HiPath 1100

HiPath 1120
HiPath 1150
HiPath 1190

Analog MF Telephones

Programming Manual

SIEMENS

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Introduction

The HiPath 1100 family consists of the following systems: HiPath 1120, 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 available.

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 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 Analog 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 purchase products and obtain technical support for your Communications System.
- 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
Keep containers with liquids, such as tea, coffee, soft drinks etc. away from the system and telephones to prevent spillage.

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.

For compliance with EU directives, do not discard any batteries, electrical or electronic equipment marked with this symbol in common household garbage. Discard this type of waste at a local recycling or waste disposal facility.

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.

Meaning of symbols:

Press the Flash/Fil key.

Lift the handset.

Replace the handset.

Initiate conversation.

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

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

<< >>

An extension is calling.

When activating certain functions and procedures, a long beeping tone means the activation was successful.

When activating certain functions and procedures, short beeping tones mean the activation failed.

System Support Technician

The Support Technician is the person responsible for programming your HiPath 1100. The Support Technician has all the necessary tools and information available in order to carry out his/her job.

Assistance with Troubleshooting

Contact your system's Support Technician. If the problem is not solved, the Support Technician should call Technical Support.

Introduction

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Features and Options

The HiPath 1100 family shares a basic configuration. However, systems can be reconfigured to augment capacity and fuctions by adding expansion modules and options to fit 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 each system's capacity.

- External lines:
  - S_0 basic access (ISDN)
  - E1 CAS primary access
  - S2 primary acess
  - ADSL access
  - Analog line
- Internal extensions:
  - System telephones:
    optiPoint-type ($U_{P0/E}$ interface):
    optiPoint 500 economy; optiPoint 500 basic, optiPoint 500 standard, optiPoint 500 advance and optiPoint 500 entry
    KS-type (CD interface):
    Profiset 3030, E 822 ST e E 821 ST
  - Analog telephones (pulse or tone)
  - Answering machine
  - Fax/Modem
  - Entrance Telephone/Door Opener
- Interfaces:
  - optiPoint analogue adapter, optiPoint ISDN adapter, optiPoint phone adapter and optiPoint accoustic adapter
  - USB and V.24 adapter for system integration with applications such as CTI, HiPath 1100 Manager, billing, etc.
- Sensor and Relay (HiPath 1120 only)
- Expansion Modules
  - EB 202: 2 external analog lines and 2 analog extensions
  - EB 204: 2 external analog lines and 4 analog extensions (HiPath 1120 only)
  - 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
  - $UP_{0/E}$ Module:
  - Provides 2, 4 or 8 $U_{P0/E}$ interfaces for connecting optiPoint-type system telephones, for a maximum of 8 optiPoint Masters and 8 optiPoint Slaves.
    Note: When there are more than four optiPoint 500 telephones (master or slave) in the HiPath 1120 system, an additional power supply must be used. (See Service Manual - A31003-K1160-S100-*-**20 - Chapter 3 (Module List))
  - S_0 Module:
    Provides access to ISDN networks through basic S_0 digital access and allows for the use of network resources→ página 137.

  - TME1 Module:
    Provides digital line connection with E1 CAS or S2→ página 147 access.
  - CD 16 Module (HiPath 1190):
    This module is used for connecting up to 16 KS-type system telephones.
- Option Modules
  - EVM Module:
    Provides Voice Mailbox features → página 155.
  - ADSL Module:
    Provides ADSL (Asymmetric Digital Subscriber Line) access connection and LAN set-up for shared Internet access for PCs → página 154.
  - 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 → página 94.
    This module also features a relay and a sensor for supporting additional devices such as Entrance Telephones, Door Openers, alarms, etc. → página 165.
  - TFE Entrance Telephone Interface:
    Provides connection for an Entrance Telephone on an extension slot or as a pager interface → página 119.
- Softwares Options:
  - 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...).
  - CallReprt is a billing system that allows you to record information about calls originated or received by your PABX system.

If there is an $UP_{0/E}$ module connected to the HiPath 1190, the CD 16 module will not be enabled. The HiPath 1120 CD interfaces will be disabled.

Modules and Their Capabilities

Standard Configuration:	**HiPath 1120**	**HiPath 1150**	**HiPath 1190**
External Analog Lines	2		0
Analog Extensions	8	10	
System Telephone Interface (KS)[1]	4	8	8
Expansion Modules[2]:			
EB 010	0	4	14
EB 012	0	3	11
EB 202	0	4	16
EB 204	2	0	
EB 206	0	4	16
EB 210	0	4	11
EB 200	2	4	16
EB 400	0	3	10
EB 800	0	1	5
$S_{0\ Module}$	1		2
TME1 Module	0	1	2
$UP_{0/E}$ Module (optiPoint):	1	1 or 2	
CD Module 16 (KS)	0		1
Option Modules:			
ADSL Module	1		
EVM Module	1		
Music Module	1	On Board	
TFE Entrance Telephone Interface	4		
Total System Capacity:[3]:			
Extension (analog + digital)	23	89	143
System Telephones (KS + optiPoint)	4 KS or 8 optiPoint (4 Masters + 4 Slaves)	8 KS + 16 optiPoint (8 Master + 8 Slave)	8 KS + 16 optiPoint (8 Master + 8 Slave) or 24 KS (CD 16 Module)
Digital line with TME1 / S_0	0/2	30/10	45/20

External Analog Lines	6	16	40
Digital line (TME1)+ analog line / digital line (S_0)+ analog line	0/8	32/16	45/44

[1] Each system telephone (KS) that is connected occupies one analog telephone slot.

[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 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.

Example 1: HiPath 1150

- Slot 0, MB 210,
- Slot 1, EB 210,
- Slot 3 TME1 - 30 digital lines

EB 210 external line will not work, but extensions will. Since the system allows for a maximum number of 32 lines we cannot have any additional analog line.

Example 2: HiPath 1150

- Slot 0, MB 210
- Slot 3 TME1 = 30 digital lines

In this case, there are 32 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.

30 CAS digital lines + 2 MB external analog lines = 32 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 digital lines

WARNING: Deactivate digital line for the TME1 Module and program unused digital lines on the switch as unavailable.

Overall, there are 12 external lines on the system. This means there are 4 additional external lines available before reaching the maximum capacity of 16 external lines for this combination.

An additional EB 400 could be used in Slot 1 or Slot 2.

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.

Considerations related to digital line on the HiPath 1150/1190

HiPath 1150

Maximum number of external lines allowed is 16 (S0 digital lines + external analog lines)

Configuration	External analog line	S0 Module digital line	Total
MB + 1 EB 800	10	0	10
MB + 1 EB 800 + 1 EB 400 + 1 EB 200	16	0	16
MB + 1 S0-2	2	4	6
MB + 1 S0-2 + 1 EB 800 + 1 EB 200	12	4	16
MB + 1 S0-5	2	10	12
MB + 1 S0-5 + 1 EB 400	6	10	16

Capacity can be increased up to 32 external lines using a TME1 Module (30 digital lines + 2 analog lines). In this case, a S0 Module cannot be used. If 15 (or more) TME1 Module channels are used then only 2 MB external analog lines can be sued (e.g., 20 TME1 Module digital lines + 2 MB external analog lines).

Configuration	External analog line	Digital line (maximum depending on the number of analog lines)	Total
MB + 1 TME1	2	30	32
MB + 1 TME1 + 1 EB 200	4	13	17
MB + 1 TME1 + 1 EB 400	6	11	17
MB + 1 TME1 + 1 EB 800	10	7	17
MB + 1 TME1 + 1 EB 800 + 1 EB 200	12	5	17
MB + 1 TME1 + 1 EB 800 + 1 EB 400	14	3	17

HiPath 1190

Maximum number of external lines allowed is 45 (digital lines and/or external analog lines). Maximum number of external analog lines is 32.

For example, the following configurations are available.

Configuration 1: 32 analog lines + 13 digital lines

Configuration 2: 8 analog lines + 37 digital lines

Configuration 3: 0 analog lines + 45 digital lines

Configuration	External analog line	Digital line (maximum depending on the number of analog lines)	Total
1 TME1	0	30	30
2 TME1	0	45	45
1 TME1 + 1 EB 200	2	30	32
2 TME1 + 1 EB 200	2	43	45
1 TME1 + 1 EB 400	4	30	34
2 TME1 + 1 EB 400	4	41	45
1 TME1 + 1 EB 800	8	30	38
2 TME1 + 1 EB 800	8	37	45
1 TME1 + 1 EB 800 + 1 EB 200	10	30	40
2 TME1 + 1 EB 800 + 1 EB 200	10	35	45
1 TME1 + 1 EB 800 + 1 EB 400	12	30	42
2 TME1 + 1 EB 800 + 1 EB 400	12	33	45
1 TME1 + 2 EB 800	16	29	45
2 TME1 + 2 EB 800	16	29	45
1 TME1 + 2 EB 800 + 1 EB 200	18	27	45
2 TME1 + 2 EB 800 + 1 EB 200	18	27	45
1 TME1 + 2 EB 800 + 1 EB 400	20	25	45
2 TME1 + 2 EB 800 + 1 EB 400	20	25	45
1 TME1 + 3 EB 800	24	21	45
2 TME1 + 3 EB 800	24	21	45
1 TME1 + 3 EB 800 + 1 EB 200	26	19	45
2 TME1 + 3 EB 800 + 1 EB 200	26	19	45
1 TME1 + 3 EB 800 + 1 EB 400	28	17	45
2 TME1 + 3 EB 800 + 1 EB 400	28	17	45
1 TME1 + 4 EB 800	32	13	45
2 TME1 + 4 EB 800	32	13	45
1 TME1 + 5 EB 800	40	5	45
2 TME1 + 5 EB 800	40	5	45
1 TME1 + 10 EB 400	40	5	45
2 TME1 + 10 EB 400	40	5	45

Step by Step

Programming Mode

You can change the default settings of the HiPath 1100 to fit your needs. A MF-type or System Telephone can be used for this purpose, or a PC with the HiPath 1100 Manager administration software installed (→ page 173).

The instructions that follow refer to the factory default settings.

Numbering Plan

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

- **For HiPath 1120:**

1. Motherboard
2. S_0 Module
3. Analog modules/$UP_{0/E}$ Module

- **For HiPath 1150:**

1. TME1 Module
2. Motherboard
3. S_0 Module
4. Analog modules/$UP_{0/E}$ Module

- **For HiPath 1190:**

1. TME1 Module
2. Analog modules/$UP_{0/E}$ Module
3. S_0 Module

Description	HiPath 1120	HiPath 1150	HiPath 1190
External Line	801 to 808	801 to 832	801 to 845
Extension, including S_0	11 to 30	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		
Carrier	9		
EVM - Default internal number	790		
EVM - Message Ports	7491 and 7492		
EVM - Virtual Ports	744 to 747		

Step by Step

Description	HiPath 1120	HiPath 1150	HiPath 1190
Fax/DID - Virtual Message Ports	740 to 743		
USB/CAPI line	10		100
Substitution for * and #	75 and 76 (accordingly)		

Activating System Programming

Lift the handset at the programmer's extension slot.

System programming can only be executed using the system's **first extension slot** (default extension 11) with an analog extension (MF), a **KS-type** system telephone or an **optiPoint** system telephone. Programming cannot be done simultaneously on two extensions.

*** 9 5**

Enter the code for activating system programming.

Enter the system password (default is 31994 - Changing system password → page 107).

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

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.

Step by Step

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.

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:

Language

Select the desired language for displaying messages on the system telephones. This field is not going to be used automatically due to the selection specified in the Country field. When Language setting is changed, Country settings are not changed. It is possible, therefore, to select a country with a different default language. Example: Country: Brazil, Language: English.

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

1 6 4

Enter the code for programming.

Step by Step

Select the language for displaying messages.

- **0** = Custom
- **1** = Portuguese
- **2** = Spanish
- **3** = English (default)
- **4** = French
- **5** = Italian
- **6** = Turkish

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).

1 6 5 Enter the code for programming.

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.

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

Step by Step

Code	Group	Countries	Display Language
08	Spanish (IM)	Columbia 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
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

Step by Step

Code	Group	Countries	Display Language
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
34	Korea	Korea	English

[1] For Bolivia and Paraguay, set "01=Brazil" for country/country group 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

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 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 specifies dialing "0" as the dialing method 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).

⠿ ♩ 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.

Step by Step

Example:

801 and 802 external lines 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. For code 002, when extension 11/101 is assigned to group 0 and the external access code "0" is dialed, the search for an available line is done on group "0."

If no available line is found and the group is programmed with code 099 "Overflow for a Group of External Lines" on page 41, the system will search for a line in a different specified group.

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 52. When this occurs, extensions configured as Second Attendants for external lines receive the call simultaneously with the First Attendants.

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

1 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:

- 1 = Day Service
- 2 = Night Service
- 3 = Second Attendant - Day
- 4 = Second Attendant - Night

Step by Step

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).

1 4 2 ♩ Enter the code for programming.

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

Select the period of the day for answering calls:

- 1 = Day Service
- 2 = Night Service
- 3 = Second Attendant - Day
- 4 = Second Attendant - Night

* ♩ 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 15 digits each in the System Speed Dial. You can assign a name of up to 15 characters to each number. This allows you to do alphanumeric searches in the Speed Dialing Phonebook (see Alphanumeric Search in the Manual do Usuário).

To insert an interdigit pause you must enter the "P" character using the HiPath 1100 Manager or pressing the Redial Key using a system telephone (see → page 97).

You can look for phone numbers in the Speed Dial Phonebook by entering their assigned speed-dial number. This can be done from any extension as long as it is unblocked by entering the Code 072 (see → page 33). By default there are no speed-dial numbers stored in the phonebook.

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

1 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
→ page 34). 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 (if unblocked by entering Code 072), 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 30).
- Restricted Trunk Access (with Denied List):
  You can make external calls but not to numbers on Denied Lists 1, 2 or 3 (→ page 28).
- 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 directory can be accessed by dialing the assigned speed-dial numbers.

The Denied List may contain some combinations already recorded, depending on the country (→ page 31). These can be deleted if needed.

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

1 2 3 ♪ Enter the code for programming.

Step by Step

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 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 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).

1 **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.

Step by Step

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

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).

1 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).

1 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	Denied List		Denied List
Brazil	190 0800	193 0810	0900 900
Argentina			
Portugal	112		64
Chile	800		
Venezuela			
Mexico			
Vietnam			
Spanish (IM)	190		
English (IM)			
French (IM)			
China			
Malaysia			
Singapore	999 995	1800 1608	#571#
Thailand	01 2 3 4 5 6 7 8 9	11 12 13 14 15 16 17 18 19	001 100 101
Greece	100 166	199 0800	090
India			
Pakistan			

Step by Step

Country	Denied List		Denied List
Spain	091 112	1003 900	903 905 906
Russia	01 02 03 04		05 07 09 00
Ukraine			
Peru			
Philippines			
Canada			
South Africa			
Latvia	01 03 112	02 04	0900
Lithuania	01 03	02 112	0900
Italy	112 115	113 118	0900
Australia	000		0900
England	000		0900
Turkey			0900

Step by Step

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.

Step by Step

Assigning a Class Of Service (COS)

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

1 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.

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 slots)

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

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

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

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

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

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. The default for all extensions is "77."

Step by Step

Special Class of Service for a Blocked Extension

This allows you to switch a blocked extension (with an electronic lock) to any class of service.

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

0 9 6 ♩ Enter the code for programming.

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

♩ Enter the Class of Service for the extension with the activated lock:

- **0** = No Trunk Access (default setting for all extensions)
- **1** = Outward-Restricted Trunk Access with Denied List 1 (4 slots)
- **2** = Outward-Restricted Trunk Access with Denied List 2(10 slots)
- **3** = Outward-Restricted Trunk Access with Denied List 3 (35 slots)
- **4** = Outward-Restricted Trunk Access with Permission List 1 (4 slots)
- **5** = Outward-Restricted Trunk Access with Permission List 2 (10 slots)
- **6** = Outward-Restricted Trunk Access with Permission List 3 (25 slots)
- **7** = Unrestricted Trunk Access (default for all lines)

♩ Press this key.
Initial state for Programming Mode.

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

The system administrator is responsible for maintaining the balance of the Classes of Service used by an extension that is blocked or free. This prevents an extension with a restricted service from having free access when the lock is not activated and then keep an unrestricted category when the lock is activated.

Step by Step

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).

1 7 8 ♩ Enter the code for programming.

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

* or # ♩ To allow/deny COS Changeover:

* = To allow

= To deny (default)

⠿ ♩ Enter the next extension number

or

♩ Press this key.
Initial state for Programming Mode.

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).

1 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.

Step by Step

Deleting an Attendant Console

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

1 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 the 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.

Carrier selection mode: LCR or ACS

This allows the user to change carrier selection and use the best possible option to originate external calls.

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

2 2 5 ♪ Enter the code for programming.

* or # ♪ ACS/LCR:

* = ACS

= LCR (default)

♪ Initial state for Programming Mode.

When the system is configured for a specified carrier dialing mode and is then reconfigured to use a different dialing mode (for example, ACS >>LCR) all previous settings are lost.

Step by Step

Warning Tone for Calls without LCR

When the system is configured to use LCR, the HiPath 1100 can alert the user when an external call is being places to a destination using a non-default carrier with higher rates for that time of day. 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.

This features only works with ISDN lines.

Example for LCR settings on a local network

This example shows a creation sequence and destination distribution:

- Mobile and
- Long Distance

"Telemobile" Option

1. To create and assing a name to a destination, for example, "Telemobile".
2. Enter the Carrier(s) and the appropriate area codes to be used for mobile calls.
3. For Destination enter all area codes or partial are codes to cover all numbers for the mobile carrier range.
4. Enter the time intervals in the Time Interval Table. For "empty" time intervals, the trunk from the default carrier is seized directly and no CbC carrier is used.

Step by Step

Option "Long Distance"

1. To create and assing a name to a destination, for example, "National."
2. Add the CbC carrier(s) to the existing list for long distance calls.
3. For Destination enter all area codes or partial are codes to cover all numbers within the country.
4. Enter the time intervals in the Time Interval Table. For "empty" time intervals, the trunk from the default carrier is seized directly and no CbC carrier is used.

Currently, you can specify up to 30 destinations.

Settings must be configured on the HiPath 1100 Manager.

ACS (Alternative Carrier Selection)

If the system is configured for ACS (Alternative Carrier Selection), the route/destination for the call can also be defined, regardless of what the user may choose. This feature allows you to choose the carrier that offers the best rates at the specified calling time or to select a default carrier for all calls, assuming that the rules regarding carrier selection are properly defined.

The first digits of the number dialed by the user are analyzed by the system. If they match the Conversion Rule, they will be replaced with the default number specified by that rule. The route/destination can also be preset. There is no field available to specify a carrier. The carrier code must be included in the conversion rule.

Different conversion rules can be applied to the same number, depending on the time of day and day of the week. It is possible to define a maximum of 100 conversion rules.

A dialing rule may change if it is configured for using the Overflow option.

Example: Number dialed: 262 XXXX

Step by Step

Conversion Rules:

Table of Contents	Destination Selected	Destination alternate	Alternate group of external lines	Overflow group of external lines
01	267	342	0	890
02	262	341	890	891

A user can use any line or group of external lines to dial the number 262XXXX, but the system will dial the number 341XXXX using the group of external lines 890. If the lines in that group are busy, the overflow option will use the group of external lines 891. Conversion Rules may include interdigit pauses (refer to the Help file in HiPath 1100 Manager).

Conversion rules programming is accomplished using HiPath 1100 Manager.

ACS does not affect Emergency Numbers when the user dials directly.

Step by Step

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).

1 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.

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 depends 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.

 ♪ Select an option:

1 = A specified group of external lines (the first group is the default setting):
Enter a number to specify the Overflow Group to be used:
0 or **8 9 0** to **8 9 9**

2 = All external line groups

3 = None

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Example:
801 and 802 external lines 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 available line is found in Group 890 and this option is configured, the system will search for a line in the Overflow Group.

Internet access (*493) does not work for an overflow group.

Only one level of overflow works.

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).

1 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 = Digital lines are enabled as first option.
- 3 = External analog lines are enabled as first option.

