

Documentation

OpenScape Xpressions Client Applications

User Guide

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Communication for the open minded

Siemens Enterprise Communications
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History of Changes

Date	Changes	Reason
2008-07-25	New features: Web Conferencing and sending and receiving instant messages (Instant Messaging) with optiClient 130. See Section 3.2, “OpenScape Xpressions optiClient 130” , on page 43.	XPR 6
2008-07-25	New feature: Telephone and web conferences with MS Outlook and Lotus Notes. See Chapter 4, “The Conference Extension for MS Outlook and Lotus Notes” .	XPR 6
2008-07-25	Operation of the MAPI fax printer driver supplemented. See Chapter 11, “MAPI Fax Printer Driver” .	Review
2008-07-30	<i>Application Generator</i> description replaced with the <i>Application Builder</i> description. See Chapter 14, “Application Builder” .	Review
2008-10-20	Revision	Review

Contents

History of Changes	3
1 Unified Messaging with OpenScope Xpressions	9
1.1 Overview	9
1.2 Differences Between E-Mail, Voice Mail and Fax Mail	10
1.3 User Manual Client Applications	10
1.4 Preparations on your Telephone and PBX	14
1.5 User-specific Data	14
1.5.1 Telephone system Data	14
1.5.2 Data for Telephone Access via Evo	15
1.5.3 Data for Telephone Access via PhoneMail	15
1.5.4 Data for Telephone Access via VMS	16
1.5.5 Data for PC Access	17
2 Mailbox Editing on the PC and E-Mail Service	19
2.1 <i>Microsoft Outlook</i> in Exchange Operation	20
2.2 <i>Microsoft Outlook</i> at an SMTP Server	22
2.3 <i>Lotus Notes</i>	22
2.4 <i>Communications</i>	22
2.5 <i>Web Assistant</i>	23
2.6 OpenScope Xpressions <i>IppAssistant</i>	24
2.7 <i>Netscape Communicator</i>	25
2.7.1 System Requirements	25
2.7.2 Particularities with IMAP Operation under Netscape	25
2.7.3 Setting up an Account in Netscape	25
2.7.4 Receiving Messages with Netscape	26
2.7.5 Sending Messages with Netscape	27
2.7.5.1 Routing Messages to OpenScope Xpressions Distribution Lists	27
2.7.5.2 Fax Messages	27
2.7.5.3 Routing Short Messages to a Mobile Telephone	27
2.8 <i>Microsoft Outlook Express</i>	28
2.8.1 System Requirements	28
2.8.2 IMAP Operation Particularities	28
2.8.3 Setting up an Account	29
2.8.4 Receiving Messages	32
2.8.5 Sending Messages	33
2.8.5.1 Routing Messages to OpenScope Xpressions Distribution Lists	33
2.8.5.2 Fax Messages	33
2.8.5.3 Routing Short Messages to a Cell Phone (SMS)	33
2.9 <i>Microsoft Outlook</i> in Internet Mail Operation	34
2.9.1 System Requirements	34
2.9.2 IMAP Operation Particularities	34
2.9.3 Setting up an Account	34
2.9.3.1 Initial Outlook Start	34
2.9.3.2 Configuring an additional Outlook Profile for the IMAP Operation	35
2.9.4 Receiving messages	38
2.9.5 Sending messages	38
2.9.5.1 Routing Messages to OpenScope Xpressions Distribution Lists	38

Contents

2.9.5.2 Fax Messages	39
2.9.5.3 Routing Short Messages to a Cell Phone (SMS)	39
3 CTI Clients for Telephone Operation	41
3.1 Versions	41
3.2 <i>OpenScape Xpressions optiClient 130</i>	43
3.3 <i>OpenScape Web Client</i>	45
4 The Conference Extension for <i>MS Outlook</i> and <i>Lotus Notes</i>	47
4.1 The Conference Extension	47
4.1.1 Common	47
4.1.2 Conference Types	48
5 Fax Mail Service	49
5.1 Overview	49
5.1.1 Requirements for Sending a Fax	49
5.1.2 Requirements for Receiving a Fax	49
5.1.3 Fax Stationery	49
5.1.4 Fax Display	50
5.2 Sending Fax Messages	51
5.2.1 Sending Fax Messages from the <i>Windows Explorer</i>	51
5.2.2 Sending a Fax at Favorable Rates	53
5.2.3 Using Fax-on-Demand Services	53
5.2.4 Fax Transmission via Microsoft Outlook	53
6 Short Message Service (SMS)	55
6.1 Overview	55
6.1.1 Application Options	55
6.1.2 SMS for GSM Boxes	55
6.1.3 SMS via direct Provider Coupling	57
6.1.4 GSM Box Features and direct Provider Coupling	59
6.2 Sending short Messages	60
6.3 Receiving from SMS	63
6.4 Tips for Everyday Use	64
6.4.1 Sending a Callback Number	64
6.4.2 Sending SMS Messages from Intranet Pages	64
7 OpenScape Xpressions Voice Mail Systems	65
7.1 <i>Ergo</i>	65
7.2 <i>Evo</i>	66
7.2.1 Voice Control	67
7.2.2 Mailbox editing by Telephone with <i>Evo</i>	67
7.2.3 The <i>Evo</i> Menu Structure	68
7.3 <i>OpenScape Xpressions PhoneMail</i>	69
7.3.1 Mailbox Editing by Telephone with <i>PhoneMail</i>	69
7.4 <i>OpenScape Xpressions VMS</i>	70
7.4.1 Mailbox Editing by Telephone with <i>VMS</i>	70
7.5 <i>OpenScape Xpressions PhoneMail</i> and <i>OpenScape Xpressions VMS</i>	71
7.5.1 Differences in Functionality and Operation between <i>PhoneMail</i> and <i>VMS</i>	71
8 CyViewer	73
8.1 Generals	73
8.2 Who should read this Chapter?	73
8.3 System Requirements	74
8.4 Installation	74

8.5 Operation	75
8.5.1 CyViewer Operating Basics	75
8.5.2 Viewing and Editing Fax Messages	76
8.5.2.1 Stamp Function	79
8.5.3 Playing and Extending Voice Mails	81
8.5.3.1 Voice Mail Playback	81
8.5.3.2 Defining an A/B repeat	82
8.5.3.3 The Settings Dialog	83
8.5.3.4 Recording Functions	84
8.5.4 The Menu Functions	85
8.5.4.1 The File Menu	85
8.5.4.2 The Options Menu	85
8.5.4.3 The Help Menu	86
9 Conversation Recorder	87
9.1 Operation	87
10 Caller Guide	89
10.1 What is the <i>Caller Guide</i> ?	89
10.2 Voice-activated Dialing and Telephone Keys	89
10.2.1 Voice Entries	90
10.2.2 Input via Telephone Keys	90
10.3 Tracking Phone Numbers and Personal Announcements	91
10.4 Operation	92
10.4.1 Basics for the <i>Caller Guide</i> Operation	92
10.4.2 Basic Features	93
10.4.2.1 Repeating System Announcements	93
10.4.2.2 Requesting Help	93
10.4.2.3 Ending a Connection	93
10.4.3 Finding and selecting a Contact	94
10.4.3.1 Search via voice-activated Dialing	94
10.4.3.2 Search via the Telephone Keys	95
10.4.4 Becoming connected	98
10.5 Commands	99
10.6 Quick Reference Guide	100
10.6.1 Searching for a Contact via Telephone Keys	100
10.6.2 Contact Search via Voice-activated Dialing	101
10.6.3 Becoming connected via Telephone Keys	101
10.6.4 Becoming connected via Voice-activated Dialing	101
10.6.5 Selecting Hits from the List in Name Dialing Mode	102
10.6.6 Selecting Hits from the List in Voice-activated Dialing Mode	102
10.6.7 Repetition of the Connection	102
10.6.8 Connecting with Redirection Number	102
10.6.9 Fax Routing	103
11 MAPI Fax Printer Driver	105
12 Service Provider (MSP)	107
12.1 Connection of the OpenScope Xpressions Server to the Clients via the MSP	108
13 MSP TAPI Service Provider (MSPTSP)	111
13.1 Installation	112
13.2 Configuration	112
13.3 Error Search Logging	118
13.4 Update	118

Contents

13.5 Uninstallation 118

13.6 MSPTSP via *Microsoft Outlook* 118

 13.6.1 MSPTSP Configuration in *Microsoft Outlook*. 119

14 *Application Builder* 121

 14.1 *Application Builder* Features. 121

 14.2 Features of an Application 123

15 *ACD Supervisor* 125

Acronyms 127

Index 129

1 Unified Messaging with OpenScape Xpressions

1.1 Overview

OpenScape Xpressions is a mail server for unified messaging. OpenScape Xpressions integrates all mail services for voicemail, fax, e-mail and the short message service (SMS). Only one non-service-specific mailbox is set up for every user and for all these services. This means, all messages are stored in one mailbox independent from the service they were sent by. Each user can be assigned a personal e-mail address and a personal fax number for receiving mails in this mailbox. His/her telephone number is a valid address, too, so that voice mails can be deposited in his/her mailbox.

This mailbox can be accessed via any networked PC or via any telephone at your workplace. The mailbox can be maintained from any telephone or any PC with Internet access. Each subscriber can be informed about the arrival of a new message by a notification. Such notifications are possible

- on the workstation telephone, via the mailbox LED or as acoustic indication,
- on an arbitrary external telephone,
- on a cell phone by SMS, or
- via a pager.

The OpenScape Xpressions server can be used as a mailbox server or as a gateway to other mail systems. Connections to Microsoft Exchange Server or Lotus Notes are feasible as gateway server.

If configured, all required conversions of different document formats take place on the *OpenScape Xpressions* server. This means that incoming messages of a particular service can be forwarded to other services if the data conversion process is feasible. The following data conversions are permitted, for example:

- Text-to-Speech, TTS
- MS-Office documents (Word, Excel, PowerPoint) to fax
- Postscript to fax
- Fax according to different graphics formats (JPG, TIF, BMP, DCX)

Separate service-specific addresses or numbers can be defined for every mailbox.

1.2 Differences Between E-Mail, Voice Mail and Fax Mail

All messages stored on the OpenScape Xpressions server are generally e-mails. Your e-mail client, therefore, displays all messages as e-mail messages. All voice or fax messages are provided as attachments to the e-mail. The purpose of the telephone access facility to your mailbox, however, is to distribute all messages according to the service. E-mail messages that only comprise an audio attachment are displayed as voice mails, and messages that only comprise an image attachment are displayed as fax messages. In special configurations you can extend the standard Outlook features also for Outlook 2003 or Outlook 2007 by installing special forms (see the *Microsoft Outlook Extensions* manual):

Via the forms it is possible to

- flag voice mails and fax messages in the Outlook journals by special symbols
- perform the transmission of fax, [SMS](#) and voicemails as well as poll fax messages (fax-on-demand)
- view or play and edit incoming fax and voice messages.

1.3 User Manual Client Applications

This document compiles and describes all client applications available for operating the communication functions provided by the OpenScape Xpressions server. Those client applications are dealt with in detail that, owing to their relatively small functional scope, are not subject of an individual manual. For all other client applications you find here a short function overview and a reference to the associated manual.

This manual supports you in using your mailbox, if you do not use any of the client programs shipped with OpenScape Xpressions by default for editing your mailbox. The operation of the programs used will be explained on the basis of the entry dialogs.

NOTE: Depending on the operating system (Windows XP Professional, Windows 2003, Windows Vista Business or Windows Vista Enterprise, Windows 7), the screen resolution and the PC configuration, the representation may slightly deviate.

It tells you:

- which settings you should make on your telephone/PBX (see [Section 1.4, “Preparations on your Telephone and PBX”, on page 14](#)).
- which clients are available for operating your mailbox.
- how to edit received messages on a PC.
 - on your workstation PC: see [Section 2.7, “Netscape Communicator”, on page 25](#), [Section 2.8, “Microsoft Outlook Express”, on page 28](#), [Section 2.9, “Microsoft Outlook in Internet Mail Operation”, on page 34](#). The *Microsoft Outlook Extensions* manual describes how to operate the Outlook Extensions operation. The *Lotus Notes Extensions* manual describes how to operate the Notes Extensions.
 - at an arbitrarily networked PC: see [Section 2.7, “Netscape Communicator”, on page 25](#), [Section 2.8, “Microsoft Outlook Express”, on page 28](#), as well as [Section 2.9, “Microsoft Outlook in Internet Mail Operation”, on page 34](#).
- how to send e-mails: see [Chapter 2, “Mailbox Editing on the PC and E-Mail Service”](#).
- which CTI clients are available for operating your telephone. See [Chapter 3, “CTI Clients for Telephone Operation”](#).
- how to schedule, use and control voice and/or web conferences. See [Chapter 4, “The Conference Extension for MS Outlook and Lotus Notes”](#).
- how to send faxes: see [Chapter 5, “Fax Mail Service”](#).
- how to send short messages (SMS): see [Chapter 6, “Short Message Service \(SMS\)”](#).
- which telephone user interfaces are available for editing your mailbox. See [Chapter 7, “OpenScape Xpressions Voice Mail Systems”](#).
- how to view respectively listen to fax and voicemails with the client *CyViewer*: see [Chapter 8, “CyViewer”](#).
- how to record telephone calls, provided you have the corresponding user privilege: see [Chapter 9, “Conversation Recorder”](#).
- how to use the Caller Guide to establish with this connection wizard an internal phone connection either voice- or entry-controlled: see [Chapter 10, “Caller Guide”](#).
- how to use the MAPI fax printer driver for creating fax messages. See [Chapter 11, “MAPI Fax Printer Driver”](#).
- the Service Provider (MSP) function. See [Chapter 12, “Service Provider \(MSP\)”](#).

- the MSP TAPI Service Provider (MSPTSP) function. See [Chapter 13, “MSP TAPI Service Provider \(MSPTSP\)”](#).

The following client applications are available for operating the OpenScape Xpressions server features:

OpenScape Xpressions Client	Manual Reference
<i>Outlook Forms</i> for sending fax, SMS and voice messages as well as for fax polling and editing incoming fax and voice messages.	See Section 2.1, “Microsoft Outlook in Exchange Operation” , on page 20. For this, the separate <i>Microsoft Outlook Extensions</i> manual is available.
<i>ptiClient 130</i> .	See Section 3.2, “OpenScape Xpressions optiClient 130” , on page 43. To this, the separate <i>OpenScape Xpressions optiClient 130</i> operating instructions are available.
OpenScape web client	See Section 3.3, “OpenScape Web Client” , on page 45. To this, the separate <i>OpenScape Web Client</i> operating instructions are available.
Conference extension for <i>MS Outlook</i> and <i>Lotus Notes</i>	See Section 4.1, “The Conference Extension” , on page 47. To this, the separate <i>Microsoft Outlook Extensions</i> respectively <i>Lotus Notes Extensions</i> operating instructions are available.
<i>Outlook Forms</i> with connection to an SMTP server	See Section 2.2, “Microsoft Outlook at an SMTP Server” , on page 22. The very little operation differences are also referred to in the <i>Microsoft Outlook Extensions</i> manual.
<i>Lotus Notes Extensions</i>	See Section 2.3, “Lotus Notes” , on page 22. As operating instructions for the <i>Lotus Notes Extensions</i> serves the <i>Lotus Notes Extensions</i> manual.
<i>Communications</i>	See Section 2.4, “Communications” , on page 22. The operating instructions are available in the form of the <i>Communications</i> manual.
<i>Web Assistant</i>	See Section 2.5, “Web Assistant” , on page 23. The client's operation is described in the <i>Web Assistant</i> manual.
<i>IppAssistant</i>	See Section 2.6, “OpenScape Xpressions IppAssistant” , on page 24. The client's operation is described in the <i>IppAssistant</i> manual.
<i>Ergo</i>	See Section 7.1, “Ergo” , on page 65. For the telephone user interface <i>Ergo</i> you can refer to the <i>Ergo</i> manual.
<i>Evo</i>	See Section 7.2, “Evo” , on page 66. For the telephone user interface <i>Evo</i> you can refer to the <i>Evo</i> manual.
<i>OpenScape Xpressions PhoneMail</i>	See Section 7.3, “OpenScape Xpressions PhoneMail” , on page 69. For the telephone user interface <i>PhoneMail</i> you can refer to the <i>OpenScape Xpressions PhoneMail</i> manual.
<i>OpenScape Xpressions VMS</i>	See Section 7.4, “OpenScape Xpressions VMS” , on page 70. For the telephone user interface <i>VMS</i> you can refer to the <i>OpenScape Xpressions VMS</i> manual.

OpenScape Xpressions Client	Manual Reference
Netscape Communicator	See in this manual Section 2.7, “Netscape Communicator” , on page 25.
Microsoft Outlook Express	See in this manual Section 2.8, “Microsoft Outlook Express” , on page 28.
Microsoft Outlook	See in this manual Section 2.9, “Microsoft Outlook in Internet Mail Operation” , on page 34.
CyViewer	See in this manual Chapter 8, “CyViewer” .
Conversation Recorder	See in this manual Chapter 9, “Conversation Recorder” .
Caller guide	See in this manual Chapter 10, “Caller Guide” .
MAPI Fax Printer Driver	See in this manual Chapter 11, “MAPI Fax Printer Driver” .
Service provider	See in this manual Chapter 12, “Service Provider (MSP)” .
TAPI Service Provider	See in this manual Chapter 13, “MSP TAPI Service Provider (MSPTSP)” .
Application Builder	See Chapter 14, “Application Builder” . The operation is described in the <i>Application Builder</i> manual.
ACD Supervisor	See Chapter 15, “ACD Supervisor” . The operation is described in the <i>ACD Supervisor</i> manual.

1.4 Preparations on your Telephone and PBX

For the optimum use of your mailbox, set the call forwarding or CFNR function for the voice and fax services. Voice or fax calls to your extension will then be forwarded to your OpenScape Xpressions mailbox. Please refer to the operating instructions for your telephone or PBX for information on how to set up these functions. Your system administrator will tell you which numbers you must set as the call forwarding destination.

1.5 User-specific Data

This section provides you with an overview of all important user-specific or system-specific data. You will always have an overview of all important settings at hand if you note down all of the relevant data here. Your system administrator will give you the information you need.

1.5.1 Telephone system Data

Number for call forwarding, voice service = service access number for forward access	<input type="text"/>
Number for call forwarding, fax service	<input type="text"/>

1.5.2 Data for Telephone Access via Evo

Dial individual mailbox
= service access number for the
control mode (direct access)

Dial foreign mailbox
= service access number for the
answering machine mode (guest
access) with message recording only.

Dial foreign mailbox
= service access number for the
answering machine mode (guest
access) with message assistant only.

1.5.3 Data for Telephone Access via PhoneMail

Dial own mailbox
= service access number for direct
access

Dial external mailbox
= service access number for guest
access

Service access number for callback
access

Service access number for universal
access

1.5.4 Data for Telephone Access via VMS

Dial own mailbox = service access number for direct access	<input type="text"/>
Dial external mailbox = service access number for guest access	<input type="text"/>
Service access number for callback access	<input type="text"/>
Service access number for universal access	<input type="text"/>

You can change your password for telephone access to the mailbox. You should not write down this password in the interests of security.

1.5.5 Data for PC Access

User name of the OpenScape Xpressions subscriber	<input type="text"/>
E-mail address for the OpenScape Xpressions mailbox	<input type="text"/>
OpenScape Xpressions server name	<input type="text"/>
IP address of the OpenScape Xpressions server	<input type="text"/>
Domain address of the OpenScape Xpressions server	<input type="text"/>
Server name for the inbox/incoming mail (this can be identical to the domain address)	<input type="text"/>
Server name for the outbox/outgoing mail (this can be identical to the inbox)	<input type="text"/>
URL of the <i>Web Assistant</i>	<input type="text"/>
Online documentation URL	<input type="text"/>
OpenScape Xpressions address book URL for importing mail clients	<input type="text"/>

Furthermore, you need your password to access the [PC](#). The system administration will tell you the password for the initial logon. After the initial logon, please immediately change this password, so that only you can log on to the system. In doing so, please heed the guidelines for passwords given by the system administration.

