

# Information

HiPath Xpressions Compact V2.5 allows your company to carry out daily telecommunication in a flexible and speedy manner. It ensures that you can be contacted by telephone round the clock. Voice mail is a standard function in today's PABX systems.

**HiPath Xpressions Compact V2.5  
Integrated Voice Mail  
for HiPath 3000/5000 RSM**

HiPath™ Xpressions Compact is the leading integrated voice mail solution for HiPath 3000/5000 RSM. The scope of features offered by HiPath Xpressions Compact is optimized for HiPath 3000/5000 RSM.

The following voicebox types and services are implemented:

- Personal mailboxes
- Group mailboxes
- Information mailboxes
- Routing mailboxes
  - Automatic attendant
  - Automatic information service
  - Name selection

## Mailbox Features

### Personal Mailbox

Whether you're conducting a call or are in a meeting, your personal mailbox makes sure that no important calls are lost by accepting them on your behalf.

The personal mailbox lets you welcome your callers with a personalized greeting and invite them to leave a short message. For example:

"Welcome to the mailbox of John Doe. I am not at my desk right now, but if you would like to leave a message after the tone, I will contact you as soon as possible."

Up to four different greetings are available. The greeting used can be selected manually, on the basis of day/night mode, the call type or it can be calendar-driven. You can thus optimize your mailbox to suit your personal schedule.

Using DTMF dialing during the personal mailbox greeting, callers can be forwarded to any chosen extension.

### Group Mailboxes

All sales staff are busy on calls? No problem, the next caller is routed to the HiPath Xpressions Compact group mailbox and is invited to leave a message.

HiPath Xpressions Compact ensures that your customer's query is dealt with promptly because the first free staff member can check and process the new message immediately.

A group mailbox can include up to 20 subscribers. Incoming messages are simultaneously signaled at the extensions of all group mailbox subscribers. Once the last new message has been taken care of, message signaling is terminated at all group mailbox subscribers.

All group mailbox subscribers can continue to operate a personal mailbox, allowing for the ideal separation of group and personal tasks.

## Information Mailboxes

How about telling callers about your current offers, your product range or important new features? All of this is possible thanks to the HiPath Xpressions Compact information mailbox.

With information mailboxes, you can record announcements of up to 20 minutes in length and provide options for scrolling forward and backward within the announcement or temporarily pausing playback.

## AutoAttendant Mailboxes

In addition to inviting your callers to leave a message, the AutoAttendant mailbox gives callers an opportunity to reach you or your colleague directly.

"Welcome to the mailbox of John Doe. I am not at my desk right now, but if you would like to leave a message, please speak after the tone or press "1" to call my mobile phone. Press "2" for assistance from my colleague ..."

The AutoAttendant mailbox features options for recording messages in addition to automated attendant features.

Besides using the AutoAttendant mailbox as a personal mailbox, it can also be used as an ...

### ... Automatic Attendant

Use the AutoAttendant mailbox as an automatic attendant. The basic function of the automatic attendant is called "announcement before answering". Announcement before answering begins with a company greeting. For example

"Welcome to XY. Our attendant consoles are busy right now. Please hold the line."

Instead of listening to the above message informing callers that the attendant consoles are busy and asking them to hold the line, the caller can set up a connection after the greeting, via a caller-controlled for-

warding function using menu options. This function is the fully equipped automatic attendant.

Alternatively, incoming calls can be redirected via the automatic attendant to:

- any chosen extension,
- a user or guest mailbox,
- an information mailbox,
- a random user-specified destination, including external destinations,
- or to the operator.

### ... Automatic Information Service

General information is automatically available via information services.

It is also possible to generate extensive applications with the help of attendant mailboxes. To do this, you can connect a number of AutoAttendant mailboxes in sequence and thus allow the caller to navigate to the required information. Naturally, the caller can redirect to a contact person at any time.

Example:

"For information on our current product range, please dial "1"; if you have questions regarding your order, please dial "2"; if you wish to contact our hotline directly, please select ..."

The integrated calendar function for control of greeting and assigned destinations allows optimized support of and adjustment to the customers' workflows and completes the "Automatic Information Service".