♪ Initial state for Programming Mode.

Step by Step

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.

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 ""Type of Answering Signal"" feature for these external lines must be disabled.

Caller ID for Analog Lines

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

2 = DTMF2 (off hook)

3 = FSK

Step by Step

Enter the next external line number.

or

Press this key.
Initial state for Programming Mode.

When a Country setting is specified ("Country/ Group of Countries" on page 21), the appropriate protocol is automatically selected.

Country	Protocol	Code
Brazil, China, India, Peru, IM-Spain and IM-English	DTMF1	1
Russia	DTMF2 (off hook)	2
Other countries	FSK	3

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).

1 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.

Step by Step

Flash Duration on an Analog Line

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 21) or the type of external line connection (→ page 49) is changed, the Flash Duration will automatically reset to the default value.

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

1 1 8 ♪ Enter the code for programming.

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

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 next number for the external analog line.

or

♪ Press this key.
Initial state for Programming Mode.

When a line is programmed directly on the system, default Flash duration is 240ms. When a line is programmed from a different system, default Flash duration is 100ms.

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).

1 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.

Step by Step

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 1 7 ♩ Enter the code for programming.

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

♩ Initial state for Programming Mode.

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).

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

1 = 900 Ω Standard Line (default)

2 = 600 Ω Line

3 = Short Line

4 = Long Line

♩ Enter the next external line number.

or

♩ Press this key.
Initial state for Programming Mode.

Step by Step

Type of Answering Signal

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

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

1 5 8 ♪ Enter the code for programming.

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

0 ... 2 ♪ Enter the number for the type of answering signal:

- 0 = None (Default)
- 1 = Polarity Reversal
- 2 = DTMF

⠿ ♪ Enter the next number for the external analog line.

or

♪ Press this key.
Initial state for Programming Mode.

When DTMF is selected, you must program a tone (A, B, C or D) using Manager. If a tone is not programmed using the Manager, the switch defaults to tone A.

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

When this feature is activated, outgoing external calls cannot make consultations or transfer calls before the destination answers.

Step by Step

Dial Tone Detection

When activated, this feature checks to see if there is a dial tone. If activated for an external analog line, the selected number is stored. The number is sent to an external line once the extension making the call receives an external line dial tone from its local carrier. If the line does not provide a dialing tone (line not installed), it is automatically blocked by the system. 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).

1 6 0 ♩ Enter the code for programming.

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

* ou # ♩ 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 configured as a Satellite PBX, a false dial tone is not generated. However, when LCR (code 225) or Emergency Number (code 040) are present and configured, a False Dial Tone is 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).

1 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.

When a line is configured to be connected to a Local Carrier, its default Flash duration is 240 ms. When it is configured as as Satellite PABX, the default time is 100 ms.

Step by Step

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 an dial tone for an external line following the second access code, 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).

1 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

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

If no value is entered, Dial Tone Detection following a line seizure will not be activated.

False tone

This send an external line dial tone even when there is no external line available. This feature works only on MF extensions.

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.

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

Step by Step

Internal Access Code for Automatic Seizure

This features specifies the code to be used for making internal calls when an extension is configured for Automatic Seizure of an External Line.

Access codes are configured according to the country. If no access code is specified, the feature will not work.

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

2 2 6 ♪ Enter the code for programming.

⠿ ♪ Enter an access code consisting of a maximum of 5 digits.

♪ Initial state for Programming Mode.

Default Access Code Table by Country

Country	Code
Spain Latvia Lithuania Australia Greece	99
Italy	69
Portugal	6
Other	None

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

Step by Step

♩ 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/S2) you must also program a TME2 Module1 using the E1 Trunk Manager (E1 CAS) and the S2M Maintenance (S2) application.

Timeout for a Second Attendant to answer a call on an external analog line

This consists of a time period (in seconds) during which an incoming call rings at the First Attendant of an external line. If the call is not answered within the specified amount of time, it will be routed to the Second Attendant (→ page 25).

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 1 ... 2 0 Enter the activation timeout (01 to 20 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 Pick-up 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).

1 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).

1 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.

Step by Step

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.

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, all telephones in the group ring simultaneously 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 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.

Step by Step

Deleting Extensions from a Call Group (CG)

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

1 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.

An extension may be configured for more than one Call Group (CG).

Call Forwarding within a Call Group (CG)

This feature works only on digital lines. It provides Call Forwarding for extensions belonging to Call Groups. When a call is routed to a Call Group, it rings at all extensions at the same time. The extension configured for Call Forwarding will ring at its destination. If the call is answered, the other extensions in the group stop ringing. Otherwise, the call rings again until one of them answers it.

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

2 2 2 ♪ Enter the code for programming.

* or # ♪ Activate/Deactivate Call Forwarding:

* = To activate

= To deactivate (default)

♪ Press this key.
Initial state for Programming Mode.

When the ""Call Deflection" on page 144" feature (Code 228) is activated, external Call Forwarding to an extension that is a member of a group cannot be used (it does not work on analog lines). In this case the system does not receive any information about the forwarded call having been answered or not. Since the system does not have this information, it continues to signal all other group members.

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. 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 software "Interaction Center Smart".

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 this blocking is activated, the system automatically rejects all incoming collect calls to a UCD Group over a digital line. Calls received over an analog line are rejected only at the moment they are answered. 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.

Step by Step

Message Waiting for UCD queue

This feature lets you assign a message or Music On Hold for a UCD Group extension when all extensions in the group are busy or unavailable.

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

0 2 4 ♩ Enter the code for programming.

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

⠿ ♩ 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.

It allows you to specify a timeout for routing calls to a waiting queue in the event that agents are busy or unavailable.

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).

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

Step by Step

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 before it overflows.

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

Agent Status After Signaling Timeout.

Allows you to identify agent's status at the end of the signaling timeout.

By default, once the signaling timeout expires the call is transferred to a different group member and the agent becomes unavailable (see User Manual - Available/Unavailable Agent for a UCD Group).

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

1 7 6 ♩ Enter the code for programming.

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

* or # ♩ Select a status to be displayed for the agent after signaling timeout expires:

* = Available

= Unavailable (default)

♩ Enter the next UCD Subscriber Group number.

or

♩ Press this key.
Initial state for Programming Mode.

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), 99 = 8 minutes and 15 seconds.

♩ Enter the next UCD Subscriber Group number.

or

♩ Press this key.
Initial state for Programming Mode.

Step by Step

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.

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.

This feature works only when Time in a UCD Queue is enabled (code 031).

Step by Step

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.

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.

This feature works only on digital lines.

Step by Step

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.

Call Forwarding within a Hunt Group (HG)

This feature works only on digital lines. It provides Call Forwarding for extensions belonging to Hunt Groups. When a call is directed to a group, it ring at each extension, according to the group settings (linear or round-robin) When an extension is set for Call Forwarding, calls are routed to the destination as configured. If a call is not answered, the other extensions in that group do not ring. When no Call Forwarding is set, calls ring at the other extensions, as configured for the Hunt Group.

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

2 2 3 ♩ Enter the code for programming.

* or # ♩ Activate/Deactivate Call Forwarding:

* = To activate

= To deactivate (default)

♩ Initial state for Programming Mode.

Step by Step

When the ""Call Deflection" on page 144" feature (Code 228) is activated, external Call Forwarding to an extension that is a member of a group should not be used. (does not work with analog lines)
In this case the system does not receive any information about the forwarded call having been answered or not. Since the system does not have this information, it continues to signal all other group members.

Recall/Urgent Call Activation after Timeout

When an extension or external number (on an ISDN digital line) is busy, this configuration allows you to set a timeout for activating the Recall 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 Recall and deactivate Urgent Call
- **#** = To deactivate Recall and activate Urgent Call (default)

♩ Initial state for Programming Mode.

Caller ID by Name/Number

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

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.

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

1 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 extension without sending a warning signal to the parties having a conversation (for certain countries only).

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

0 4 6 ♪ Enter the code for programming.

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

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

* = To activate

= To deactivate (default)

Step by Step

Enter the next extension number.

or

Press this key.
Initial state for Programming Mode.

On Profiset 3030 telephones the MUTE option is automatically activated with Silent Monitoring.

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 change status, Silent Monitoring will be 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).

Select the type of configuration:

0 = No Caller ID (default)

1 = DTMF prior to ringing

2 = DTMF during ringing

3 = FSK prior to ringing

4 = FSK during ringing

Step by Step

5 = FSK prior to ringing or during a conversation

6 = FSK during ringing or a conversation

Enter the next analog extension number.

or

Press this key.
Initial state for Programming Mode.

Hide Group Prefix

This settings allows an extension to receive an external call over an external line belonging to a group of external lines, and to hide the group number so it does not show on the display. When a special access call is received and transferred to an extension with this feature is enabled, the external line number does not show on the display.

Example: An analog extension receives an external call over an external line that belongs to Group 890 - number 24987049. When this feature is enabled, the display show only 24987049. When this feature is disabled, the display shows 89024987049, that is, the number for the group of external lines followed by the external number.

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

1 8 8 Enter the code for programming.

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

***** **or** **#** To activate/deactivate permission for Conditional Call Forwarding:

***** = To activate

= To deactivate (default)

Enter the next analog extension number

or

Press this key.
Initial state for Programming Mode.

To enable this feature, analog extensions must be configured for CLIP.

Step by Step

Electronic Lock Password

This option allows you to set a 5-digit password to protect an extension against unauthorized use. When this option is selected, only internal calls or Speed Dial calls can be made from the extension. 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).

1 2 6 ♩ Enter the code for programming.

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

 ♩ Enter a 5-digit password to set an electronic lock for the extension (default is 00000)

or

* Delete the electronic lock password (it defaults to 00000)

or

♩ Initial state for Programming Mode.

 A blocked extension can only make internal calls using the System Speed Dialing phonebook (abbreviated numbers) if its Class of Service is not changed (see "Special Class of Service for a Blocked Extension").

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).

1 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.

Step by Step

Call Forwarding condicional limitado por Extensions

This configuration is available through a CTI interface

Incoming calls can be forwarded to a specified destination list, as configured in a TAPI-type application such as a Windows TAPI Browser. Previous list or Unconditional Call Forwarding settings will be overwritten by the new list settings.

The following information is needed for configuring a list:

- Incoming Caller ID
- Day of the week and time
- Type of call (internal or external)

When more than one number have been specified for incoming calls to an extension, the call forwarding priority will be:

1. Checks to see if the Caller ID for the incoming call matches the number programmed for the extension
2. Checks to ensure that the Type of Call (internal or external) has been configured
3. Checks the time settings..

Required: Programming Mode must be active (*95 31994). The extension has permission for a conditional Call Forwarding.

0 9 7 ♪ Enter the code for programming.

0 1 ... 5 0 Enter the number of digits that can be programmed for extensions with permission (default is 5).

♪ Initial state for Programming Mode.

Conditional Call Forwarding has priority over an unconditional Call Forwarding.
Conditional Call Forwarding cannot be used on a S_0 extension.

Step by Step

Operation: The extension has permission for conditional Call Forwarding and the system is connected to a PC that has a TAPI application installed.

1. Rules and conditions for Call Forwarding can be configured for each extension by using a Windows TAPI application
2. Apply the settings to the extension desired.
3. From this moment on the extension will be forwarded.

Permission for Conditional Call Forwarding

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

0 9 8 ♩ Enter the code for programming.

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

* or # ♩ To activate/deactivate permission for Conditional Call Forwarding:

* = To activate

= To deactivate (default)

Initial state for Programming Mode.

Step by Step

Call Forwarding - Busy after Call Forwarding No Answer:

This option allows an incoming call to an extension configured for Call Forwarding - No Answer (see Call forwarding - No Answer in the Manual do Usuário) to be routed to the same destination configured for Call Forwarding - Busy.

Required: Programming Mode must be enabled (*95 31994) and Call Forwarding - No Answer must be enabled as well.

1 8 5 ♪ Enter the code for programming.

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

* or # ♪ To activate or deactivate permission for Call Forwarding - Busy:

* = To activate

= To deactivate (default)

⠿ ♪ Enter the next extension number

or

♪ Press this key.

♪ Initial state for Programming Mode.

Urgent Call and Callback when Busy facilities do not work when Call Forwarding - Busy and Call Forwarding - No Answer are activated.

If the extension called is configured to use Do Not Disturb and Call Forwarding - Busy then the call will be forwarded. If Do Not Disturb is enabled at the destination to which the call is forwarded, the caller will hear a busy signal.

Step by Step

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).

1 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).

1 3 1 ♩ Enter the code for programming.

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

0 0 1 ... 2 5 0 Enter Flash Detection Time (001 to 250, in increments of 10 ms), where 001 = 10 ms... 010 = 100 ms ... 035 = 350 ms, etc
For Portugal, Argentina and Thailand the default setting is "035"; for other countries "028".

Step by Step

Enter the next extension number.

or

Press this key.
Initial state for Programming Mode.

The system has the capability for Automatic Flash Detection.

Overflow 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).

1 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).

Activation of Hotline mode

1 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 162). During the timeout the extension can dial any number.

Step by Step

Deactivation of Hotline mode

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

1 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).

1 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 associate several extensions to one Executive telephone. There are 8 groups available with a maximum of 16 extensions for each group. An Associated Group is assigned to each executive telephone. To ensure proper operation all extensions must have system telephones installed. An extension that can be assigned to multiple groups simultaneously.

By default no Associated Group is configured.

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

1 5 1 ♩ Enter the code for programming.

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

⊞ ♩ ... ⊞ ♩ Specify up to 15 extensions as secretary telephones (e.g: 12/102).

♩ Press this key.
Initial state for Programming Mode.

Delete Associated Group

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

1 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.

Step by Step

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).

1 4 6 ♪ Enter the code for programming.

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

0 1 to 0 4 = for HiPath 1120

0 1 a 0 8 = for HiPath 1150

0 1 a 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).

1 4 6 ♪ Enter the code for programming.

 ♪ Enter a number from 01 to 24 for the CD port.

 ♪ Enter the extension number (e.g. 12/102) to bemed.

* ♪ Delete the CD assignment from the extension.

 ♪ Enter the next number for the CD port and extension.

or

♪ Press this key.
Initial state for Programming Mode.

By default, the assignment starts at the first extension slot on HiPath 1120/1150/ systems.

Step by Step

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).

1 4 8 ♩ Enter the code for programming.

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

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 = Standard line, 900 Ω (default)

2 = Standard line, 900 Ω (default)

4 = 600 Ω Λινε

⠿ ♩ 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 43). 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 68).

See Voice Mail Protocol → page 177.

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.

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 some other type of indication.

Step by Step

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.

Collect Call Barring by Extension

When this blocking is activated, the system automatically rejects all incoming collect calls over a digital line. Calls received over an analog line are rejected only at the moment they are answered.

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

1 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.

To enable Blocking on digital lines, please inquire your local carrier.

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

♩ Press this key.
Initial state for Programming Mode.

Step by Step

Pulses for Call Charges on an Analog Extension

This sends pulses to be charged for calls on an analog extension (12kHz/16kHz). With this feature, an extension's telephone set can display the number of pulses or the amount charged for the call.

Please refer to the documentation provided with the telephone set connected to the extension slot to find out if a billing indication is supported and which reception 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).

0 4 7 ♪ Enter the code for programming.

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

Step by Step

Enter the length of time for the duration of external calls for the specified extension (00000 to 17280 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.

Timeout for a Second Attendant for MSN

This consists of a time period (in seconds) during which an incoming call rings at the First Attendant of an external line. If the call is not answered within the specified amount of time, it will be routed to a Second Attendant (see "Modem Extension" on → page 86).

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 1 ... 2 0 Enter the delay time (01 to 20 in 5-second increments) where 00 = 0 seconds... 06 = 30 seconds (default), etc.

Initial state for Programming Mode.

Step by Step

MSN Extension Assignment for Outgoing External Calls

Allows a group extension to make outgoing calls using one of the selected MSNs.

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.

Modem Extension

This setting specifies the extension where the modem will be connected for serail remote access.

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.

Step by Step

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).

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 outgoing.

An External-to-External Transfer over an analog line is terminated in the following three situations:

- Elapsed timeout for external-to-external connection (Code 218)
- When a busy signal is detected
- Type of Answering Signal (Code 158).

Step by Step

Elapsed timeout for external-to-external connection

It allows configuring a timeout between two external calls when no other extension is involved in the call.

The user hears a warning tone before the timeout expires. A warning tone is sent 10 seconds before the end of the timeout. When the call is between two external lines with no internal extension involved, the call is terminated once the timeout elapses.

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

2 1 8 ♪ Enter the code for programming.

* or # ♪ Activate/Deactivate the timeout:

* = To activate

= To deactivate (default)

♪ Initial state for Programming Mode.

Configuring a Timeout for an External-to-External Connection

It allows configuring a timeout between two external calls when no other extension is involved in the call. Call timeout can be set from 1 minute to 24 hours (default setting is 1 hours).

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

2 1 9 ♪ Enter the code for programming.

0 0 0 0 ... 1 4 4 0 ♪ Enter a timeout for call connection (0000 to 1440, in 1-minute increments).

♪ Initial state for Programming Mode.

Step by Step

Disconnect timeout after and external-to-external transfer (Code 183)

With this option you can specify a period of time for disconnecting an external call. This option applies when at least one external line is an analog line and the call is transferred (Code 091) or forwarded (*11) to an external destination by an authorized extension.

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

1 8 3 ♪ Enter the code for programming.

0 0 4 ... 1 2 0 Enter the length of time for disconnecting calls (004 to 120 in 5-second cycles) where 004 = 20 seconds... 060 = 300 seconds (default), etc.

♪ Initial state for Programming Mode.

Code for a disconnect timeout after and external-to-external transfer.

This option allows you to set a code to restart the timeout period for disconnecting an external call. This applies when at least one external line is an analog line, and after a call has been transferred (Code 091) or forwarded (*11) to an external destination by an authorized extension.

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

1 8 4 ♪ Enter the code for programming.

⠿ ♪ Enter a code for restarting the timeout, between 00 and 99 (default is 00).

♪ Initial state for Programming Mode.

Step by Step

Once the call is transferred and answered at the destination, a disconnect timer is activated (default is 5 minutes).
A 20-second warning tone is sent to both parties before the call is disconnected. In order to continue the call without disconnecting, the destination number must enter this code (MF, default "00") to restart the timeout.,

Transfer when Extension is Busy

This setting allows transferring a call when an extension is busy. A warning tone can be heard on the background at the extension that receives the transfer, meaning that there is a call waiting.

When an extension does not answer a call after a specified period of time or because it is configured with Do Not Disturb or Data Protection, the call rings at the extension that originated the transfer. The period of time a call signals a busy extension can be configured using the "Timeout for Call Forwarding - No Answer" on page 70 feature (programming code 130) or through the HiPath 1100 Manager.

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

2 1 7 ♪ Enter the code for programming.

* or # ♪ Activate/Deactivate Transfer:

* = To activate (default)

= To deactivate

♪ Initial state for Programming Mode.

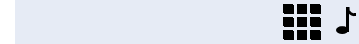
Step by Step

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.

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

* or # ♪ Activate/Deactivate Automatic 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).

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.

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

The MSN number must be registered in the External Number Registration (Code 191).

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 configured as a Fax/DID and DISA, the call is answered by the Fax/DID if this facility is available at the moment.

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

When DISA is activated for incoming external calls on an external analog line, all calls are answered by 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).

1 3 6 ♪ Enter the code for programming.

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

0 = No music

1 = Internal - MIDI (Default)

2 = Internal - WAVE

3 = External

4 = External - extension

♪ Initial state for Programming Mode.

Code 136 is used when there is no MOH 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
- 1 = Internal - MIDI (Default)
- 2 = Internal - WAVE
- 3 = External
- 4 = External - extension

♪ Press this key.
Initial state for Programming Mode.

Step by Step

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).

or

* ♩ Deletes the music source extension.

♩ Initial state for Programming Mode.

Step by Step

Setting the Time for an external Room Monitor

This setting specifies a timeout for the automatic disconnection of a call, in order to enable a Room Monitor (Babyphone) from an external telephone.

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

1 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.