IMPORTANT: For your own interest you should never note down your password.

2 Mailbox Editing on the PC and E-Mail Service

This chapter describes the PC access to your OpenScape Xpressions mailbox. Using your PC, OpenScape Xpressions provides you with a uniform access interface to your voice messages, fax messages and e-mails.

All e-mail clients that support an [IMAP](#) access can generally be used. Though OpenScape Xpressions also masters the [POP3](#) access, we do not recommend this access mode since it does not include mailbox synchronization when connected to the Lotus Domino or Microsoft Exchange server. [PC](#) access is described based on the following e-mail clients:

- *Netscape Messenger* (see [Section 2.7](#), “Netscape Communicator”, on page 25)
- *Microsoft Outlook Express* (see [Section 2.8](#), “Microsoft Outlook Express”, on page 28)
- *Microsoft Outlook* in Internet mail operation (see [Section 2.9](#), “Microsoft Outlook in Internet Mail Operation”, on page 34)

You can edit the OpenScape Xpressions mailbox also via the following client applications:

- *Microsoft Outlook 2003* and *Microsoft Outlook 2007* in connection with Microsoft Exchange Server (see the *Microsoft Outlook Extensions* manual)
- *Microsoft Outlook 2003* and *Microsoft Outlook 2007* in connection with an SMTP server (see the *Microsoft Outlook Extensions* manual)
- *Lotus Notes* (see the *Lotus Notes Extensions* manual)
- *Communications* (see the *Communications* user manual)
- *Web Assistant* (see the *Web Assistant* manual)

NOTE: You can ask your system administrator to inform you about your personal OpenScape Xpressions user data that you require for mailbox editing tasks on the [PC](#).

2.1 Microsoft Outlook in Exchange Operation

For *Microsoft Outlook* in Exchange operation you can install OpenScape Xpressions extensions. The following Outlook extensions are available:

- Icon Forms

Via icon forms stored on the Exchange server, special icons are displayed in the Outlook message journals for the various message types (fax, voice mail etc.) instead of the default message icon (envelope).

- Message Forms

Via message forms, received fax and voice mail messages can be viewed respectively played and edited in addition. Further forms serve for sending fax, voice mail and SMS messages and for fax-on-demand. You can use the following features via message forms:

- Voice mail playback on the telephone
- Voice mail playback via the PC sound system
- Viewing and editing fax messages
- Sending voice mails to arbitrary subscribers
- Sending voice mails via a contact entry
- Answering any message with a voice annotation
- Sending voice mails via the Exchange address book
- Answering/forwarding voice messages with voice comments
- Sending SMS messages to any subscriber
- Sending SMS messages to a contact
- Sending SMS messages to the originator of a message
- Sending SMS messages to a cell phone from the Exchange address book
- Fax-on-demand
- Sending a fax message to any subscriber
- Sending a fax message to a contact
- Sending a fax message to the originator of a message
- Sending a fax message from the Exchange address book
- Sending a fax message from Microsoft Office applications
- Sending a fax message from Explorer
- Answering/forwarding fax messages with annotations

- Invocation of the Web Assistant
- The conference extension that offers the following options via the Outlook feature **Meeting Request**:
 - Scheduling and initiating telephone conferences
 - Scheduling and initiating web conferences
 - Scheduling and initiating combined telephone/web conferences
- OpenScape Xpressions optiClient 130 (from XPR 5.0)

The CTI client can be directly reached from Outlook and provides the following features:

 - Telephoning, conference, diverting etc.
 - logging calls
 - calling via Outlook entries
 - Calling via contact entries
 - identifying callers
 - call scheduling

For further information about the operation of the Outlook Extensions please refer to the user manual *Microsoft Outlook Extensions*. For OpenScape Xpressions optiClient 130 refer to [Section 3.2, “OpenScape Xpressions optiClient 130”](#), on [page 43](#).

2.2 Microsoft Outlook at an SMTP Server

In this operation mode the message forms, the conference extension and OpenScape Xpressions optiClient 130 are also available.

2.3 Lotus Notes

OpenScape Xpressions extensions can be installed for Lotus Notes as well. The *Lotus Notes* mail extensions are provided with the *Lotus Notes* e-mail client. If you open the e-mail client, you can use the selected mail extension.

- Fax (mail extension to send fax messages),
- Fax-on-demand (mail extension to poll fax messages),
- SMS (mail extension to send SMS messages),
- Voice (mail extension for sending voice messages)
- Voicemail annotation (mail extension for answering/forwarding a message with a voice comment)

You find further information on operating the *Lotus Notes* extensions in the *Lotus Notes Extensions* user manual.

2.4 Communications

Communications is the central communication and administration program of the OpenScape Xpressions server. All communication processes that the user wants to initiate can be handled and monitored via *Communications*.

This client program enables the user to send and receive information from his/her computer as SMS message, fax, e-mail or voicemail. If configured, telephony features for telephone operation and monitoring can be provided as well.

The administrator of the OpenScape Xpressions server is provided with the functions for user administration and configuring the OpenScape Xpressions server.

The *Communications* client is comprehensively described in the *Communications* user manual.

2.5 *Web Assistant*

The *Web Assistant* is a convenient, browser-based application via which the OpenScape Xpressions system can be used, administered and configured.

By means of clearly structured [HTML](#) pages, all users of the OpenScape Xpressions system can create and administer messages of different types (e-mail, fax, [SMS](#) and voice messages).

Furthermore, users can access the personal parameters of the message services provided by the OpenScape Xpressions system and customize them according to their personal requirements.

Comprehensive options for system administration and configuration are available to the OpenScape Xpressions system administrator via the *Web Assistant*.

The *Web Assistant* is comprehensively described in the *Web Assistant* user manual.

2.6 OpenScape Xpressions *lppAssistant*

The *lppAssistant* is a web-based client application used via telephone. With the *lppAssistant* you can retrieve respectively play text messages, voicemails and greetings, record new greetings, and send **SMS** messages. Operating the *lppAssistant* and using its functionality requires either the **optiPoint application module** or an **OpenStage 60** respectively **80** as output device. The *lppAssistant* operation is described in the *lppAssistant* manual.

2.7 Netscape Communicator

The descriptions in this chapter are based on *Netscape Communicator Version 7.1*.

2.7.1 System Requirements

- *Netscape Communicator Version 7.1*
- Your **PC** must be equipped with a sound card, microphone, loudspeakers/headset and appropriate playback software to allow voice message processing on your **PC**.
- The relevant graphics software must be installed on your **PC** to allow fax messages to be viewed. A graphics format that is supported by the user's graphics software can be set for each individual user.

2.7.2 Particularities with **IMAP** Operation under Netscape

- No directories may be created on the **IMAP** server. Therefore, the **Move it to the Trash folder** option in the Netscape client under **When I delete a message:** must not be activated, since in this case the **Trash** folder is created on the server. Select the **Mark it as deleted** option here instead. You find this option after opening the **Settings** context menu for the mail account and switching to the **Server Settings** dialog by doubleclick.
- To delete the message for good, execute the menu option **File > Compact Folders** in Netscape.
- Use exclusively local directories for messages that you may want to save from the inbox. Click on the **Save as** command for this purpose.

2.7.3 Setting up an Account in Netscape

You access your OpenScape Xpressions mailbox with the *Netscape Communicator* via an e-mail account (profile) configured in the *Netscape Communicator*. With a configured profile you can address a mailbox on a mail server. You must create a separate profile for every mail server if you are using a number of mail servers.

1. Start *Netscape Navigator*. In the **File > New** menu select the **Message** item.
Since there is not yet an e-mail account, the New Account Setup window appears.

2. Select **E-mail account** and click **Next**.
3. Enter the corresponding data in the **Your Name** and your **Email Address** fields of the **Identity** dialog. Confirm the entries by clicking **Next**.
4. In the **Server Information** window, specify the server type for incoming e-mails (**IMAP**). In the Incoming Server and Outgoing Server fields, enter the names of the OpenScape Xpressions server for incoming and/or outgoing mail. Please consult your system administrator if you have any queries. Click on **Next** to continue configuring the e-mail account.
5. In the following dialog, under **User Name**, enter your OpenScape Xpressions user name and click on **Next**.
6. In the **Account Name** window, enter a meaningful name for the new e-mail account. Then click on **Next**. The following dialog displays the entries you have made for configuring the e-mail account, so that you can check them for correction.
7. If all entries are correct, confirm them with **Finish**.

The account for accessing your OpenScape Xpressions mailbox is now set up.

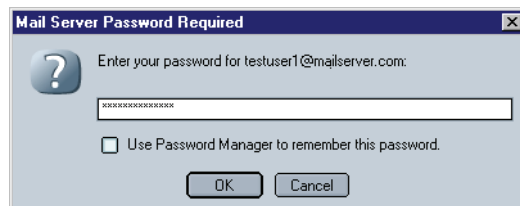
If you need further information on configuring a new profile, please consult the *Netscape Communicator* description or the *Netscape Communicator* online help.

2.7.4 Receiving Messages with Netscape

Start Netscape Messenger to receive messages for the set up e-mail account. There are several ways to do this.

- via **Start > All Programs > Netscape 7.1 > eMail & Newsgroups**,
or when the *Netscape Navigator* has already been started
- via **Window > Mail & Newsgroups**
- alternatively via the letter icon with the **eMail** link in the Netscape Navigator.

The password entry dialog opens then immediately. Enter your OpenScape Xpressions password.



The inbox opens and your messages are displayed once you have entered the correct password.

All incoming messages are e-mail messages. You receive original voice and fax messages as additional data in the form of e-mail attachments.

An incoming voice message is attached to an e-mail as sound file. If you have entered the relevant link for this file type ([WAV](#)) in Netscape, clicking the audio file starts the selected player and you can listen to your voicemail.

An incoming fax message is attached to an e-mail as a graphics file. If you are using graphics software that is linked in Netscape to the file type of the attachment, the corresponding program will be opened when you click on the attachment with the graphics file, thus displaying the fax. The graphics file displays the fax. If [JPG](#) is set as the graphics format, Netscape Messenger will display the fax directly in the message window.

2.7.5 Sending Messages with Netscape

All messages that you create and send via *Netscape Messenger* are normal e-mails. The OpenScape Xpressions server can route your e-mail message, fax message or short message to a distribution list, fax device or cell phone using a special addressing procedure.

2.7.5.1 Routing Messages to OpenScape Xpressions Distribution Lists

The personal distribution lists defined using the *Web Assistant* and the public distribution lists provided by the system administrator can be entered as recipient addresses. For the correct addressing to a OpenScape Xpressions distribution list consult the *Web Assistant* manual.

2.7.5.2 Fax Messages

All e-mail messages that you send via the OpenScape Xpressions server to a fax address are received by the recipient as fax messages. Please refer to [Chapter 5, "Fax Mail Service"](#) for information on the correct addressing of messages to fax addresses.

2.7.5.3 Routing Short Messages to a Mobile Telephone

All e-mails that you send via the OpenScape Xpressions server to an [SMS](#) address are received by the recipient as short messages. Please refer to [Chapter 6, "Short Message Service \(SMS\)"](#) for information about the correct addressing of messages to [SMS](#) addresses.

2.8 Microsoft Outlook Express

The descriptions in this chapter are based on *Microsoft Outlook Express Version 6*.

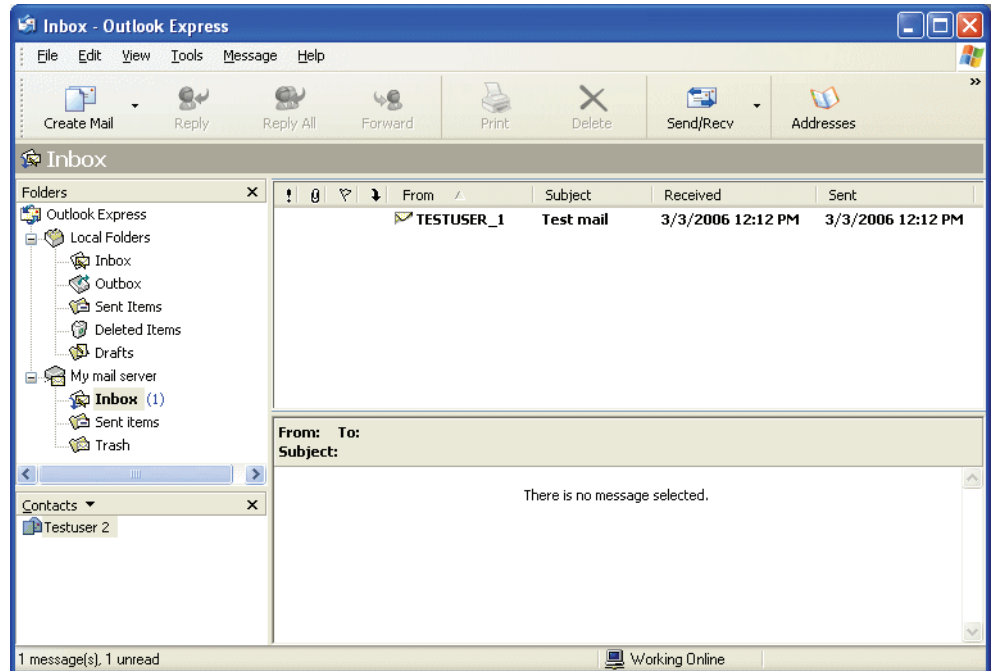
2.8.1 System Requirements

- *Microsoft Outlook Express Version 6*
- Your PC must be equipped with a sound card, microphone, loudspeakers/headset and appropriate playback software to allow voice message processing on your PC.
- The relevant graphics software must be installed on your PC to allow fax messages to be viewed. A graphics format that is supported by the user's graphics software can be set for each individual user.

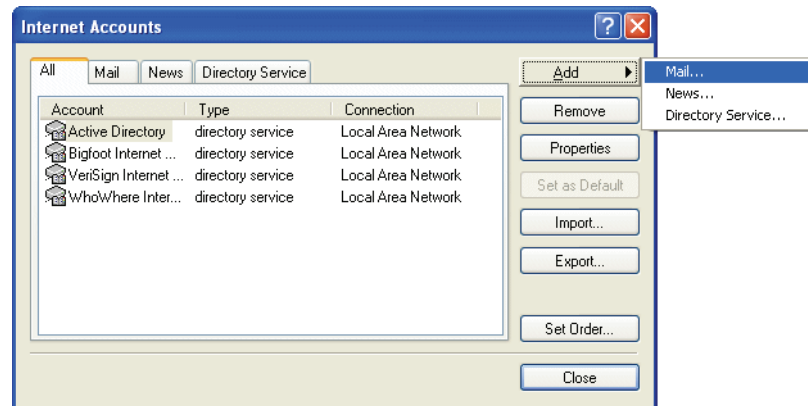
2.8.2 IMAP Operation Particularities

- The Send and Receive function in Outlook Express Client does not work correctly. To update the inbox, you should briefly switch directories. The inbox is then completely updated. You should not use the **Send/Recv** button for inbox updating.
- If messages are deleted in the **IMAP** client, they are only marked as deleted. To remove a message for good, you need to execute the menu item **Edit > Purge Deleted Messages** in Outlook Express.

2.8.3 Setting up an Account



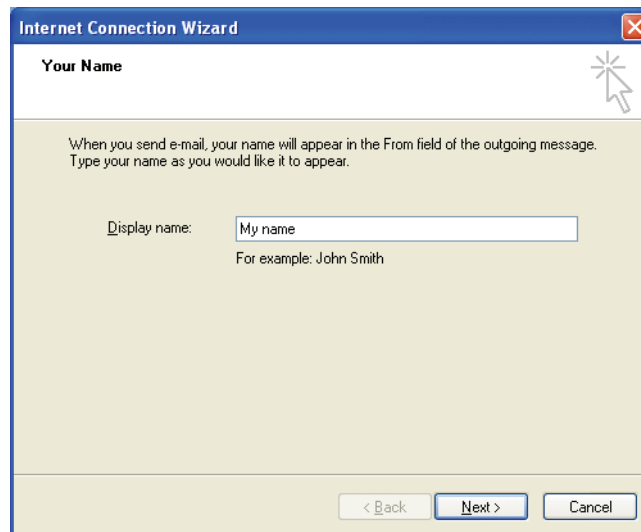
Start Microsoft Outlook Express and select the **Accounts...** command in the **Tools** menu. Click **Add** in the **Internet Accounts** window and select **Mail....**



The Internet Connection Wizard is started. In the **Name** field enter the name to appear as e-mail originator at the receiving party.

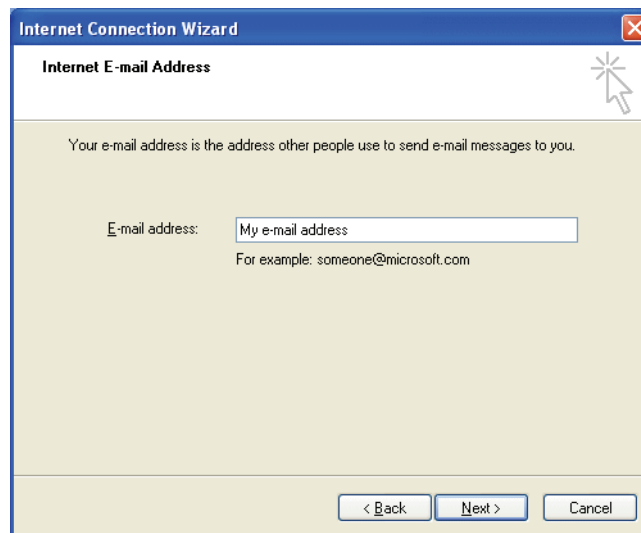
Mailbox Editing on the PC and E-Mail Service

Microsoft Outlook Express



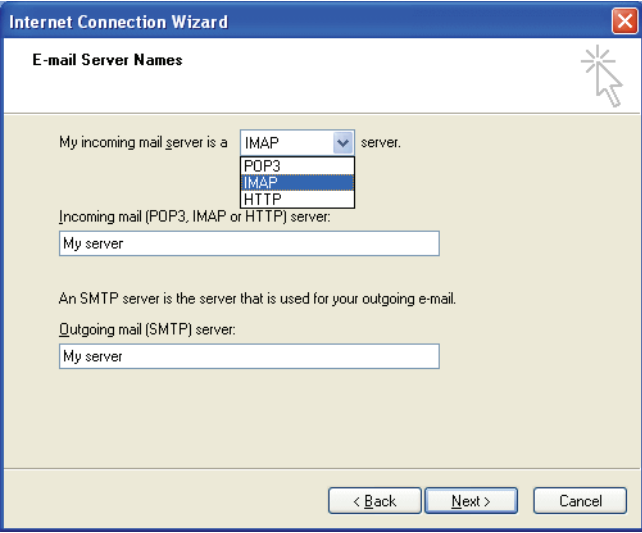
The screenshot shows the 'Your Name' step of the Internet Connection Wizard. The window has a blue title bar with the text 'Internet Connection Wizard' and a close button. Below the title bar is a white header area with the text 'Your Name' and a help icon. The main area has a light beige background. It contains the following text: 'When you send e-mail, your name will appear in the From field of the outgoing message. Type your name as you would like it to appear.' Below this is a label 'Display name:' followed by a text input field containing 'My name'. Underneath the input field is the text 'For example: John Smith'. At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

Enter your OpenScape Xpressions e-mail address in the next window.



The screenshot shows the 'Internet E-mail Address' step of the Internet Connection Wizard. The window has a blue title bar with the text 'Internet Connection Wizard' and a close button. Below the title bar is a white header area with the text 'Internet E-mail Address' and a help icon. The main area has a light beige background. It contains the following text: 'Your e-mail address is the address other people use to send e-mail messages to you.' Below this is a label 'E-mail address:' followed by a text input field containing 'My e-mail address'. Underneath the input field is the text 'For example: someone@microsoft.com'. At the bottom of the window are three buttons: '< Back', 'Next >', and 'Cancel'.