### Name Selection

AutoAttendant mailboxes support name selection. During the greeting announcement, you can start the name selection function and enter the first three letters of the mailbox user's name via DTMF dialing. If the input is unique, the caller is immediately routed to the subscriber. If a number of names start with the letters entered, a list of matching subscribers is displayed and the caller is guided through the selection of his or her contact person by a series of menus.

## General Features

Besides the mailbox-specific features listed, HiPath Xpressions Compact offers a whole range of other features, such as:

- Call Forwarding to Mailboxes,
- Distribution Lists for Voice Messages,
- Message Broadcasting,
- Message Waiting Indicator,
- Notification Call (incl. SMS and pager),
- Caller Callback,
- Fax Call Forwarding,
- Greetings,
- Personal Deputy,
- User Prompts,
- Individual User Languages (Prompts),
- Statistics and Reports,
- Central Voice Mail in Networked HiPath 3000/5000 RSM,
- Access Protection.

## Call Forwarding to Mailboxes

The route taken by an incoming call to reach HiPath Xpressions Compact is set in HiPath 3000/5000 RSM.

The following options are available:

- Redirection of all incoming calls to mailbox, i.e. no calls at extension.
- Call forwarding to mailbox:
  - after a certain number of rings
  - if the “station is busy”.

As soon as a call arrives in the HiPath Xpressions Compact mailbox, the caller hears the mailbox greeting announcement.

## Distribution Lists for Voice Messages

Up to 20 system-wide distribution lists help you in the distribution of voice messages. Whether you forward messages or record specific voice messages, you can use the distribution list to reach your team quickly and effectively.

Every list can include up to 20 destination mailboxes and all authorized mailboxes can send voice messages to distribution lists.

## Message Broadcasting

Provide information on current topics by broadcasting voice messages.

As an authorized user, sending information to all of your colleagues in one fell swoop could not be easier - all you need to do is record a message or forward a received message to all mailboxes.

## Message Waiting Indicator

When new messages are received in your mailbox, a **message waiting indicator (MWI)** is displayed.

Depending on the device type and the HiPath 3000/5000 RSM configuration, the messages are signaled by:

- an illuminated LED,
- a text message in the telephone display of the optiPoint telephone. Starting with HiPath 3000 V5.0 the display also shows the number of new messages.
- the MWI key on the optiClient,
- a special dial tone on optiPoint and non-optiPoint terminals (adjustable: on/off) or
- a notification call.  
Sales representatives/managers who are away from the office can receive a notification call upon receipt of a new message (see next section). For guest mailboxes, a notification call is redirected to the guest’s mobile phone.

## Voice to E-Mail

- Voice to E-Mail has been released with the HiPath Xpressions Compact V2.5 modules (see table) for HiPath 33xx, 35xx and 3800, starting from V5.0 SMR 5/V6.0.

IVMP4R (4 ports)	at least HiPath 3000 V6.0
IVMP4 (4 ports)	at least HiPath 3000 V6.0
IVMS8NR (8 ports)	at least HiPath 3000 V6.0
IVMS8N (8 ports)	at least HiPath 3000 V6.0
IVMN8 (8 ports)	at least HiPath 3000 V5.0
IVMNL (24 ports)	at least HiPath 3000 V5.0

- Starting with HiPath 3000 V5.0, voice messages can be forwarded as an attachment to an e-mail in addition to the telephone user interface functions. Up to 3 e-mail addresses can be defined for each voicemail box. Support is provided for all common e-mail authentication standards (e.g. PLAIN, LOGIN).
- The information contained in the e-mail depends on the mailbox type:
  - Personal VoiceMail or AutoAttendant mailboxes:  
The following information is listed in the Reference line: mailbox number, date and time when the message was stored, e.g.: (Voice message received Fri Aug 6 13:44:00 2004 for box 24802). Automatic creation of an e-mail attachment is an option that can be activated for each voicemail box. The attachment contains the voice message as a WAV file (PCM, 8 kHz, 8-bit, mono, aLaw).
  - Group mailboxes:  
The following information is listed in the Reference line: mailbox number, date and time when the message was stored, e.g.: (Voice message received Fri Aug 6 13:44:00 2004 for box 24802)
  - Information mailboxes  
No e-mails are generated for information mailboxes.