Interdigit Pause Time Setting

It lets you configure a pause ("P") between MF digits. This can be used when programming System and Individual Speed Dialing, system telephone programmable keys or for activating Suffix Dialing.

This period of time can be set from 1 to 5 seconds. The default setting is 2 seconds.

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

2 2 7 ♩ Enter the code for programming.

1 ... 5 ♩ Enter the length of time for the Pause (from 1 to 5 seconds)/

♩ Initial state for Programming Mode.

Step by Step

To insert an interdigit pause you must enter the "P" character using the HP 1100 Manager or pressing the Redial Key using a system telephone.

Each "P" character inserts a 2-second pause (default) in the connection. A longer pause can be inserted by entering more than one character (for example, for a 4-second pause enter "PP")

The first "P# or #" specifies that the next digits for A will only be forwarded if:

- Digital line or S_0 extension:

P# - DTMF digits are sent after local carrier identification, when B is not answered.

- DTMF digits are sent after B is answered.

- External analog line or analog extension:

P# or # - DTMF digits are sent after B is answered.

Other characters ("#" and/or "*") may be added following "P#".

An inter-digit pause("P") cannot be inserted when using an analog telephone for programming Individual Speed Dialing.

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 the Caller List

Digits configured with this feature cannot be selected 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).

1 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 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, 08:30 a.m.

♪ Initial state for Programming Mode.

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

Step by Step

Automatic Update of Date/Time

This setting allows automatic synchronization of the system's date and time through the local carrier, during an external call.

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.

The settings that are automatically updated are: Month, Day, Time and Minute. Year is not included in the FSK message settings - it is defined as the software's manufacturing date and can be manually adjusted.

Recall for external calls via ISDN

By configuring this setting, an external ISDN call can request a Recall for the MSN number called.

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

2 2 1 ♪ Enter the code for programming.

* or # ♪ To activate/deactivate Recall:

*= To activate Recall (Default)

= To deactivate Recall

♪ Initial state for Programming Mode.

A Recall can only be scheduled under a MSN. MSN numbers must be programmed and must have attendants.

Step by Step

Call Charges

On HiPath 1100 systems the Billing facility (Call Cost Limit by Extension) is only available for digital trunks (ISDN and CAS). Please consult your local carrier to know if this service is provided.

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).

1 9 5 ♪ Enter the code for programming.

Set the Call Charge Factor (9 digits).

Enter the decimal separator position (0 to 3)

Examples:
- for US$ 0.12: 000000012 and 2 (comma position)
- for US$ 2.00: 00002 and 0 (comma position)
- For example, for US$ 123456.789: 123456789 and 3 (comma position)

♪ Initial state for Programming Mode.

Step by Step

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 = Default - equivalent to billing value x1 (default)

2 = Factor 1

3 = Factor 2

⁞⁞⁞ ♩ Enter the next extension number.

or

♩ Press this key.
Initial state for Programming Mode.

Step by Step

Call Charge Value by Extension

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

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

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

1 9 7 ♩ Enter the code for programming.

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

♩ Enter the maximum amount that can be spent by the extension (up to 9 digits)

Enter the decimal separator position (0 to 3)

Examples:
- for US$ 0.12: 000000012 and 2 (comma position)
- for US$ 2.00: 00002 and 0 (comma position)
- For example, for $ 123456.789: 123456789 and 3 (comma position)

♩ 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.

The switch must be connected to a PC and the CommServer and the APS Version Verifier must be running.

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) Type of system;

2) Release;

3) Version;

4) APS;

5) 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.

For this feature to work the system must be connected to a PC with Commserver and APS Version Verifier running.

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.

Step by Step

Time for SW Update

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

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.

SW Update Schedule

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).

1 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).

1 4 9 ♩ Enter the code for programming.

Enter a new system password (5 digits).

♩ Initial state for Programming Mode.

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).

1 9 9 ♩ Enter the code for programming.

Enter the system password (default is 31994).

♩ The system restarts.

Step by Step

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.

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

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.

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.)

Step by Step

Enter the emergency number (up to 10 digits).

Wait 5 seconds.

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

Emergency Numbers are not affected by the ACS feature.

Emergency calls never use external lines configured for:

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

Lists of Emergency Numbers

The default configuration is set to:

Country	Emergency Numbers	Name
Brazil	190 193	Police Fire Department
Portugal	112	Emergency
Spain	112	Emergency
Latvia	01 02 03 04 112	
Lithuania	01 02 03 112	
Italy	112 113 115 118	
Australia	000	Emergency
England	999 112	Emergency Services

Step by Step

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.

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.

When the "00" option is selected, the system detects the components as described on → page 18.

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 the 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 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.

The modules can only be connected/disconnected when the system is turned off.

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.

*994 Enter this code.

Enter the number of technical support.

Press 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 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.

Step by Step

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.
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.

Step by Step

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.

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

1 5 7 ♪ Enter the code for programming.

* or # Activate/Deactivate remote configuration:

* = Activate remote configuration (default)

= Deactivate remote configuration

♪ Initial state for Programming Mode.

Replace the handset.

For example, Remote Configuration is enabled and the programming extension has a conversation in progress on the external line that will be used for programming.

* 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.

Step by Step

With a Fax/DID facility

If the system is equipped with a Fax/DID module programmed as an external line DID.

*95 ♪ 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.

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.

196 ♪ 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).

073 ♪ Enter the code for programming.

001 ... 140 ♪ Enter the slot (001... 140) for the MSN.

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

♪ Initial state for Programming Mode.

Step by Step

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.

♪ Enter the MSN number selected:

Example

Slot	MSN
001	3415565 - Home
002	3416496 - Office

User is at his/her office (3416496):

1 = This setting specifies an MSN for other facilities (e.g., 3415565)

2 = This specifies the MSN slot (001 ... 140) for the MSN used by other facilities (for example 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.

Step by Step

MSN Identification Mode

This setting specifies how the MSN is shown on a system telephone display. In the default configuration no Mode is configured.

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

2 2 4 ♩ Enter the code for programming.

0 ... 2 ♩ Select the information to be shown on the display:

0 = None (Default)

2 = MSN number

2 = MSN number

♩ Initial state for Programming Mode.

This feature does not work when option 1 is selected in the programming of code 039"Caller ID by Name/Number".

Remote Administration Password through an MSN

This setting allows you to specify a password so that all incoming calls from a remote HiPath 1100 Manager that provides the correct password can be authorized to execute Remote Administration. In the default configuration, no password is set.

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

2 2 0 ♩ Enter the code for programming.

▦ ♩ Enter an access code consisting of a maximum of 5 digits.

♩ Initial state for Programming Mode.

In order to enable this feature the "Without MSN Verification" function (Code 070) must also be enabled.

Step by Step

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 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.

Deleting an Entrance Telephone Assignment

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

1 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.

Step by Step

Door Lock

This feature detects when there is a locking device installed.

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

1 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.

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).

1 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.

Step by Step

Deleting DID Extensions

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

1 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.

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).

1 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).

1 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

Information about calls received and made are stored in the system's memory. CDR records can be reviewed in the following manner:

- By using a PC or printer connected through a serial interface.
  To issue a ticket list, a ticketing application such as CallReport must be installed on the PC.
- By using a PC connected on a local network. The ticket list can be viewed using Windows HyperTerminal. Configure the settings by following these steps:
  - Configure the CommSever for ADSL connection.
  - Select the "Serial Printing" checkbox on the HiPath 1100 Manager, under Advanced -> System Settings
  - On the HyperTerminal select TCP/IP Mode and enter the configuration number for an ADSL module (the default is 10.0.0.1) and the port (9366)
  - Do not use a Serial or ADSL connection type while using HyperTerminal. During ticketing the administration can be performed via USB connection, optiPoint, ISDN or analog modem.
  - Tickets will only be shown after the end of the first connection.
  - For establishing a serial or ADSL connection to the HiPath 1100 Manager disconnect HyperTerminal.

It is recommended that you uncheck the "Serial Printing" checkbox on the HiPath 1100 Manager if tickets are not being issued over an ADSL connection.

To provide accurate call details, you must update the system's time and date information (→ page 99).

The following information is recorded:

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

Step by Step

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 "?."
- 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.

Step by Step

In the event of a power outage during ticketing, all tickets being that were being sent when the power outage occurred are resent when a connection is once again established.

For example,

If 300 tickets are stored in the memory then

1. The user establishes a new connection, sends 100 tickets and terminates the connection.

2. Once a new connection is established, to send the remainder 200 tickets, a power outage occurs

3. After the power outage, once the user resumes his/her work, a new connection is established. During this connection all 200 tickets that were being sent when the power outage occurred are resent.

Step by Step

Ticket Cost Code

External calls can be assigned Cost Codes which provide more control over telephony costs (see Functions Used During a Call - Cost Code, in the Manual do Usuário). This information may be presented on the billing ticket.

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

0 9 5 ♩ Enter the code for programming.

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

* = To activate

= To deactivate (default)

♩ Initial state for Programming Mode.

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 122). The communication speed can be set to ensure proper data transfer.

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

1 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 (default)

4 = 38400 baud

5 = 56000 baud

6 = 57600 baud

7 = 115200 baud

8 = 128000 baud

9 = 256000 baud

♩ Initial state for Programming Mode.

Step by Step

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).

1 2 1 ♪ Enter the code for programming.

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

♪ Initial state for Programming Mode.

Call Detail Report for Incoming Calls

If the system is enabled for analog and digital line Caller ID (E1 CAS or S2 access) provided 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).

1 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.

Step by Step

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.

In the default setting a digit sequence is not configured.

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

1 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.

Step by Step

Fax/DID

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. The maximum number of simultaneous conferences supported by the system is 8.

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

Messages stored with this feature can be programmed for a Second Attendant to answer external calls or for a Call Forwarding destination for an extension (see Call Forwarding in the User Manual).

Fax Mode

In this operating mode the Interface detects only signals Fax. 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 interface 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 Interface 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."

Auto Fax Mode

When running on this mode modo, the system detects fax signals during the first 10 seconds of the conversation. If a signal is detected, the call is transferred to an extension configured for fax. If no fax signal is detected the consversation continues as usual.

Call Answering Menu

The Produktname lets you create a customized call answering menu transferring the call to an extension or a group, depending on the number entered.

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 system can only detect 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.

Step by Step

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

1 3 7 ♪	Enter the code for programming.
9 or 0	Enter code "9" to "record new announcement" or "0" to "play back announcement."

Step by Step

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

- **0 1** = Fax Mode - Greeting for business hours (up to 24 seconds)
- **0 2** = Fax Mode - Greeting for Night Service (up to 24 seconds)
- **0 3** = Fax Mode - Message for transferring calls (maximum of 16 seconds)
- **0 5** = DID Mode - Greeting for Night Service (up to 32 seconds)
- **0 5** = DID Mode - Greeting for Night Service (up to 32 seconds)
- **0 6** = DID Mode - Greeting 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 a new announcement ("9") or for playing back a new announcement ("0").

or

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Configuring the Call Answering Mode

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

Activation

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

1 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 = Disabled
- 1 = Fax
- 2 = DID
- 3 = Fax/DID
- 4 = Greeting/Message
- 5 = Auto Fax

 Enter the number for the next external line available.

or

♩ Press this key.
Initial state for Programming Mode.

Deactivation

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

1 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.

Step by Step

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.

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

1 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).

1 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 activate, all collect calls 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 = Greeting (message)

* 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 = Disabled (default)
- 1 = Fax
- 2 = DID
- 3 = Fax/DID
- 4 = Message (announcement)
- 5 = Auto Fax

⊞ ♪ Enter next MSN.

or

♪ Press this key.
Initial state for Programming Mode.

In this case the "Call Deflection" on page 144 (Code 228) will not work.

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 position.

or

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Activation of Fax/DID after a Timeout

When a Fax/DID Module is answering 8 calls simultaneously, the next call will receive a ring signal generated by the local carrier, until the HiPath 1100 answers the call. 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:

- For an external analog line, the switch is required to bypass the Fax/DID and forward calls to an analog line Attendant (if there is no Attendant available, the call is forwarded to an overflow extension). Of course, if a Fax/DID 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 a digital line (E1 CAS, S2 or S_0 acess) the PABX sends a "disconnect" signal to the line upon receiving a call. This means that the time specified for this setting is ignored in the case of digital lines. When the Fax/DID is busy answering 8 simultaneous calls, the external caller 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.

When the Fax/DID module answers a call and forwards it to an extension (the call is ringing somewhere), that call is no longer considered one of the four calls that is keeping the Fax/DID module busy. In summary, once the Fax/DID module forwards a call to an extension, the channel is available for another call.

Step by Step

Programming a Digital Trunk

HiPath 1100 systems can be equipped with digital lines by installing a S_0 (ISDN access) and a TME1 (E1 CAS or S2 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 1150 with a 2-port module or one 5-port module; and the HiPath 1190 with two 2- or 5-port modules.

When only digital ISDN lines are available, the settings for DID Prefix, External Number Phonebook, Country Code, and Area Code must be configured.

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 "S0 Line Operation Mode").
- 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.

Step by Step

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 next slot for the S_0 module.

or

♪ Press this key.
Initial state for Programming Mode.

[1] Module slots are: HiPath 1120 (02), HiPath 1150 (03) and HiPath 1190 (01 and 11).

Step by Step

S_0 Line Operation Mode

This setting specifies the type of connection between the S_0 Module digital lines and the local carrier. The connection can be Point-to-Point or Point-to-Multipoint or S_0 Bus.

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

1 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 physical slot for the S_0 module:

0 0 ... **0 1** = On the HiPath 1120 (Port 00 slot is for external line only - PP or PMP)

0 0 ... **0 4** = For HiPath 1150;

0 0 ... **0 4** = For HiPath 1190 (for the second module, enter Slot 11 and Port 00 ... 04).

1 ... **3** ♪ Select the type of connection for the digital line:

1 = Point-to-Point (PP - default for the first port)

2 = Point-to-Multipoint (PMP)

3 = Bus S_0 line call (default for all other ports)

Enter the next physical slot for the $S_{0\ module}$.

or

♪ Press this key.
Initial state for Programming Mode.

On the HiPath 1120, the S_0 module's first port is for digital line only, PP or PMP. It cannot be programmed as an S_0 bus.

With other systems, the first physical port slot may also be configured as an S_0 bus.

[1] Module slots are: HiPath 1120 (02), HiPath 1150 (03) and HiPath 1190 (01 and 11).

Step by Step

Symmetric/Asymmetric Call

This setting configures the system for symmetric or asymmetric 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.

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 ... **0 1** = On the HiPath 1120(Port 00 slot is for external line only - PP or PMP);

0 0 ... **0 4** = For HiPath 1150;

0 0 ... **0 4** = For HiPath 1190 (for the second module, enter Slot 11 and Port 00... 04).

***** or **#** ♪ Select the operating mode:

***** = Asymmetric

= Symmetric (Default)

♪ Initial state for Programming Mode.

Absence of ACK Setup for a S_0 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

. **0 1**, **0 2**, **0 3** or **1 1** Enter the S_0 Module[2] slot on the system.

Enter the slot for the S_0 module slot:

0 0 ... **0 1** = On the HiPath 1120 (Port 00 slot is for external line only - PP or PMP)

0 0 ... **0 4** = For HiPath 1150;

[1] Module slots are: HiPath 1120 (02), HiPath 1150 (03) and HiPath 1190 (01 and 11).

[2] Module slots are: : HiPath 1120 (02), HiPath 1150 (03) and HiPath 1190 (01 and 11).

Step by Step

0 0 ... 0 4 = For HiPath 1190 (for the second module, enter slot 11 and port 00... 04).

***** 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.

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 ... 0 1 = On the HiPath 1120 (Port 00 slot is for external line only - PP or PMP)

0 0 ... 0 4 = For HiPath 1150;

0 0 ... 0 4 = For HiPath 1190 (for the second module, enter Slot 11 and Port 00 ... 04).

***** or **#** ♩ Activate/Deactivate Notify:

***** = To activate (default)

= To deactivate

♩ Initial state for Programming Mode.

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.

[1] Module slots are: HiPath 1120 (02), HiPath 1150 (03) and HiPath 1190 (01 and 11).

Step by Step

* 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 over digital lines.

By default, all digital 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 digital line (e.g., 801).
0 0 1 ... 1 4 0 ♪	Enter the next MSN position.
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.
* ♪	The selected external line is deleted.
0 0 1 ... 1 4 0 ♪	Enter the next MSN position.
or	
# ♪	Press this key. Initial state for Programming Mode.

Step by Step

MSN Automatic Internal Distribution

This features allows you to assign different MSN numbers for each S_0 interface (the number of S_0 interfaces varies depending on the type of S_0 module. See the Service Manual - A31003-K1160-S100-X-XX20). MSN numbers must be configured via HiPath 1100 Manager (see the Help file on the Manager application).

ISDN telephones can be configured for any of the MSN numbers assigned to a S_0 interface. The configuration must be carried out manually on each telephone set. The maximum number of MSNs allowed varies depending on the specific telephone model.

On the Gigaset SX255 you can assign many MSN numbers for each telephone via HiPath 1100 Manager. However, each set stores only the first 10 MSN numbers. For more information on configuration and programming procedures for the Gigaset SX255 refer to the Gigaset SX255 User's Manual (A31008-X255-B100-X-XX19).

Step by Step

Call Deflection

When this feature is available and provided by a carrier, an incoming call to an extension enabled with Call Forwarding (*11) is routed directly to an external destination over the public network. Alternatively, the HiPath 1100 system can be used.

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

2 2 9 ♩ Enter the code for programming.

* or # ♩ To activate/deactivate Call Deflection over the public network.

* = Activates using the public network

= Deactivates using the HiPath 1100 system (Default)

♩ Initial state for Programming Mode.

When there is an incoming call to an extension activated for external Call Forwarding, the system sends information about the call's new destination and the number of the forwarded extension to the public network. This is done by means of a Call Deflection activation message. The call is forwarded over the public network, which means that on theHiPath 1100, B channels are not needed.
The local carrier can send to the HiPath 1100 information about the forwarded call billing.

If external Call Forwarding cannot be carried out through Call Deflection to the public network, it will be carried out by the system.

Step by Step

ISDN Layer 1

Allows you to change some default ISDN settings for specified countries.

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

1 0 1 ♪ 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 ... **0 1** = On the HiPath 1120 (Port 00 slot is for external line only - PP or PMP)

0 0 ... **0 4** = For HiPath 1150;

0 0 ... **0 4** = For HiPath 1190 (for the second module, enter slot 11 and port 00 ... 04).

***** or **#** ♪ Activate/Deactivate Layer

***** = To activate

= To deactivate

♪ Initial state for Programming Mode.

ISDN Layer 2

Allows you to change some default ISDN settings for specified countries.

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

1 0 2 ♪ Enter the code for programming.

0 1, **0 2**, **0 3** or **1 1** Enter the S_0 Module slot on the system[2].

Enter the slot for the S_0 module slot:

0 0 ... **0 1** = On the HiPath 1120 (Port 00 slot is for external line only - PP or PMP)

0 0 ... **0 4** = For HiPath 1150;

0 0 ... **0 4** = For HiPath 1190 (for the second module, enter slot 11 and port 00 ... 04).

[1] Module slots are: HiPath 1120 (02), HiPath 1150 (03) and HiPath 1190 (01 and 11).

[2] Module slots are: HiPath 1120 (02), HiPath 1150 (03) and HiPath 1190 (01 and 11).

Step by Step

***** or **#** ♪ Activate/Deactivate Layer

***** = To activate

= To deactivate

♪ Initial state for Programming Mode.

B Channel

Allows you to change some default ISDN settings for specified countries.

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

1 0 3 ♪ 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 ... **0 1** = On the HiPath 1120 (Port 00 slot is for external line only - PP or PMP)

0 0 ... **0 4** = For HiPath 1150;

0 0 ... **0 4** = For HiPath 1190 (for the second module, enter slot 11 and port 00 ... 04).

***** or **#** ♪ Master/Slave.

***** = Master

= Slave

♪ Initial state for Programming Mode.

[1] Module slots are: HiPath 1120 (02), HiPath 1150 (03) and HiPath 1190 (01 and 11).