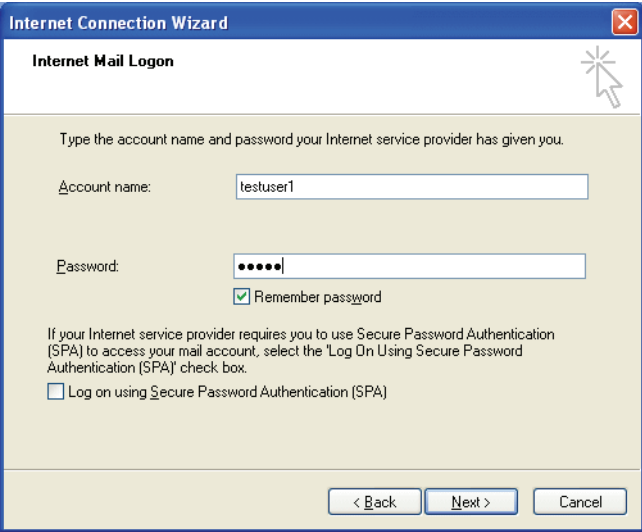
Set the name of your incoming mail server to **IMAP**. Enter the OpenScape Xpressions server as the incoming and outgoing mail server.



The screenshot shows the 'Internet Connection Wizard' window with the 'E-mail Server Names' tab selected. It contains two sections: 'My incoming mail server is a' with a dropdown menu showing 'IMAP', 'POP3', 'IMAP' (highlighted), and 'HTTP'; and 'Incoming mail (POP3, IMAP or HTTP) server:' with a text box containing 'My server'. Below this is another section: 'An SMTP server is the server that is used for your outgoing e-mail.' followed by 'Outgoing mail (SMTP) server:' and a text box containing 'My server'. At the bottom are '< Back', 'Next >', and 'Cancel' buttons.

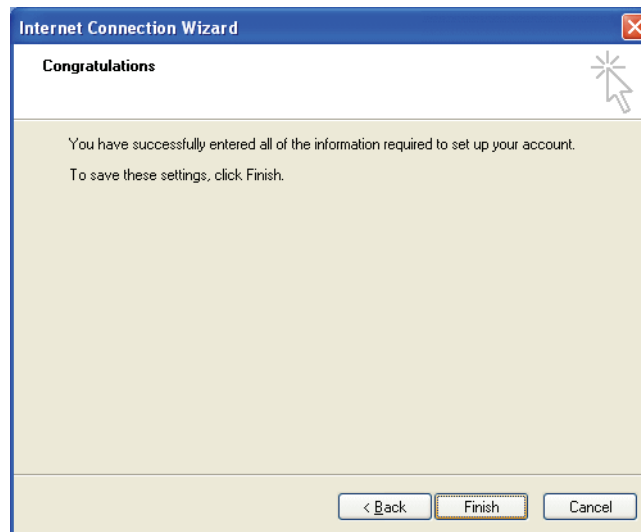
Enter your OpenScape Xpressions user name as **IMAP** account name. Enter your OpenScape Xpressions password as the password.

NOTE: Log on using Secure Password Authentication (SPA) is not supported.



The screenshot shows the 'Internet Connection Wizard' window with the 'Internet Mail Logon' tab selected. It contains a section 'Type the account name and password your Internet service provider has given you.' with 'Account name:' and 'Password:' labels. The 'Account name' text box contains 'testuser1'. The 'Password' text box contains six dots. Below the password box is a checked checkbox labeled 'Remember password'. At the bottom is a section 'If your Internet service provider requires you to use Secure Password Authentication (SPA) to access your mail account, select the 'Log On Using Secure Password Authentication (SPA)' check box.' with an unchecked checkbox labeled 'Log on using Secure Password Authentication (SPA)'. At the bottom are '< Back', 'Next >', and 'Cancel' buttons.

The account for accessing your OpenScape Xpressions mailbox is now set up. Click **Finish**.



After configuring the account you can access the directories **Inbox** and **Sent Items** in Outlook Express under the account name.

NOTE: Depending on the language version of the installed mail server the names of the above folders may differ.

Further **IMAP** directories may be displayed if they are created by the mail system. For example, the "Draft" directory. However, these cannot be displayed with the account name and are thus not available for access. These folders are exclusively designated for the usage with other system components.

2.8.4 Receiving Messages

To receive messages for the configured e-mail account, start Outlook Express and switch to the inbox of your OpenScape Xpressions account.

All incoming messages are e-mail messages. You receive original voice and fax messages as additional data in the form of e-mail attachments.

An incoming voice message is attached to an e-mail as sound file. If you have entered a link for this file type (**WAV**), clicking the sound file starts the selected player and you can listen to your voicemail.

An incoming fax message is attached to an e-mail as a graphics file. If you are using graphics software that is linked to the file type of the attachment, the corresponding program is opened by clicking the attachment containing this file. The graphics file displays the fax. Outlook Express displays **JPG** files directly in the message window.

2.8.5 Sending Messages

All messages that you create and send using Microsoft Outlook Express are normal e-mail messages. The OpenScape Xpressions server can route your e-mail message, fax message or short message to a distribution list, fax device or cell phone using a special addressing procedure.

2.8.5.1 Routing Messages to OpenScape Xpressions Distribution Lists

The personal distribution lists defined using the *Web Assistant* and the public distribution lists provided by the system administrator can be entered as recipient addresses. For the correct addressing to a OpenScape Xpressions distribution list consult the *Web Assistant* manual.

2.8.5.2 Fax Messages

All e-mail messages that you send via the OpenScape Xpressions server to a fax address are received by the recipient as fax messages. Please refer to [Chapter 5, "Fax Mail Service"](#) for information on the correct addressing of messages to fax addresses.

2.8.5.3 Routing Short Messages to a Cell Phone (SMS)

All e-mail messages that you send via the OpenScape Xpressions server to an SMS address are received by the recipient as short messages. Please refer to [Section 6.2, "Sending short Messages", on page 60](#) for information on the correct addressing of messages to SMS addresses.

2.9 Microsoft Outlook in Internet Mail Operation

Employing *Microsoft Outlook 2003* and *Microsoft Outlook 2007*, you can use internet mail operation via **IMAP** parallel to the Exchange connection.

2.9.1 System Requirements

- *Microsoft Outlook 2003* or *Microsoft Outlook 2007*.
- Your **PC** must be equipped with a sound card, microphone, loudspeakers/headset and appropriate playback software to allow voice message processing on your **PC**.
- The relevant graphics software must be installed on your **PC** to allow fax messages to be viewed. A graphics format that is supported by the user's graphics software can be set for each individual user.

2.9.2 IMAP Operation Particularities

- If messages are deleted in the **IMAP** client, they are only marked as deleted. To remove a message for good, you need to execute the menu item **Edit > Purge Deleted Messages** in Outlook.

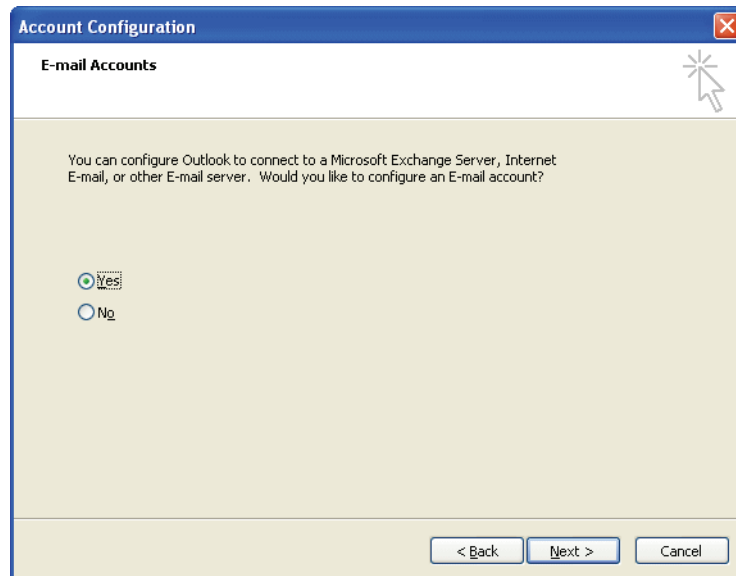
2.9.3 Setting up an Account

2.9.3.1 Initial Outlook Start

If Outlook is initially started after the installation, i.e. no Outlook profile has been created yet, take the following steps to create a profile:

1. Invoke **Start > E-mail (Microsoft Office Outlook)** from the start menu. The start dialog for the Outlook configuration opens.

2. Click the **Next** button. The E-mail Accounts dialog opens.

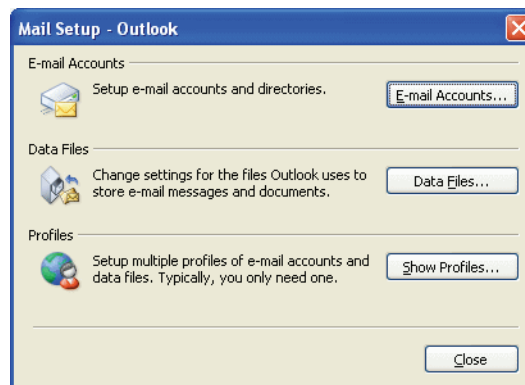


Select the **Yes** option here to set up an e-mail account. After a click on **Finish** the **Server Type** dialog opens. The description of the next configuration procedures is given from work step **6** in the following chapter.

2.9.3.2 Configuring an additional Outlook Profile for the IMAP Operation

How to configure another profile for the **IMAP** operation in addition to an existing Outlook profile for e.g. operation of Outlook on Microsoft Exchange:

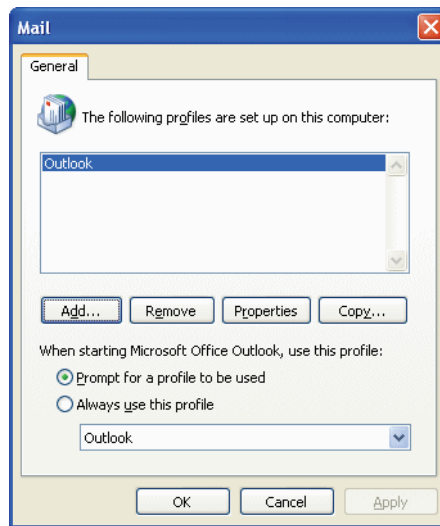
1. Start the Outlook profile administration via **Start > Control Panel > Mail**. The **Mail Setup - Outlook** dialog opens.



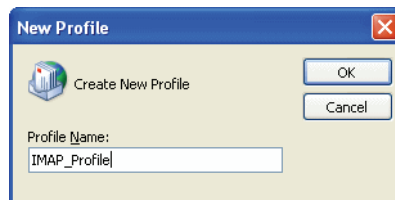
2. Click the **Show Profiles** button here. The **Mail** dialog opens.

Mailbox Editing on the PC and E-Mail Service

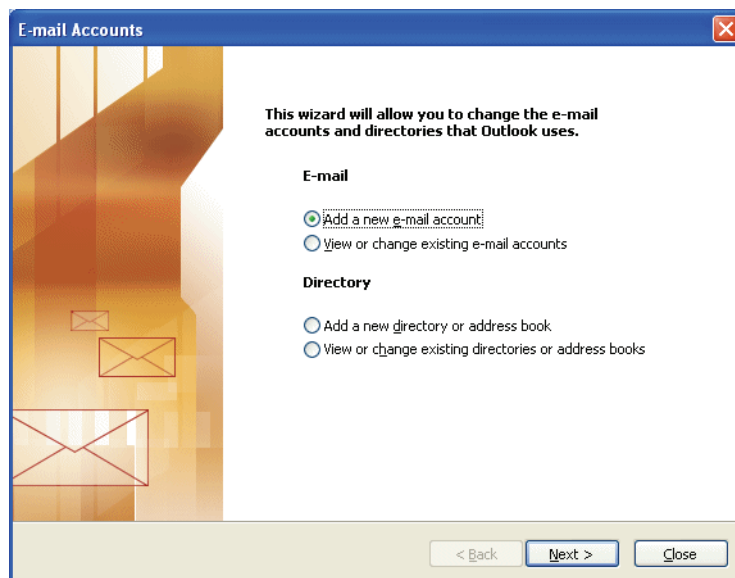
Microsoft Outlook in Internet Mail Operation



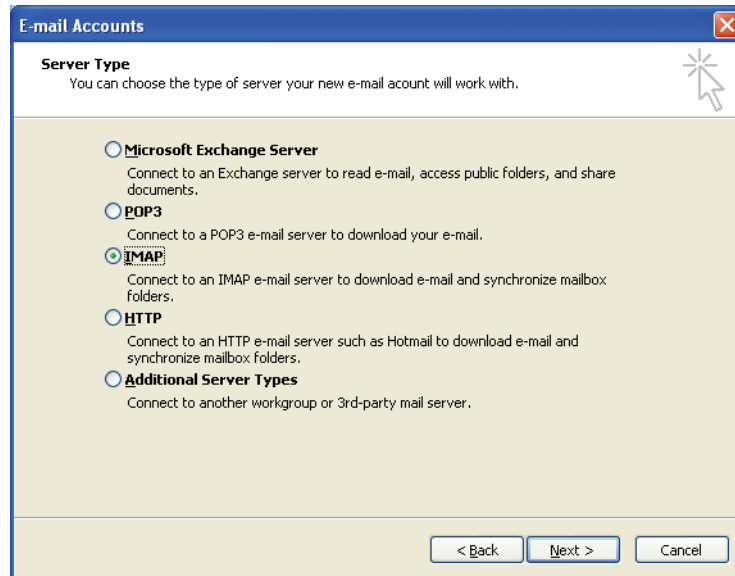
3. Select the **Prompt for a profile to be used** option here. In this way you will be enabled to select a profile from the existing ones at each Outlook start. Then click **Add...**. The **New Profile** dialog opens for you to enter the profile name.



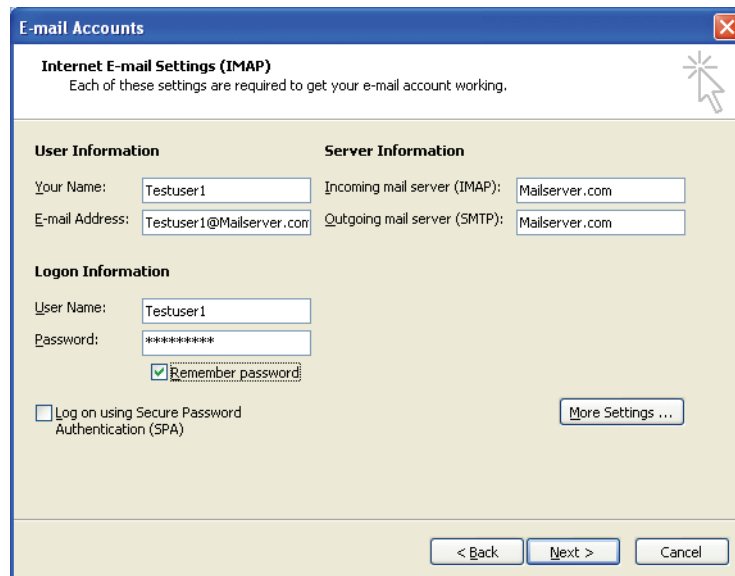
4. Assign a meaningful name to the **IMAP** profile so that you can quickly recognize it. Accomplish the name entry with **OK**. A wizard starts to support you in setting up and editing e-mail accounts.



5. In the **E-mail Accounts** dialog select the **Add a new e-mail account** option and click on **Next**. The dialog for defining the server type opens.



6. In this dialog you define which server type you want to use for your e-mail account. Select the **IMAP** option here and click on **Next**. You are now taken to the configuration dialog for the e-mail settings.



7. In the **User Information** fields **Your Name** and **E-mail Address** specify your name and your OpenScope Xpressions e-mail address. In the **Server Information** portion enter the network address of the incoming-mail server (**IMAP**) and outgoing-mail server (**SMTP**). In our case enter here the **IP** address of the OpenScope Xpressions server in each case. If you do not know this address, please consult your administrator. For the **Logon Information** enter under **User Name** the OpenScope Xpressions logon name (tantamount to the user recognition or user ID), and under **Password**

enter your OpenScape Xpressions password. Via the **Remember password** option you can define whether or not a user authentication is to occur by password query at each Outlook start. If you enable the option, thus save the password, Outlook will start without password query. After you have performed all settings, click **Next**.

8. A conclusive dialog confirms that you have made all required settings. Click **Finish** to configure the profile.

The profile configuration for the **IMAP** operation is thus complete.

2.9.4 Receiving messages

To receive messages for the configured e-mail account, start Outlook Express and switch to the inbox of your OpenScape Xpressions account.

All incoming messages are e-mail messages. You receive original voice and fax messages as additional data in the form of e-mail attachments.

An incoming voice message is attached to an e-mail as sound file. If you have entered a link for this file type (**WAV**), clicking the sound file starts the selected player and you can listen to your voicemail.

An incoming fax message is attached to an e-mail as a graphics file. If you are using graphics software that is linked to the file type of the attachment, the corresponding program is opened by clicking the attachment containing this file.

2.9.5 Sending messages

All messages that you create and send via *Microsoft Outlook* are normal e-mails. By special addressing the OpenScape Xpressions server can send your message to a distribution list, as fax to a fax device or as **SMS** to a cell phone.

2.9.5.1 Routing Messages to OpenScape Xpressions Distribution Lists

The personal distribution lists defined using the *Web Assistant* and the public distribution lists provided by the system administrator can be entered as recipient addresses. For the correct addressing to a OpenScape Xpressions distribution list consult the *Web Assistant* manual.

2.9.5.2 Fax Messages

All e-mail messages that you send via the OpenScape Xpressions server to a fax address are received by the recipient as fax messages. Please refer to [Chapter 5, “Fax Mail Service”](#) for information on the correct addressing of messages to fax addresses.

2.9.5.3 Routing Short Messages to a Cell Phone (SMS)

All e-mails that you send via the OpenScape Xpressions server to an [SMS](#) address are received by the recipient as short messages. Please refer to [Chapter 6, “Short Message Service \(SMS\)”](#) for information about the correct addressing of messages to [SMS](#) addresses.

Mailbox Editing on the PC and E-Mail Service

Microsoft Outlook in Internet Mail Operation

3 CTI Clients for Telephone Operation

3.1 Versions

In the course of the OpenScape Xpressions server development, Outlook and Notes Extensions have been supplied with the product in different specifications and development stages. The CTI clients have always been elements of these extensions. The following variants have been used by customers with the different OpenScape Xpressions versions:

- With the version *HiPath Xpressions 3.0*
The *HiPath Xpressions Outlook Extensions* components (HXOE)
- With the version *HiPath Xpressions 4.0*
The *HiPath Xpressions Extensions* components (HXE) They comprise:
 - The Outlook forms (icon and message forms)
 - The message forms and the Simple Dialer for Lotus Notes
 - *SimplyPhone for Outlook Standard* as CTI client with the following features:
 - Calling via number entry
 - Callback to selected journal entries
 - Search Phone Partner
 - *SimplyPhone Advanced* as CTI client with the full CTI functionality and integration in Outlook and Notes
- With the version *HiPath Xpressions 5.0*
The optiClient extensions. They comprise:
 - The Outlook forms (icon and message forms)
 - The message forms and the Simple Dialer for Lotus Notes
 - *HiPath Xpressions optiClient 130* as independent CTI client with optional integration in Outlook and Notes
- With version OpenScape Xpressions 6
 - The optiClient extensions. They comprise:
 - The Outlook forms (icon and message forms)
 - The message forms and the Simple Dialer for Lotus Notes

- *OpenScape Xpressions optiClient 130* as independent CTI client with optional integration in Outlook and Notes
 - Conference extension for Outlook
 - Conference extension for Lotus Notes
 - *OpenScape Web Client* as browser-based CTI client.

If you require information about older components, please refer to the manuals composed for the corresponding versions. The installation of the client components is described in the *Client Installations* manual.

