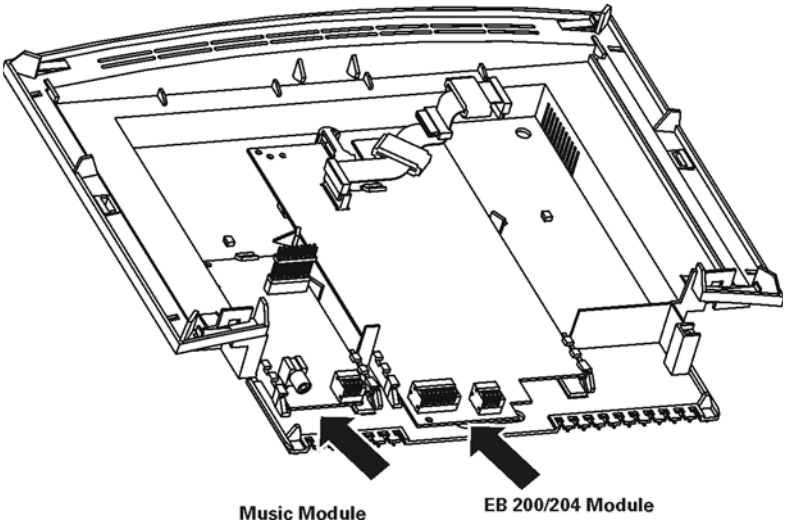
1 Opening the System



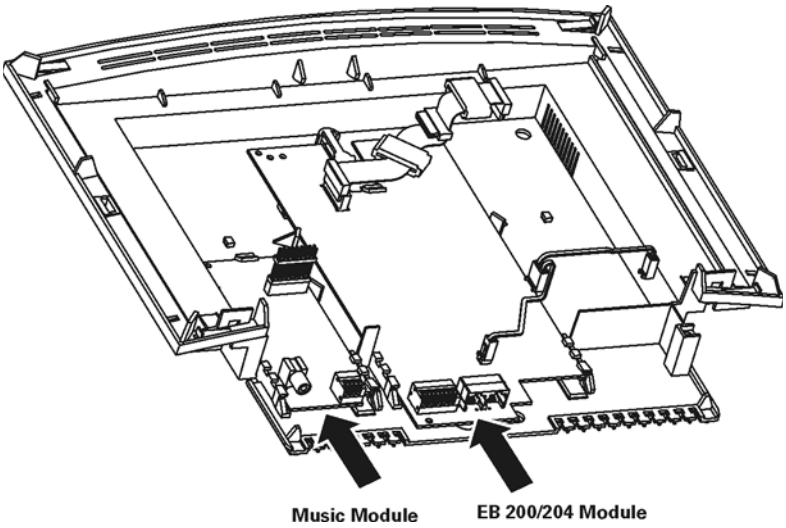
2 Removing the Motherboard (MB)



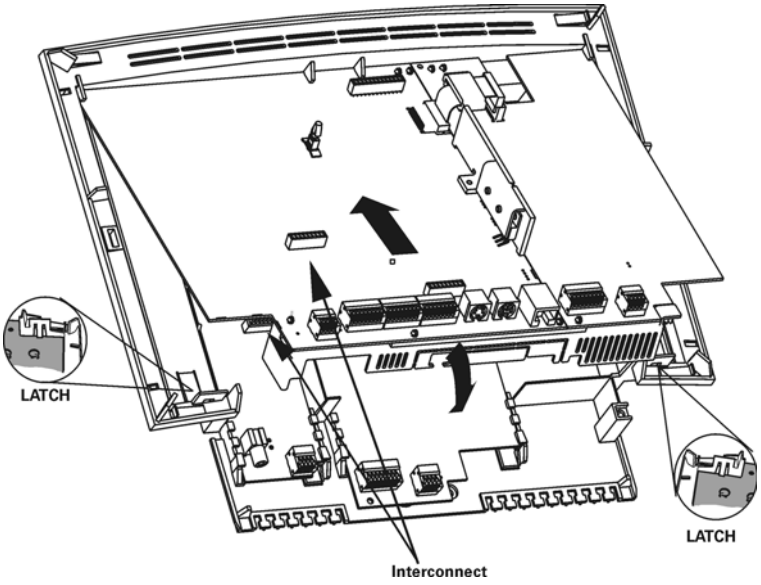
3 Satellite Modules: Music, EB 200/204 and S_0