Step by Step

TME1 Module

TME1 modules can be configured to operate with E1 CAS or S2 access To determine how many analog and how many digital lines will be available on your system, see Table Parágrafo , "Considerations related to digital line on the HiPath 1150/1190" na pág. -16.

TME1 modules are shipped preconfigured from the factory to operate as E1 CAS interfaces.

In order for the module to work as a S2 interface you must run a reconfiguration procedure using the S2M Maintenance tool.

When the total number of digital lines 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. Lines are disabled in the order that they are physically installed (1, 2, etc.). This process continues until the total number equals the required number of external lines. 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.

E1 CAS Access

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 1150 can be equipped with one TME1 module (configured for up to 15 standard channels or 20 expanded 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.

Step by Step

S2 Access

It provides two communications channels (64 kbps each) as well as a capability for sharing applications such as video conferencing or Internet access. Some features such as Caller ID (CLIP), Malicious Call Identification (MCID), Caller ID Blocking (CLIR) can be enabled if provided by your local carrier. The HiPath 1150 can be equipped with one TME1 module (configured for up to 30 channels). The HiPath 1190 can be equipped with two TME1 modules (one configured for up to 30 channels and the second one for up to 15 channels.

When only digital lines are available, the settings for DID Prefix, External Number Phonebook, Country Code, and Area Code must be configured.

A TME1 with S2M access operates on TEI (Terminal Endpoint Identifier) non-automatic mode. TEI value must be configured in the S2M Maintenance tool.

This service is only available for Italy.

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).

1 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.

Step by Step

External Number Registration

To use the DID feature each MSN 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).

1 9 1 ♩	Enter the code for programming.
0 0 1 ... 1 4 0 ♩	Enter the slot (001... 140).
⊞ ♩	Enter the MSN (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

Automatic MSN Assignment via Local Carrier

This is a subscription service enabled by a local carrier. When this facility is enabled external line MSNs can be automatically registered.

When the Scan button is pressed on HiPath 1100 Manager (Basic -> MSN -> Settings -> Search. For more information refer to the Help file), a message is sent to the local carrier requesting the MSN numbers. The local carrier replies to the message received by sending the MSN numbers which are then automatically entered into the system.

In order for all MSN numbers to be registered in the system, remote Seizure mode must be configured as PMP (Point to Multipoint) an the system number must not be in HiPath 1100 Manager (Advanced->System Settings->Regional Settings). If the operating mode is PP (Point to Point) only the system number will be registered. You must configure MSN numbers (Basic->MSN->Settings). Any MSN number previously configured must be deleted.

Automatic MSN Assignment facility provided by a local carrier only works if you also subscribe to Call Forwarding on the public network.

Assigning MSNs to Attendants

MSNs registered for each slot (see "Modem Extension - Code 086") must be assigned to extensions, Call Groups or a mailbox using a EVM Virtual Port (see "Mailboxes Assignments - Code 203") designated for answering calls during a specified period of time.

An extension, a Group or a EVM Virtual Port cannot be assigned more than 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).

1 9 2 ♪ Enter the code for programming.

0 0 1 ... 1 4 0 ♪ Enter the external number slot.

Step by Step

1 ... 4	Select a period of time: 1 = Day 2 = Night 3 = Second Attendant - Day 4 = Second Attendant - Night
	Enter the extensions, Call Groups (CG, HG or UCD - up to 10 extensions per group. For example, 11/770, 780 or 790) or EVM virtual port (For example, 744).
0 0 1 ... 1 4 0 ♩ or	Enter the next slot.
# ♩	Press this key. Initial state for Programming Mode.

Deleting an Extension Number

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

1 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 ♩ or	Enter the next slot.
# ♩	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).

Step by Step

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.
When the Fax/DID facility is configured for digital lines, this feature is not operational.

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.

Step by Step

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
Brazil	55
Argentina	54
Portugal	351
Chile	56
Venezuela	58
Mexico	52
Vietnam	84
Spanish (IM)	
English (IM)	
French (IM)	
China	86
Malaysia	60
Singapore	65
Thailand	66
Greece	30

Country	CAC
India	91
Pakistan	92
Spain	34
Russia	7
Ukraine	380
Peru	51
China 2	86
Philippines	63
Canada	1
South Africa	27
Turkey	90
Latvia	371
Lithuania	370
Italy	39
Australia	61
England	44

Step by Step

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.

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.

Step by Step

EVM Module

EVM (Entry Voice Mail) is a Voice Mail solution for Produktname systems. Features are controlled by pressing keys on a system telephone or any type of equipment with MF dialing capability.

EVM is configured and activated by technical personnel through the HiPath 1100 Manager administration software or a programming extension.

An EVM Module can operate simultaneously with a Fax/DID facility except as follows: An EVM is not configured for Auto-Answering, since this capability is covered by the Fax/DID Module.

Feature Overview

- 24 standard mailboxes, 2 of which can be for forwarding (Day/Night Service message).
- 4 virtual ports (744 to 747)
- Mailboxes can be configured automatically or by the user.
- Capability for message/music playback before answering.
- Up to two different greetings.
- Manual or Day/Night Service greeting selection.
- Context-sensitive User's Guide
- Messages inform users of current menu options.
- Two parallel actions can be executed: call switching and auto-answering (2 ports).
- Capability for up to 120 minutes of voice recording.
- Maximum voice message recording time for each mailbox is 5 minutes, configurable from 1 to 5 minutes. The default setting is 2 minutes.
- Date and time display for each message.
- Memory overload alert when it exceeds 80%.

Step by Step

When a call to an extension is forwarded to an EVM mailbox (call forwarding - No answer or Busy) a message is played, explaining why the call is being forwarded.

These messages are played before the greeting message and cannot be overwritten.

Messages:

- Call Forwarding - Busy after Call Forwarding No Answer: "User's connection is busy at the moment".
- Call Forwarding - No Answer: "The user you are calling is not answering."

Message Duration

This setting determines a time period within which the caller can record a message.

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

2 0 0 ♩ Enter the code for programming.

0 1 ... 0 5 Enter the time available for the caller to record a message (1 to 5 minutes). The default setting is 2 minutes.

♩ Initial state for Programming Mode.

Mailbox Language

This setting lets you select the language to be used for the mailboxes.

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

2 0 1 ♩ Enter the code for programming.

0 1 ... 1 9 Enter the code for the country or group of countries as shown on the table below (e.g., "06" for Portuguese).

♩ The system restarts after the change is made.

Language Code Table for EVM

Code	Language	Default
01	German	

Step by Step

Code	Language	Default
02	English	Other countries
03	French	French (IM)
04	Dutch	
05	Italian	
06	Portuguese	Portugal and Brazil
07	Spanish	Spain, Argentina and IM Spanish
08	Czech	
09	Slovanian	
10	Polish	
11	Rumanian	
12	Greek	Greece
13	Estonian	
14	Latvia	
15	Lithuania	
16	Finnish	
17	Danish	
18	Swedish	
19	Norwegian	
20	English (US)	
21	Spanish (Int)	
22	French (Canada)	
23	Korean	
24	Flemmish (Belgium)	
25	Portuguese (Brazil)	
26	Chinese	
27	Turkish	

Step by Step

If you select a language that is not available for the EVM interface, the setting will default to English. If English is not available, the setting will default to the first available language.

Maximum Number of Auto-Configurable Mailboxes

This setting determines the number of mailboxes that can be configured by the user. No other settings need to be configured for the auto-configurable mailboxes. If the number of mailboxes allowed is exceeded, it will not be possible to configure settings correctly when using the EVM.

If mailboxes have already been configured using the HiPath 1100 Manager, fewer mailboxes will be available for auto-configuration. For example, if there are 12 mailboxes and 10 have been configured through the HiPath 1100 Manager, only 2 mailboxes will be available for configuration by the user.

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

2 0 2 ♪ Enter the code for programming.

0 1 ... 2 4 Enter the number of auto-configurable mailboxes (default setting is 12).

♪ Initial state for Programming Mode.

Mailboxes Assignments

Assigns mailboxes to user's extension slots or EVM virtual ports (when using MSN Attendants).

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

2 0 3 ♪ Enter the code for programming.

0 1 ... 2 4 Enter the number of the mailbox you would like to select.

Step by Step

Enter the extension number (e.g., 12/102) that you want to assign to a mailbox or, if using MSN Attendants, an EVM Virtual Port - 744 to 747 (e.g., 744) to be assigned.

Press this key.
Initial state for Programming Mode.

Mailbox Password

This setting allows you to create a password for a specific mailbox. The default password is "1234".

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

2 0 4 Enter the code for programming.

0 1 ... **2 4** Enter the number of the mailbox you would like to select.

Enter a new password (up to 4 digits).

Press this key.
Initial state for Programming Mode.

Mailbox Recording Activation

This setting allows you to record a greeting or a message to be played by the EVM.

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

2 0 5 Enter the code for programming.

0 1 ... **2 4** Enter the number of the mailbox you would like to select.

***** or **#** To activate/deactivate the Recording Mode:

***** = To activate

= To deactivate (default)

Press this key.
Initial state for Programming Mode.

Step by Step

Type of Mailbox Greeting

This options determines the type of greeting to be used for a specific mailbox.

- Under "Manual", select the Type of Greeting (1 or 2) that was specified for the mailbox in "Mailbox Greeting Configuration" (Code 207).
- The following settings are available for the "Day/Night" option.
  - Greeting 1 (Day)
  - Greeting 2 (Night).

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

2 0 6 ♪ Enter the code for programming.

0 1 ... 2 4 Enter the number of the mailbox you would like to select.

1 or 2 Select the greeting option desired:

1 = Manual (default)

2 = Day/Night

♪ Press this key.
Initial state for Programming Mode.

Mailbox Greeting Configuration

This setting specifies the type of greeting to be used for a specific mailbox when the Type of Mailbox Greeting features is configured as "Manual" (Option 1, Code 206).

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

2 0 7 ♪ Enter the code for programming.

0 1 ... 2 4 Enter the number of the mailbox you would like to select.

1 or 2 Select the greeting option desired:

1 = Manual (default)

2 = Day/Night

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Message source

This setting assigns a message to one of the two B channels on the EVM. Alternatively, the message can be assigned to a MSN.

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

2 0 8 ♪ Enter the code for programming.

1 or 2 Select a Message:

1 = Message 1

2 = Message 2

7 4 9 1 or 7 4 9 2 Enter the port to be used for the MSN message playback.

♪ Press this key.
Initial state for Programming Mode.

The procedure for recording a greeting/message is described in the

The procedure for recording a greeting/message is described in the User Manual.

Message Mode

This setting specifies whether a message will be played only once or repeatedly.

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

2 0 9 ♪ Enter the code for programming.

1 or 2 Select a Message:

1 = Message 1

2 = Message 2

1 or 2 Select the mode:

1 = Continuous (default)

2 = Single

♪ Press this key.
Initial state for Programming Mode.

Step by Step

Message for MSN

This setting specifies whether a message will be played for a specific MSN.

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

2 1 0 ♪ Enter the code for programming.

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

1 or 2 Select a Message:

1 = Message 1

2 = Message 2

♪ Press this key.
Initial state for Programming Mode.

System number

This setting specifies the Produktname number to be used when the system operates in a Point-to-Point (PP) environment.

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

2 1 1 ♪ Enter the code for programming.

 ♪ Enter a number with a maximum of 10 digits (e.g., for 3415565 you can specify 341).

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

Type of system number

This setting specifies how a MSN configuration must be sent.

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

2 1 2 ♪ Enter the code for programming.

1 ... 4 Select the type of number to be sent:

1 = Unknown (default for other countries)

2 = System number (default for Italy)

Step by Step

3 = Local Area Code (LAC)

4 = Country Area Code (CAC)

♩ Initial state for Programming Mode.

Type of Voice Mail

This setting specifies the type of voice mail to be used by the system.

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

2 **1** **4** ♩ Enter the code for programming.

1 ... **3** Select the type of Voice Mail:

1 = None (Default)

2 = VMI

3 = EVM

♩ Initial state for Programming Mode.

Voice Mail Group

This setting specifies the UCD group to be used by the system.

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

2 **1** **5** ♩ Enter the code for programming.

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

ou

***** ♩ Press this key to delete a specified group.

♩ Initial state for Programming Mode.

Mailbox Assignment for Auto-Answering Mode

This setting assigns mailboxes to a user's extension slots.

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

Step by Step

2 1 6 ♪ Enter the code for programming.

1 or 2 Enter the number of the mailbox you would like to select.

7 4 9 1 or 7 4 9 2 Enter a virtual port for auto-answering.

♪ Press this key.
Initial state for Programming Mode.

Audio Quality

This setting specifies the audio quality for playing back greetings and messages.

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

2 2 8 ♪ Enter the code for programming.

1 ... 3 Select the audio quality option desired.

1 = Best quality for greetings and messages

2 = High quality for greetings/Best for messages (Default)

3 = High quality for greetings and messages

♪ Initial state for Programming Mode.

Message/Greeting for an External Analog Line

This specifies whether a message/greeting should be played for an external analog line.

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

2 3 0 ♪ Enter the code for programming.

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

1 or 2 Select a Message:

1 = Message 1

2 = Message 2

♪ Press this key.
Initial state for Programming Mode.

Step by Step

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:

- Selecting a number in the Speed Dialing Directory
- Activation of a relay
- Dialing a number from the Speed Dialing directory and activating a relay
- Sending a Message (with the EVM Module)

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).

1 7 0 ♪ Enter the code for programming.

0 ... 3 Select the sensor's function:

- 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.

Step by Step

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).

1 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).

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).

1 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

Sensor Message

After assigning a number, you can assign a message to the sensor. This message will be transmitted to the assigned number when the sensor state is changed.

Required: Programming Mode is activated (*95 31994) and an EVM Module is installed.

2 1 3 ♪ Enter the code for programming.

1 or 2 Select a Message:

1 = Message 1

2 = Message 2

♪ Initial state for Programming Mode.

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).

1 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.

Step by Step

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 sue the Relay for controlling a second ring for an 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.

Timer for deactivating the relay

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

1 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 a specified extension.

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

0 7 1 Enter the code for programming.

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

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.

Aspects to Consider:

The HiPath 1100 Version 6.0 application installation overwrites HiPath 1100 Version 5.2 installation. During installation no message is displayed to warn the user that HiPath 1100 Version 5.2 is being removed

Both versions are supported; a HiPath 1100 Version 5.2 PABX can be managed using HiPath 1100 Version 6.0

HiPath 1100 Version 5.2 and HiPath 1100 Version 6.0 cannot both be installed in the same computer. Otherwise, neither will work ;

The HiPath 1100 Manager can access the switch as follows:

- **Locally:**Connecting a USB interface, an optiPoint 500 $U_{P0/E}$ interface, a V.24 interface
- **Remotely:** Through a LAN, provided there is a network PC connected to the HiPath 1100 via a serial or USB interface or an ADSL module

.

When using remote administration over an ISDN digital line, where no traffic is detected between the system and the remote programmer, the system can be configured to terminate the connection after a specified period of time (1 to 60 minutes) or to maintain the connection indefinitely.

- **Offline Programming Mode:** allows you to view, edit and store a HiPath 1100 database on a PC that is not currently connected to the PABX and later transfer it to it.

You can also update the HiPath 1100 software using the HiPath 1100 Software Update then store the database with the system's settings.

Step by Step

If the database has been previously saved in an earlier version (HiPath 1100 V5.1 or V5.2) and you want to update the database to HiPath 1100 V6.0, all you need to do is restore the *.bup file and the system will execute an automatic update. At the end of this process a pop-up message appears informing the user of the changes that were made.

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."
When using an ADSL module, do not connect the V.24 serial interface adapter cable to the PABX

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.

For more details on how to configure an ADSL module, see the topics in the Help file of the HiPath 1100 ADSL Manager software.

Step by Step

TME1 Module Administration

TME1 Module management can be done through E1 CAS or S2 access. A different module configuration tool is used for each access mode:

- E1 Trunk Manager for E1 CAS access
- S2M Maintenance for S2 access.

Hardware Requirements:

– Serial communications interface (COM port).

E1 Trunk Manager

The administration application allows you to:

- Download the software and the database
- Remove traces
- 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 refer to the program's "Help" system.

Maintain S2M

The administration application allows you to:

- Download software and databases
- Remove traces
- 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 refer to the program's "Help" system.

Availability of the HiPath 1100 Manager, HiPath 1100 ADSL Manager, S2M Maintenance and E1 Trunk Manager administration software is subject to the client's completion of the technical course for users of the equipment.

Step by Step

When a TME1 module is connected to a S2M Manager tool but is configured with CAS software, the technician will receive a pop-up message indicating that the software installed is not supported by the S2M Manager. The message will ask to download the software (Download Menu->Software). The user is given the option to download the S2 software or to cancel the download. The same occurs when the module is connected to an E1 Trunk Manager tool but is configured with S2 software.

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 receives data sent by the PABX that are then processed and stored in a PC hard disk and identified by extension, time, call duration, external line used, outgoing route and call cost.. 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.

Step by Step

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.

3 Extension called
Required element for calls Type 3 and 4.
This element remains blank for all other 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

Step by Step

1. Internal call from Extension 16 to the VMIe Group: ***1***16*1;
2. Direct internal call from Extension 15 to Extension 11, forwarded to the VMIe Group (*11): ***3****15****11*1;
3. Direct internal call from Extension 1015 to Extension 1011, forwarded to the VMIe Group (*11): ***3**1015**1011*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 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 digital line to Extension 12 which is forwarded to the VMIe Group configured as Second Attendant: ***4**********12*4;
8. Internal call from Extension 1015 directly to Extension 1011 which is forwarded (*11) to the VMIe Group: ***3**1015**1011*1;
9. Direct internal call from Extension 10015 to Extension 10011, forwarded to the VMIe Group configured as second Attendant: ***4*10015*10011*1.

Voice Mail Protocol for the system:

The Voice Mail signals to indicate when there is a message waiting at an extension's mailbox. For this purpose it uses a DTMF service code (*68) followed by 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 check items " Deactivating the Internal MWI #68" and "Activating the Internal MWI Internal *68" in the HiPath 1100 System Manager "System Settings - Service Code" folder.

For example,

1. The Voice Mail System indicates that Extension 13 has a message waiting in its mailbox: *6813;
2. The Voice Mail System indicates that the mailbox for 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 and HiPath 1150. 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

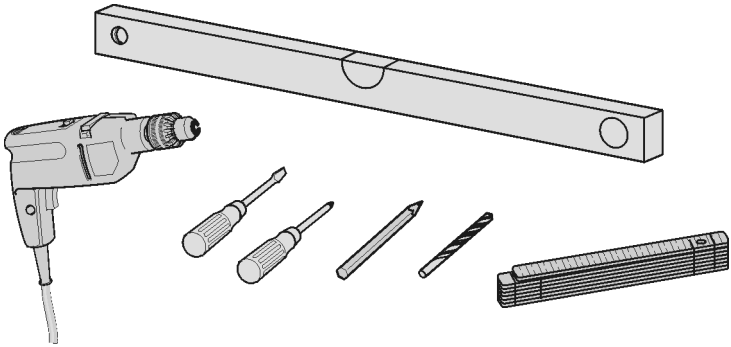
To ensure proper and reliable operation follow these guidelines when setting up your system:

- 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 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.

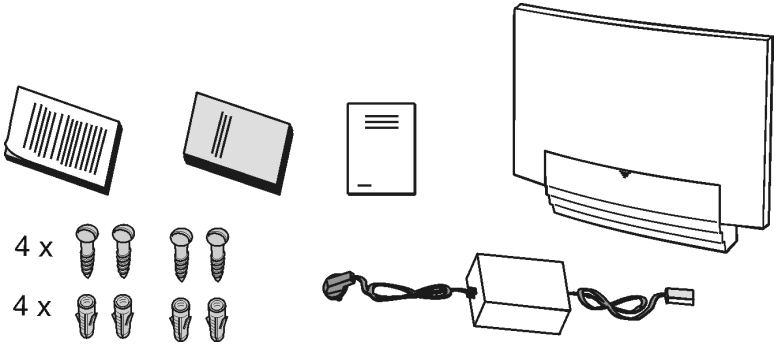
Warning: Only service and installation personnel should open the PABX box and/or connect and handle trunk and extension lines.