3.2 OpenScape Xpressions optiClient 130

NOTE: Please note the individual restrictions on the listed uses. You find more information about this in the *OpenScape Xpressions optiClient 130* administrator documentation.

OpenScape Xpressions optiClient 130 is a high performance CTI client. How to deploy *OpenScape Xpressions optiClient 130*:

- As efficient CTI client on an XPR server.
In this function you can use it to control your desk telephone from your PC.
- Or as softphone at an SIP communication system.
- As softphone at a HiPath 3000 or Hipath 4000.

In each of these configurations you can

- initiate telephone calls,
- accept telephone calls,
- utilize more complex telephony functions – such as switching telephone conferences.

OpenScape Xpressions optiClient 130 also supports you by

- conveniently managing private contacts in the contact list,
- setting up phone connections the easy way via the team bar,
- connecting external address books – for example via LDAP,
- integrating *OpenScape Xpressions optiClient 130* features in Outlook and/or Lotus Notes clients.

If you use *OpenScape Xpressions optiClient 130* at an XPR server you can deploy further special features. Among these are:

- *OpenScape Xpressions optiClient 130*-independent logging of your successful and unsuccessful calls.
- The presence function, which informs you about the availability of other users.
- Sending and receiving instant messages.
- Web conferences.

If you use *optiClient 130* as SIP softphone at an OpenScape Voice system, you can:

CTI Clients for Telephone Operation

OpenScape Xpressions optiClient 130

- conduct simple video connections and video conferences.
- use the above special XPR server features, if your optiClient 130 is connected to an XPR server in parallel.

Beyond that, Furthermore, the modular *OpenScape Xpressions OptiClient 130* structure enables you to customize the features and representation of the application.

OpenScape Xpressions optiClient 130 cannot only be deployed on individual user PCs. As CTI client, you can also deploy the program in a terminal server environment.

You find more detailed information about operating the CTI client optiClient 130 in the *optiClient 130* operating instructions.

3.3 *OpenScape Web Client*

With the OpenScape Web Client you can use a CTI client that enables the following features via the intranet or internet.

The *OpenScape Web Client* offers a similar functional range as the optiClient 130 desktop client.

The *OpenScape Web Client* is a fully developed communications control tool. With the *OpenScape Web Client* you can extensively handle and monitor your voice communication from your workstation. Employees who need to handle a lot of information can use the *OpenScape web client* to manage their communications flow and access security-relevant company resources in real time.

The *OpenScape Web Client* main features are:

- **Initiating and managing calls**
OpenScape Xpressions provides various features, for example to initiate calls, join a conference and monitor the operating states of your communication devices.
- **Scheduling and starting conferences**
Conveniently starting meet-me conferences, starting and managing predefined conferences or scheduling future conferences.
- **Creating and maintaining contact lists**
Managing contacts and checking whether a contact is available for voicemail, e-mail or instant messaging.
- **Journal representation**
All incoming and outgoing calls can be displayed in the **Journal (All Calls)** journal. This also considers calls that arrived during your absence since the information about these calls is centrally kept on the server. In addition, the phone numbers transmitted with incoming calls are matched to numbers contained in your contact list and, if present, the name of the caller is displayed.

You find more detailed information about operating the *OpenScape Web Client* in the *OpenScape Web Client* user manual.

4 The Conference Extension for *MS Outlook* and *Lotus Notes*

4.1 The Conference Extension

The conference extension facilitates scheduling and monitoring conferences. It provides the following conference options:

- Scheduling and initiating a voice conference (telephone conference).
- Scheduling and initiating a web conference.
- Scheduling and initiating a combined voice/web conference.
- Monitoring a scheduled and initiated telephone conference via the *OpenScape Web Client*.

4.1.1 Common

After you have installed the conference extension in *MS Outlook* and *Lotus Notes*, you are provided with the features for scheduling and initiating telephone and web conferences.

- **Conference extension for *MS Outlook***

The conference extension installed in *MS Outlook* is indicated by the conference overview button then displayed in the *MS Outlook* toolbar.



Via this button you immediately reach the **Conferences** dialog of the *OpenScape Web Client*. In this dialog you receive an overview of all scheduled telephone conferences and may make adjustments if required. Please obtain further information about editing conferences in the *OpenScape Web Client* from the *OpenScape Web Client* manual.

- **Conference extension for *Lotus Notes***

The conference extension installed in *Lotus Notes* is indicated by the conference overview button then displayed in the *Lotus Notes* toolbar.



Via this button you immediately reach the **Conferences** dialog of the *OpenScape Web Client*. In this dialog you receive an overview of all scheduled telephone conferences and may make adjustments if required. Please obtain further information about editing conferences in the *OpenScape Web Client* from the *OpenScape Web Client* manual.

4.1.2 Conference Types

With the *MS Outlook* conference extension you can configure the following conference types:

- **Voice conferences**

This type of conferences is exclusively staged via telephone.

- **Web conferences**

This type of conferences is exclusively staged using an internet connection. The *web conference* tool is used for this purpose. A web conference describes here the collective use of programs and documents during real-time computer conferences. A web conference enables the conference participants to display each other's desktop if allowed by the user. In this way all other conference participants can see the same image, knowing what everybody is on about. Documents and the entire desktop can also be shared for editing. Using the additional features you can directly discuss and illustrate matters. These additional features include, for example, the chat and whiteboard function. In case of a web conference the location in which the conference participants are situated is irrelevant. You merely need a PC with internet access and possibly a telephone. This ensures a high degree of flexibility and saves expenses for long journeys, accommodation etc. Since all session data is transmitted encrypted (256-Bit-AES encryption), sensitive data can be transmitted as well.

- **Combined voice/web conference**

In case of this conference type, a voice conference is staged simultaneously to a web conference. This a web conference with voice connection.

How to operate the conference features for *MS Outlook* is described in detail in the *Microsoft Outlook Extensions* manual. In the appendix of this manual you also find instructions for operating a web conference.

How to operate the conference features for *Lotus Notes* is described in detail in the *Lotus Notes Extensions* manual. In the appendix of this manual you also find instructions for operating a web conference.

5 Fax Mail Service

5.1 Overview

The following options are available to fax mail users in OpenScape Xpressions, depending on how the system is configured.

- You can send and receive fax messages on your workstation using the default e-mail client. When you receive the fax, it appears as attached graphics file (TIF or JPG file) in an e-mail.
- You can retrieve and output fax messages on the telephone. Fax messages can be output using
 - a) a standard fax device,
 - b) a standard printer,
 - c) any fax machine.

5.1.1 Requirements for Sending a Fax

You can use the fax function via the OpenScape Xpressions server from any PC application that permits data to be directly sent to an e-mail recipient. This chapter exemplifies how to send files from the *Microsoft Windows Explorer* as fax via the OpenScape Xpressions server.

5.1.2 Requirements for Receiving a Fax

Please read [Chapter 2, “Mailbox Editing on the PC and E-Mail Service”](#) for information on receiving a fax with an e-mail client.

For fax message editing on the telephone either read the *PhoneMail*, *VMS* or *Evo* manual depending on the installation.

5.1.3 Fax Stationery

Fax stationery consists of special fax send forms provided by your system administrator. On the fax stationery the text you wrote is automatically inserted in predefined sections.

Fax stationery may additionally contain graphic elements (e.g. a company logo, etc.). Moreover, it is possible to integrate wildcards for important send parameters (e.g. originator, recipient, send time, subject etc.) into the fax stationery. Sending the fax message sets such parameters automatically.

If your system administration has provided a set of fax stationery, you may specify which fax stationery to use for your fax messages via the *Web Assistant* (see *Web Assistant* manual), or via the fax send forms in Outlook.

This feature only works if your Internet e-mail address in your mail client is the same as the [SMTP](#) address of your OpenScape Xpressions mailbox and if the conversion of text to fax format is performed on the server.

5.1.4 Fax Display

Incoming faxes are saved in OpenScape Xpressions in an internal fax format. This fax format can also be represented by *Communications*. If you want to display incoming faxes using another mail client, you need to select a suitable conversion. Your system administrator configures one of the graphics formats listed below as the default conversion format on your system. This format is globally valid. An additional viewer software may be required if the mail client used cannot display this graphic format. You can have the system administrator set a different graphics format specially for your mailbox to facilitate access via [IMAP](#) respectively [POP3](#). You should always try to convert all mailbox data to the same graphics format since this places the least demands on the system.

The conversion process supports the following graphics formats:

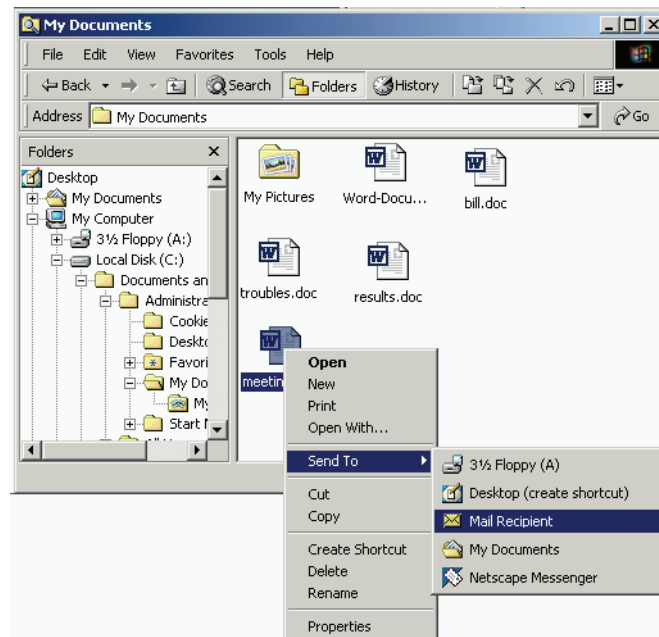
Format	Description
BMP	Windows bitmap
BMP_COL	Windows bitmap with trilinear grayscale interpolation
DCX	Multi-page PCX format (standard Microsoft fax format)
JPG	JPEG format with 9 grayscales
TIF	One-page compressed TIF fax format
TIF_BMP	Uncompressed TIF bitmap format
TG3	Multi-page compressed TIF fax format

5.2 Sending Fax Messages

To send fax messages, proceed in exactly the same way as for sending an e-mail. The recipient address selected must be an **SMTP** address that the OpenScape Xpressions server can interpret as fax address to trigger the fax send action accordingly. Please remember that not all file formats can be used to create a fax.

5.2.1 Sending Fax Messages from the *Windows Explorer*

Start the Explorer and select a file that you would like to send as a fax.



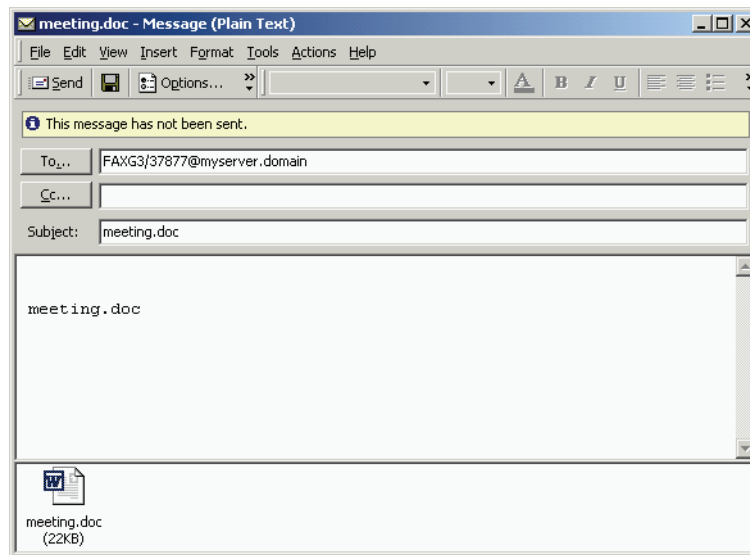
To do this, right-click the required file. The context menu of the selected file opens. From this menu select the **Send To > Mail Recipient** command. A different e-mail program can be started, depending on the links set. *Microsoft Outlook* is used in this example. Proceed in the same way for all other mail programs.

You can also explicitly open the mail program, enter your text in the program and send the text as a fax.

A window for creating a new message opens. The selected file is automatically inserted as an attachment. You must now enter the fax recipient in the form of an e-mail address:

Fax Mail Service

Sending Fax Messages



Enter the recipient's address in the **To...** box.

Heed the following addressing rules:

- Enter the **FAXG3 /** prefix at the beginning of the address.
- Now enter the user's number in the form *<internal fax number>* or *<international fax number>* by entering the *<country code><area code><fax number>* without using special characters such as blanks, plus signs or hyphens, and not in the form that you would use when dialing the number yourself.
- Append the **@** character followed by the domain address of your OpenScape Xpressions server. Contact your system administrator to find out which domain address needs to be specified here.

For example **FAXG3/37877@myserver.de** or **FAXG3/498972237877@myserver.de**

The OpenScape Xpressions server recognizes from this address that the message is to be routed to the recipient as a fax.

To send the message, click the **Send** button or open the **File** menu and select one of the send commands.

The subject line in a fax is only sent if the respective variable is defined in the fax stationery. However, the subject line continues to be used as a sort criterion in your **Sent Items** box.

5.2.2 Sending a Fax at Favorable Rates

All e-mail clients that allow setting the send job priority also allow creating fax jobs with a preset time delay, which in turn reduces charges. Among such clients you find for example *Microsoft Outlook*, *Microsoft Outlook Express* or *Netscape Messenger*. Just set the priority to *Low* or *Very Low*, and the fax will only be sent during the night. The exact send times are defined by your system administration and can be requested there.

5.2.3 Using Fax-on-Demand Services

You can use fax-on-demand services in all e-mail clients. Send a blank e-mail to the following address:

`FAXG3REV / <fax-on-demand number>@ <myserver.domain>`

This fax-on-demand number must be entered in international format. The OpenScape Xpressions server then retrieves the required fax pages for you and places them in your mailbox.

5.2.4 Fax Transmission via Microsoft Outlook

After you have installed the MAPI fax printer driver you can send fax messages conveniently from any application. You find details in [Chapter 11, "MAPI Fax Printer Driver"](#).

6 Short Message Service (SMS)

The **SMS** protocol must be installed on the OpenScope Xpressions server to allow the functions described below. Please consult your system administrator if you have any queries.

6.1 Overview

Short Message Service (**SMS**) enables you to send short messages with a standard mail program to **GSM** network subscribers, thus to mobile phone users of supported mobile phone networks.

This service also allows **SMS** scenarios to be implemented, for example, gathering Internet information and sending it as a short message.

6.1.1 Application Options

To send **SMS** messages you can select any e-mail client that provides the facility to send e-mails via **SMTP**. Such clients are, for example, *Microsoft Outlook Express*, or the *Netscape Messenger* e-mail client, which is integrated in the *Netscape Communicator*. You can also use **SMS** via Outlook with *Microsoft Exchange*, of course. You can then proceed as described here, or, with installed Exchange Connector, follow the descriptions in the *Microsoft Outlook Extensions* manual.

6.1.2 SMS for GSM Boxes

Short Message Service (**SMS**) for **GSM** (Global System for Mobile Communications) enables you to send short messages to **GSM** network subscribers with a standard mail program. In this transmission mode, one or several **GSM** boxes (also called **GSM** adapters) are connected to the OpenScope Xpressions server. These GSM boxes are special mobile phone devices construed for usage in server applications. Special cellphones with the corresponding data cable can be used as well. In this connection case the OpenScope Xpressions server behaves like a normal mobile phone subscriber.

- **SMS** for **GSM** sends via a cell phone device with corresponding board connected to the server.
- The **SMS** transmission can be so configured that merely the message subject is sent instead of the message body. Please consult your administrator on this.

Short Message Service (SMS)

Overview

- Reply messages from mobile phone subscribers are only supported in connection with specially defined variables fields in the **SMS** text. Please consult your administrator on this.
- An **SMS** message must not exceed 160 characters.

NOTE: Depending on the OpenScape Xpressions server configuration, fewer than 160 characters may be available for the actual text message. This depends on whether the **SMS** message is to be sent with additional text information. For example, the administrator may define that the originator name, a prefix or a suffix is automatically included in the **SMS** message. Prefixes are text information that with a transmission is automatically placed before the **SMS** message text, suffixes are attached to the **SMS** message text. Please consult your administrator on this.

Your system administration may configure the handling of messages that exceed 160 characters:

- a) The message will not be sent
 - b) The first 160 characters will be sent only
 - c) The first line will be sent only
 - d) All lines until the first blank line will be sent
 - e) Combination of b) and c)
 - f) Combination of b) and d)
- Approximately 300 messages can be sent per hour for every connected transmitter.
 - Umlauts and special characters from Western fonts are allowed in the messages. Some special characters may be transferred incorrectly, depending on the service center selected. Unicode **SMS**, which would be required for Greek, Cyrillic or other fonts, is not supported.
 - The network operators normally save **SMS** messages for 48 hours, if the cell phone user cannot be reached. Within these 48 hours the send process is repeated in specific intervals.

NOTE: There is no guarantee that an **SMS** message will reach the recipient. The provider may send a positive receipt signal even if the recipient number does not exist.

6.1.3 SMS via direct Provider Coupling

The **SMS** message transmission via a direct provider coupling is the most complete type of connection since it exploits all originator and recipient options. In addition, this connection type offers high performance, security and favorable prices. The OpenScape Xpressions server and provider are connected via the TCP/IP protocol. Additional security can be provided by configuring a **VPN** tunnel between the customer and provider.

- **SMS** via direct provider coupling sends directly to the provider via the TCP/IP protocol.
- An **SMS** message must not exceed 612 characters.

NOTE: Depending on the OpenScape Xpressions server configuration, fewer than 612 characters may be available for the actual text message. This depends on whether the **SMS** message is to be sent with additional text information. For example, the administrator may define that the originator name, a prefix or a suffix is automatically included in the **SMS** message. Prefixes are text information that with a transmission is automatically placed before the **SMS** message text, suffixes are attached to the **SMS** message text. Please consult your administrator on this.

Your system administration may configure the handling of messages that exceed 160 respectively 612 characters: One of eight different operating modes can be defaulted:

- a) The message will not be sent
- b) An **SMS** message with up to 612 characters will be divided among up to four SMS messages. If the **SMS** message contains more than 612 characters it will not be sent.
- c) An **SMS** message with up to 612 characters will be divided among up to four SMS messages and sent as one. If the **SMS** message contains more than 612 characters it will not be sent. Based on these submessages a modern cellphone can display a single message again.
- d) One big **SMS** message with up to 612 characters will be sent. This function must be supported by the provider. If the **SMS** message contains more than 612 characters it will not be sent.
- e) Only the first 160 characters of an **SMS** message will be sent. Further characters are omitted (compatibility mode). This mode is activated, for example, if both **SMS** send modes are available.
- f) The first 612 characters of an **SMS** message will be divided among up to four **SMS** messages. Further characters will be omitted.

Short Message Service (SMS)

Overview

- g) The first 612 characters of an SMS message will be divided among up to four SMS messages and sent as one. Further characters will be omitted. Based on these submessages a modern cellphone can display a single message again.
- h) This first 612 characters of an SMS message will be sent in one big SMS message. This function must be supported by the provider. Further characters will be omitted.
- Approximately 30000 messages can be sent per hour for every connected transmitter.
- Umlauts and special characters from Western fonts are allowed in the messages. Some special characters may be transferred incorrectly, depending on the service center selected. Unicode SMS, which would be required for Greek, Cyrillic or other fonts, is not supported.
- The network operators normally save SMS messages for 48 hours, if the cell phone user cannot be reached. Within these 48 hours the send process is repeated in specific intervals.
- Your system administrator can default the following delivery notification settings:

Settings	Remark
None	Do not request delivery notifications from the provider for sent messages.
Default	It is up to the provider which notification types are used for sent messages.
Special	Here the administrator can define that for the following delivery states information will be transmitted: Delivery Notification: The provider sends reports if the SMS message has been successfully transmitted. Failed Notification: The provider sends reports if the transmission of an SMS message has failed. Buffered Notification: The provider sends reports if SMS messages are buffered, because e.g. a recipient is currently not available. The process will then be repeated within a specific time frame.