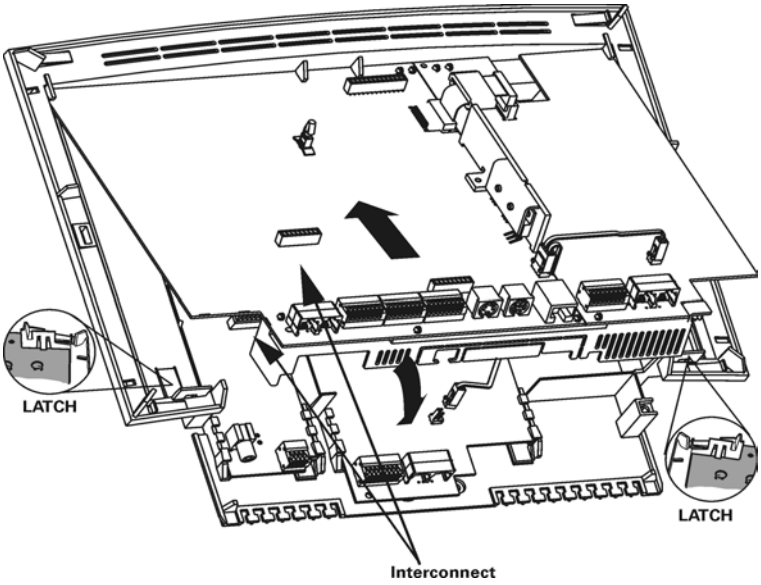
Version CND



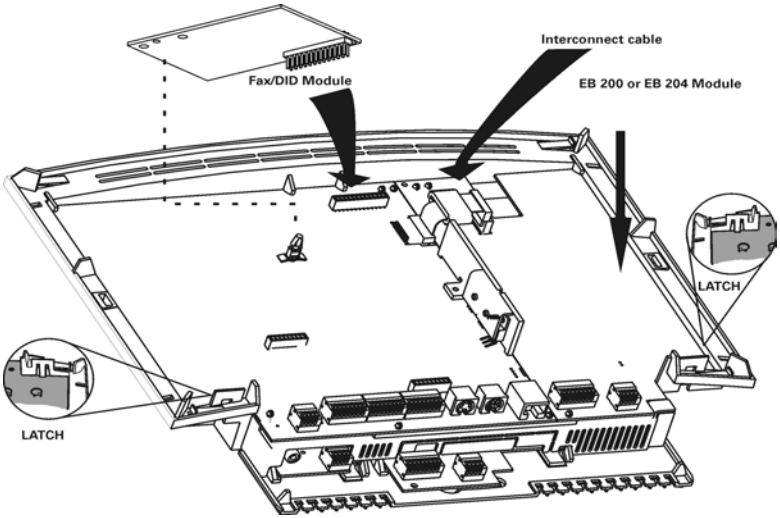
4 Master and Satellite Modules



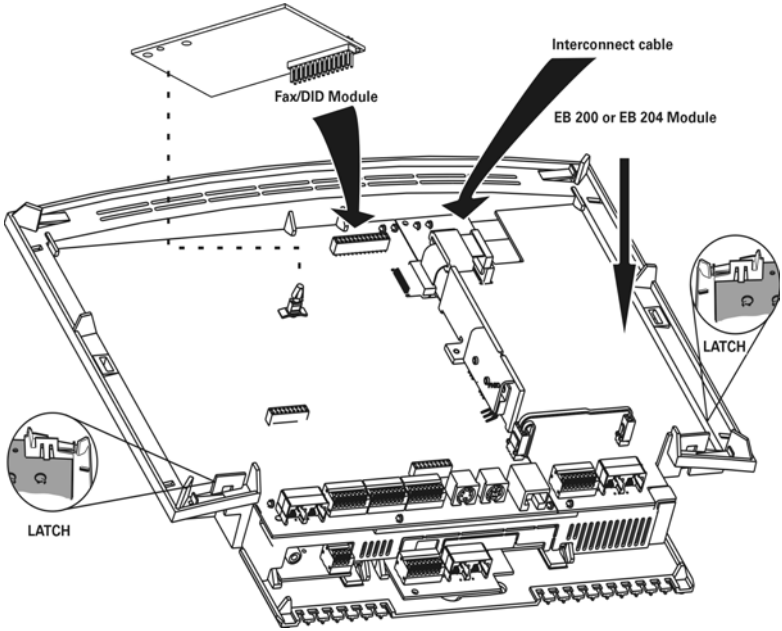
Version CND



5 Master Modules: Fax/DID, S_0 and EB 200/204

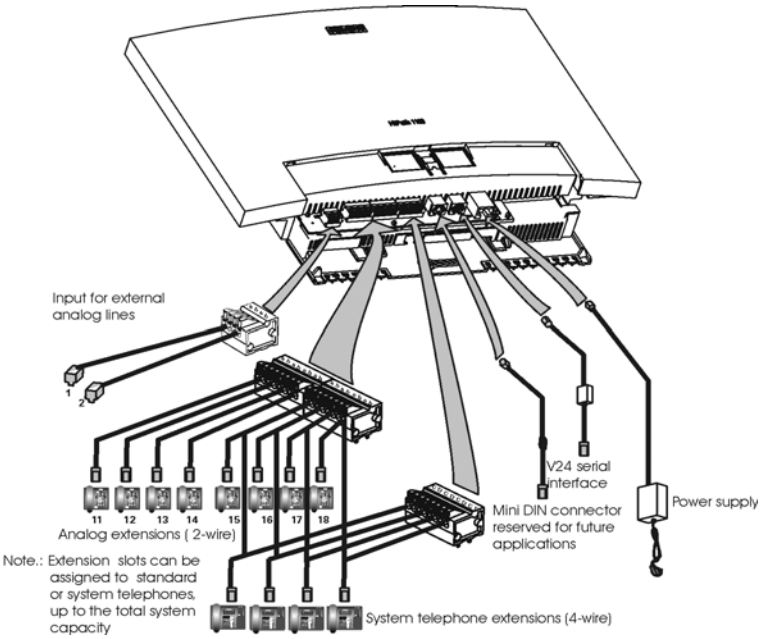


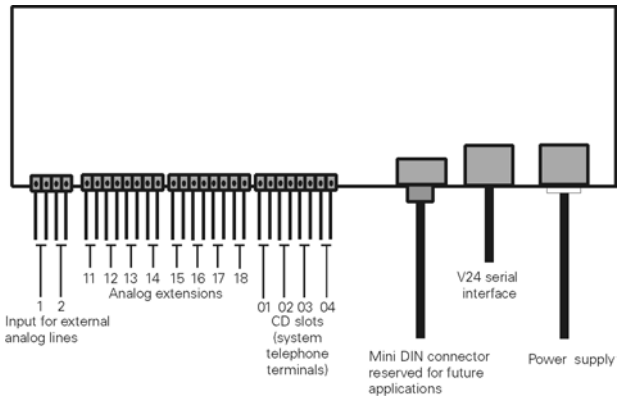
Version CND



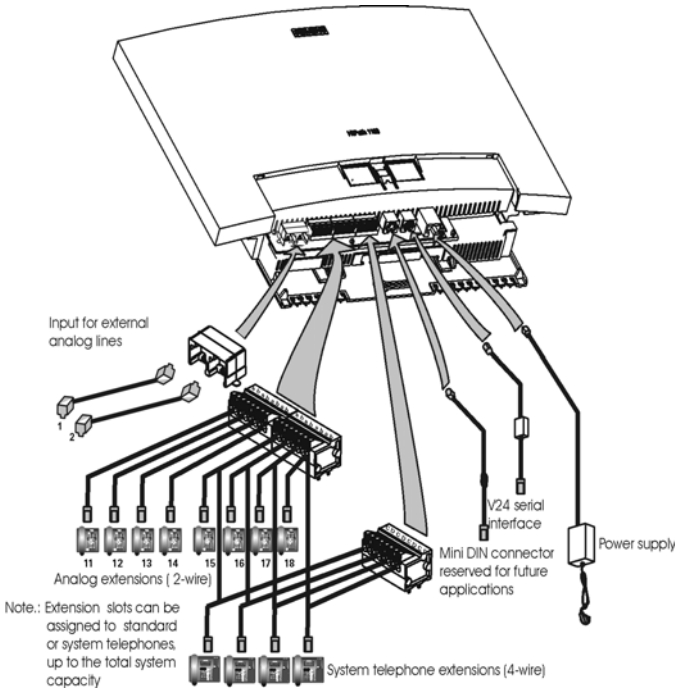
HiPath 1120 - External Connections

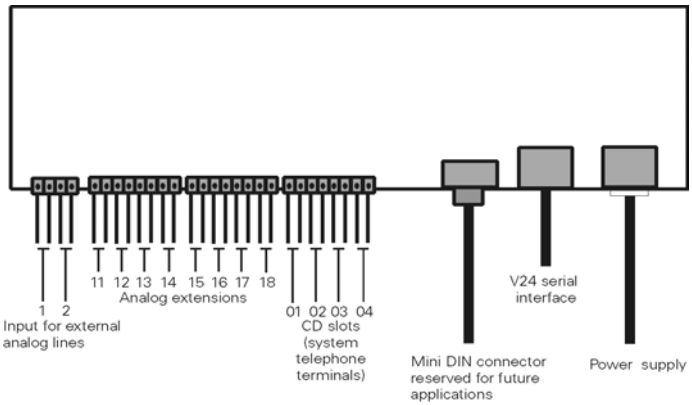
1 Motherboard (MB)