## Call Recording

- Starting with HiPath 3000 Version 5.0, call recording (not conferences) is supported. It can be started and terminated using a specially defined key on optiPoint and optiClient 130 or via a feature procedure on analog and DECT devices. It is dependent, however, on the availability of a free port in Xpressions Compact. A port in Xpressions Compact is required for each call recording. This function can only be activated for a maximum of 50 subscribers.
- Depending on the legal requirements of the country concerned, call recording can/must be indicated by an announcement or a warning tone.

- The recorded call can be treated just like a voice message; it can be stored as a WAV file for example. Date and time information is added to the recording.

## Notification Call

A notification call can be received on any telephone (incl. mobile phones or private phones). The voice mail system takes the currently valid destination number from a list of five call numbers for the notification call.

The notification call can be automatically activated/deactivated (e.g. no notification at night).

When a notification call is received, the message can be played back immediately and the mailbox can be controlled as soon as the code number has been entered.

## SMS and Pager Notification

Besides the classic notification call to a voice terminal, DTMF-driven SMS (Short Message Service) and pager services are also supported. After receiving this notification, the mailbox owner can play back the new message remotely.

## Caller Callback

If the ISDN CLIP number (Calling Line Identification Presentation – transfer of station A's call number to station B) is received by HiPath 3000/5000 RSM, the mailbox owner can initiate a callback to the caller after playing back the message.

There is no need to dial the number, a direct connection is set up for the callback. A callback can be initiated to both internal and external callers.

## Fax Call Forwarding

Your personal mailbox can recognize fax calls and forward them to a pre-defined individual fax destination.

## Greetings

Greet your customers with a personalized announcement. You can record a personalized greeting via the telephone for all mailboxes. Alternatively, you can use professionally recorded greetings.

Depending on the authorizations assigned, you can set up to four greetings. The active greeting can be selected manually or via automatic selection.

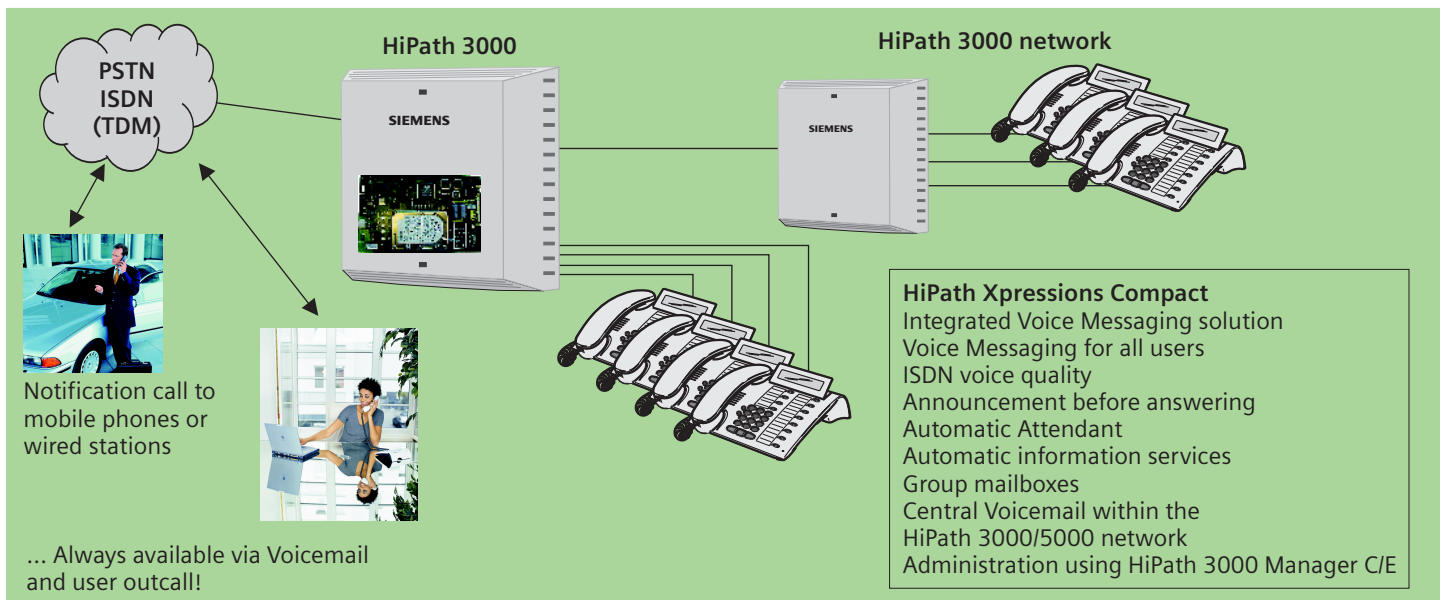
Automatic greeting selection is performed:

- on the basis of day/night mode in HiPath 3000/5000 RSM
- on the basis of the call type  
A distinction can be made here between the following criteria:
  - internal call/external call
  - free and busy
- in accordance with the calendar

## Personal Deputy

The caller can reach your personal deputy at any time once connected to your mailbox.