6.1.4 GSM Box Features and direct Provider Coupling

The following table lists the features of both SMS connections, GSM box and direct provider coupling (SMS IP). Depending on the version installed, this needs to be considered for individual SMS transmission.

Send SMS

Feature	Comment	GSM box	SMS IP
Sending		✓	✓
Extra long SMS messages	Up to 612 characters.	✗	✓
Special characters	Depending on the receiving cellphone and provider.	✓	✓
Euro sign	Depending on the receiving cellphone and provider.	✗	✓
Performance	Depending on the provider.	300 SMS messages per hour	30000 SMS messages per hour
Extended message tracking	The additional send reports: sent, saved, not saved.	✗	✓
Adaptable originator recognition	If supported, then depending on the provider and contract.	✗	✓

SMS message receiving

Feature	Comment	GSM box	SMS IP
Editing		✓	✓
Extra long SMS messages	Up to 612 characters.	✗	✓
Special characters	Depending on the sending cellphone and provider.	✓	✓
Euro sign	Depending on the sending cellphone and provider.	✗	✓
Addressing via calling number		✗	✓
Addressing via token in the message text		✓	✓
Receiving via fixed calling number		✓	✓

Short Message Service (SMS)

Sending short Messages

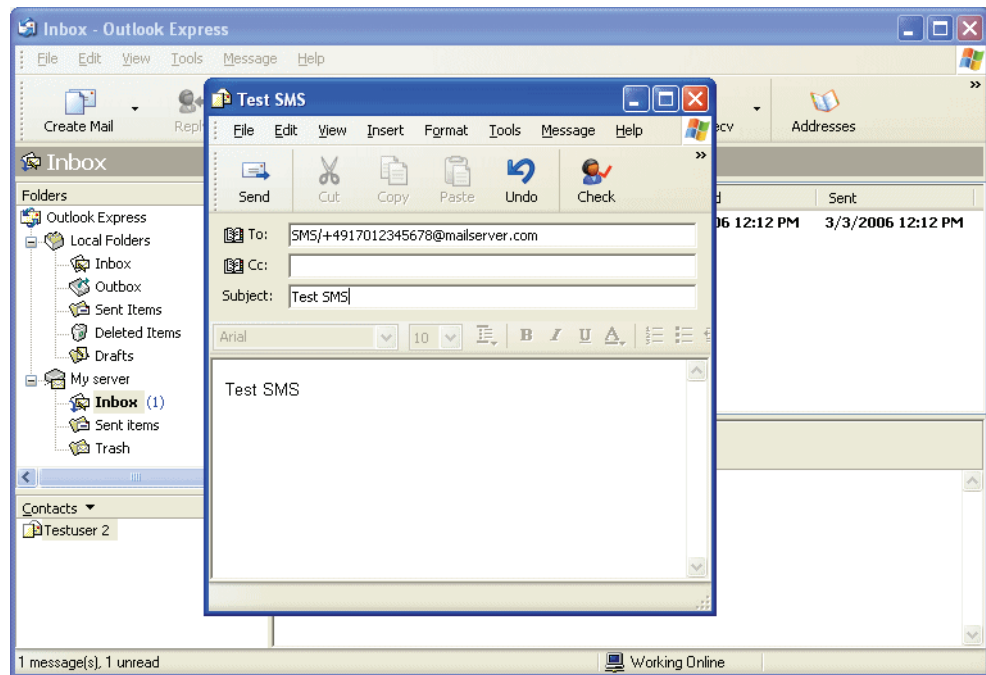
Feature	Comment	GSM box	SMS IP
Receiving via speed dialing code		✗	✓
Receiving as VSMSC		✗	✓

6.2 Sending short Messages

SMS messages can be sent from each client. The connecting type, GSM box or direct provider coupling, is insignificant for addressing an SMS message - the process is always identical so that the user will not notice any difference when sending SMS messages. Merely the performance spectrum is slightly restricted in case of sending SMS messages by GSM box. You find information on the different features in Abschnitt 6.1.4, “GSM Box Features and direct Provider Coupling” auf Seite 6-59.

The following section describes how to use the mail software *Outlook Express* for sending SMS messages to cell phone users in the supported mobile phone networks. The procedure is identical if you want to use a different e-mail client.

The Internet e-mail software used must support the SMTP standard e-mail protocol (for outgoing e-mails) if you want to use it to send SMS messages to cell phone users in the supported mobile networks.



How to send an SMS message with *Outlook Express*:

1. Start *Outlook Express*
2. Select the command for creating a new message.
 - a) Via **File > New > Mail Message**
 - b) With a click on the **Create Mail** iconThe **New Message** dialog opens.
3. Enter the recipient's address in the **To...** box.
When addressing, please heed the following rules:
 - Begin the address with the *SMS* / prefix
 - After the prefix enter the call number of the mobile phone subscriber in the complete *GSM* format. (You can omit the + character).
 - Subsequently enter the @ character followed by the domain address of your OpenScape Xpressions server.
4. When sending via *GSM* box:
If your system is so configured that only the text in the text field is transmitted: Enter a message header as information text for your own filing in the subject line. Entries made in this line will not be transmitted during the sending process. Enter the short message in the designated text input area. The message may consist of a maximum of 160 characters. Special characters are permitted. Avoid rich text formats (fonts, font sizes, font colors, etc.). Formats of this kind are lost when the message is sent. If you use an auto signature on e-mails, note that the signature is then part of the message text. You are recommended to delete auto signatures from *SMS* messages.

If your system is so configured that the subject line is transmitted only: Fill in the **Subject** entry line. Text that may have been entered in the text field will not be sent.

NOTE: Remember that with some configurations also the user name, a prefix and a suffix might be added, so that for the actual message fewer characters are available. Please consult your administrator on this. If the entire message comprises more than 160 characters, the originator is informed by report that it could not be sent.

5. When sending via direct provider coupling:
If your system uses this type of provider coupling, you can, depending on the configuration, send messages with up to 612 characters. Your administrator will tell you whether this is possible and how to handle the transmission of extra long *SMS* messages. See also [Section 6.1.3, "SMS via direct Provider Coupling"](#), on page 57. The message text will be sent only. A message header that you may have entered in the subject line will be used as information text for your filing. Special characters are permitted. Avoid rich text formats (fonts, font sizes, font colors, etc.). Formats of this kind are lost when the message

Short Message Service (SMS)

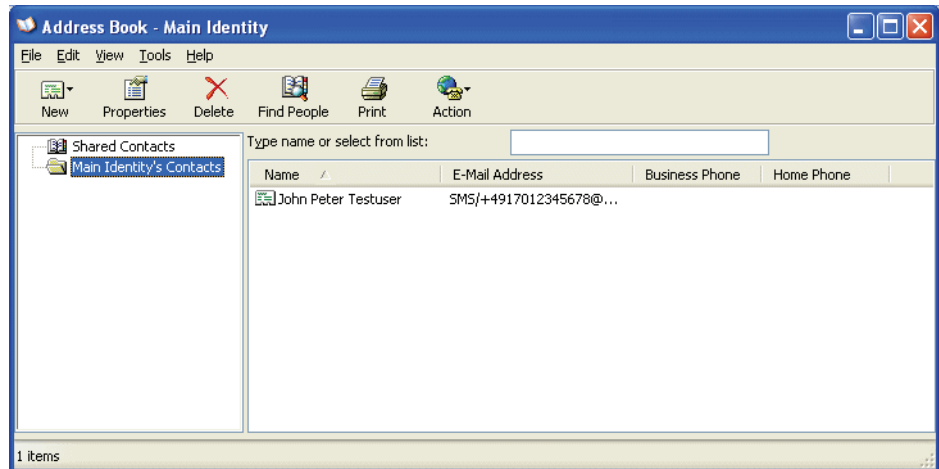
Sending short Messages

is sent. If you use an auto signature on e-mails, note that the signature is then part of the message text. You are recommended to delete auto signatures from **SMS** messages.

6. Send the message or place it in the outbox for sending at a later date.

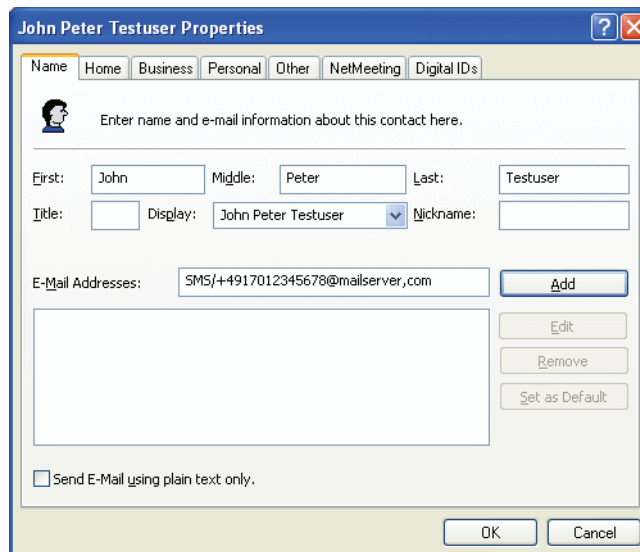
Adding an **SMS** address to the Outlook Express address book

If you want to send **SMS** messages to one particular user on a frequent basis, it is more convenient to add the address to the *Outlook Express* address book.



Proceed as follows to add an **SMS** message recipient to the address book:

1. Open the *Outlook Express* address book via **Tools > Address Book**.
2. Select the command for specifying a new entry (**File > New Contact** or button **New > New Contact**). The **Properties** dialog opens.



3. Select the **Name** tab as illustrated above.
4. Enter the recipient's address in the **E-Mail Address** box.

When addressing, please heed the following rules:

- Begin the address with the *SMS* / prefix
- After the prefix enter the call number of the mobile phone subscriber in the complete *GSM* format. In the example above, +49 stands for Germany, 170 is the area code for the network and 12345678 is the user's number.
- Subsequently enter the @ character followed by the domain address of your OpenScape Xpressions server.

You can enter further recipient data on additional tabs of the dialog as usual.

You can now click the **To...** button and select the entry from the address book when you wish to create a new message. The names entered in the **First Name** and **Last Name** boxes in the *Outlook Express* address book entry are copied to the address line.

6.3 Receiving from SMS

SMS messages received without special recipient ID in the message text are forwarded to the **Postmaster**.

Direct *SMS* message transmissions to a specific subscriber can be configured in the *SMS* text via a coded recipient specification. The administrator defines which special characters identify this entry, and which recipient information is used for the assignment. The recipient ID can be placed in an arbitrary position within the *SMS* message body. The ID within the *SMS* message body corresponds, for instance, to one of the following patterns:

```
<message text>*<recipient>#<message text>
```

```
<message text><<recipient>><message text>
```

Examples:

```
*1234#Hello Mr Mayer, ...
```

```
<Lisa User>Hello Mr Mayer, ...
```

The administrator will tell you which information to fill in for the *<recipient>* variable and which separators to use.

NOTE: If the automatic transmission of the user name with each *SMS* message sent is configured, this text information can also be used for inbound routing. The recipient of the *SMS* message only needs to copy this information, placed between the separators, to his/her reply, and the delivery occurs automatically.

6.4 Tips for Everyday Use

6.4.1 Sending a Callback Number

You can enter the number under which you can be reached in a separate line in the **SMS** message. Example:

```
Hello Martin, Stephen here. Please call me at the following  
number: 089722123456
```

A number is automatically selected when you scroll a message in the Siemens S4, S6 and S10 mobile phones. This number can be dialed directly when you push the talk key.

6.4.2 Sending SMS Messages from Intranet Pages

If you are working in an intranet environment and are providing WWW pages for other users, you can create hyperlinks in these pages which will allow users to send **SMS** messages directly to cell phone users in the supported networks. A sample **HTML** link is provided below:

```
<a href="mailto:SMS/436647654321@myserver.domain">  
SMS to Martin's cell phone</a>
```

The addressing after `mailto:` is the same as the direct address entry in an Internet e-mail software (see [Section 6.2, "Sending short Messages", on page 60](#)).

You can also use the addressing in **WWW** server applications such as CGI scripts.

7 OpenScape Xpressions Voice Mail Systems

7.1 Ergo

Ergo is the name of the new Siemens Enterprise Communications GmbH & Co. KG voice mail system. *Ergo* represents, like other voicemail systems, access to the XPR server via telephone. It allows users in an Integrated Messaging (IM) or True Unified Messaging (TUM) environment to access their mailbox and also to perform a multitude of settings by means of telephone keys. Moreover, the system is not bound to a specific type of PBX. Thus *Ergo* is the user interface via which the mailbox content is put out and mailbox functions are administered per telephone. Mailbox is the term for the data directory in which all incoming messages, be it an e-mail, a fax or voice mail are stored for processing at a later date. With reference to the manifold configuration options provided by *Ergo*, the system, as its name already suggests, enables Ergonomic operation of all functions as far as possible.

Ergo can be used in different operating modes. These operating modes vary in the available functions:

- The standard mode
It offers the basic *Ergo* features and hides all functions that are used only occasionally.
- The enhanced mode
Provides all main menu functions. The user can toggle between standard and enhanced mode at will.
- The extended mode
The extended mode must be implemented by the administrator. This operating mode provides further detailed settings and is intended for users who operate their mailbox exclusively by telephone, thus, who do not have a workstation PC for performing settings.

In the standard mode you can...

- ...edit newly incoming messages or those you have already played.
- ...record new voice mails and send them.
- ...be directly connected to another subscriber or to the operator.
- ...perform the fast editing of the day greeting.
- ...modify your mailbox option settings. In the standard mode for example: record a welcome greeting, record your name, toggle to the enhanced mode, etc.

In the enhanced mode you can use the following features in addition to the standard mode functions:

- Recording up to nine greetings
- Defining three trusted numbers, etc.
- Modifying your message options. Among these are...
 - ...the installation of the notification function (informs about the arrival of new messages). This includes the definition of a cellphone number as address for the notification and specifying the type of message the notification is to apply to,
 - ...the configuration of additional specific message options. These are: switching the sorting order or filtering in the mailbox, and allowing messages with attributes such as “urgent” or “confidential”.

The extended mode enables further detailed mailbox option settings:

- Settings for greetings to be played during business hours (daytime mode),
- Settings for greetings to be played out of business hours (nighttime mode),
- Definition of the associated time settings,
- Testing the complete settings.

You find detailed information on the *Ergo* features and operation in the *Ergo manual*.

7.2 Evo

Evo (Extended Voice Operation) is the name of the new voice-operated voice mail system. Similar to other voice mail systems, this system provides access to the OpenScape Xpressions server via telephone. Contrary to the existing voice mail systems, which are operated via telephone keys, the functions are activated by user voice entries in *Evo*. I.e. all actions a user wants to perform for operating and configuring his/her mailbox are realized via spoken commands. The speech recognition system allows users in an Integrated Messaging (IM) or True Unified Messaging (TUM) environment to access their mailbox and also to perform a multitude of configuration settings.

NOTE: *The administrator configuration of EVO can provide the user in each menu branch with the key operation option in addition to voice control. This may be required e.g. if the automatic speech recognition does not guarantee sufficient recognition because of external factors (temporary construction noise, impairment of the user's audibility etc.).*

7.2.1 Voice Control

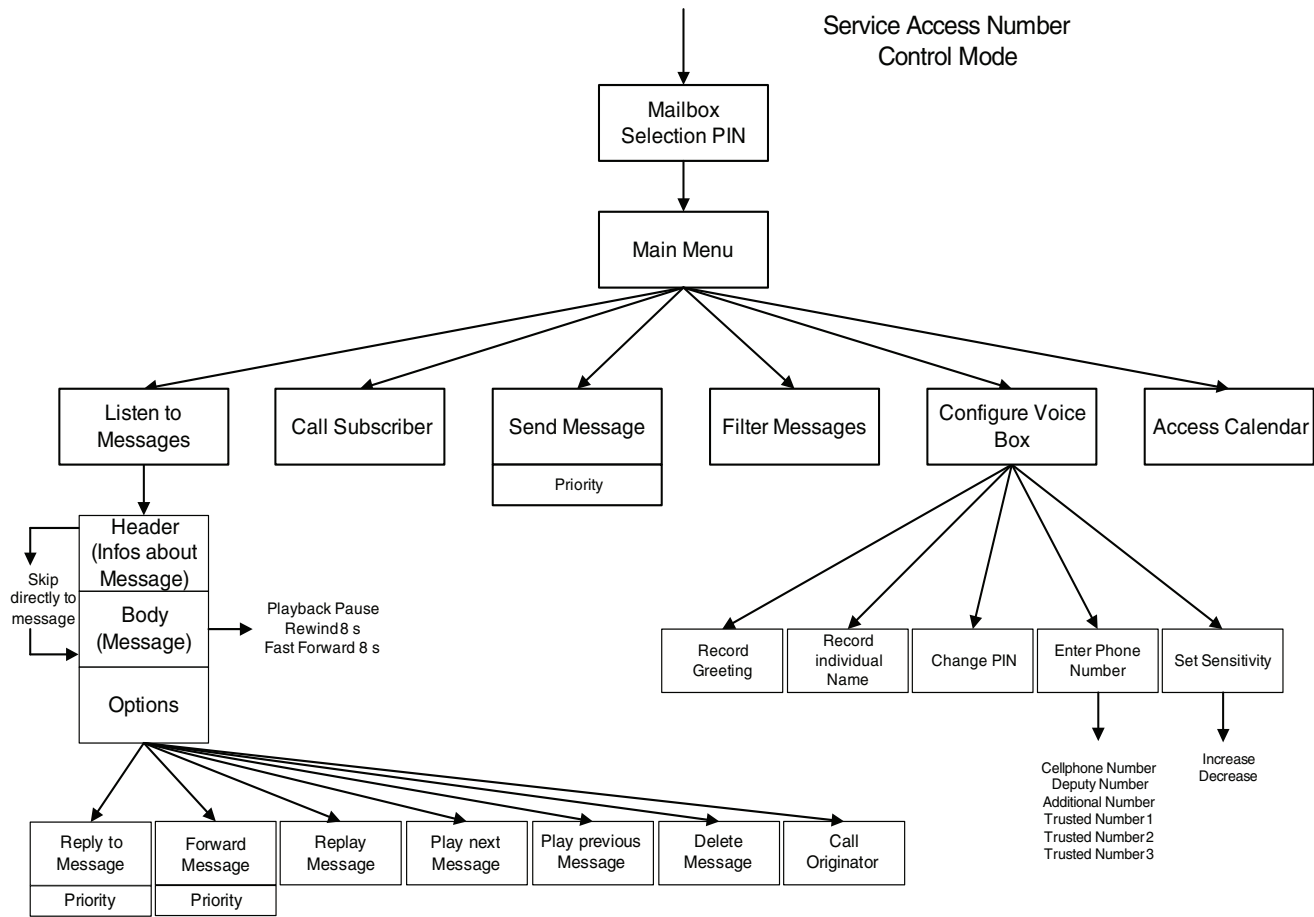
Voice-operated usage is possible because of a highly efficient speech recognition software. This is characterized by a significantly increased recognition rate. Speech recognition works according to the following principle: the voice command that has been entered is converted into an electric signal. Subsequently this signal is compared to generated signals of different text strings that are stored in so-called grammar files. From this, the system calculates a percent value (e.g. 85 %) that determines as recognition threshold whether the match is sufficient to provoke the command or not. If this value is above the recognition threshold defined as minimum level, the command is executed. If the value is below it, the system prompts you to repeat your entry. For a fluent workflow it is absolutely necessary that the user articulates the commands clearly.

7.2.2 Mailbox editing by Telephone with *Evo*

In principle *Evo* thus is the user interface via which the mailbox content is put out, mailbox functions are administered by telephone and telephone connections are established. Mailbox is the term for the data directory in which all incoming messages, such as e-mail, fax or voicemails are stored for processing at a later date. *Evo* provides the following features:

- Editing newly incoming messages or those you have already played.
- Recording new messages and sending them.
- Being directly connected to another subscriber or to the operator.
- Modifying your mailbox options.