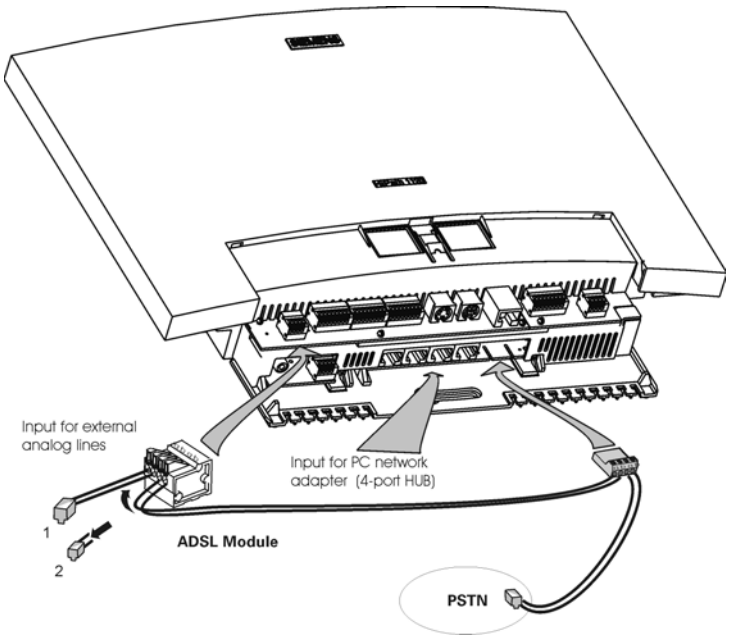


Version CND

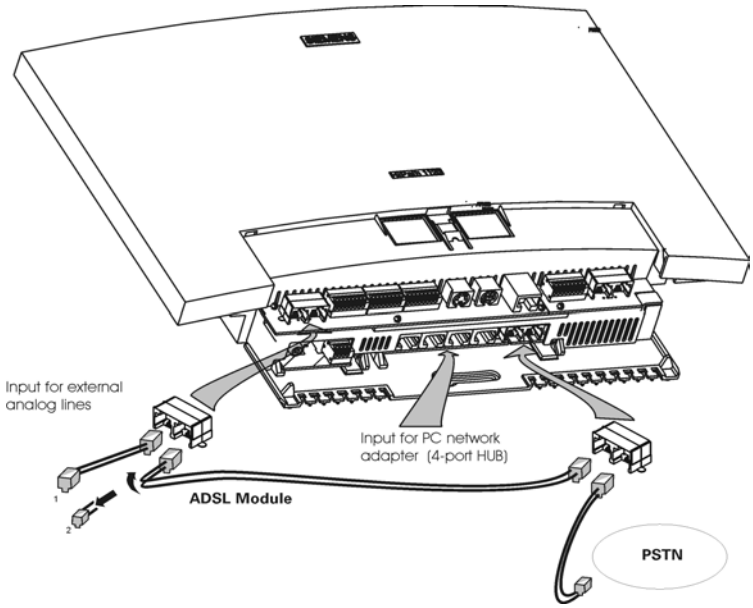

Input for external analog lines
1
2
11
12
13
14
15
16
17
18
Analog extensions (2-wire)
Note.: Extension slots can be assigned to standard or system telephones, up to the total system capacity
V24 serial interface
Mini DIN connector reserved for future applications
Power supply
System telephone extensions (4-wire)


1 2
Input for external analog lines
11 12 13 14 15 16 17 18
Analog extensions
01 02 03 04
CD slots (system telephone terminals)
V24 serial interface
Mini DIN connector reserved for future applications
Power supply

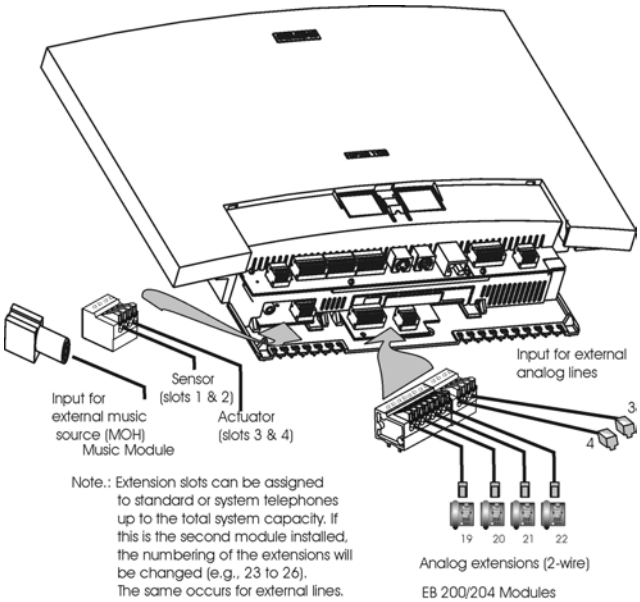
2 ADSL Module



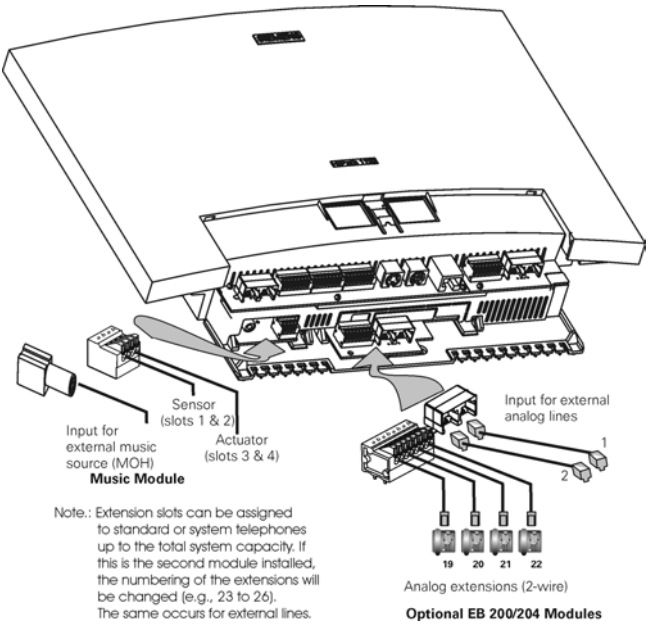
VersionCND



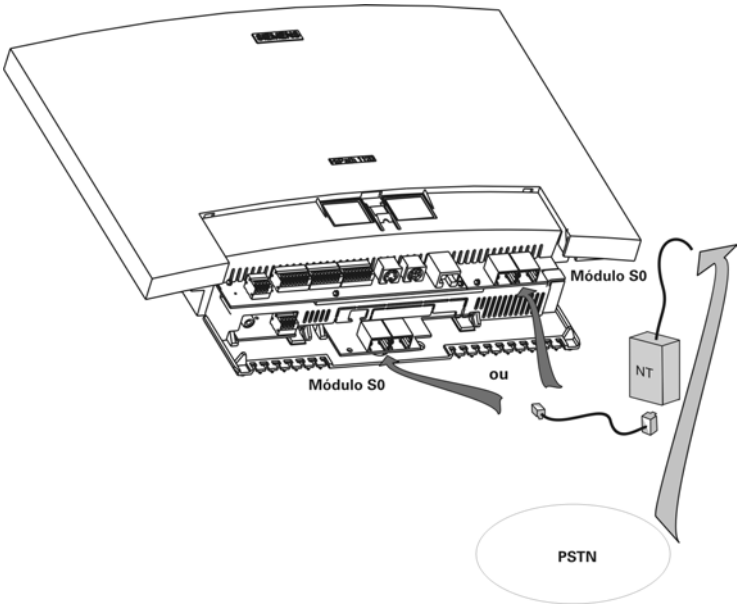
3 Music and EB 200/204 Satellite Modules