Required Tools



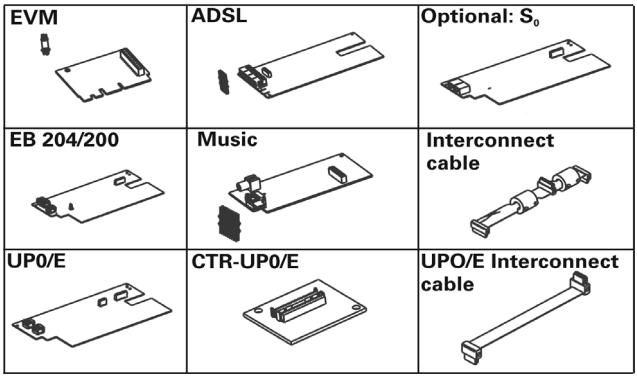
HiPath 1120

Package Contents

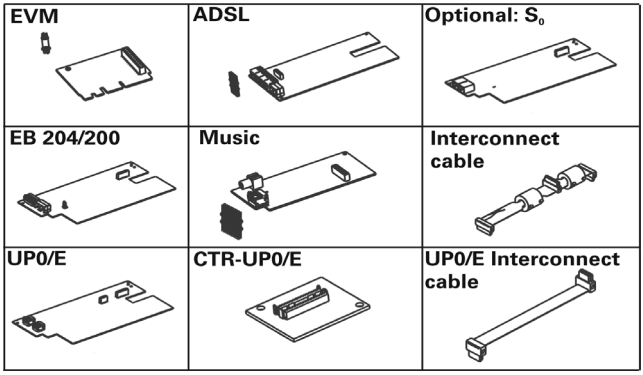


Option modules

1

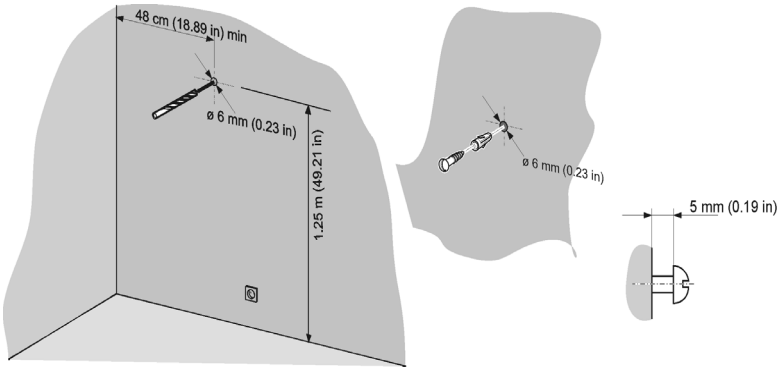


2 **Version CND**



Setup and Installation

1



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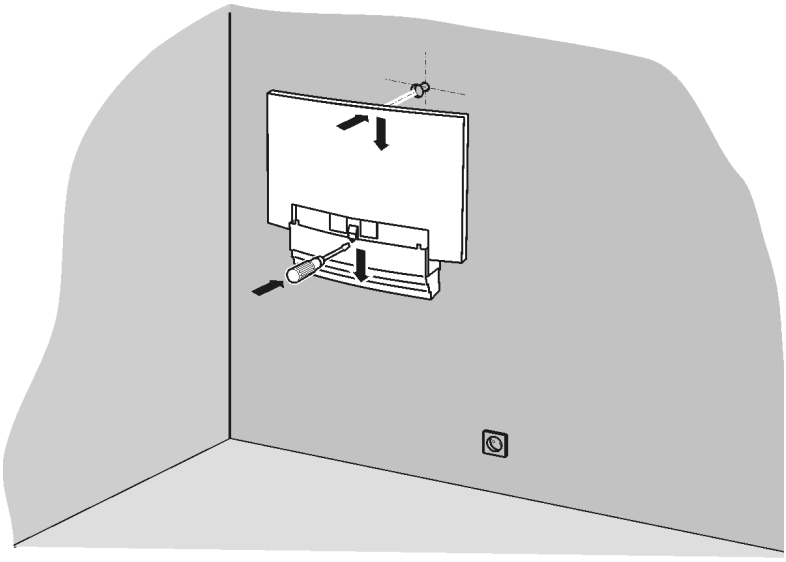

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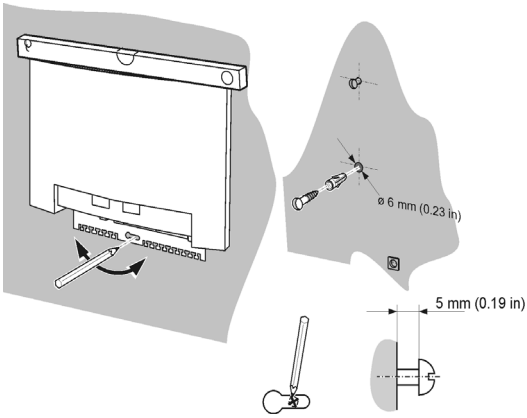

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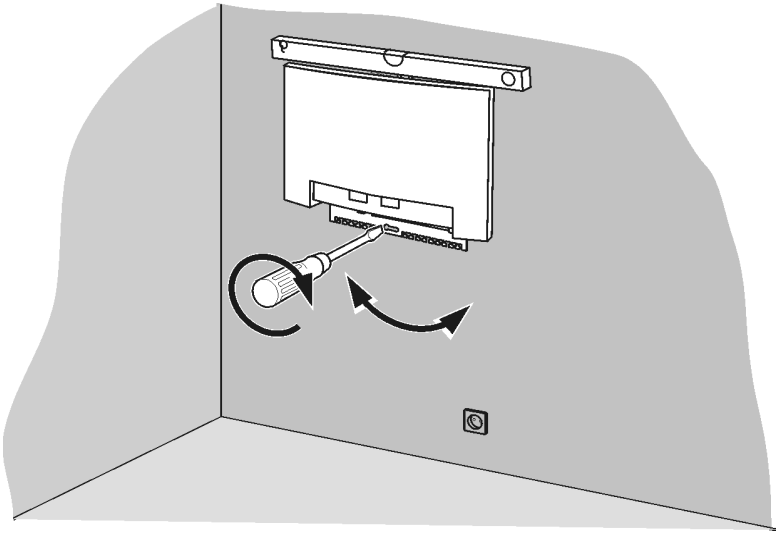

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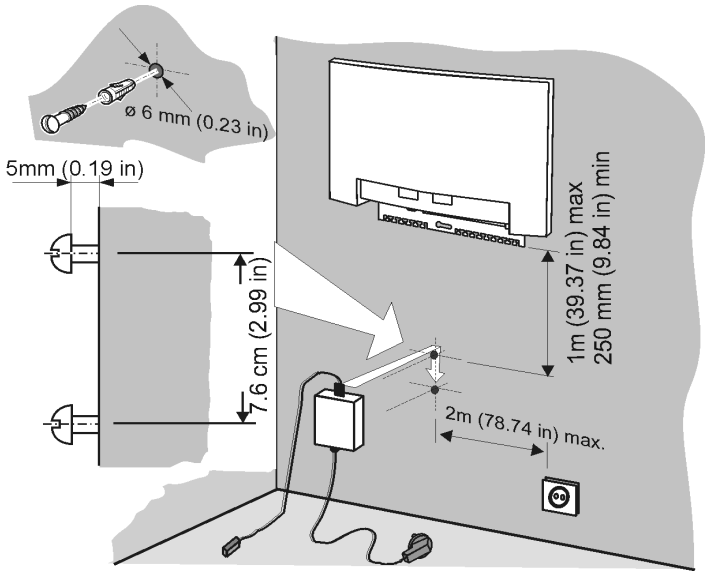
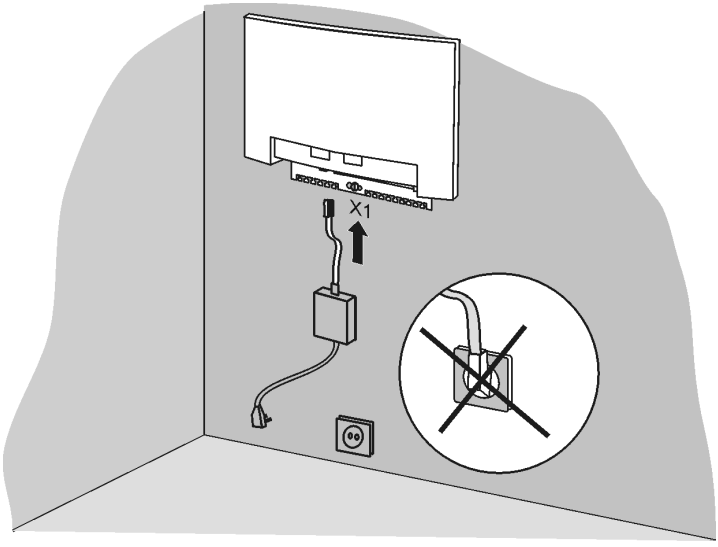
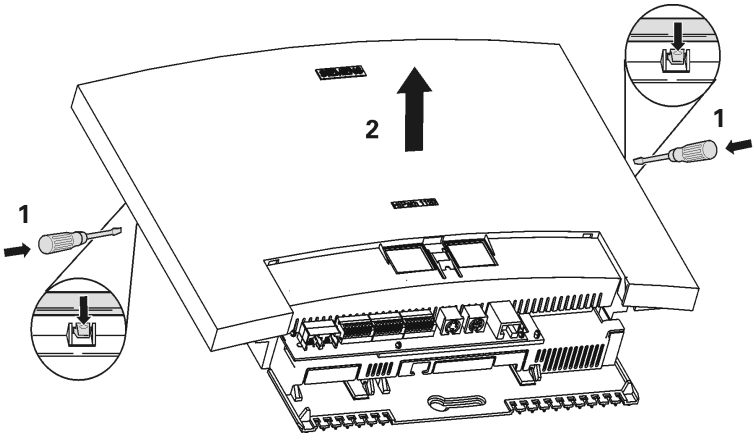

ø 6 mm (0.23 in)
5mm (0.19 in)
7.6 cm (2.99 in)
1m (39.37 in) max
250 mm (9.84 in) min
2m (78.74 in) max.

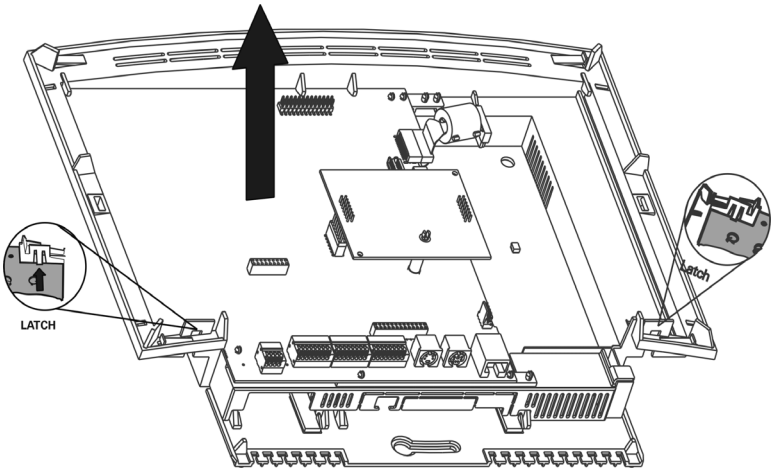
6

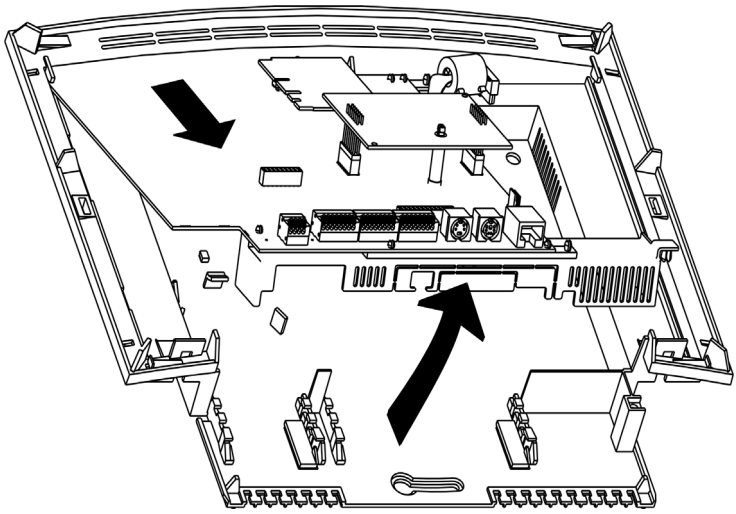

X1

7 Opening the System

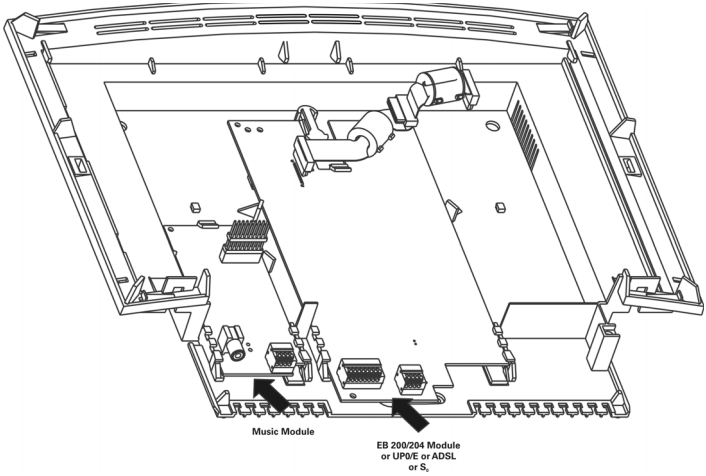


8 Removing the Motherboard (MB)





9 Satellite Modules: Music, EB 200/204 and S_0



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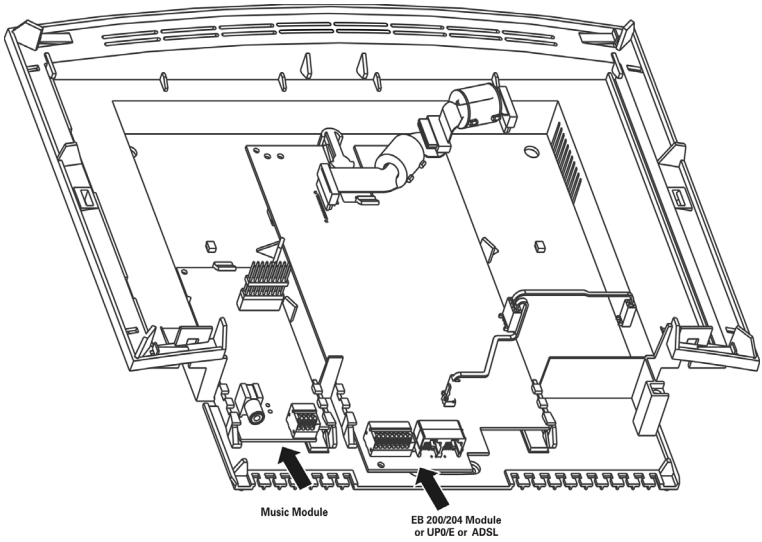
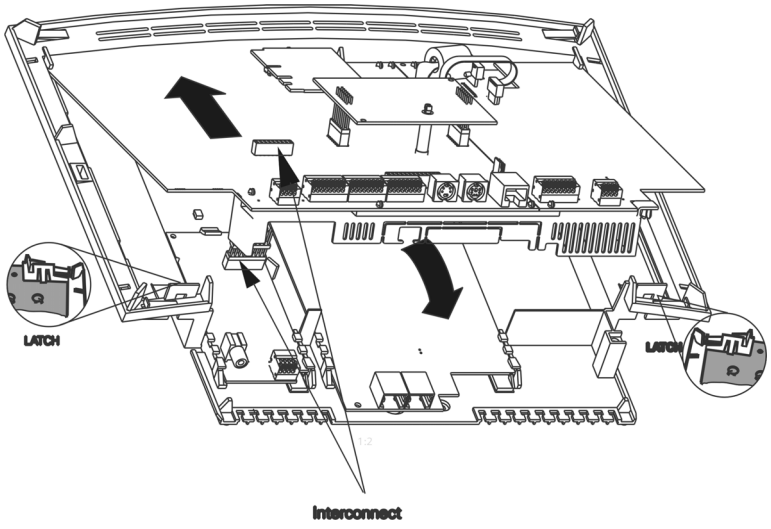
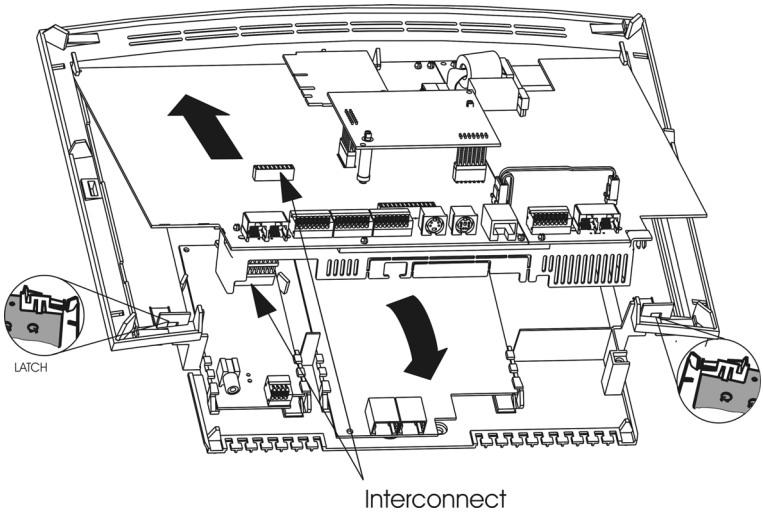


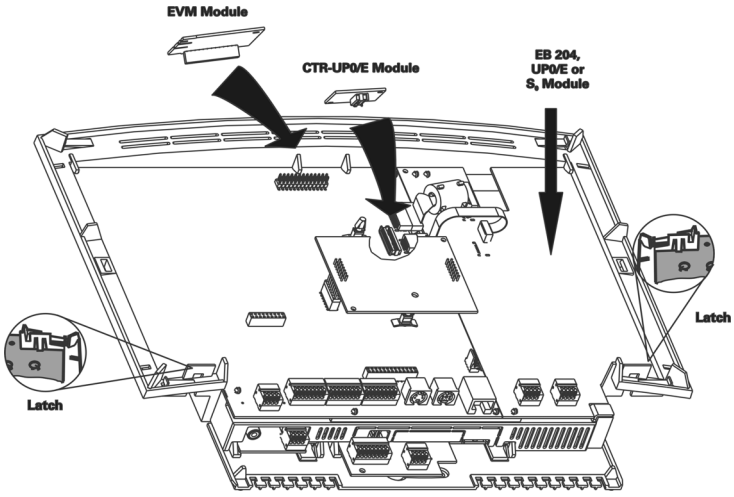
10 Master and Satellite Modules



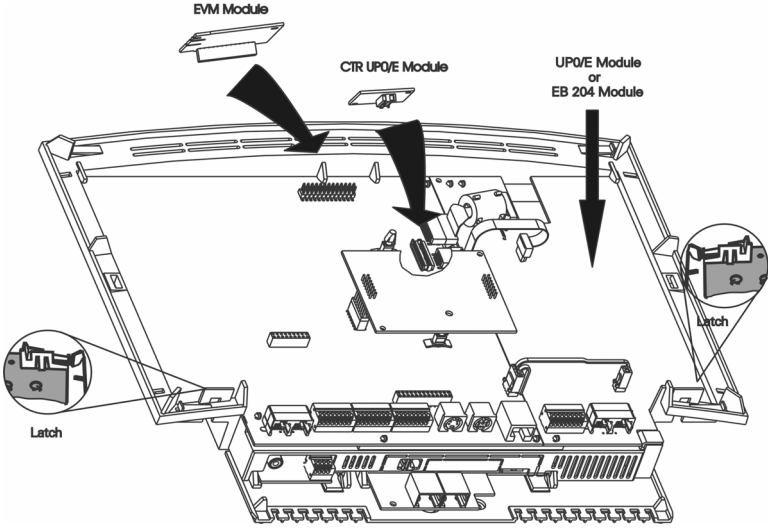
Version CND



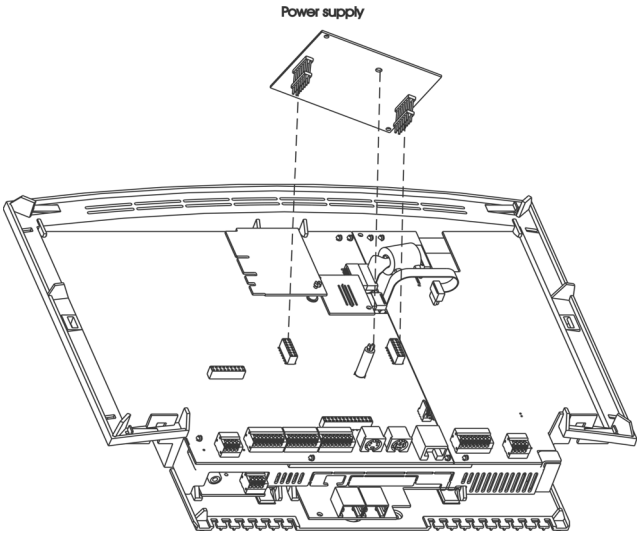
11 CTR-$U_{P0/E}$, $U_{P0/E}$, EVM e EB 200/204 Master Modules