7.2.3 The Evo Menu Structure



You find detailed information on the *Evo* features and operation in the *Evo* manual.

7.3 OpenScape Xpressions PhoneMail

OpenScape Xpressions PhoneMail is a software-based voice mail system that can be operated as stand-alone voice mail system, also allowing mailbox access in a Unified Messaging environment. In this way it is possible to manage all messages delivered to the OpenScape Xpressions mailbox almost exclusively by telephone instead of via a client application (*Web Assistant*, *Microsoft Outlook*, *Lotus Notes*, *Communications* etc.).

You can:

- Edit all messages that were delivered to your own mailbox. For example, play voice mails, print out fax messages, and have e-mails read out, or answer and forward these messages.
- Record voice mails and send them.
- Configure send options for voice mails.
- Set the personal reply options: creating greetings, defining deputies and configuring call diversions, etc.
- Be directly connected to other subscribers.
- Edit your personal mailbox settings

7.3.1 Mailbox Editing by Telephone with *PhoneMail*

With *PhoneMail* you manage your mailbox via telephone.

PhoneMail enables you to retrieve and administer messages such as voice mails, faxes or e-mails. Furthermore, you can record voice mails for other users and subsequently send these messages. You can also directly address the mailbox of another subscriber to leave a message for this subscriber. You can divert callers to your mailbox and enable them to leave voice mails there (answering machine function), or play a personal greeting to them (infobox mode). Various special functions, such as the direct connection to the originator of an incoming message, are also included in the scope of features.

All OpenScape Xpressions users have their own mailbox on the OpenScape Xpressions server. With *PhoneMail* you can access a mailbox via any telephone. This means that you can use an internal telephone connected to your organization's PBX as well as an external telephone, connected to your organization's PBX via a trunk code, to access your mailbox.

You find detailed information on the *OpenScape Xpressions PhoneMail* features and operation in the *PhoneMail manual*.

7.4 OpenScape Xpressions VMS

OpenScape Xpressions VMS is a software-based voice mail system that can be operated as stand-alone voice mail system, also allowing mailbox access in a Unified Messaging environment. In this way it is possible to manage all messages delivered to the OpenScape Xpressions mailbox almost exclusively by telephone instead of via a client application (*Web Assistant, Microsoft Outlook, Lotus Notes, Communications* etc.). You can:

- Edit all messages that were delivered to your own mailbox. For example, play voice mails, print out fax messages, and have e-mails read out, or answer and forward these messages.
- Record and send voice mails (also by broadcast).
- Record dictations and send them.
- Set the personal mailbox options (special functions): creating greetings, defining deputies and configuring call diversions, etc.
- Modify your answering machine settings by fast access.
- Be directly connected to other subscribers.

7.4.1 Mailbox Editing by Telephone with VMS

With *VMS* you operate and manage your mailbox via telephone.

VMS enables you to retrieve and administer messages such as voice mails, faxes or e-mails. Furthermore, you can record voice mails for other users and subsequently send these messages. In addition, you have the option of directly addressing the mailbox of another subscriber to leave a message for this subscriber. You can divert callers to your mailbox and enable them to leave messages there (answering machine function), or play a personal greeting to them (info box mode). Various special functions such as direct connection to the originator of an incoming message are also included in the scope of functions. *VMS* also allows you to record and edit dictations and to broadcast messages.

All OpenScape Xpressions users have their own mailbox on the OpenScape Xpressions server. This means that you can use an internal telephone connected to your organization's PBX as well as an external telephone, connected to your organization's PBX via a trunk code, to access your mailbox with *VMS*.

You find detailed information on the *OpenScape Xpressions VMS* features and operation in the *VMS manual*.

7.5 OpenScape Xpressions PhoneMail and OpenScape Xpressions VMS

PhoneMail and *VMS* can be used in parallel.

7.5.1 Differences in Functionality and Operation between *PhoneMail* and *VMS*

The table below summarizes the differences in functionality and operation between *PhoneMail* and *VMS*. It should aid you in deciding which voice mail system to use for which purpose. In addition, it highlights the differences in operation.

Task	VMS	PhoneMail
Station authentication for direct access/mailbox playback	by means of code number (=Hicom PIN) and password (PIN)	by means of phone number and password (PIN) / password (PIN)
Password optional	X	-
Exit from address entries	* (star)	# (pound)
Return to main menu from all branches	0*	-
Send broadcast	X	-
Create dictation (privilege required)	X	-
Access to sent objects	X	-
Job processing	job-oriented	session-oriented
Help function	-	X
Quick reference	-	X
Using general greetings	X	-
Sequence when sending messages	addressing, then recording message	recording message, then addressing
Variable forward access	-	X

OpenScape Xpressions Voice Mail Systems

OpenScape Xpressions PhoneMail and OpenScape Xpressions VMS

8 CyViewer

8.1 Generals

The *CyViewer* is a client program for viewing fax messages and playing voice mails. It can be integrated in any **IMAP**-based client environments (for example Novell Groupwise etc.).

The *CyViewer* enables the following functions:

1. For Fax Messages
 - Opening files of the formats Fax G3/G4-**TIF**.
 - View adaption (enlarging, turning, browsing in multipage fax messages, widening to the current window size and full-page preview).
 - Commenting fax messages. This means insertion of images or text. In this way a fax can be furnished with remarks before being forwarded or replied to, or a fax form can be filled in.
2. For voice mails
 - Opening **WAV** files.
 - Playing **WAV** files (either via sound card or telephone).
 - Attaching a voice comment to the **WAV** file (either via sound card or telephone) and saving the result on the computer.

The *CyViewer* is connected to the XPR server via the XPR Service Provider (MSP). The service provider is the global substructure for all XPR client applications that use XPR server services. A user profile is required for the *CyViewer* to access the XPR database via the service provider. User profile generation can occur automatically via the Windows user account, provided your administrator has configured the XPR server accordingly. Otherwise a user profile must be defined manually. Consult your administrator on this.

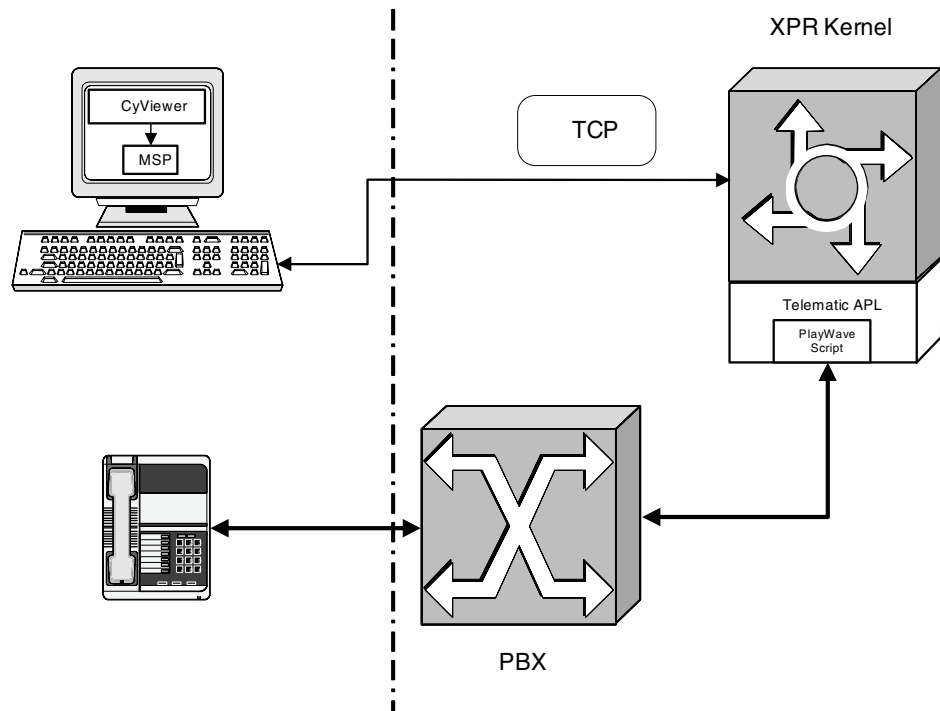
8.2 Who should read this Chapter?

This chapter is intended for *CyViewer* users as well as for system administrators. Here the user finds *CyViewer* operating instructions, and the administrator will be guided along the correct installation of this client program.

8.3 System Requirements

- Please refer to the *Release Notice* to learn which Windows operating systems have been released for the *CyViewer* installation.
- The *CyViewer* requires a Telematic APL with installed PlayWave protocol. This protocol is already implemented in the default installation.

The following overview shows the integration of the *CyViewer* in the system environment.



8.4 Installation

You install the *CyViewer* by locally executing the corresponding `setup.exe`. The setup does not require any user entries except for a possible installation directory change. Merely confirm the individual installation steps with **Next** and **Finish**.

NOTE: The OpenScape Xpressions service provider will be automatically installed in the course of the *CyViewer* installation if the provider has not been installed on the client computer yet.

During the installation the *CyViewer* registers with the system for the **TIF** and **WAV** file types. This enables you to automatically start the *CyViewer* with a doubleclick on such files.

8.5 Operation

8.5.1 *CyViewer* Operating Basics

There are different methods of operating the *CyViewer*. Which of these is the most suitable one depends on your personal preferences. Two examples will illustrate the useful employment of the *CyViewer*.

The fast version:

When you receive an e-mail that contains a file attachment in the appropriate formats **.WAV** (voice mail) or **.TIF** (fax), double-click the attachment. The *CyViewer* starts automatically and opens this message simultaneously. Now you can use the view/playback functions provided and edit the message. Subsequently you can save it in an arbitrary directory on the computer for archiving or forwarding.

The systematic version:

1. Preparation:

Define a directory for exclusively storing incoming fax and voice mail messages. Name it for example **FAX_VOICE** so that you can easily find it.

2. Storing fax messages and voice mails:

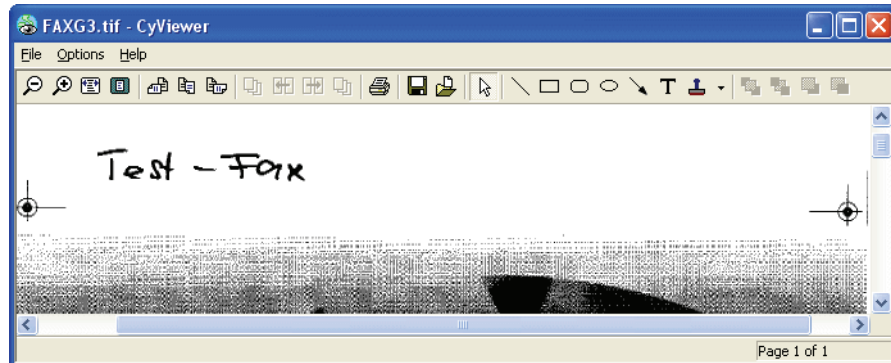
When you receive an e-mail that contains a file attachment with the file name extension **.WAV** (voice mail) or **.TIF** (fax), store the attachment in the previously defined directory so that the original attachment is immediately archived.

3. View/playback and editing of fax messages and voice mails:

In the Explorer switch to the directory that contains your messages. Double-click the corresponding message. The *CyViewer* starts automatically and opens the selected file simultaneously. Now you can view/play, edit and subsequently store the message for archiving or forwarding under a new name.

8.5.2 Viewing and Editing Fax Messages

When you open a fax message with a double-click, it is displayed in the CyViewer's viewing or editing window.













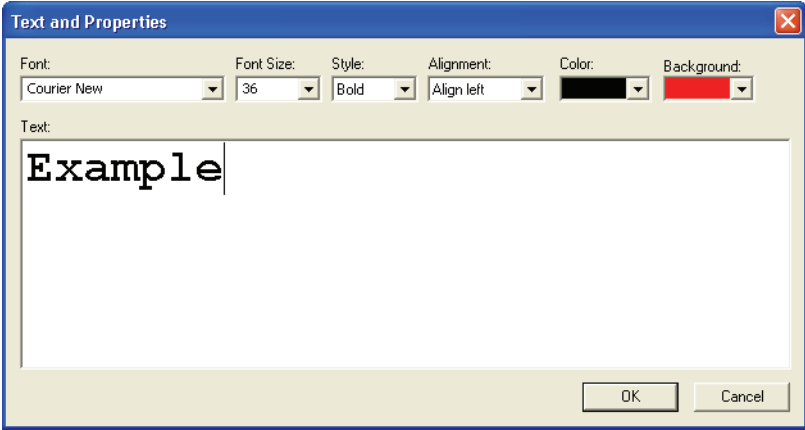





Via the toolbar you can influence the fax view and insert various graphical elements in the fax message.

You can use the following options to customize the fax view:

Icon/Command	Function
	Enlarges the fax display stepwise. Fax enlargement is performed in 8 % steps referred to the basic value (maximum 11 steps).
	Downsizes the fax display stepwise in 8% steps from the basic value (maximum 11 steps).
	Rotates the representation by 90° counterclockwise.
	Rotates the representation by 180°.
	Rotates the representation by 90° clockwise.
	Displays the first page of a multipage fax document. The icon is only active with multipage fax messages.
	Skips back to the previous fax page in a multipage fax document. The icon is only active with multipage fax messages.
	Skips forward to the next fax page in a multipage fax document. The icon is only active with multipage fax messages.
	Skips to the last fax page in a multipage fax document. The icon is only active with multipage fax messages.
	Generates an ideal adaption of the fax to the width of the currently open window.
	The fax is represented as complete page regardless the display window size.
	Prints the fax document.


The following options are available for editing the fax message:

Icon/Command	Function
	Saves fax document modifications temporarily. Inserted elements are integrated in the fax in gray scale representation. In this way you can check the appearance of the fax message in which it will arrive at the recipient later on. Note: This function does not allow the permanent saving of the edited document; use the Save as  feature for this purpose.
	Saves a copy of the edited fax document in an arbitrary directory. Enabling this icon opens a file selection dialog. To save a fax you can use the special fax formats TIF fax document (*.TIF, *.TIFF) and fax document (*.fax, *.fg3, *.fg4).
	Marks objects already implemented. The mousepointer that first appears in the shape of an arrow is replaced with a crossed double arrow when it is moved onto a selectable element. A click with the left mousebutton selects this object. Alternatively you can select objects for editing when you draw a frame around the desired elements with the left mousebutton kept pressed.
	Generates an arbitrary line in the fax document. Place the paste marker at the desired starting point of the line and draw the line with the left mousebutton kept pressed. As long as the button is not released you can determine the direction, origin and length of the line.
	Inserts a rectangle in the document the same way as a line. Through moving the editing points with the mouse (the mouse pointer changes its appearance depending on the activities performed), the shape of the rectangle as well as its position in the document can be adapted any way you like.
	Inserts a rounded rectangle. You can move the markers to design the shape. The corners' radius can be modified as well. Seize the inner of the two markers (at the bottom right corner of the rectangle) and move it within the rectangle until the desired shape has been adopted.
	Draws an ellipse or a circle in the fax document. The editing options are the same as already described for the rectangle.
	This function for drawing an arrow is identical with the line function except for an arrow head being attached to the line end.
	By means of this option you can add text objects to your fax. Enabling it opens the "Text and properties" window. In the editing field enter the desired text. Formatting the text is then performed via the options above this field,

Icon/Command	Function
	
	<p>The following settings are possible:</p> <ul style="list-style-type: none"> • Font By selecting a character set from the types installed in Windows. • Font Size Indicates the type size in a range of 8 to 72 point. • Style Normal, Medium, Semi Bold and Bold. • Alignment Align left, center, right and block. • Color Opens a color chart from which you can select the desired color for your object. Note that up to now transmitting colored objects per fax is scarcely possible. Therefore colored parts are converted into a black/white raster before the document is sent. Depending on the colors you have chosen, the object may then appear hardly visible on the fax document. • Background Opens a color chart from which you can select the desired color for your text background. Note: Please keep in mind the restrictions to colored objects in fax documents outlined under Color. <p>After entering and formatting the text, click OK. Subsequently you can place the text within the fax page. For this purpose draw a frame with the mouse pointer in the desired place. You can then move or further edit the text. You can also insert the same text several times.</p>
	This icon provides a stamp function. For using the stamp function see Section 8.5.2.1, “Stamp Function”, on page 79 .
	Places the selected object in the background.
	Places the selected object in the foreground.
	Moves the selected object to the foreground in z-order. With several overlapping objects this process can be repeated until the selected object is completely in the foreground.
	Moves the selected object to the background in z-order. With several overlapping objects this process can be repeated until the selected object is entirely in the background.

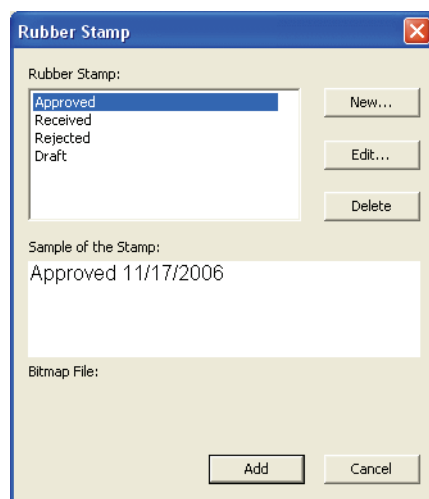
8.5.2.1 Stamp Function

Stamping a fax document

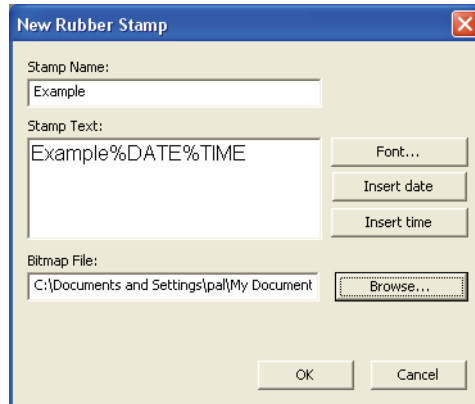
1. Enable the selection button. 
A list with stamps already defined opens.
Note: The stamps *Approved*, *Received*, *Rejected* and *Draft* are provided as system default with the installation.
2. Select the desired stamp.
The stamp will be appear top left on the currently displayed fax page.
3. Position the stamp text in the desired place of the document.
4. Edit the stamp text via the properties dialog of the context menu if required.
In doing so you can use the same functions as are available for the text function (font, font size, style, alignment and color).

Defining a new stamp

1. Enable the stamp icon . The **Rubber Stamp** dialog opens.



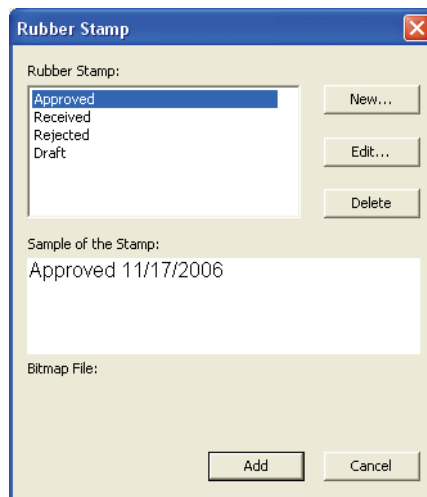
2. Click the **New...** button. The dialog for defining the stamp text opens.



3. Enter the stamp text in the editing window and design it via the **Font...** button. In addition you can insert a wildcard for **Date** and **Time** so that the current date and time is displayed with using the stamp.
4. It is possible to add a bitmap file to the rubber stamp via the **Browse** button and a file selection dialog. Thus it is possible to integrate e.g. a company logo or a signature signum.
5. Accomplish your settings with **OK**.

Editing or deleting a stamp

1. Enable the stamp icon . The **Rubber Stamp** dialog opens.



2. Select the name of the stamp the definition of which you want to edit or delete.
3. Push the **Edit...** or **Delete** button.