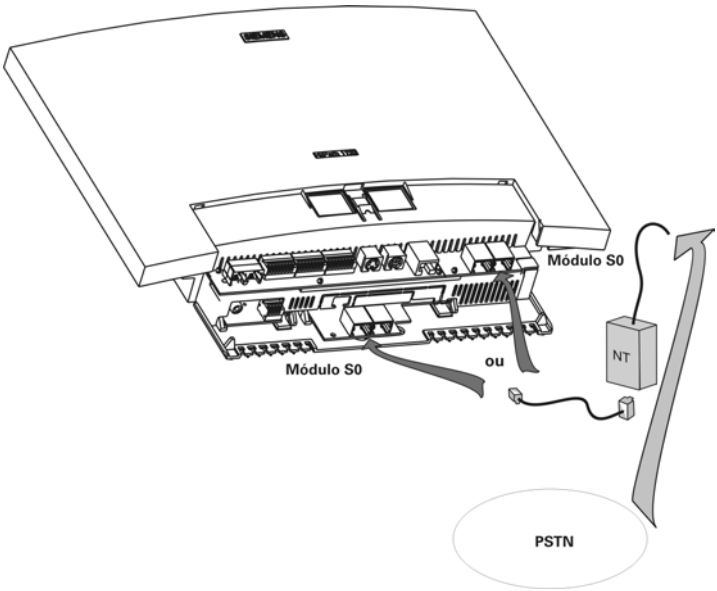
VersionCND



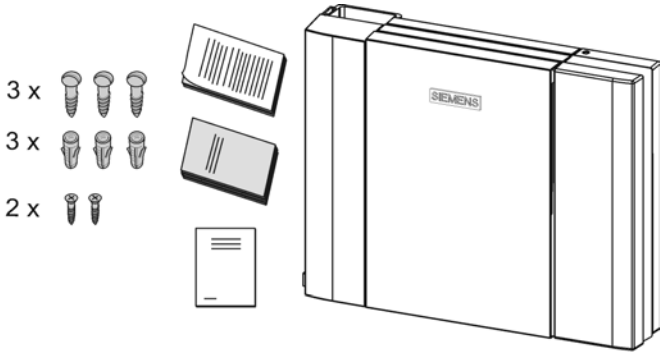
4 S_0 Module

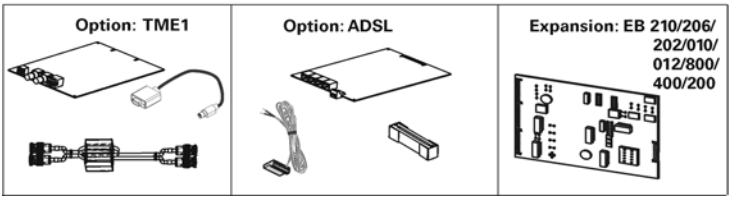


VersionCND



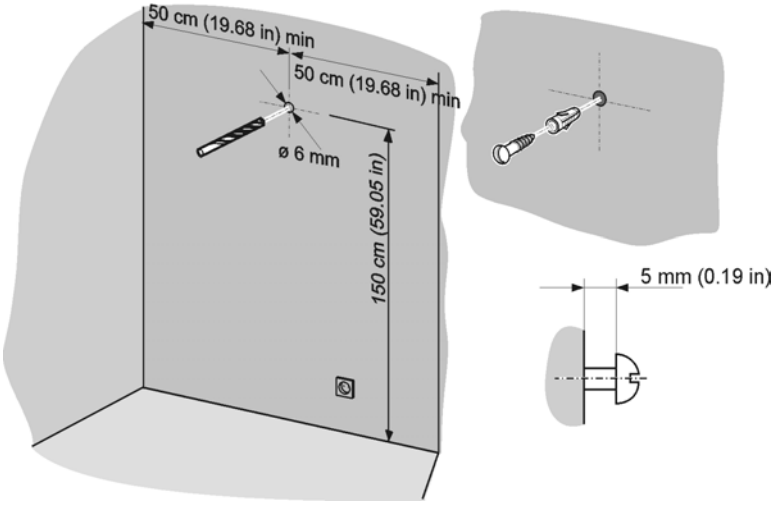
HiPath 1130 / 1150 Package Contents





HiPath 1130 / 1150– Installation

1



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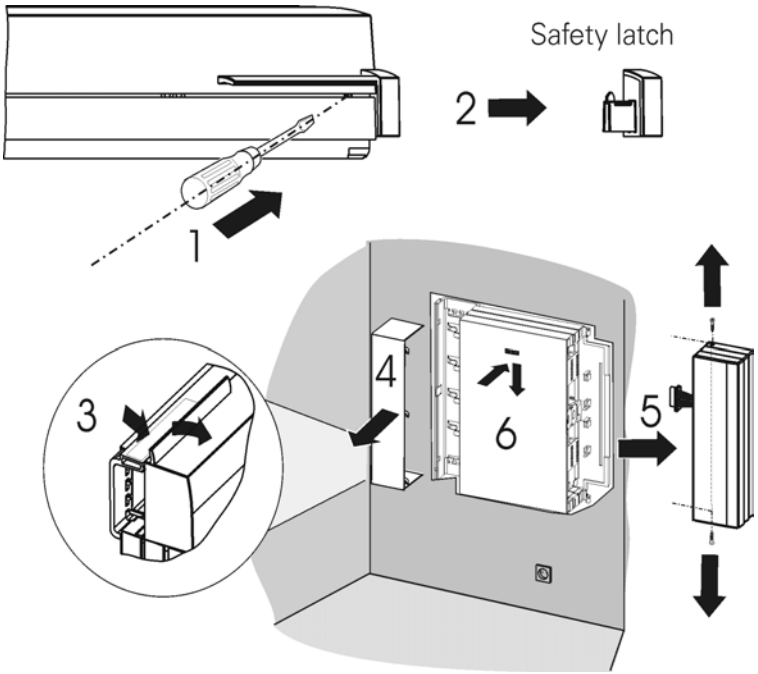
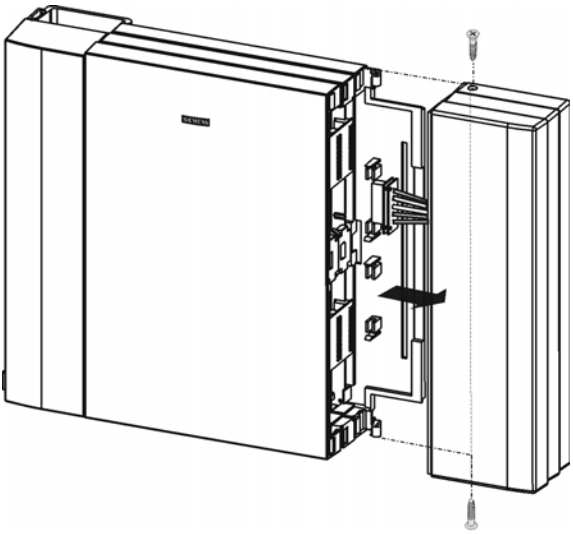
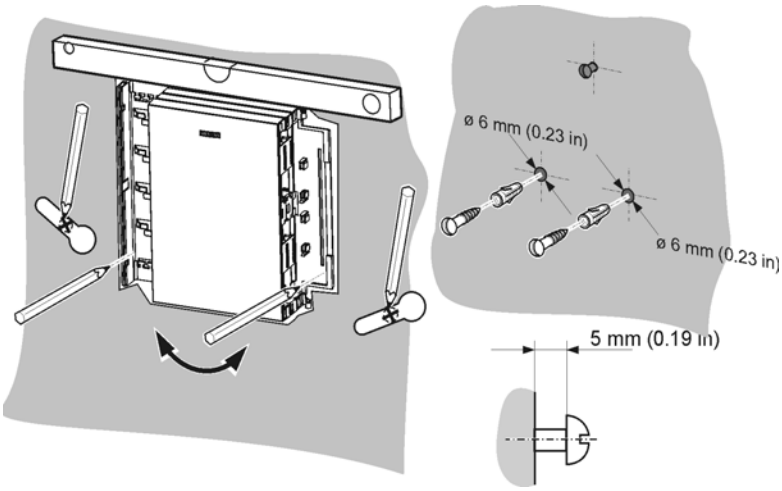


3 Power Supply



4



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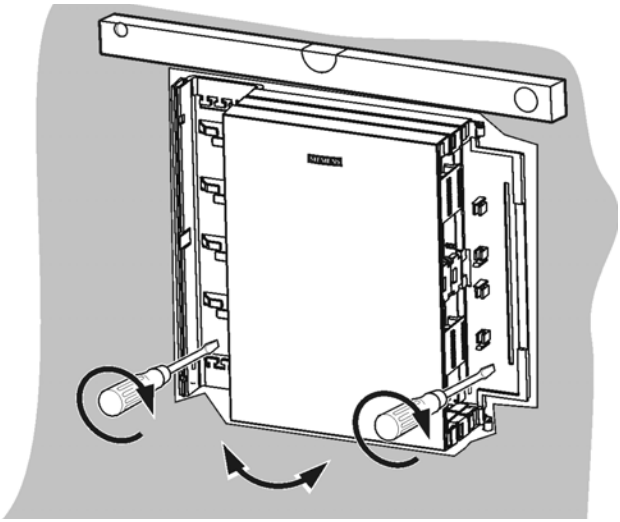
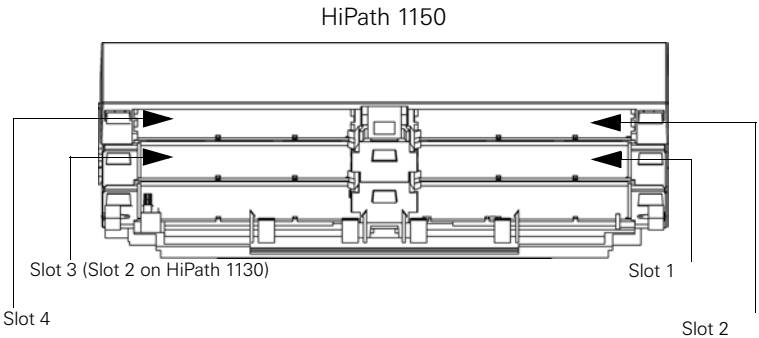