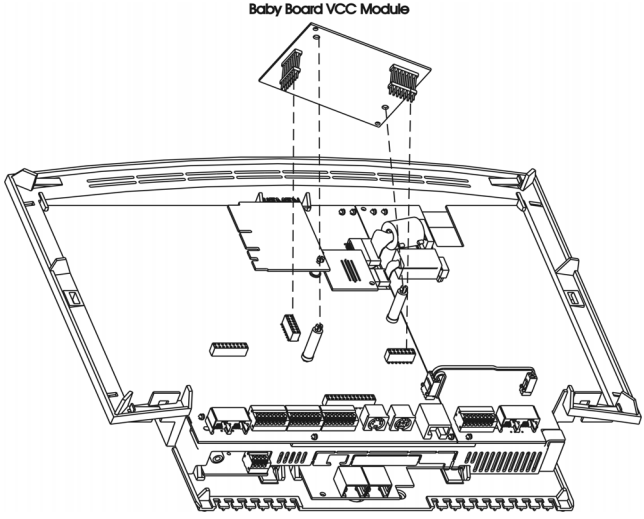
Version CND



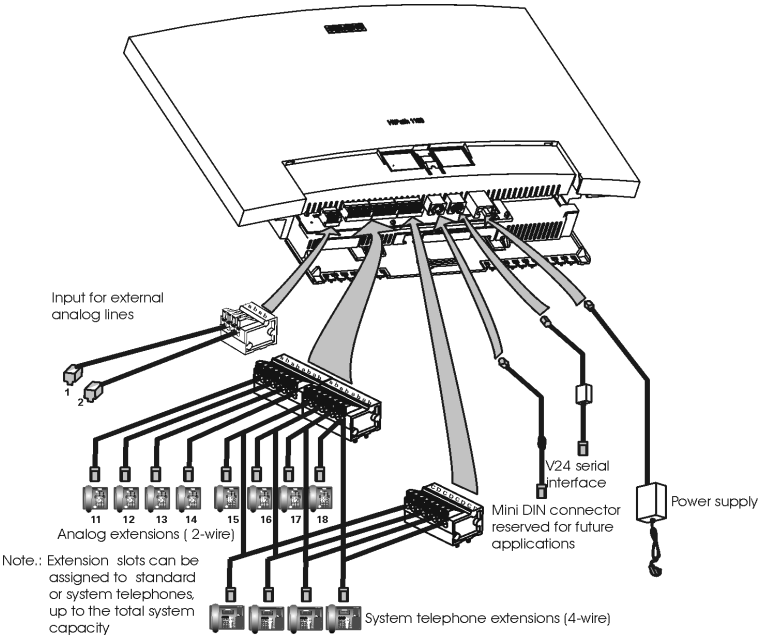
12 Baby Board VCC Module

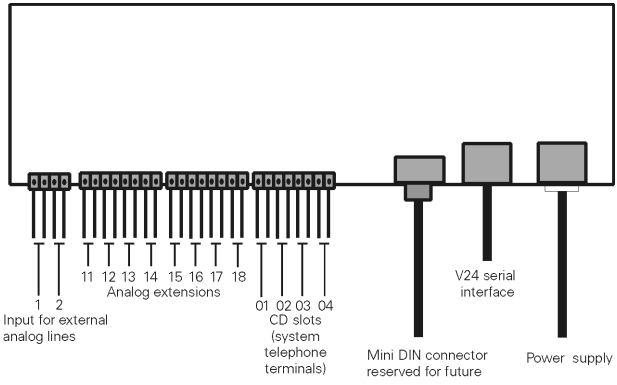


Version CND

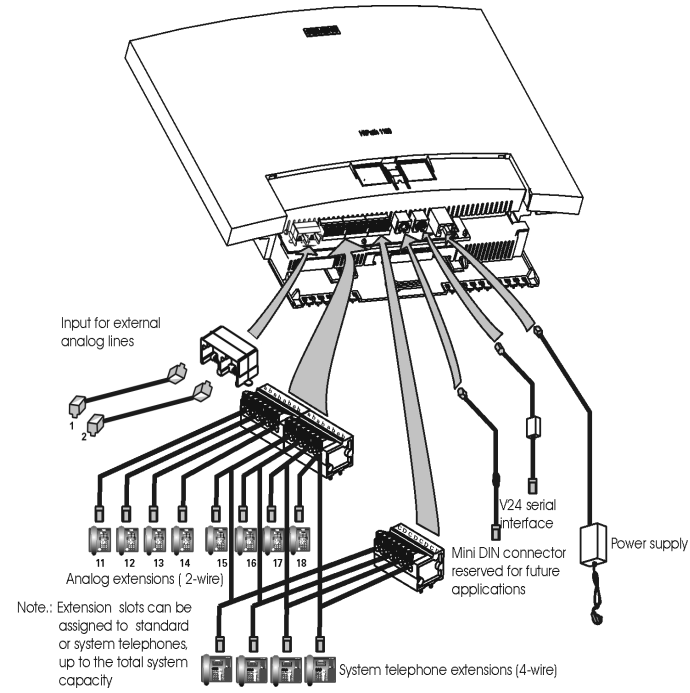


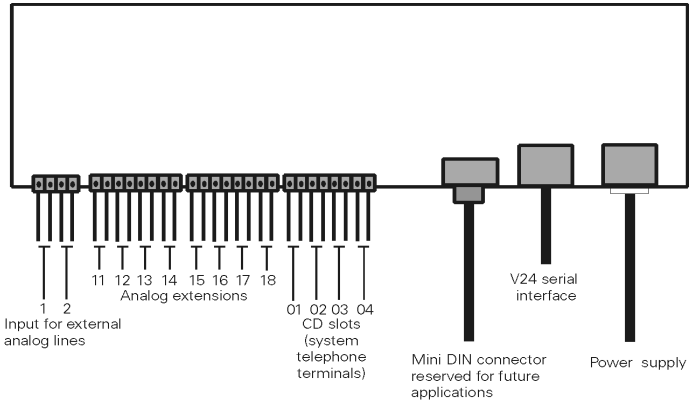
13 Motherboard (MB) Connections



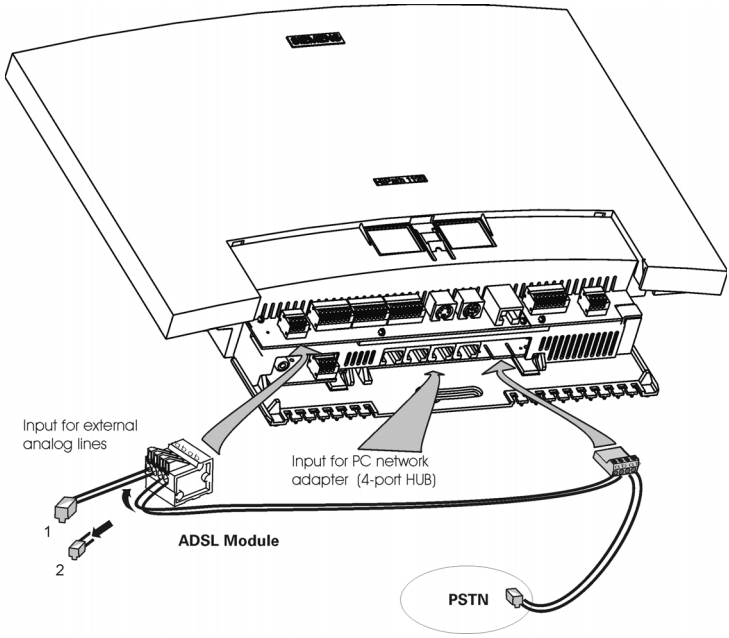


Version CND

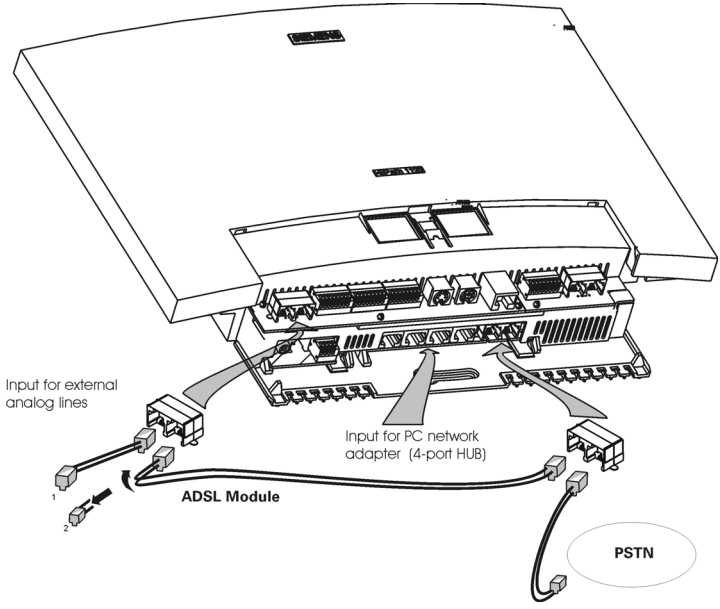

Input for external
analog lines
1
2
11
12
13
14
15
16
17
18
Analog extensions (2-wire)
Note.: Extension slots can be
assigned to standard
or system telephones,
up to the total system
capacity
V24 serial
interface
Mini DIN connector
reserved for future
applications
Power supply
System telephone extensions (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

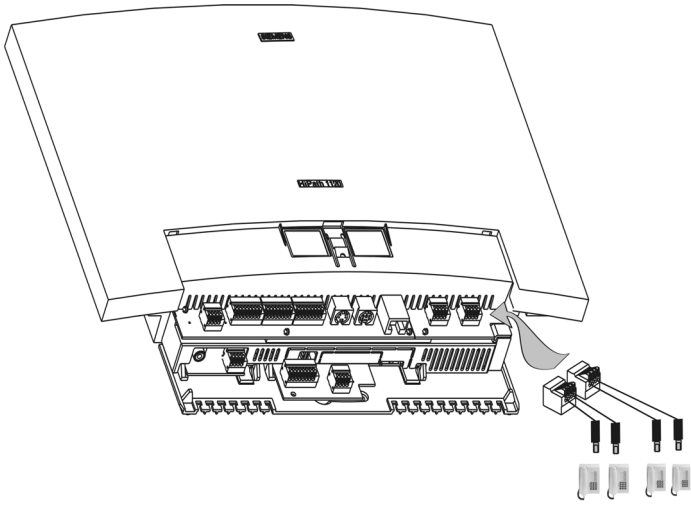
14 ADSL Module Connections



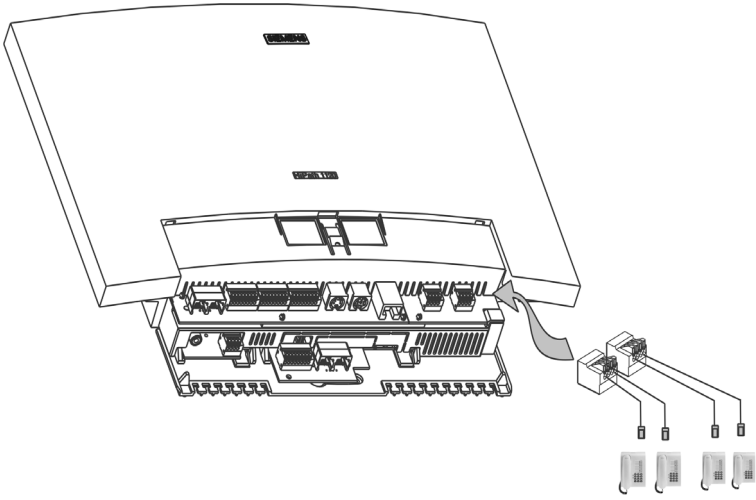
Version CND



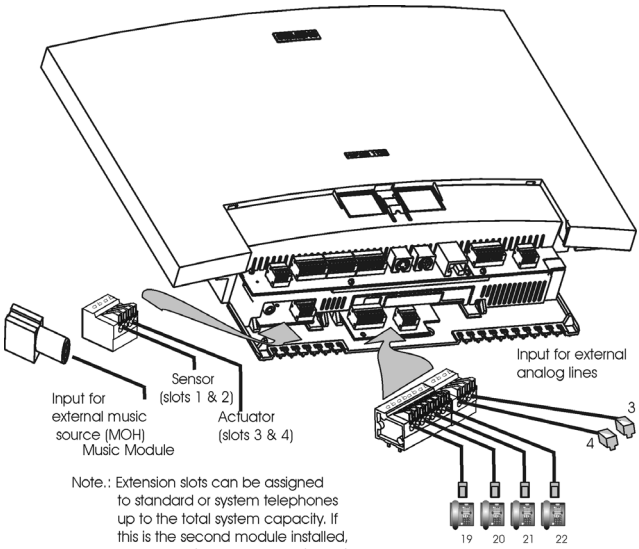
15 $U_{P0/E}$ Module Connections



Version CND

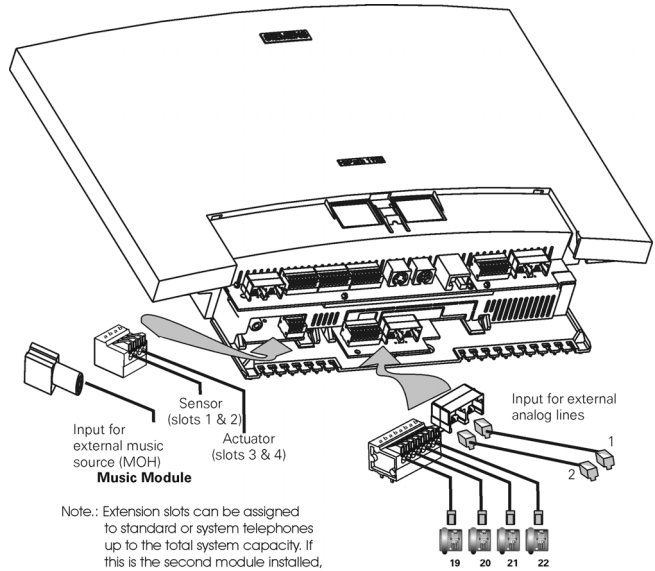


16 Music and EB 200/204 Satellite Modules Connections



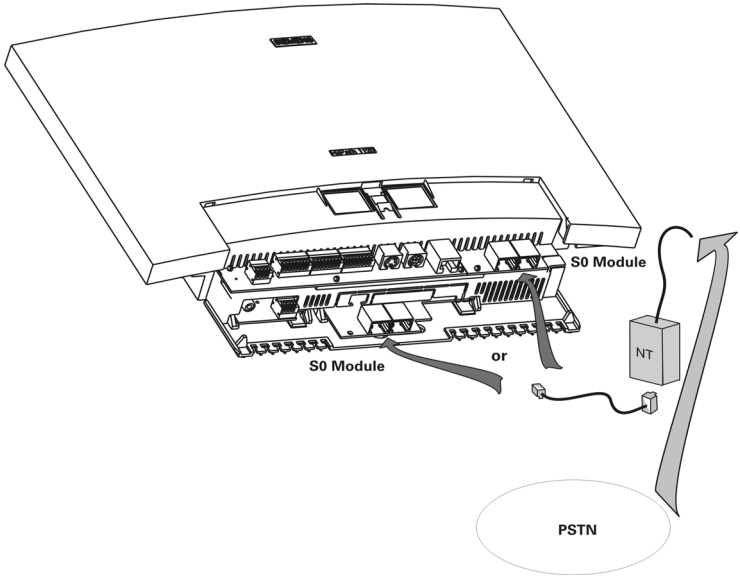
Note.: Extension slots can be assigned to standard or system telephones up to the total system capacity. If this is the second module installed, the numbering of the extensions will be changed (e.g., 23 to 26). The same occurs for external lines.

Version CND



Note.: Extension slots can be assigned to standard or system telephones up to the total system capacity. If this is the second module installed, the numbering of the extensions will be changed (e.g., 23 to 26). The same occurs for external lines.