- a) Clicking the **Edit...** button opens the stamp definition dialog. Here you can modify all settings (font, parameters for date or time) for the selected stamp.
- b) Click **Delete** to remove the selected stamp definition from the list.
Note: The stamps *Approved*, *Received*, *Rejected* and *Draft* provided by the system are only temporarily removed from the list. They cannot be deleted.

8.5.3 Playing and Extending Voice Mails

When you open a voice mail via the **File > Open** menu or by doubleclicking the WAV file, the mail will be displayed in the *CyViewer* editing window.














8.5.3.1 Voice Mail Playback

Using the icons in the editing window's operating field you can play a voice mail either via sound card or telephone. Via sound card or telephone you can also record a voice annotation for a voice mail.


Generals	Description
Status displays	No matter which medium you use to play the message, the Position bar always displays your current position in the tone document in relation to the entire length of the recording. The total duration, the temporal position as well as the current playback status are displayed in the lower portion of the window.
<div> <div>Position: 00:00</div> <div>Length: 00:01</div> <div>Phone: 111</div> <div>Stopped</div> </div>	


You can use the following functions for editing a voice mail:

Icon/Command	Function
	Voice mail playback via telephone. After you have enabled this icon you will be called by your telephone for playing the voice mail. Depending on your settings, playback occurs via your telephone or the local telephone you have specified.
	When you select this function after clicking on the “playback via telephone” icon, your telephone is switched to the hand-free speaking mode. The voice mail is directly and loudly played via telephone or headset. Note: If you have switched the output to a local telephone, this feature is disabled.
	Finishes voice mail output via telephone. This function corresponds to putting the phone down.
	Voice mail playback via PC sound card.
	Through moving the Position slide with the mouse you can head for an estimated position in the voice message. Use the “ Position ” and “ Length ” status information as assisting indicators for this purpose.
	Interrupts voice mail playback. The process is continued when you, depending on the output medium, press one of the two playback icons.
	Stops voice mail playback and skips back to the beginning of the message.
	With a click on this icon you can rewind the voice mail by a specific time span to reach a particular point in the message. You can set this time span in the configuration dialog in gradations of 1, 2, 4 and 8 seconds.
	With a click on this icon you can fast-forward the voice mail by a specific time span to reach a particular point in the message. You can set this time span in the configuration dialog in gradations of 1, 2, 4 and 8 seconds.
	Defining an A/B repeat How to specify an A/B repeat is described in Section 8.5.3.2, “Defining an A/B repeat”, on page 82.
	Clicking this icon opens the Options dialog, in which some voice message playback parameters can be changed. See Section 8.5.3.3, “The Settings Dialog”, on page 83.


8.5.3.2 Defining an A/B repeat

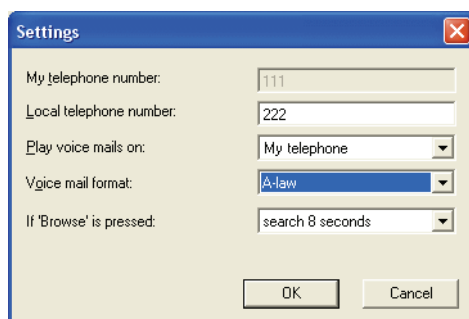
To play a specific clip of a voice message you can define an A/B repeat. Proceed as follows:


1. Place the position slider at the point from where the clip is to begin.
2. Push the  button.
3. Place the position slide at the point where the clip is to end.

4. Push the  button.
5. Push one of the two playback icons.
The clip that you have defined is played with the start of the playback function.

8.5.3.3 The Settings Dialog








Via  you can open the following settings dialog, in which some voice mail playback parameters can be modified.



Option	Description
My telephone number	If you have a telephone at your workstation and telephony functions are installed, the corresponding telephone number is displayed in this entry line.
Local telephone number:	In this entry field you can specify the telephone number of a connection used only temporarily. By this option all incoming voice messages are routed to the previously defined connection so that you can play them there. Activate this setting via the Play Voice Mails on option.
Play Voice Mails on:	This option allows switching to the telephone intended for voice message playback. You can either listen to the mail by means of your individual workstation telephone (telephone number) or you can put out the message via the device that you have specified under Local telephone . Note: If you have switched the output to a local telephone, picking up the receiver cannot be simulated via the  icon.
Voice Message Format	Via the voice format combination field you can define the ISDN message code for your country. In Europe A-Law, in the U.S. mainly μ -Law is used.
If "Browse" is pressed	Here you can define the time span for a forward/backward skip in the voice message. Four steps are available (1, 2, 4 and 8 seconds).

8.5.3.4 Recording Functions

You can attach a spoken comment to an opened voicemail and, for example, store it on your PC or forward it as attachment in an e-mail. The following functions are available for this purpose:

Icon/Command	Function
<div>   </div>	<p>The icon next to the volume bar indicates that the individual comment either overwrites the existing voice mail () or is attached to it (). You toggle between the two operating modes by clicking the respectively displayed icon.</p> <p>Note: Using the overwrite function you can generate individual recordings and send them as voice mail (file attachment to an e-mail).</p>
<div>  </div>	<p>Recording a voice mail or comment via telephone.</p>
<div>  </div>	<p>Recording a voice mail or comment via PC microphone.</p>
<div>  </div>	<p>With recordings via microphone you can set the microphone's sensitivity. Use the Volume slider to adapt the recording volume to your speaking habits.</p> <p>Note: With recordings via telephone you cannot modify the volume.</p>

8.5.4 The Menu Functions

The *CyViewer* menu functions are the same for fax and voice mail. In the menu bar you find the following menus:

- File menu
- Options menu
- Help menu

Via these menus you can select specific *CyViewer* functions.

8.5.4.1 The File Menu

Here you can trigger the functions required for basic program operation.

NOTE: Menu functions can also be initiated via hotkeys.

Command	Function
O pen...	This function opens a file selection window, in which you can select the file to be opened by the <i>CyViewer</i> .
S ave	Saves the just opened file under the same name.
S ave As...	With this option the just opened file can be saved under another name.
1 xyzFax1.tif 2 xyVoicemail1.w av 3 xyzFax2.tif 4 xyVoicemail1.w av	This menu portion lists the four fax or voice mail messages opened last. A click on the entries reopens the messages (the opposite list represents four example entries).
E xit	Closes the <i>CyViewer</i> .

8.5.4.2 The Options Menu

Command	Function
O pen With...	This function opens a program selection window in which you can select another application for opening the file. You can choose from all programs installed on this system that support this format.

8.5.4.3 The Help Menu

Command	Function
About CyViewer	Displays the <i>CyViewer</i> version installed on your system. For example: <i>CyViewer 7.11</i> (Release build xxxx). This information is required, for example, in problem reports.

9 Conversation Recorder

The installation of the *Conversation Recorder* telematic protocol enables users to record telephone conversation. From the technical point of view, a conference switch is initiated via the *Conversation Recorder*, and the *Conversation Recorder* is switched to an existing call connection as another terminal device. When you activate the recording, the participating conversational partners are informed by a greeting that the conversation is being recorded. After the conversation the recording is automatically transmitted as voice mail to the mailbox of the user who has initiated it.

IMPORTANT: We expressly point out that conversation recording by means of a recording function requires the explicit consent of all persons taking part in the conversation. Otherwise, this may constitute a violation of the data protection act of the country in which this function is used. Therefore, before you use the recording function, obtain legal advice about the corresponding rules and regulations valid in the country in which the recording function is to be used. We recommend to document the consent of the conversational partners given on the use of the recording function.

9.1 Operation

How to operate the *Conversation Recorder*:

1. You are conducting a conversation that you want to record.
2. Initiate a consultation.
3. Dial the phone number assigned to the Conversation Recorder.

All participants in the conversation now hear a message that informs them that the conversation will be recorded and recording is started.

4. Recording is stopped when
 - a) the conversation or the teleconference is finished.
 - b) one of the subscribers taking part in the conversation or in the teleconference presses an arbitrary DTMF key on his/her telephone.
 - c) the maximum recording duration set by the administrator has been reached.

The recording is then automatically delivered as voice mail to the user who called the *Conversation Recorder* by consultation.

10 Caller Guide

10.1 What is the *Caller Guide*?

The *Caller Guide* is a switching assistant preferably operated by voice. With the *Caller Guide* you can search for contacts in the OpenScape Xpressions database and immediately set up a connection to the OpenScape Xpressions user found.

A few standardized commands and an efficient speech recognition system allow to operate the CallerGuide easily via voice entries. But you can also easily use telephone keys for search entries and to control the *Caller Guide*. The usage is simplified because of the search hit list that is issued by prompts or the telephone display.

There are five options for the connection setup targets:

- Call tracking for individually configured tracking phone numbers of the OpenScape Xpressions user.
- Connecting to the voice mailbox of the OpenScape Xpressions user you want to find.
- Connecting to the workstation's phone number of the OpenScape Xpressions user you want to find.
- Forwarding the call to an operator.
- Finally: identification of fax messages and forwarding to the selected contact.

NOTE: This chapter contains exclusively the operator guidance of the *Caller Guide*. Administrators who wish to install, set and configure the *Caller Guide* protocol should consult the corresponding section of the Telematic APL chapter in the *Server Administration* manual.

10.2 Voice-activated Dialing and Telephone Keys

Operator guidance by means of the *Caller Guide* is principally possible in two ways:

- Via speech entries.
- Via your telephone keys.

The *Caller Guide* has been designed to allow usage of both versions in one search process.

10.2.1 Voice Entries

Voice-operated usage is possible because of a highly efficient speech recognition software. Speech recognition works according to the following principle: the voice command that has been entered is converted into an electric signal. Afterwards, this signal is compared to previously generated signals of different text strings that are stored in so-called grammar files. From this, the system calculates a value in percent (e.g. 85 %) that defines whether the match is sufficient for triggering the command or not in comparison with the configured recognition threshold. If this value is above the recognition threshold that has been defined as the minimum threshold, the command will be executed as recognized. If the value is below the threshold, the system asks you to confirm the result that has been recognized. In order to work smoothly it is absolutely necessary for you to say your commands very clearly.

The menu prompts simplify triggering the commands, as the name that is searched for or the respective commands are played for each step of the contact search. Keywords (voice commands) to trigger an action ensure that the *Caller Guide* can correctly recognize and execute the desired function. Furthermore, entering names and commands via voice makes working with the *Caller Guide* much faster.

For instance, you can control with your voice the security prompt asking whether a connection shall be established to a search hit. Here you are prompted to complete your action with “Yes”. By saying “No”, no connection is established and you will automatically return to the menu branch where you started your search.

As mentioned above, working efficiently with the *Caller Guide* is only possible if you say your commands clearly. Therefore you should avoid using the *Caller Guide* in environments with noisy disturbances. These might lead to misinterpretations by the recognition software. The same applies for the “hands-free” telephone mode for which the output via loudspeaker is again recognized as input.

10.2.2 Input via Telephone Keys

In addition to speech recognition, the *Caller Guide* script offers the option to use telephone keys for menu navigation. This can be required e.g. if the automatic speech recognition does not guarantee sufficient recognition quality for speech entries because of external factors (noise, impairment of the user's audibility etc).

Pushing a key starts the name dialing mode. It is also possible to say “Name” before the search and change explicitly to the name dialing mode for the contact search.

For a search via telephone keys each letter of a name or term that you wish to find is entered via one telephone key. For the letters “A”, “B” and “C” push key “2”, for the letters “D”, “E” and “F” push “3” etc.

Each entry refines the search process. Thus a unique search hit can be early detected and a hit list will be displayed for selection. Consequently, it is not necessary to enter the search term completely. This shortens the search times.

10.3 Tracking Phone Numbers and Personal Announcements

Tracking phone numbers are phone numbers the *Caller Guide* dials for setting up a connection to an OpenScape Xpressions user. A total of five phone numbers or deputies can be defined in a list. The individual list entries are dialed one after another until a connection can be established or until the complete list has been processed.

IMPORTANT: If the administrator set the **Blind Transfer** feature during the *Caller Guide* configuration, only the **first** list entry of the tracking phone numbers is dialed. The remaining list entries can be filled in the *Web Assistant*, but are not considered by the system after the activation of Blind Transfer. Blind Transfer describes the forwarding of calls though the availability of the receiving target has not been checked.

The tracking phone number configuration and the recording of personal greetings is effected via the *Web Assistant*. You configure the phone numbers via the menu option **Voice Mail System** of the **Personal settings** menu.

NOTE: If calls are redirected from the office telephone to the *Caller Guide*, the defined tracking phone numbers stay active.

Instead of using the name announcements created automatically for the individual OpenScape Xpressions users by the **TTS** system, each OpenScape Xpressions user can create their own announcement. The names of the OpenScape Xpressions users are played as result after each search.

The announcements are recorded via the menu option **Announcements** in the **Personal settings** menu and add these to the **user data**.

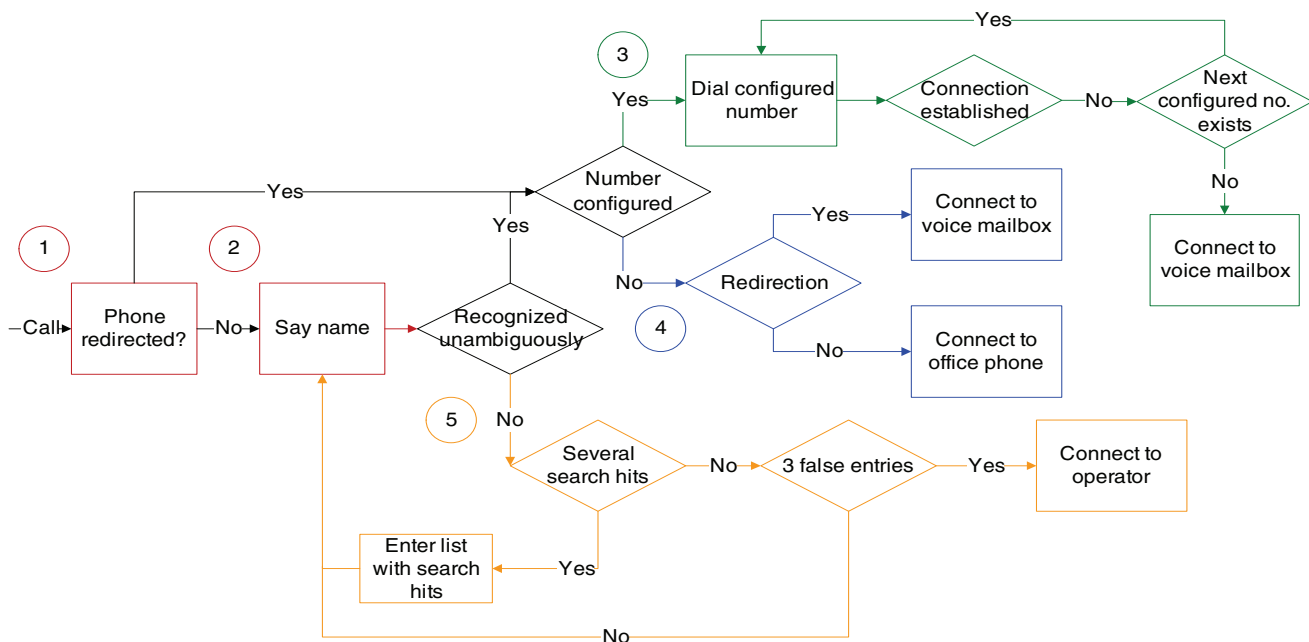
NOTE: For a detailed description of the personal user parameters of the *Caller Guide* please refer to the *Web Assistant*.

10.4 Operation

10.4.1 Basics for the *Caller Guide* Operation

After you have established a connection to the *Caller Guide*, announcements will guide you through the single connection steps. Thus you will have feedback on each operating step you have effected for a better control of your actions.

The following illustration demonstrates the possible steps and processes of the *Caller Guide*. The numbering in the illustration corresponds to the numbering of the enumeration of the single steps.



1. A redirection of the office telephone to the *Caller Guide* will be recognized and the owner of the originally called telephone is immediately accepted as uniquely identified.
2. Search a contact you would like to find by using either voice-activated dialing or telephone keys. The OpenScape Xpressions database is searched with your search entry and returns the search hits.
3. If a unique hit is found or if you select an entry from the hit list, a connection to the first configured number of the contact will be established. If it is not possible to set up a connection to this configured number, the next configured number will be dialed until a connection can be set up successfully or finally a connection to the voice mailbox of the contact is established.
4. Two different cases can be distinguished:

- a) If the called telephone is redirected to the *Caller Guide*, the *Caller Guide* recognizes this redirection and the owner of this telephone is immediately accepted as identified. If he/she has configured a number, the system tries to contact him/her immediately via this number. Otherwise you will be connected to his/her voice mailbox.
 - b) If no configured numbers of the identified contact exist and if the office phone is not redirected to the *Caller Guide*, you will be connected to the office phone.
5. If no OpenScape Xpressions user is found or if the number of search hits is too large, you have to restart your search or select an entry from a list in case several search hits were issued. After three unsuccessful search attempts you will be connected to the operator.

The next paragraphs contain a detailed description of the single steps you will need to perform.

10.4.2 Basic Features

10.4.2.1 Repeating System Announcements

If you do not trigger any of the features that have been announced in a menu, that is if you neither make a voice entry nor push a key, the announcement will be repeated in a more detailed way. To hear a prompt again, simply wait until it is repeated. This is useful, for example, if you did not hear the announcement properly.

If no entry has been made after three repetitions of the announcement, you will be automatically connected to an automatic operator.

10.4.2.2 Requesting Help

If you do not know how to continue in a menu, you can say the voice command “**Help**” and an announcement will explain the menu options. The help prompts always refer to the menu branch you are currently in. These extended help prompts will then inform you about the selections you can currently make in the menu.

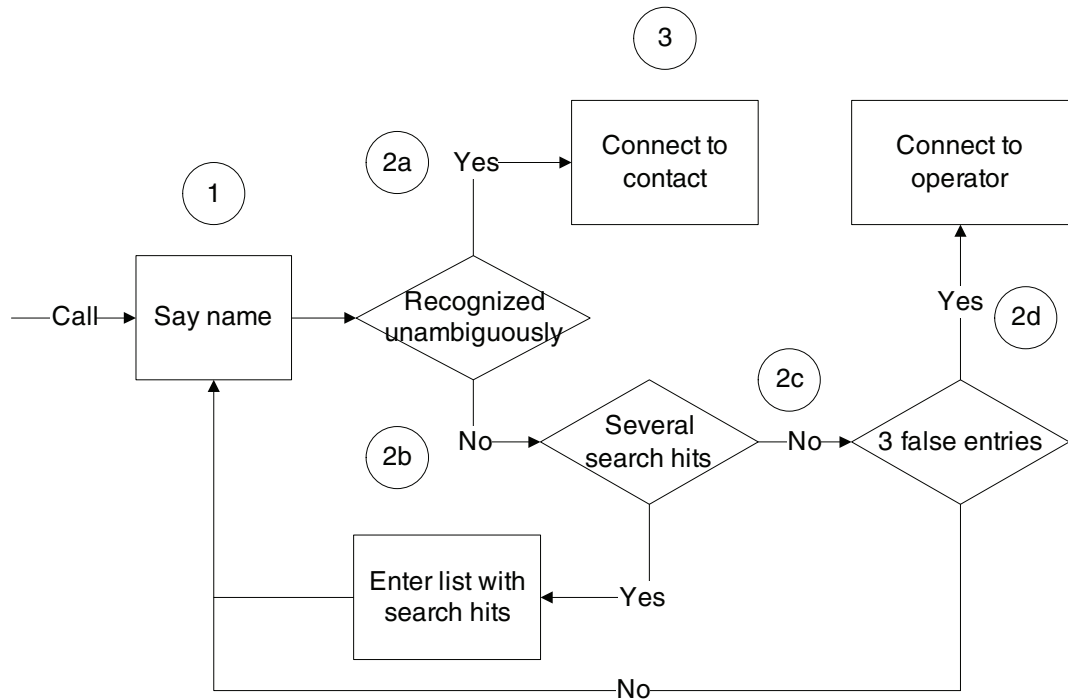
10.4.2.3 Ending a Connection

You can terminate the connection to the *Caller Guide* any time by simply hanging up the receiver of your telephone.