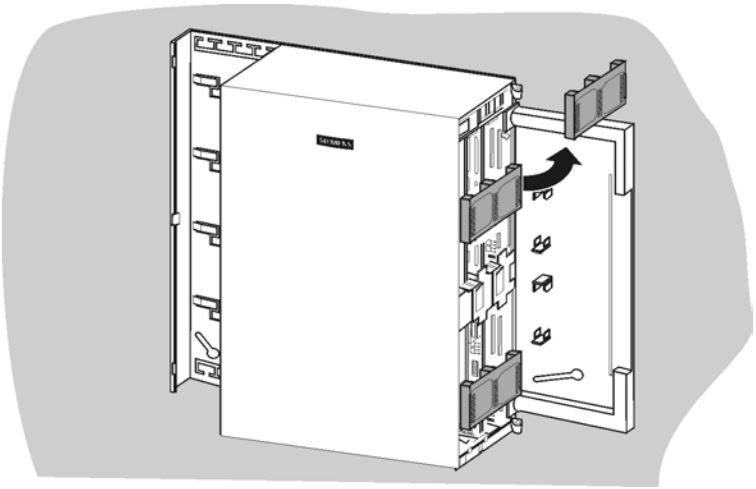
6 View of Module Slots



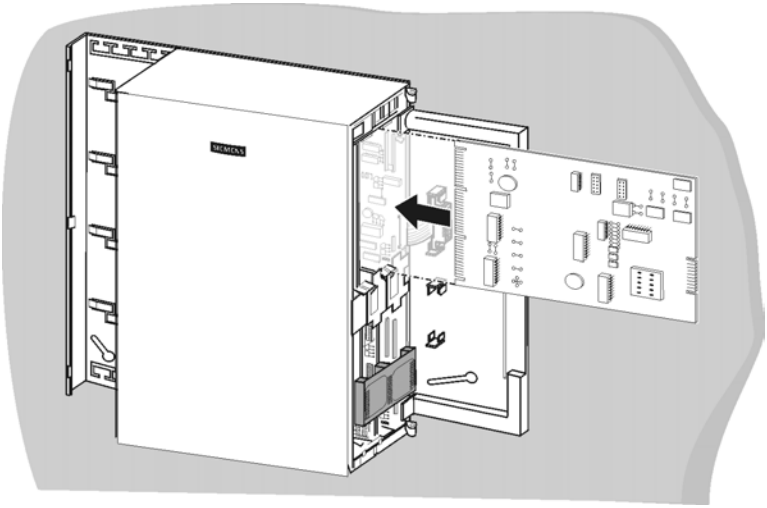
Slot 2 and 4 on HiPath 1150 only

Side view of the power supply

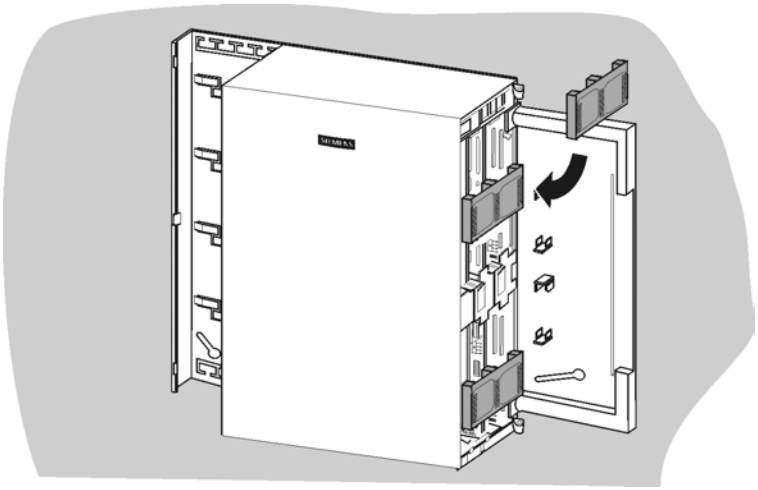
7 Installing Expansion Modules and Options