The deputy destination of your personal mailbox can be set up in a flexible and speedy manner in your mailbox's operating menu.



## User Prompts

All mailbox functions include context-sensitive help announcements as support for the user. These announcements provide information on the options available for the current menu option. All help announcements are made in the personal user language (see next section).

## Individual User Languages (Prompts)

The following languages are available: German, English, US English, French, Canadian French, Italian, Spanish, Portuguese, Brazilian Portuguese, Flemish, Greek, Dutch, Czech, Chinese, Korean, Turkish, American Spanish.

Three languages are selected when HiPath Xpressions Compact is installed and are set as active system languages.

Every mailbox owner can select the language to be used for his/her mailbox's control/help announcements from the three active languages.

## Statistics and Reports

Detailed reports are available on administration- and user-specific statistics.

Current recording time used (a % of the total)

- Memory capacity allocation for
  - greetings and
  - messages
- Mailbox statistics
  - The system can print three mailbox lists each containing 25 entries sorted according to the following criteria:
    - total recording time for messages
    - number of messages
    - date of the oldest message

## Statistics for AutoAttendant Mailboxes

All switching processes of the AutoAttendant mailboxes are recorded in CSV format.

The recorded data is then evaluated using external programs.

## Central Voice Mail in Networked HiPath 3000/5000 RSM Systems

The integrated HiPath Xpressions Compact system offers a central voice mail functionality in a HiPath 3000/5000 RSM network with a closed call numbering plan. All subscribers can use the central voice mail server.

The central voice mail functionality does not depend on the HiPath 3000/5000 RSM network type and is available for networking both via a classic CorNet-N connection and via IP.

The operation of HiPath Xpressions Compact in centrally administered HiPath 5000 networks is possible with Version 4.0 or later.

## Access Protection

All mailboxes are protected against unauthorized access by a 3- or 8-digit password. Messages can only be played back or mailboxes can only be administered after authentication.

## Music on Hold

In addition to the voicemail functions, HiPath Xpressions Compact provides some channels for Music on Hold purposes.

You can update your Music on Hold anytime by simply loading new WAV files.

## HiPath 3000 Announcements

From HiPath 3000 version 5.0, individual HiPath Xpressions Compact ports can be used as announcement devices for HiPath 3000, e.g. for UCD announcements.

You can update your announcements anytime by simply loading new WAV files using HiPath 3000 Manager C.

## HiPath ProCenter Agile V6.0

Starting with HiPath 3000 Version 5.0, HiPath Xpressions Compact supports ProCenter Agile in both front-end and back-end scenarios.

In the front-end scenario, calls are forwarded from HiPath Xpressions Compact to a ProCenter Agile agent group, by AutoAttendant for example.

In the back-end scenario, calls from call center agents are forwarded to HiPath Xpressions Compact, to a voicemail box for example. Activation of a special CosBit is necessary for the back-end scenario.

Both scenarios are supported with HiPath 3000 V5.0 SMR 5 or later.

## DLI

Starting with HiPath Xpressions Compact V2.5 and HiPath 3000 V6.0, central administration of connected IP workpoints is supported. A Deployment Tool (DLS Interface DLI) has been implemented on the HiPath Xpressions Compact module for this purpose. In combination with the DHCP and FTP servers integrated in the DLI, it is possible to centrally configure all connected IP workpoints, enabling plug-and-play operation. It is also possible to centrally update the software for all connected IP workpoints.

# Technical Functions

## Mailbox Features

HiPath Xpressions Compact V2.5 features over 16 mailbox classes. These differ in terms of the functions that are available to the respective owner.

Mailbox functions can be both permanently and freely assigned. The scope of each mailbox can thus be optimized and customer requirements can be individually satisfied.