17 S_0 Modules Connections

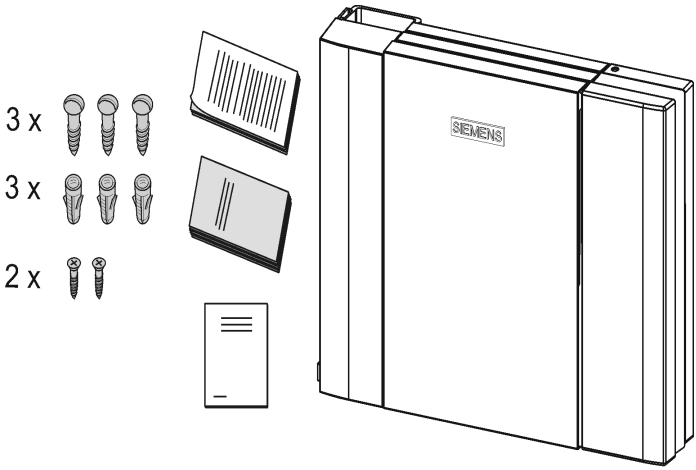


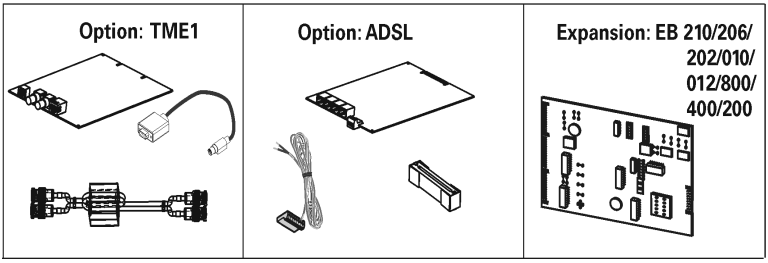
Technical Data

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 1150

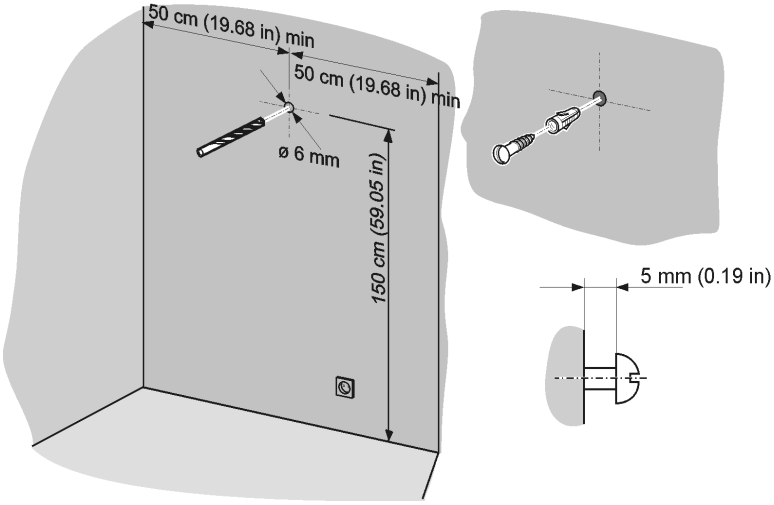
Package Contents



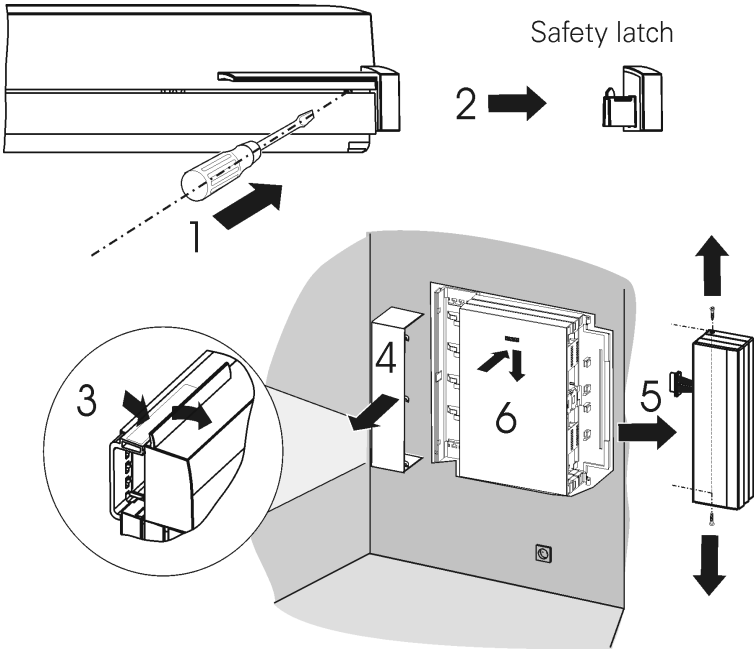


Setup and Installation

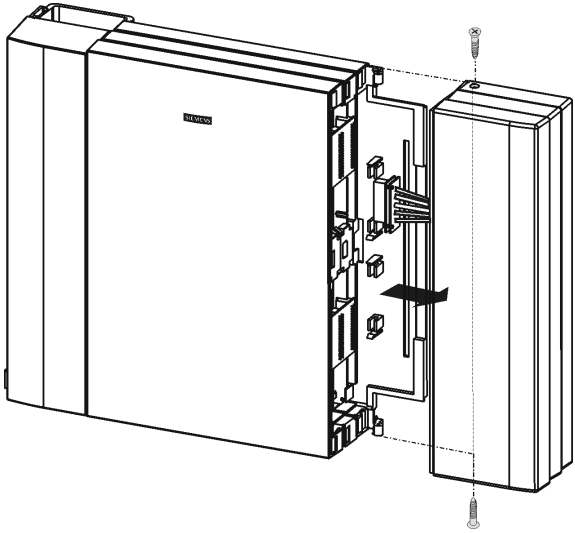
1



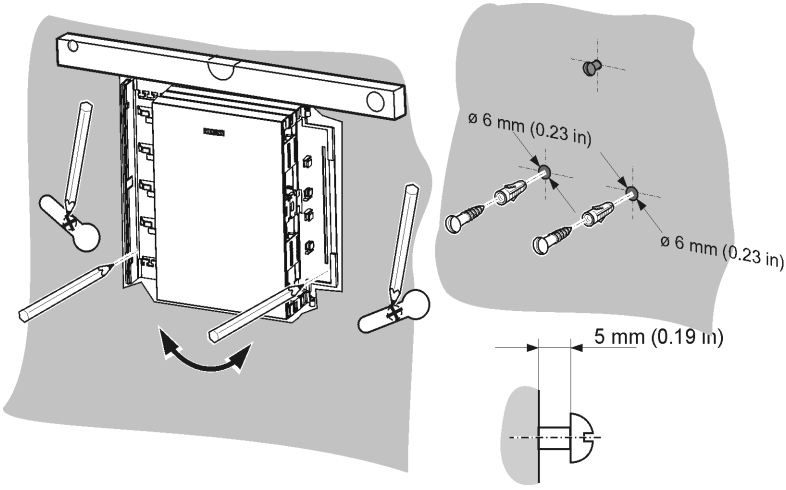
2



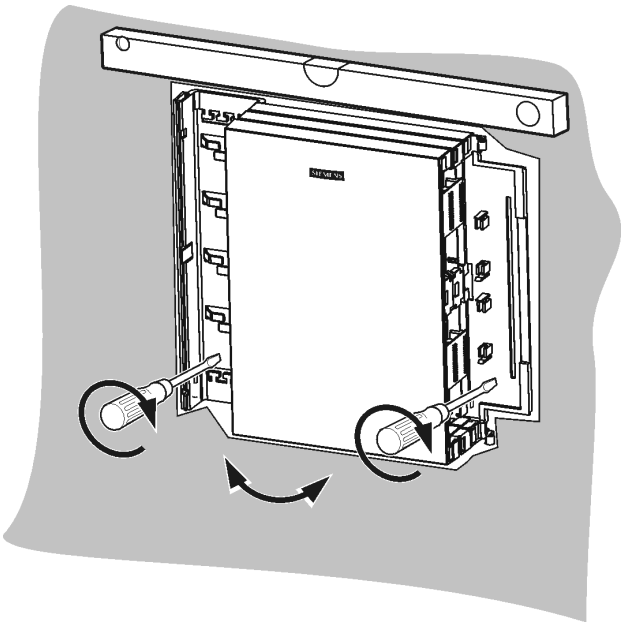
3 Power Supply



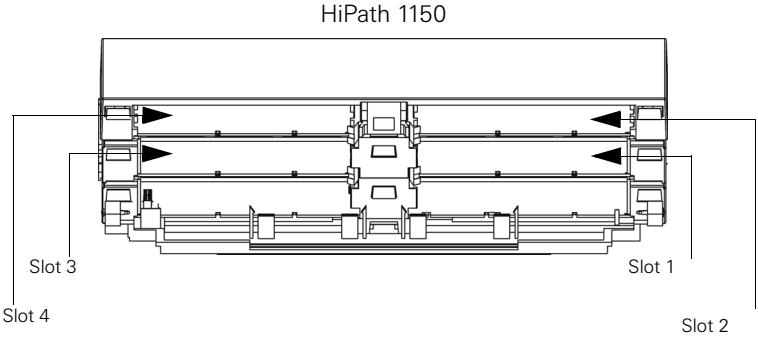
4



5

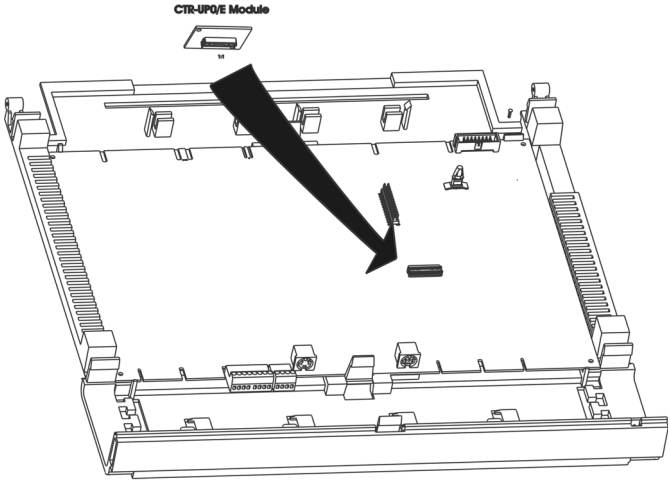


6 View of Module Slots

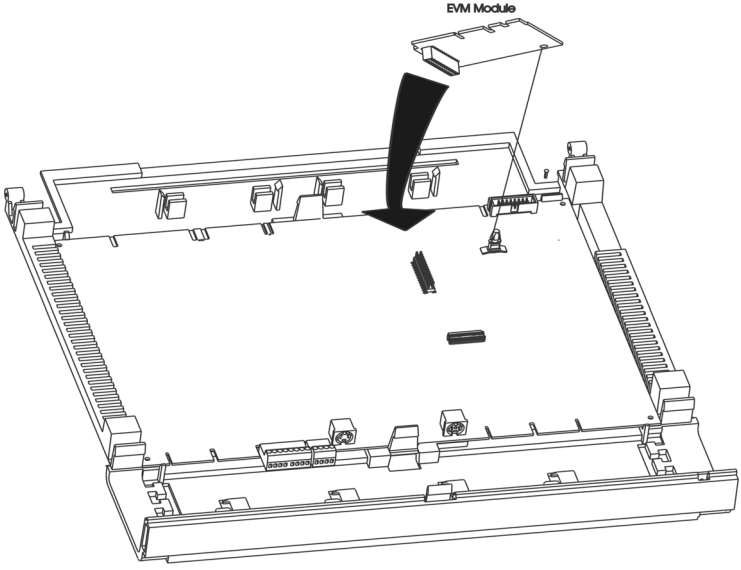


Side view of the power supply

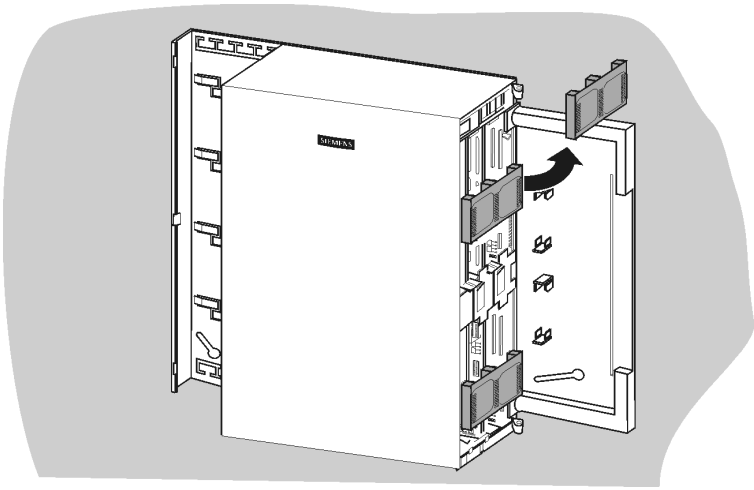
7 CTR-$U_{P0/E}$ Module



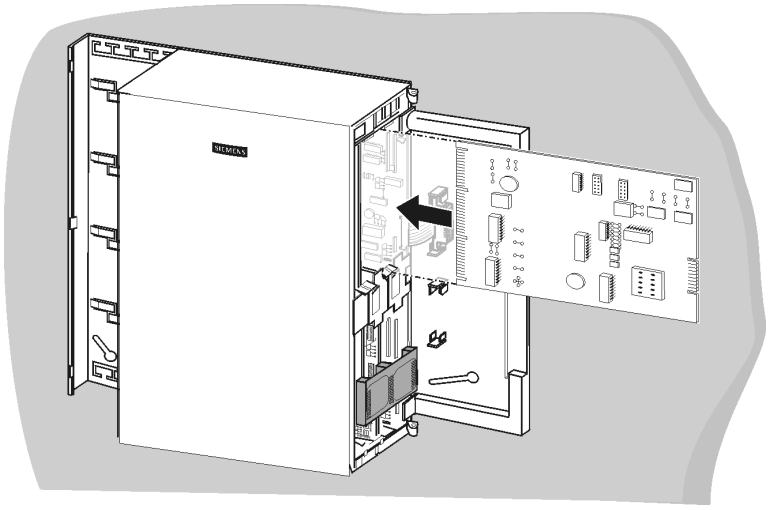
8 EVM Module



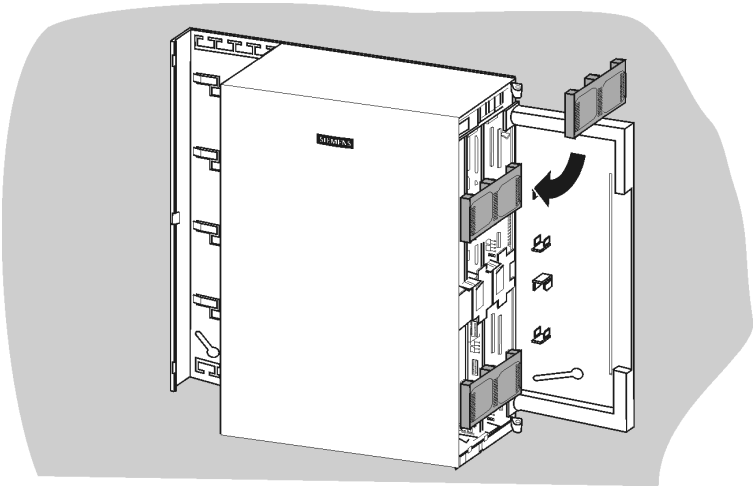
9 Installing Expansion Modules and Options



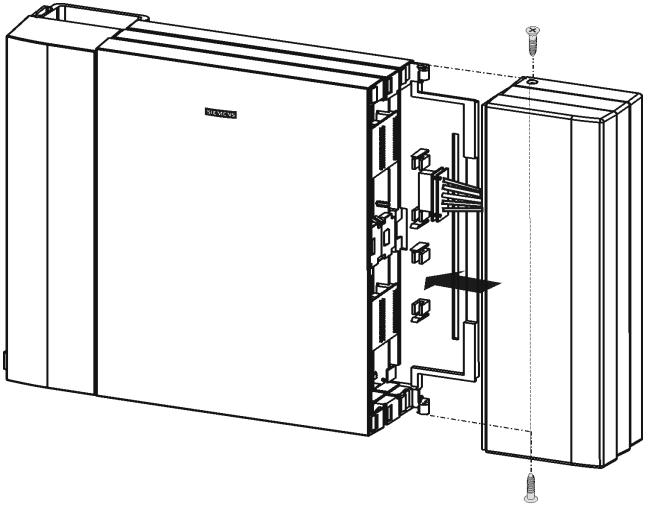
10



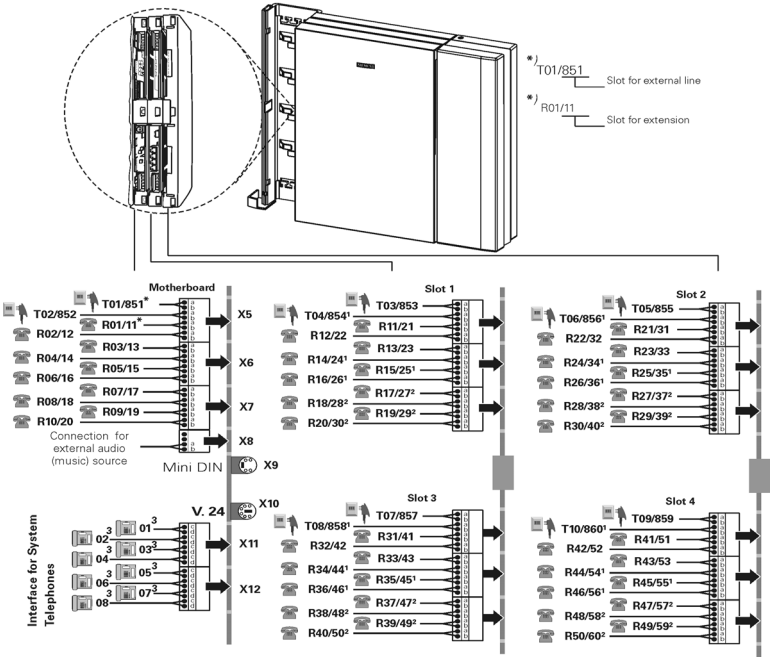
11



12 **Power Supply**

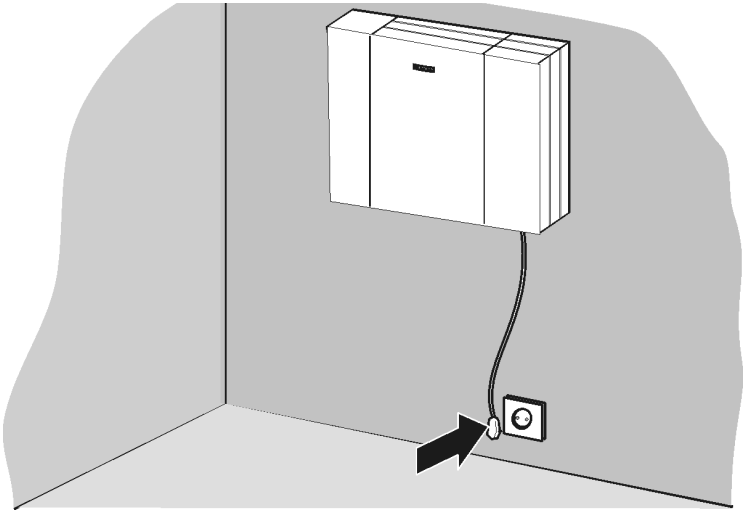


Example of a configuration



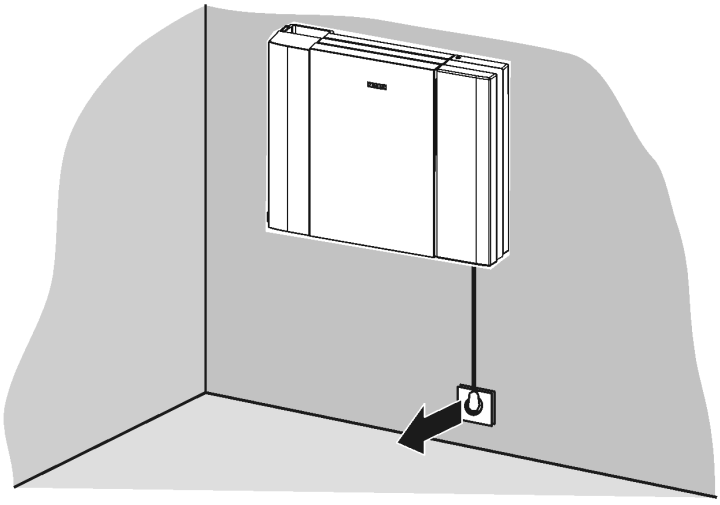
1) EB210/206 Modules only;
2) EB210 Module only;
3) For installing a system telephone you must use a CD pair and an A/B extension slot;

Battery

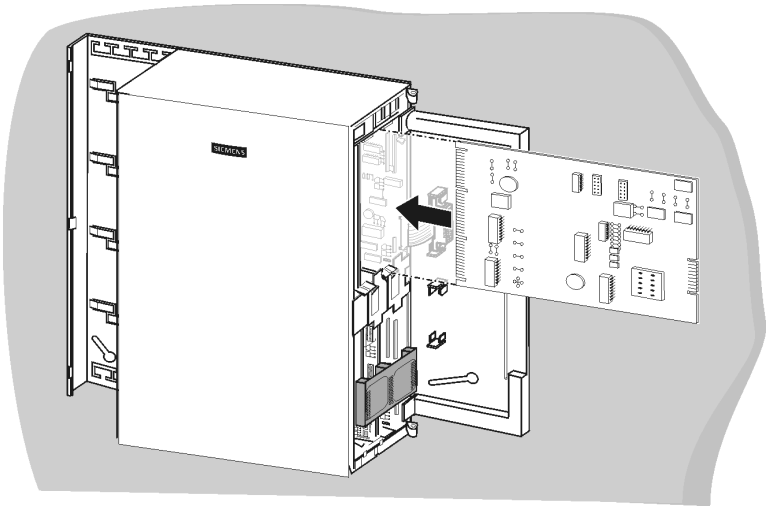


Installing ADSL, TME1, $U_{P0/E}$ and S_0 Modules

1

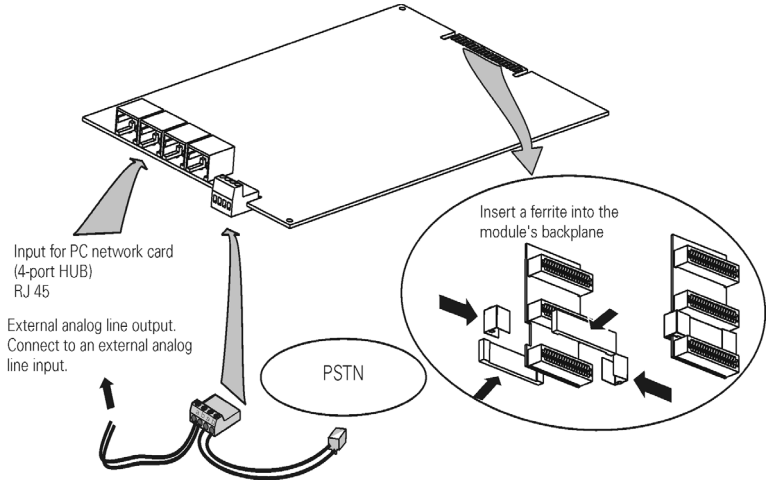


2



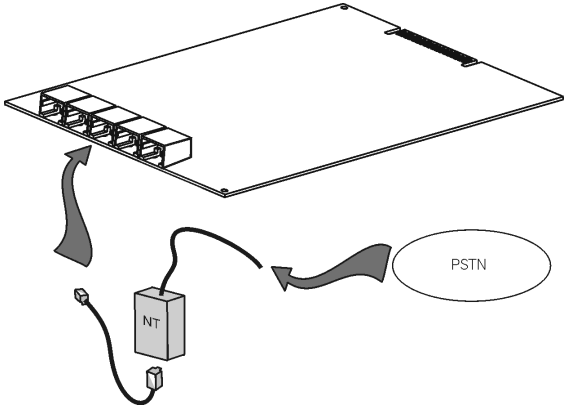
ADSL Module

The ADSL module can only be installed in Slot 3 or 4 on the HiPath 1150 (→ page 206) and in Slot 2 on the HiPath 1190.