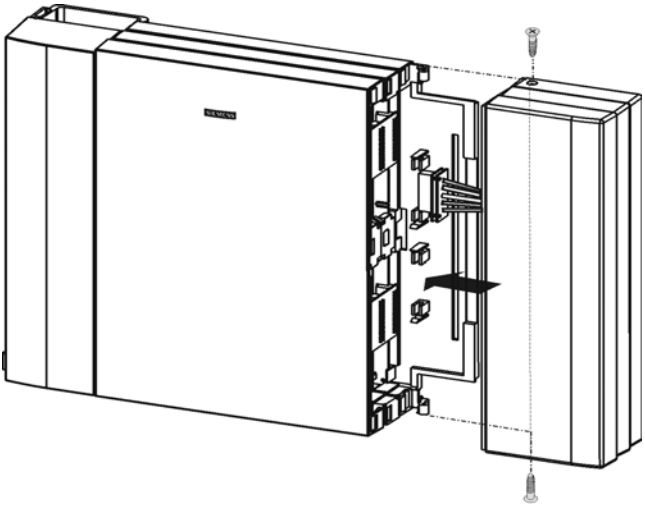
8



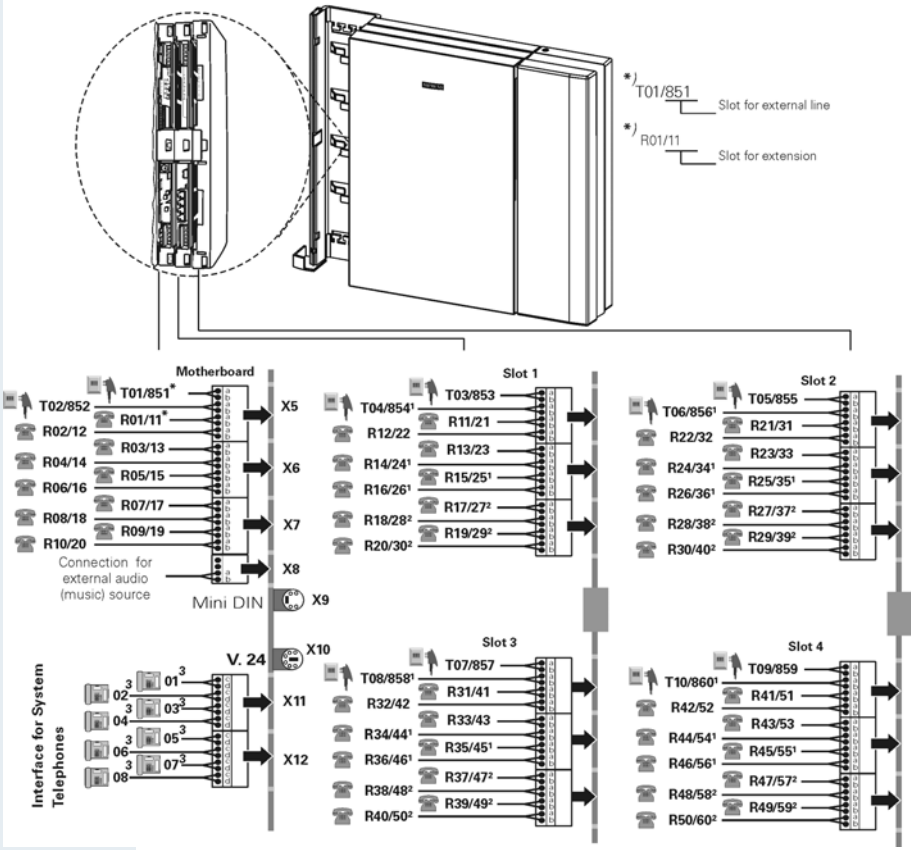
9



10 Power Supply

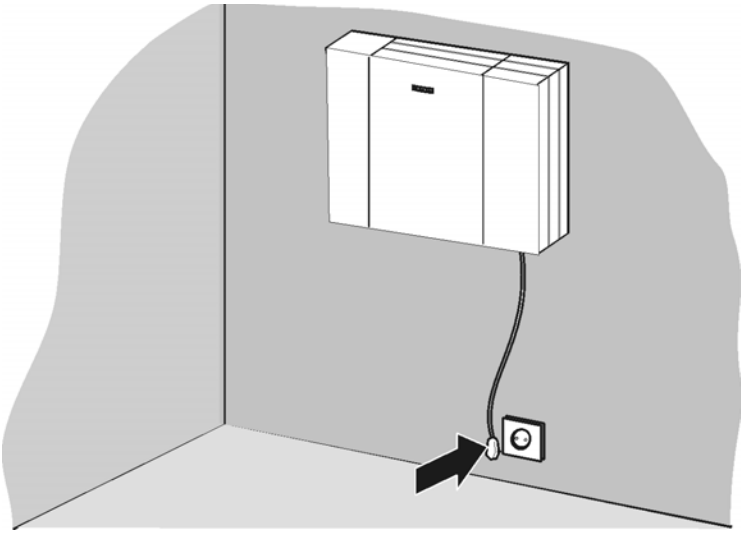


11 Example of a configuration



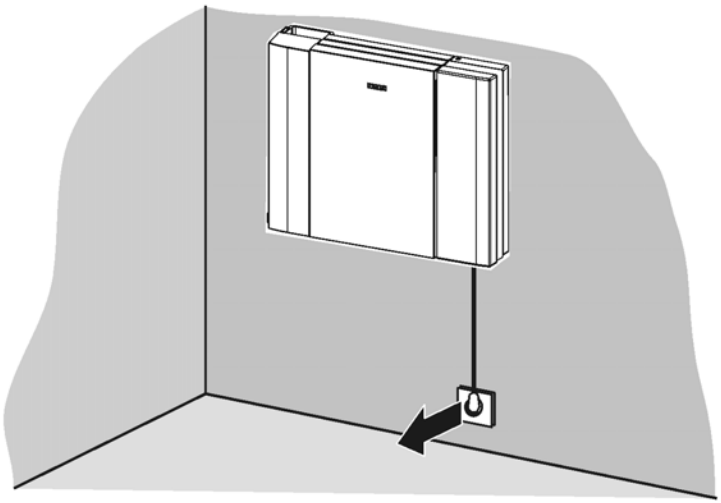
1) EB210/206 Modules only
2) EB210 Module only
3) For installing a system telephone you must use a CD pair and an A/B extension slot.

12

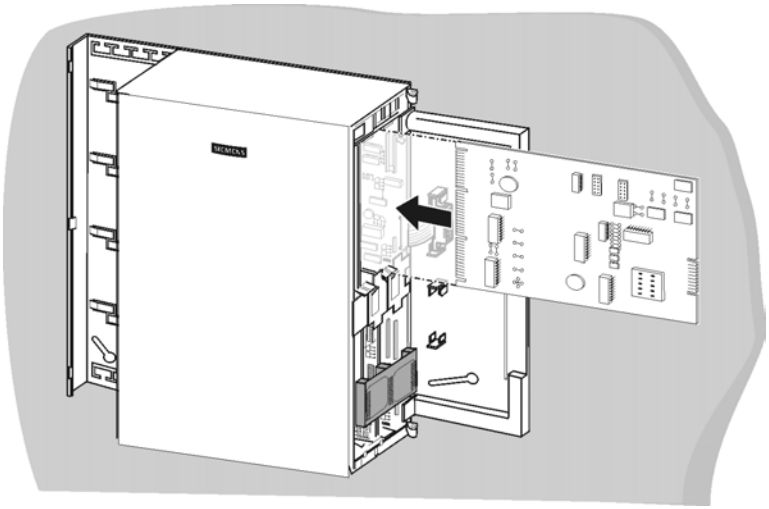


HiPath 1130 / 1150– Installing TME1, ADSL and S_0 modules

1

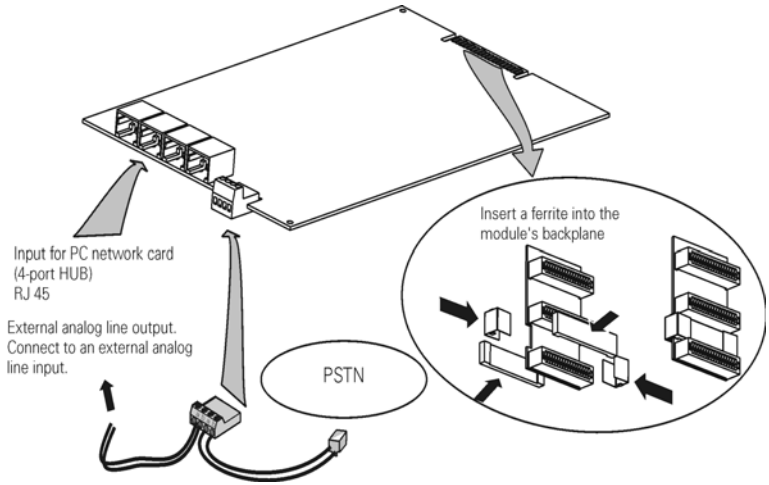


2



3 ADSL Module

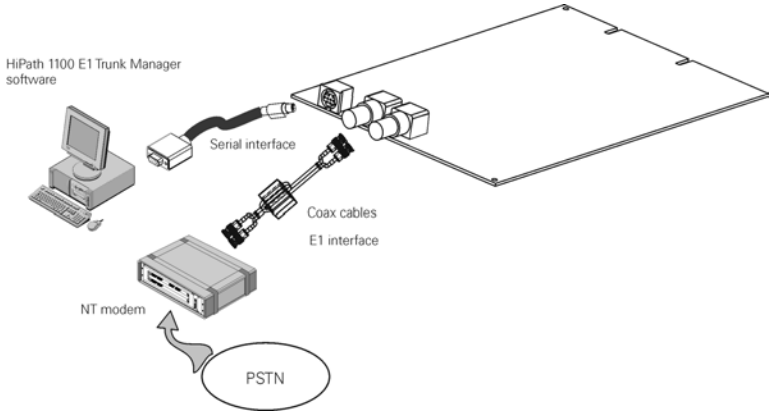
The ADSL module can only be installed in Slot 2 on the HiPath 1130 and in Slots 3 and 4 on the HiPath 1150 (→ page 163).



4 TME1 Module

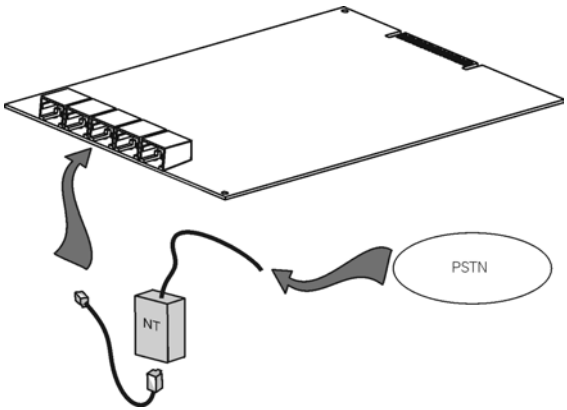
The TME1 module can only be installed in Slot 2 on the HiPath 1130 and in Slot 3 on the HiPath 1150 (→ page 163).