Being calendar-driven, the AutoAttendant mailboxes can be easily adapted to the users' workflows.

## Local and Remote Administration/Maintenance

Both installation and cross-system local and remote administration/maintenance are carried out via HiPath 3000 Manager C/E.

HiPath 3000/5000 RSM system interfaces facilitate access from HiPath 3000 Manager C/E to the integrated voice mail system.

## Administration via HiPath 3000 Manager

HiPath Xpressions Compact V2.5 is installed and administered via HiPath Manager 3000 E. The procedure is the same for installation, administration and maintenance for the system and HiPath Xpressions Compact. The standard interfaces in HiPath 3000/5000 RSM are used.

### Customer Administration

Administer your voice mail system quickly and conveniently via the Windows-based HiPath 3000 Manager C application. You can access the mailbox configuration parameters, update distribution lists and load professionally recorded greetings.

## Backup and Restore the Voice Mail Database

The database can be either partially or fully backed up.

The data can be saved to an external data medium belonging to the customer and used for partial or full restoration.

On account of the data volume, the voice mail database should be backed up/restored via HiPath Xpressions Compact's broadband LAN access.

## LAN Integration

The TCP/IP interface on the HiPath Xpressions Compact board facilitates the integration of the board in the customer's LAN.

Via LAN access, HiPath 3000 Manager C supports the fast and convenient administration of all mailboxes. The restoration of professionally recorded greetings via the broadband LAN access saves time and ensures a high level of flexibility, e.g. when customizing corporate greetings in call centers or in the case of a caller hotline.

## Monitoring via HiPath 3000/5000 RSM Interfaces

The HiPath 3000 SNMP interface monitors important events of the integrated voice mail system and transmits them to the SNMP application.

In the unlikely event of a failure or interruption, related info is saved directly in the HiPath 3000/5000 RSM error memory and then read out using the HiPath 3000 Manager (the service interface for the entire system).

Detailed LOG and trace functions facilitate the diagnosis.

## Technical Data

The 8-port und 24-port HiPath Xpressions Compact modules have a memory capacity of 100 hours. The 4-port HiPath Xpressions Compact module, with a Compact Flash Card, has a memory capacity of 4 hours.

The 8-port und 24-port HiPath Xpressions Compact modules provide up to 500 mailboxes. The 4-port HiPath Xpressions Compact modules provide up to 30 mailboxes.

- including up to 30/100 AutoAttendant mailboxes
- up to 30/100 group mailboxes
- including up to 30/100 information mailboxes
- ISDN-quality greetings and recorded voice messages (no data compression)
- Max. recording length of a voice message = 20 min., default value = 2 min.
- Max. capacity of an information mailbox = 20 min.
- 4 access channels (ports)
  - for HiPath 33x0
  - for HiPath 35x0
- 8 access channels (ports)
  - for HiPath 33x0
  - for HiPath 35x0
  - HiPath 3800
- 24 access channels (ports) for HiPath 37x0 und HiPath 3800 (board variant for large configurations)

### Length of Mailbox Greetings

- Personal mailboxes and group mailboxes  
Max. length = 3 min.
- AutoAttendant mailboxes  
Max. length = 8 min.
- Information mailboxes  
Max. greeting length = 20 min.

## HiPath 3000/5000 RSM System Requirements

HiPath Xpressions Compact V2.5 can be connected to:

- HiPath 33x0,
- HiPath 35x0 and
- HiPath 3800.

Version 6.0 or higher required.

## Country Availability

The HiPath Xpressions Compact V2.5 voice mail system is available in the following countries:

Algeria, Argentina, Australia, Austria, Bahrain, Belgium, Bolivia, Brazil, Cameroon, Canada, Chile, China, Colombia, Costa Rica, Croatia, Czech Rep., Ecuador, Egypt, El Salvador, France, Germany, Greece, Honduras, India, Iran, Ireland, Italy, Kenya, Kuwait, Luxembourg, Mexico, Morocco, Namibia, Netherlands, New Zealand, Nicaragua, Nigeria, Oman, Panama, Paraguay, Peru, Philippines, Portugal, Qatar, Romania, Saudi Arabia, Slovakia, SouthAfrica, South Korea, Spain, Switzerland, Tanzania, Thailand, Tunisia, Turkey, United Kingdom, United States, Uruguay, Venezuela.

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