S_0 Module

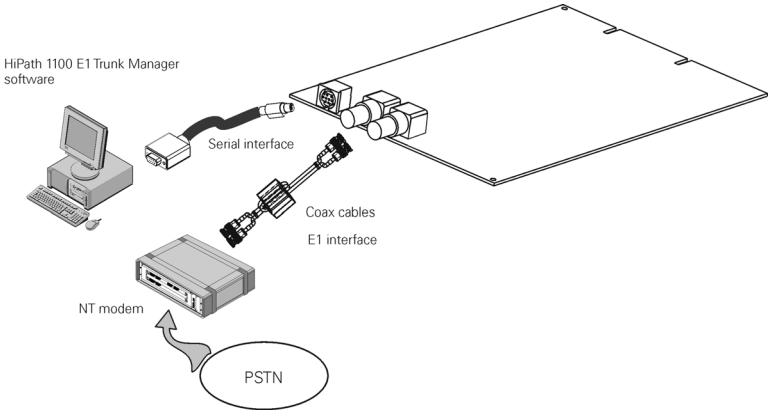
The S_0 module can only be installed in Slot 3 on the HiPath 1150 (→ page 206) and/or Slot 1 or 11 on the HiPath 1190.



TME1 Module

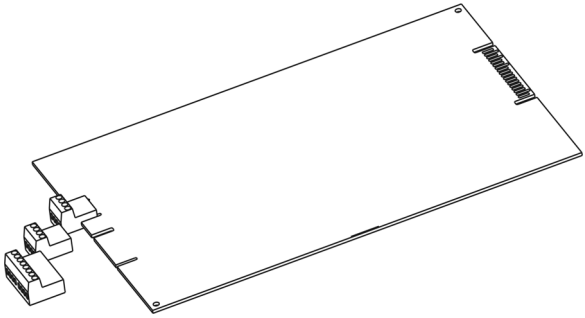
TME1 Module can only be installed in Slot 3 (→ page 206).

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.



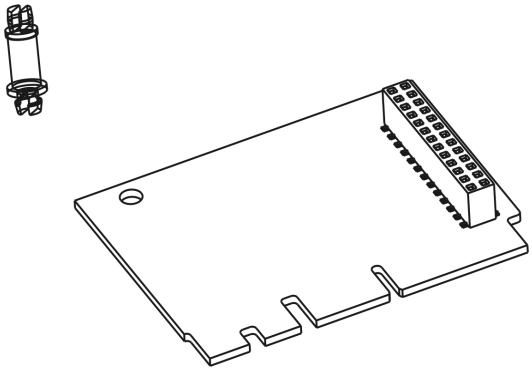
$U_{P0/E}$ Module

For the HiPath 1150 the $U_{P0/E}$ module can only be installed in Slot 1 or 2. In order to use a $U_{P0/E}$ module you must install a CTR-$U_{P0/E}$ module on the MB (→ page 206).



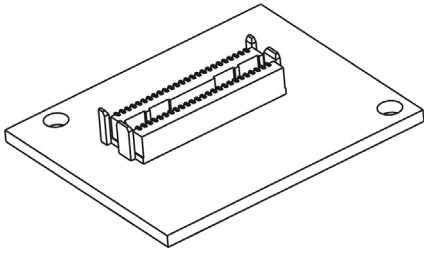
EVM Module

The EVM module is connected to the MB of the HiPath 1150/→ page 206/ systems.



CTR-$U_{P0/E}$ Module

The CTR-$U_{P0/E}$ module is connected to the MB on HiPath 1150/ → page 206/ systems.

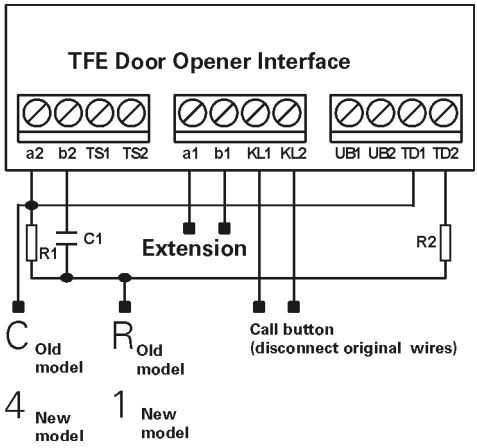


Technical Data

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 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
Battery:	
Type:	Valve-Regulated Lead Acid (VRLA)
Connections:	Faston connector
Voltage:	27.2V (two 12V batteries in series)
Capacity:	9Ah to 12Ah @ C20

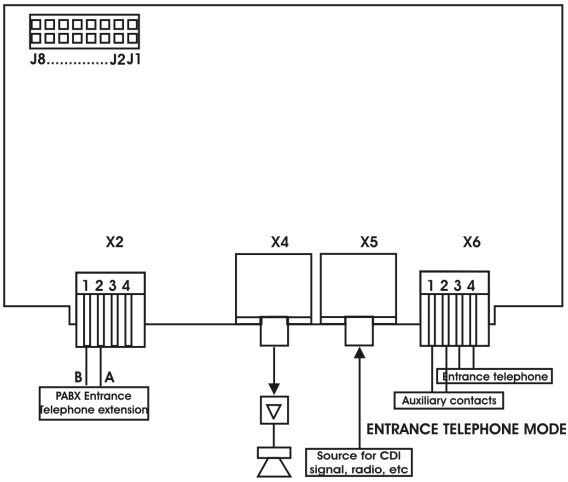
Entrance Telephone

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

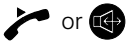
2.1 Settings

- **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

Considerations

- 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.

Summary of Programming Codes

Start the Programming Mode:  * 9 5 Password: 31994 + Code

Programmed Function	Code	Default Settings
Main Configurations → page 20		
Dialing Mode on an External Analog Line → page 24	119	2 (MF) for analog lines
Default Access to a Group of External Lines → page 24	002	0 for all extensions
Analog Line Attendants → page 25	142	None
Speed Dialing → page 27	112	All slots are empty
Denied List → page 28	123	Default Permission and Denied Lists → page 31
Permission Lists → page 30	124	
Permission for using the numbers in the Speed Dialing phonebook without a COS review. → page 33	072	# (disabled)
Assigning a Class Of Service (COS) → page 34	111	77 (for all extensions)
Special Class of Service for a Blocked Extension → page 35	096	0 (for all extensions)
COS Changeover → page 36	178	# (blocked)
Language → page 20	164	3 (for all systems)
Country/Group of Countries → page 21	165	01(Brazil)
Attendant Console (AC) → page 36	150	None
Carrier selection mode: LCR or ACS → page 37	225	* (enabled)
Warning Tone for Calls without LCR → page 38	092	# (disabled)
Programming an External Line → page 41		
Groups of external lines → page 41	156	0 (access to all lines)
Overflow for a Group of External Lines → page 41	099	1 - First 2 - All 3 - None
Configuring Priority by Type of External Line → page 42	194	1 (standalone)
Protocol for Seizing an External Analog Line → page 43	017	2 - Canada 1 - Other countries
Caller ID for Analog Lines → page 43	005	Depending on the country
External Line Call Direction → page 44	155	1 - Bi-directional

Programmed Function	Code	Default Settings
Flash Duration on an Analog Line → page 45	118	Depending on the code "19" and "65"
Reseizure time for an external line → page 45	129	1 (0.5 seconds)
Maximum time between rings for an incoming call → page 46	117	13 - Argentina 06 - Other countries
Coefficient for an External Analog Line → page 46	147	1 (for all lines)
Type of Answering Signal → page 47	158	# (disabled)
Dial Tone Detection → page 48	160	* (enabled)
Operation as a Satellite PABX External Line Connection → page 49	133	1 - For a public exchange
Operation as a Satellite PABX Second Code for External Access → page 50	134	0
False tone → page 50	063	# (disabled) - Argentina and India * (enabled) - Other countries
Internal Access Code for Automatic Seizure → page 51	226	Depending on the country
External Line Present → page 51	079	* (enabled)
Timeout for a Second Attendant to answer a call on an external analog line → page 52	083	06 (30 seconds)
Programming an Extension → page 53		
Pickup Groups → page 53	143	None
Call Groups (CG) → page 54	13	10 first extensions
Call Forwarding within a Call Group (CG) → page 55	222	# (disabled)
Alert Ring Timeout for Pickup Groups → page 54	035	* (disabled)
UCD Subscriber Groups → page 56	037	# (disabled)
Caller ID by Name/Number → page 66	039	1 - Name and Number
UCD Subscriber Groups → page 56	023	None
Collect Call Barring for a UCD Subscriber Group → page 57	007	# (disabled)
Message Waiting for UCD queue → page 58	024	External Music Source
UCD Queue Size → page 58	025	99 slots
Timeout for Activating a Call Waiting Message for a UCD Queue. → page 59	026	00 (0 seconds)

Programmed Function	Code	Default Settings
UCD Overflow Call Destination → page 59	027	None
Round-robin Distribution of Calls to Agents → page 60	028	* (enabled)
Time for Agent's Notes → page 61	029	00 (0 seconds)
Ring Signal Timeout for Agents → page 61	030	06 (30 seconds)
Time in a UCD Queue → page 62	031	12 (1 minute)
Waiting Message before Signaling a UCD Call → page 63	032	# (disabled)
Minimum Time for Call Waiting Message in a UCD Queue → page 63	033	01 (5 seconds)
Hunt Groups (HG) → page 64	021	None
Call Forwarding within a Hunt Group (HG) → page 65	223	# (disabled)
Search Mode for Hunt Groups → page 65	022	1 - Linear
Override → page 67	44	0 - No permission
Silent Monitoring → page 67	046	# (disabled)
Caller ID for Analog Extensions (CLIP) → page 68	010	0 - No repetition
Electronic Lock Password → page 70	126	00000
Timeout for Call Forwarding - No Answer → page 70	130	6 (30 seconds)
Call Forwarding condicional limitado por Extensions → page 71	097	5
Permission for Conditional Call Forwarding → page 72	098	# (disabled)
Dialing Mode → page 74	168	0 - Automatic identification
Flash Detection Time → page 74	131	035: Portugal, Argentina and Thailand 028: Other countries
Overflow extension → page 75	132	1 - No Answer: none 2 and 3: the first extension on the system
Hotline → page 76	145	None
Warmline → page 77	162	0 seconds
Associated Group → page 78	151	None

Programmed Function	Code	Default Settings
CD Port Assignment → page 79 (for System Telephones)	146	HiPath 1120/1150: 1st - 11, 2nd - 12, ... etc. HiPath 1190: None
Extension Coefficient → page 80	148	1
Activating External Message Waiting Indicator → page 81	014	# (disabled)
External MWI Group → page 81	015	None
Waiting Message Server Number → page 82	065	None
Collect Call Barring by Extension → page 82	193	# (disabled)
Type of equipment connected to an extension → page 83	003	0 - Normal
Auto-Answering Mode → page 83	034	# (disabled)
Pulses for Call Charges on an Analog Extension → page 84	041	# (disabled)
Timer for Outgoing External Calls → page 84	047	36 - (180 seconds)
Activating/Deactivating the timer for outgoing external calls → page 85	048	# (disabled)
Timeout for a Second Attendant for MSN → page 85	082	06 (30 seconds)
Modem Extension → page 86	085	None
MSN Extension Assignment for Outgoing External Calls → page 86	086	None
External-to-External Transfer → page 87	091	# (disabled)
Elapsed timeout for external-to-external connection → page 88	218	# (disabled)
Configuring a Timeout for an External-to-External Connection → page 88	219	1 hour
Disconnect timeout after and external-to-external transfer (Code 183) → page 89	183	300 seconds
Code for a disconnect timeout after and external-to-external transfer. → page 89	184	00
Transfer when Extension is Busy → page 90	217	* (enabled)
Auto-Seizure Mode for an External Line → page 91	036	# (disabled)
Hide Group Prefix → page 69	188	# (disabled)
DISA → page 91		
DISA Permission → page 92	018	# (disabled)

Programmed Function	Code	Default Settings
MSN DISA → page 92	019	None
External Line DISA → page 93	020	1 - Never
General Programming → page 94		
Music on Hold → page 94	136	3 - Internal
Assigning Extensions to MOH Groups → page 95	087	None
Music source for a MOH Group → page 95	088	0 - No music
Music Source Extension → page 96	089	None
External Music Source - Extension Assignment → page 96	064	None
Setting the Time for an external Room Monitor → page 97	169	10 seconds
Interdigit Pause Time Setting → page 97	227	2 seconds
Types of Caller Lists → page 98	049	2 - Internal and external
Deleting digits from the Caller List → page 99	171	None
Date/Time - Manual Setting → page 99	114	DD.MM.YY HH:MM
Automatic Update of Date/Time → page 100	038	* (enabled)
Recall for external calls via ISDN → page 100	221	* (enabled)
Call Charge Unit → page 101	195	Slot 0, Factor 00001
Multiplier for Call Charge Factor → page 102	042	001 - Value: 1
Extension Call Charge Factor → page 102	043	1 - Default
Call Charge Value by Extension → page 103	197	Slot 0, Factor 00001
Call Cost Limit for an Extension → page 103	044	# (disabled)
Date for Updating the Call Cost Limit for an Extension → page 104	045	* (disabled)
SW Information → page 104	001	
Local SW Update → page 105	060	
Activating a Software Update → page 105	055	# (disabled)
Day for SW Update → page 105	054	Day 01
Time for SW Update → page 106	058	00:00
External Number for Updating the Software → page 106	056	None
SW Update Schedule → page 106	057	01 - Monthly
Uploading the SW update → page 107	059	00:00

Programmed Function	Code	Default Settings
Setting a System Password → page 107	180	31994
Night Service Password → page 108	149	31994
Restoring Default Settings → page 108	199	
HiPath 1120 Alarms → page 109		
Emergency Numbers → page 109	040	190 and 193 (Brazil)
Module Detection → page 111	061	00 - all slots
Service Call → page 112	*994	
Remote Software Update → page 112	*9415	
Remote Operation Mode → page 112	084	1 - Via ISDN
Activating Remote Administration → page 113	066	# (disabled)
Configuring an External Number → page 113	067	None
Remote Administration Password → page 114	068	None
Remote MSN → page 114	069	None
Without MSN Verification → page 115	070	# (disabled)
Remote Administration via DTMF → page 115	157	* (enabled)
Ending Remote Administration → page 116	196	
Type of MSN Signal → page 116	073	Type 1
Assigning a Temporary MSN → page 117	093	None
MSN Identification Mode → page 118	224	None
Remote Administration Password through an MSN → page 118	220	None
Entrance Telephone → page 119		
Entrance Telephone Configuring an Entrance Telephone → page 119	115	# (disabled)
Entrance Telephone Door Lock → page 120	116	# (disabled)
Entrance Telephone DIDs for Entrance Telephones → page 120	159	Extension 11/101
Entrance Telephone Permissions for a Door Opener → page 121	125	All extensions
Call Detail Report Manager → page 122		
Ticket Cost Code → page 125	095	# (disabled)
Data Transfer Speed → page 125	120	3 - 19200 baud

Programmed Function	Code	Default Settings
Digit Suppression in Call Detail Reports → page 126	121	0
Call Detail Report for Incoming Calls → page 126	161	1 - Outgoing/Incoming
Call Detail Report Filter → page 127	167	None
Call Detail Report through Serial Interface → page 127	006	# (disabled)
Fax/DID → page 128		
Call Answering Menu → page 129	009	None
Announcement Recording → page 130	137	
Configuring the Call Answering Mode → page 132	127	0 - For all external lines
Fax Reception Extension → page 133	128	None
Collect Call Barring for Fax/DID → page 134	008	# (disabled)
MSN Answering for Fax/DID → page 135	080	0 - Module is deactivated
Fax Extension for MSN → page 135	081	None
Activation of Fax/DID after a Timeout → page 136	094	06 (30 seconds)
Programming a Digital Trunk → page 137		
S0 Ports → page 137	062	1 - External line and extension
S0 Line Operation Mode → page 139	190	1 - For the first PP port 3 - For all others: S_0 BUS
Symmetric/Asymmetric Call → page 140	074	* (enabled)
Absence of ACK Setup for a S0 Line → page 140	075	# (disabled)
Notify → page 141	076	* (enabled)
Automatic Keypad → page 141	077	# (disabled)
Assignment of an external ISDN line to a MSN → page 142	078	All assigned
External Line Prefix → page 148	189	None
External Number Registration → page 149	191	None
Automatic MSN Assignment via Local Carrier → page 150	192	None
Busy Signal → page 151	004	None
Local Area Code Filter → page 152	011	None
Country Area Code Filter → page 153	012	55 - Brazil
Call Deflection → page 144	229	# (disabled)

Programmed Function	Code	Default Settings
ISDN Layer 1 → page 145	101	Depending on the country
ISDN Layer 2 → page 145	102	Depending on the country
B Channel → page 146	103	Depending on the country
ADSL Module → page 154		
Restoring the ADSL Module Default Settings → page 154	013	IP 10.0.0.1
EVM Module → page 155		
Message Duration → page 156	200	02
Mailbox Language → page 156	201	06 for Brazil and Portugal
Maximum Number of Auto-Configurable Mailboxes → page 158	202	12
Mailboxes Assignments → page 158	203	None
Mailbox Password → page 159	204	1234
Mailbox Recording Activation → page 159	205	# (disabled)
Type of Mailbox Greeting → page 160	206	1
Mailbox Greeting Configuration → page 160	207	1
Message source → page 161	208	None
Message Mode → page 161	209	1
Message for MSN → page 162	210	None
System number → page 162	211	None
Type of system number → page 162	212	1- Other countries 3- Italy
Type of Voice Mail → page 163	214	1
Voice Mail Group → page 163	215	None
Mailbox Assignment for Auto-Answering Mode → page 163	216	None
Audio Quality → page 164	228	2
Message/Greeting for an External Analog Line → page 164	230	None
Audio Quality → page 164		
Programming the Sensor's Function → page 165	170	0 - deactivated
Sensor Activation Logic → page 166	174	0 - NC
Time between Attempts for Activating the Sensor → page 166	050	03 (3 minutes)

Programmed Function	Code	Default Settings
MSN Assignment for the Sensor → page 167	051	None
Number Dialed by Sensor Activation → page 167	052	None
Number of Attempts for Activating the Sensor → page 168	053	001 (1 attempt)
DTMF signals for the Relay → page 168	177	None
Sensor Message → page 169	213	None
Relay → page 169	175	Switch
Timer for deactivating the relay → page 170	173	002 (1 second)
External Ring for Activating the Relay → page 170	071	None

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