Warning: Do not touch the administration serial interface connector of the TME1 module before disconnecting all analog extensions and trunk connectors. Failure to follow this procedure may expose the user to dangerous voltages. The TME1 module interconnecting cables and connectors should only be handled by qualified technical personnel.



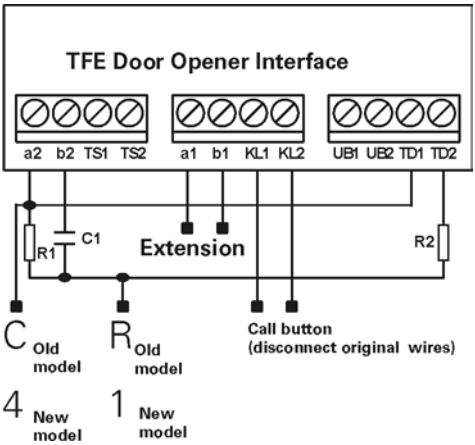
5 S_0 Module

The S_0 module can only be installed in Slot 2 on the HiPath 1130 and Slot 3 on the HiPath 1150 (→ page 163).



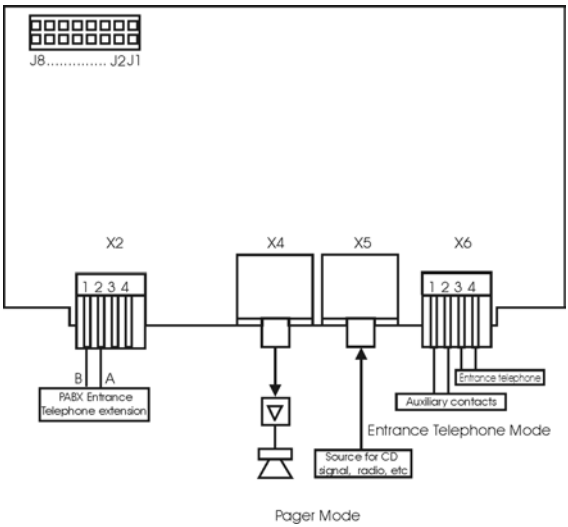
Entrance Telephone

1 Model S30817-Q930-A200



Additional components used include R1 resistance (1,2 k Ω/ 0,25W / 5%), R2 resistance (33Ω/ 0,25W / 5%), and a C1 capacitor (1,0µF / 250 VAC / non-polarized). The connection to the C.O. is made via two wires (A1 / B1) while the connection to the Entrance Telephone interface is made via four wires (A2 / B2, KL1, KL2).

2 Model S30817-Q936-C282



Pager Mode

2.1 Settings

- **J1**
  ON: Works as a pager
  OFF: Works as an Entrance Telephone.
- **J2**
  ON: Disables the timeout for paging.
  OFF: Enables a 15-second timeout for paging.
- **J3** to **J8**
  Not used

Aspects to Consider

- The wiring connecting the X2 connector to the PABX must have a maximum length of 32.8 feet (10 meters)
- For information on the length of wiring between the X6 connector and the Entrance Telephone (at the street) see the manufacturer's specifications. This interface supports HDL's brand Entrance Telephones (F5AZ, F8AZ and F9AZ).
- In Pager Mode the X4 connector is connected to an audio output, and the X5 connector to an audio input.
- For more details see the Service Manual.

HiPath 1120 – Technical Data

Size (Length x Depth x Height)	14.17" x 11.33" x 2.53" (360 x 288 x 64.4 mm)
Weight:	2.64 lb (1.2 kg)
Input Voltage: Maximum Current:	220V/60Hz 197mA
Input Voltage: Maximum Current:	127V/60Hz 331mA
Input Voltage: Maximum Current:	110V/60Hz 381mA

HiPath 1130 / 1150 – Technical Data

Size (Length x Depth x Height)	18.50" x 14.56" x 2.83" (470 x 370 x 72 mm (1150 = 3.93"/100 mm)
Weight HiPath 1130/1150:	8.04 lb/9.36 lb (3.65 kg/4.25 kg)
Maximum Current:	1.5 A
Input Voltage:	110 - 230 V, Full Scale, 50/60Hz

Summary of Programming Codes

Start the Programming Mode:  or  *** 9 5**  Password: 31994 + Code

Programmed Function	Code	Default Settings
Main Configurations→ page 17		
Dialing Mode on an External Analog Line→ page 17	19	2 (MF) for analog lines
Default Access to a Group of External Lines→ page 17	002	0 for all extensions
Analog Line Attendants→ page 18	42	None
Speed Dialing→ page 20	12	All slots are empty
Denied List→ page 21	23	Default Permission and Denied Lists→ page 24
Permission Lists→ page 22	24	
Permission for using the numbers in the Speed Dialing phonebook without a COS review.→ page 25	072	# (disabled)
Assigning a Class Of Service (COS)→ page 25	11	77 (for all extensions)
COS Changeover→ page 26	78	# (blocked)
Language→ page 27	64	3 (for all systems)
Country/Group of Countries→ page 27	65	01(Brazil)
Attendant Console (AC)→ page 30	50	None
Warning Tone for Calls without LCR→ page 31	092	# (disabled)
Programming an External Line→ page 31		
Groups of external lines→ page 31	56	0 (access to all lines)
Overflow for a Group of External Lines→ page 32	099	None
Configuring Priority by Type of External Line→ page 32	94	1 (standalone)
Protocol for Seizing an External Analog Line→ page 32	017	2 - Canada 1 - Other countries
Caller ID (CLIP) on an Analog Line→ page 33	005	Depending on the country
External Line Call Direction→ page 35	55	1 - bidirectional
Flash Duration→ page 35	18	Depending on the code "19" and "65"
Reseizure Time for an External Line→ page 36	29	1 (0.5 seconds)
Maximum time between rings for an incoming call→ page 36	17	13 - Argentina 06 - Other countries
Coefficient for an External Analog Line→ page 37	47	1 (for all lines)

Programmed Function	Code	Default Settings
Polarity Reversal→ page 37	58	# (disabled)
Dial Tone Detection→ page 38	60	* (enabled)
Operation as a Satellite PABX External Line Connection→ page 39	33	1 - For a public exchange
Operation as a Satellite PABX Second Code for External Access→ page 39	34	0
Auto-Seizure Mode for an External Line→ page 40	036	# (disabled)
False Tone→ page 40	063	# (disabled) - Argentina and India * (enabled) - Other countries
External Line Present→ page 42	079	* (enabled)
Waiting time for a second External Analog Line Attendant→ page 42	083	06 (30 seconds)
Programming an Extension→ page 43		
Pickup Groups→ page 43	43	None
Call Groups (CG)→ page 44	13	10 first extensions
Alert Ring Timeout for Pickup Groups→ page 43	035	* (disabled)
Activating Callback/Urgent Call with Timeout→ page 45	037	# (disabled)
Call Name/Number Display→ page 45	039	1 - Name and number
UCD Subscriber Groups→ page 46	023	None
Collect Call Barring for a UCD Subscriber Group→ page 47	007	# (disabled)
Call Waiting Message for UCD Queues→ page 47	024	External music source
UCD Queue Size→ page 48	025	99 slots
Timeout for Activating a Call Waiting Message for a UCD Queue.→ page 49	026	00 (0 seconds)
UCD Overflow Call Destination→ page 49	027	None
Round-robin Distribution of Calls to Agents→ page 50	028	* (enabled)
Time for Agent's Notes→ page 51	029	00 (0 seconds)
Ring Signal Timeout for Agents→ page 51	030	06 (30 seconds)
Time in a UCD Queue→ page 52	031	12 (1 minute)
Waiting Message before Signaling a UCD Call→ page 52	032	# (disabled)

Programmed Function	Code	Default Settings
Minimum Time for Call Waiting Message in a UCD Queue→ page 53	033	01 (5 seconds)
Hunt Groups (HG)→ page 53	021	None
Search Mode for Hunt Groups→ page 54	022	1 - Linear
Override→ page 55	44	0 - No permission
Silent Monitoring→ page 55	046	# (disabled)
Caller ID for Analog Extensions (CLIP)→ page 56	010	0 - No repetition
Electronic Lock Password Reset→ page 57	26	00000
Timeout for Call Forwarding - No Answer→ page 57	30	6 (30 seconds)
Dialing Mode→ page 58	68	0 - Automatic identification
Flash Detection Time→ page 58	31	1 (country-specific)
Overflow/Escape Extension→ page 60	32	1 - No Answer: none 2 and 3: the first extension on the system
Hotline→ page 61	45	None
Warmline→ page 62	62	0 seconds
Associated Group→ page 63	51	None
CD Port Assignment→ page 63 (for system telephones)	46	Hipath 1120/1130/1150: 1[a] - 11, 2[a] - 12, ... Hipath 1190: 1[a] - 101
Extension Coefficient→ page 64	48	1
Activating External Message Waiting Indicator→ page 66	014	# (disabled)
External MWI Group→ page 66	015	None
Waiting Message Server Number→ page 67	065	None
Internal Voice Mail Interface→ page 67	016	None
Collect Call Barring by Extension→ page 68	93	# (disabled)
Type of Equipment Connected to an Extension→ page 69	003	0 - Standard
Auto-Answering Mode→ page 69	034	# (disabled)
Call Charge Alert for Analog Extensions→ page 70	041	# (disabled)
Timer for Outgoing External Calls→ page 70	047	36 - (180 seconds)
Activating/Deactivating the timer for outgoing external calls→ page 71	048	# (disabled)
Second Attendant for MSN→ page 71	082	06 (30 seconds)

Programmed Function	Code	Default Settings
Modem Extension→ page 72	085	None
MSN and Extension Assignment→ page 72	086	None
External-to-External Transfer→ page 72	091	# (disabled)
DISA→ page 73		
DISA Permission→ page 75	018	# (disabled)
MSN DISA→ page 75	019	None
External Line DISA→ page 76	020	1 - Never
General Programming→ page 77		
Music on Hold→ page 77	36	3 - Internal
Assigning Extensions to MOH Groups→ page 78	087	None
Music source for a MOH Group→ page 78	088	0 - No music
Music Source Extension→ page 79	089	None
External Music Source - Extension Assignment→ page 79	064	None
Setting the Time for an external Room Monitor→ page 80	69	10 seconds
Types of Caller Lists→ page 80	049	2 - Internal and external
Deleting Digits from a Caller List→ page 81	71	None
Date/Time - Manual Setting→ page 81	14	DD.MM.YY HH:MM
Updating Date/Time over an ISDN Line→ page 82	038	* (enabled)
Call Charge Unit→ page 82	95	Slot 0, Factor 00001
Multiplier for Call Charge Factor→ page 83	042	001 - Value: 1
Extension Call Charge Factor→ page 83	043	1 - None
Call Charge Value by Extension→ page 84	97	Slot 0, Factor 00001
Call Cost Limit for an Extension→ page 84	044	# (disabled)
Date for Updating the Call Cost Limit for an Extension→ page 85	045	* (disabled)
SW Information→ page 85	001	
Local SW Update→ page 86	060	
Activating a Software Update→ page 86	055	# (disabled)
Day for SW Update→ page 86	054	Day 01
Time for SW Update→ page 86	058	00:00
External Number for Updating the Software→ page 87	056	None
Frequency for SW Update→ page 87	057	01 - Monthly

Programmed Function	Code	Default Settings
Uploading the SW update→ page 88	059	00:00
Setting a System Password→ page 88	80	31994
Night Service Password→ page 89	49	31994
Restoring Default Settings→ page 90	99	
HiPath 1120 Alarms→ page 90		None
Emergency Numbers→ page 91	040	190 and 193 (Brazil)
Module Detection→ page 91	061	00 - all slots
Service Call→ page 93	*994	
Remote Software Update→ page 93	*9415	
Remote Operation Mode→ page 93	084	1 - Via ISDN
Activating Remote Administration→ page 94	066	# (disabled)
Configuring an External Number→ page 94	067	None
Remote Administration Password→ page 94	068	None
Remote MSN→ page 95	069	None
Without MSN Verification→ page 95	070	# (disabled)
Remote Administration via DTMF→ page 95	57	* (enabled)
Ending Remote Administration→ page 97	96	
Type of MSN Signal→ page 97	073	Type 1
Assigning a Temporary MSN→ page 97	093	None
Entrance Telephone→ page 98		
Entrance Telephone Configuring an Entrance Telephone→ page 98	15	# (disabled)
Entrance Telephone Door Lock→ page 99	16	# (disabled)
Entrance Telephone DIDs for Entrance Telephones→ page 100	59	Extension 11/101
Entrance Telephone Permissions for a Door Opener→ page 101	25	All extensions
Call Detail Report Manager→ page 102		
Ticket Cost Code→ page 103	095	# (disabled)
Data Transfer Speed→ page 104	20	3 - 19200 baud
Digit Suppression in Call Detail Reports→ page 104	21	0
Call Detail Report for Incoming Calls→ page 105	61	1 - Outgoing/Incoming
Call Detail Report Filter→ page 105	67	None

Programmed Function	Code	Default Settings
Call Detail Report through Serial Interface→ page 106	006	# (disabled)
Fax/DID Module→ page 107		
Call Answering Menu→ page 108	009	None
Announcement Recording→ page 109	37	
Configuring the Call Answering Mode→ page 110	27	0 - For all external lines
Fax Reception Extension→ page 111	28	None
Collect Call Barring for Fax/DID→ page 113	008	# (disabled)
MSN Answering for Fax/DID→ page 114	080	0 - Module is deactivated
Fax Extension for MSN→ page 114	081	None
Fax/DID Release after Timeout→ page 115	094	06 (30 seconds)
Programming a Digital Trunk→ page 116		
S0 Ports→ page 117	062	1 - External line and extension
Mode of Operation→ page 118	90	1 - For the first PP port 3 - For all others: S_0 BUS
Symmetric Call→ page 119	074	* (enabled)
Absence of ACK Setup for external ISDN Line→ page 119	075	# (disabled)
Notify→ page 119	076	* (enabled)
Automatic Keypad→ page 120	077	# (disabled)
Assignment of an external ISDN line to a MSN→ page 120	078	All assigned
External Line Prefix→ page 122	89	None
External Number Registration→ page 122	91	None
Assigning an External Number to an Extension→ page 123	92	None
Busy Signal→ page 124	004	None
Local Area Code Filter→ page 125	011	None
Country Area Code Filter→ page 125	012	55 - Brazil
ADSL Module→ page 126		
Restoring the ADSL Module Default Settings→ page 127	013	IP 10.0.0.1
Relay and Sensor on the HiPath 1120→ page 127		
Programming the Sensor's Function→ page 127	70	0 - deactivated

Programmed Function	Code	Default Settings
Sensor Activation Logic→ page 128	74	0 - NC
Time between Attempts for Activating the Sensor→ page 128	050	03 (3 minutes)
MSN Assignment for the Sensor→ page 130	051	None
Number Dialed by Sensor Activation→ page 130	052	None
Number of Attempts for Activating the Sensor→ page 131	053	001 (1 attempt)
DTMF signals for the Relay→ page 131	77	None
Relay→ page 132	75	Switch
Timer for Deactivating the Relay→ page 133	73	002 (1 second)
External Ring for Activating the Relay→ page 133	071	None

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The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases.
The required features should therefore be specified in each individual case at the time of closing the contract.

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