10.4.3 Finding and selecting a Contact

10.4.3.1 Search via voice-activated Dialing

The following illustration demonstrates the possible steps and processes of the *Caller Guide*. The numbering in the illustration corresponds to the numbering of the enumeration of the single steps.



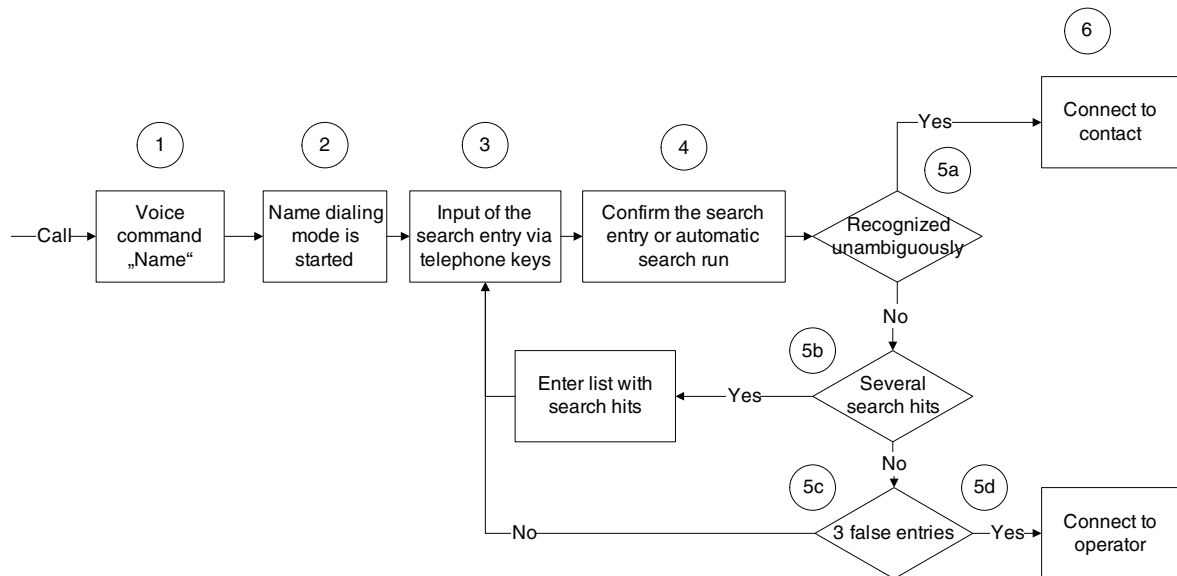
NOTE: Please make sure to say the names and commands clearly when you use voice-activated dialing. If a contact cannot be found, the reason could not only be that he/she is not in the directory, but it could also be that your pronunciation for the search has not been exact enough.

1. At first the *Caller Guide* starts with a welcome greeting when you call. You are asked to enter the contact you would like to find via voice-activated dialing. Say the name of the contact you are looking for clearly. The required order of first name and last name is explained in the announcement, since this order may vary due to the administrator settings. In both cases you can also only say the last name, but the recognition probability will then decrease.
2. The search hit(s) will now be shown in your telephone display or a prompt will be played informing you that no contact could be found.

- a) **Unique match:** A unique search hit is announced and shown in the telephone display. If the recognition value is above the threshold that has been configured, you will be connected automatically. If it is below the threshold, you first have to confirm the result that has been recognized. If you would like to be connected to the match that is displayed, say the command “Yes” or push the * key. You will return to the greeting and to the search by saying the command “No” or by pushing the # key.
 - b) **Several matches:** If several matches have been found for your search entry, you have to select one contact. Select the respective key for a list entry. The order in the list corresponds to the keys of the numbers 1 up to a maximum of 5.
If more than five matches have been found, the following options are announced:
 - You can be connected to the operator
 - You can repeat your entry in a more detailed way.
 - c) **No match:** If no match could be found for your search, return to the search and thus to 1.).
 - d) **Operator:** It is possible to search for a contact three times. After the third failed search you will be connected to the operator.
3. You will receive an announcement confirming that you are connected to the selected contact.

10.4.3.2 Search via the Telephone Keys

The following illustration demonstrates the possible steps and processes of the *Caller Guide*. The numbering in the illustration corresponds to the numbering of the enumeration of the single steps.



1. At first the *Caller Guide* starts with a welcome greeting when you call.
2. If you would like to look for the desired contact via the telephone keys, either say clearly “*Name*” or simply push the first key of the contact's name. The name dialing mode to search for a contact via the telephone keys will then be started.
3. Enter the name of the contact you would like to find via the telephone keys. Three or four letters are assigned to each telephone key. Push the respective telephone key for every single letter of the name you are looking for. However, push each key only once for each letter. For instance, push the key “1” for the letters “A”, “B” or “C” *once* and *not* twice for B or three times for C. The umlauts “ä”, “ü” and “ö” as well as “ß” become “ae”, “ue”, “oe” and “ss”. For the name “Müller” e.g. push the key sequence “6835537”.

1	2 ABC	3 DEF
4 GHI	5 JKL	6 MNO
7 PQRS	8 TUV	9 WXYZ
*	0	#

4. After each input of a digit an automatic search is started after a short time of delay. For instance, after the input “2” all entries starting with “A”, “B” and “C” are searched for and may be issued (if the maximum number of entries in the

hit list is not exceeded). If the contact that has been searched for is already displayed in this hit list, you can stop entering additional digits and instead start to establish a connection to the selected search hit.

NOTE: You do not need to enter the complete name of the contact you are looking for. Entering only a few letters already enables the search for a contact. The administrator determines the minimum number of letters that must be entered for the search. By default, the search requires two letters. However, the number of letters that have been entered increases the probability of a unique search hit, so that you do not have to render the search process more precisely or to select the contact you are looking for from a list of contacts that have been found.

If you do not want to wait for the time of delay, confirm your entry by pushing the # key and the search will be started. Pushing the * key cancels the process and you will return to the greeting prompt.

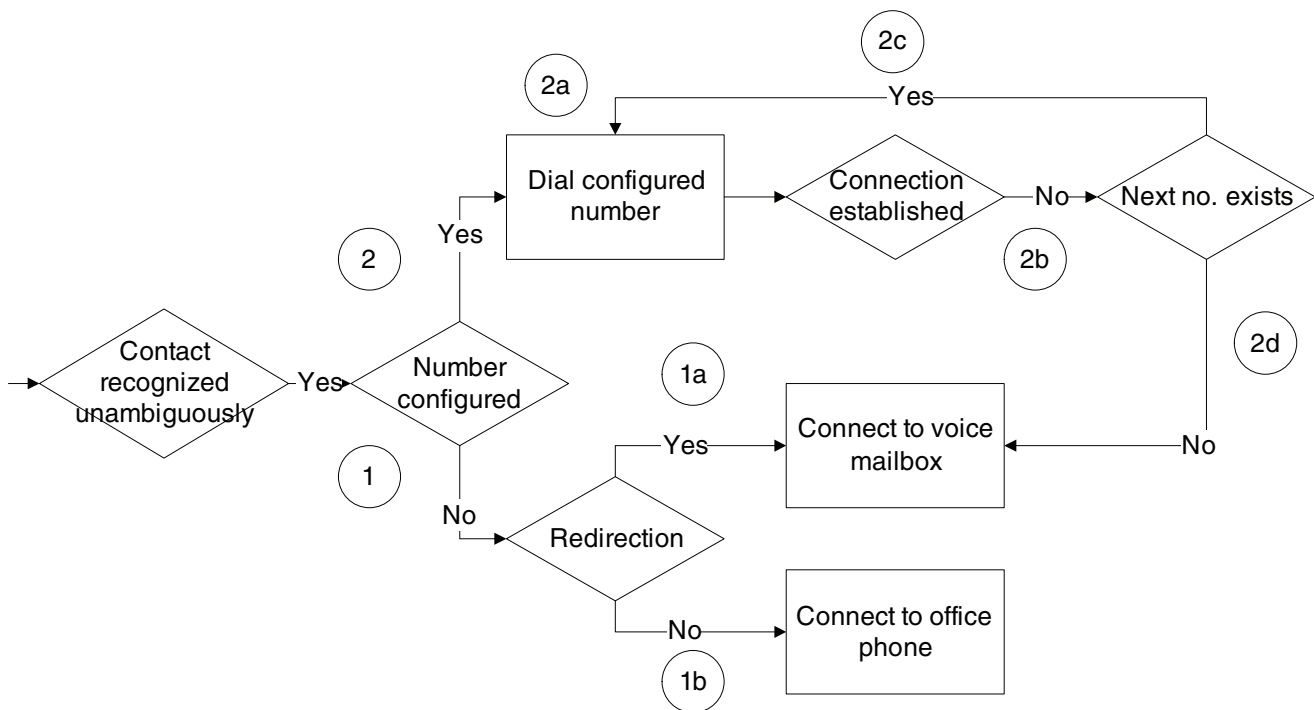
5. The search hit(s) will now be shown in your telephone display or a prompt will be played informing you that no contact could be found.
 - a) **Unique match:** A unique search hit is announced and shown in the telephone display. You are connected immediately.
 - b) **Several matches:** If several matches have been found for your search entry, you have to select one contact. Move up or down the list via the # key and select the corresponding keys to a list entry. The order in the list corresponds to the keys of the numbers 1 up to 5 maximum. You return to the greeting and thus to the search via the * key.
If more than five matches have been found, the following options are announced:
 - You can be connected to the operator
 - You can repeat your entry in a more detailed way.
 - c) **No match:** If no match could be found for your search, return to the search and thus to 1.).
 - d) **Operator:** You have three attempts to find a contact. After the third failed search you will be connected to the operator.
6. You will receive an announcement confirming that you are connected to the selected contact.

10.4.4 Becoming connected

NOTE: You cannot influence the actions that will be explained in the next paragraph. This paragraph is only meant to depict the principles of the connection setup.

If the selected contact's name could not be found unambiguously, two possibilities for the connection setup exist. These possibilities do not depend on the entries the caller made, but on the settings of the contact. These settings refer to the numbers configured in the *Web Assistant*. Consequently, the connection target depends on whether the respective contact has configured at least one phone number for further routing or if a redirection has been activated.

The following illustration demonstrates the possible steps and processes of the *Caller Guide*. The numbering in the illustration corresponds to the numbering of the enumeration of the single steps.



1. If no number has been configured for the selected contact, the following might be the case:
 - a) The contact has been identified, since he/she has redirected his/her telephone to the *Caller Guide*. You will be connected to the voice mailbox of the selected contact.
 - b) The contact has been recognized due to the caller's entries, however, he/she has not configured any numbers. You will be connected to the office phone, which is entered in the database for each OpenScape Xpressions user.
2. If at least one tracking phone number has been configured, the following steps will be performed by the *Caller Guide*:
 - a) The first number in the list of tracking phone numbers that have been connected is dialed.
 - b) If no connection to the contact can be established, the system checks whether further phone numbers are available for a possible connection.
 - c) If additional numbers exist, they are dialed one after another.
 - d) If no additional numbers exist or if no connection can be established to the additional numbers, you will be connected to the voice mailbox of the contact.

10.5 Commands

The following commands are available for voice-activated dialing.

Command	Description
"Yes"	This command confirms the connection setup to a contact that has been found. For this feature you can, depending on the configuration, either use the # or the * key.
"No"	This command discards the connection setup to a contact that has been found. You will return either to the search or to the hit list. For this feature you can, depending on the configuration, either use the # or the * key.
"Help"	Executing this command repeats the greeting prompt that contains a short explanation how to perform a search.
"Name"	This command starts the name dialing mode so that you are able to make search entries via the telephone keys.
<Name>	To search via voice-activated dialing you need to say the <name> of the person you would like to call clearly. The required order of first name and last name is explained in the announcement, since this order may vary due to the administrator settings. In both cases you can also only say the last name, but the recognition probability will then decrease.

10.6 Quick Reference Guide

The following quick reference guide provides you with the most important *Caller Guide* operating instructions.

10.6.1 Searching for a Contact via Telephone Keys

If you would like to look for the desired contact via your telephone keys, use the voice command “*Name*” or simply dial the name via your telephone. The name dialing mode to search for a contact via telephone keys will then be started.

Enter the last name and the first name of the contact you would like to find via telephone keys. Letters are assigned to each telephone key in alphabetical order. Push the respective telephone key for every single letter of the name you are looking for. However, push each key only once for each letter. For the name “Müller” e.g. push the key sequence “6835537”.

NOTE: You do not need to enter the complete name of the contact you are looking for. Entering only one letter already enables the search for a contact. After a short time of delay (depending on the administrator settings) an automatic search starts that already issues search hits, if the maximum number of allowed search hits is not exceeded. After this automatic search you can either select a match from the list, make the search more precise by entering additional digits or cancel and restart the search.

Confirm your entry by pushing the # key and the search will start automatically. Pushing the * key cancels the process and you will return to the search via name dialing mode (search via telephone keys).

Matching database entries are searched for your entry and the name of the search hit will be shown in the telephone display for confirmation as well as announced. If you receive a list with several matches, you need to select one search hit ([Section 10.6.5, “Selecting Hits from the List in Name Dialing Mode”](#)).

You may repeat the search three times. After these three search processes a connection to the operator will be established automatically.

10.6.2 Contact Search via Voice-activated Dialing

NOTE: Please make sure to say the names and commands clearly when you use voice-activated dialing. If a contact cannot be found, the reason could not only be that he/she is not in the directory, but it could also be that your pronunciation for the search has not been exact enough.

If you would like to look for the desired contact via voice-activated dialing, say clearly the last name of the contact you would like to find.

Your input is searched for and the name of the search hit will be shown in the telephone display as well as announced.

If the search by saying the last name is not unique, i.e. several entries with the same last name exist in the *OpenScape Xpressions* database, you need to render your search entry more precisely. Therefore say the first name of the selected contact or the number from the list that is played. If it is again not possible to find a unique contact, repeat saying the first name.

You may repeat the search three times. After these three search processes a connection to the operator will be established automatically.

10.6.3 Becoming connected via Telephone Keys

If a unique search hit is found in the name dialing mode, you will be connected immediately. For verification, the name of the contact will be announced and the name and the phone number will be shown in the telephone display.

If no unique search hit can be found via the name dialing mode but a list, you can find a respective explanation in [Section 10.6.5, “Selecting Hits from the List in Name Dialing Mode”](#).

10.6.4 Becoming connected via Voice-activated Dialing

If you search for a contact via voice-activated dialing, the name and the phone number of the search hit will be shown in the telephone display and the name will be announced. If the recognition rate is above the threshold value that has been configured, you will be connected immediately. Otherwise, the result that has been recognized has to be confirmed first. A connection to this contact can be established with the voice command “Yes” or by pushing the # key. The command “No” or pushing the * key returns you to the search. If the result is not confirmed for three times or if three search runs had no success, you will be connected to the operator.

If no unique search hit can be found via voice-activated dialing but a list, you can find a respective explanation in [Section 10.6.6, “Selecting Hits from the List in Voice-activated Dialing Mode”](#).

10.6.5 Selecting Hits from the List in Name Dialing Mode

If your entry was not unique, a list of your hits appears in the telephone display, provided that fewer than six hits were found. The list is thus limited to five entries to be displayed. Each entry is assigned to the telephone keys 1 to 5. The individual list entries are automatically processed. During this process the name and the phone number of the entry are displayed and the name is announced. By pushing the # key you jump to the next entry. Pushing the * key discards the hit list and you will return to the search.

10.6.6 Selecting Hits from the List in Voice-activated Dialing Mode

If your entry was not unique, a list of your hits appears in the telephone display, provided that fewer than six hits were found. The list is thus limited to five entries to be displayed. Each entry is assigned to the telephone keys 1 to 5. The individual list entries are automatically processed. During this process the name and the phone number of the entry are displayed and the name is announced. A connection to the selected contact can be established with the voice command “Yes” or by pushing the # key. Pushing the * key or saying the voice command “No” discards the hit list and you will return to the search.

10.6.7 Repetition of the Connection

If it is not possible to establish a connection with the first phone number, the next configured phone number in the OpenScape Xpressions system is searched for in an iterated process. This process is continued until a connection can be established to one of the contact's phone numbers indicated in the OpenScape Xpressions system, or until no further number is indicated. In this case you will be connected to the voice mailbox of the contact.

10.6.8 Connecting with Redirection Number

If the selected contact has not configured any phone numbers in the OpenScape Xpressions system, a connection to the voice mailbox of the selected contact will be established.

10.6.9 Fax Routing

The *Caller Guide* can recognize incoming fax messages and forward them to a selected contact. If a contact has been selected unambiguously, the fax will be forwarded to this contact. If a fax is sent to a device that is redirected to the *Caller Guide*, the contact is identified via the originally dialed number and the fax will be sent to the mailbox of this contact.

11 MAPI Fax Printer Driver

After you have installed the MAPI fax printer driver you can send documents as fax message from any applications via the Microsoft MAPI interface or via the fax form of the *Microsoft Outlook Extensions*. To this, a printer driver named **Tiff Fax G3 TurboBits Printer** is installed on the system. This driver is directly connected to the MAPI interface. The document is sent to the printer driver via the **Print** function of your application, and transmitted as fax message from there.

IMPORTANT: The MAPI fax printer driver is not supported for terminal server environments.

How to send a document as fax from any application:

1. When your document is ready for sending, select **Print** in the relevant application. The selection menu for the printer driver with which the document is to be sent opens.
2. Select the printer **Tiff Fax G3 TurboBits Printer**.
3. Click on the **Print** button.

Depending on the setting **Microsoft MAPI** (printer driver default) or **Microsoft Outlook** (if the *OpenScape Xpressions Microsoft Outlook Extensions* are installed), the appropriate form for sending the fax message opens automatically.

4. Enter the recipient address in the **To** field and, if required, copy recipients under **Cc**.

When sending via **Microsoft MAPI** the name of the fax file is automatically set in the subject line of the fax message. You can replace this default with an individual subject entry or supplement it.

When sending via **Microsoft Outlook** you can compose an individual subject entry.

5. Click **Send** to transmit the fax message.

12 Service Provider (MSP)

The Service Provider serves as global substructure for all client applications that want to use OpenScape Xpressions server services. Such clients are for example: *Lotus Notes Extensions*, *Microsoft Outlook Extensions* or the client *Communications* etc. While several client applications can simultaneously be operated on one computer, only one Service Provider entity is available.

The following services are provided:

- Local Database (Cache)

Every client application does not have to keep its own database up to date. If required, the Service Provider synchronizes its local database with the database of the OpenScape Xpressions server. Thereby, the contents of the local database is made available to all client applications so that fast access is always possible.

- Store & Forward Interface

Client applications can send documents to or receive them from a OpenScape Xpressions server. This refers to classic communication per fax, e-mail etc. The *optiClient130* CTI journal operates via this interface as well.

- Transactions Interface

Client applications can communicate with the OpenScape Xpressions server components that support transactions. This enables in particular the CTI functionality for client applications as in *optiClient 130*.

According to requirements the MSP is automatically implemented upon the installation of a OpenScape Xpressions client component. When the installation is completed you will find the file `MSP.INSTALL.LOG` in the `TEMP` directory of the installing user, helping to detect errors if problems should occur.

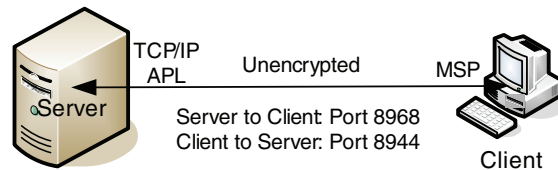
The Service Provider is started by the first client application requiring it. The Service Provider configuration module in the control panel is such an application.

For further information on the service provider and on profile definition refer to the *Server Administration* manual.

12.1 Connection of the OpenScape Xpressions Server to the Clients via the MSP

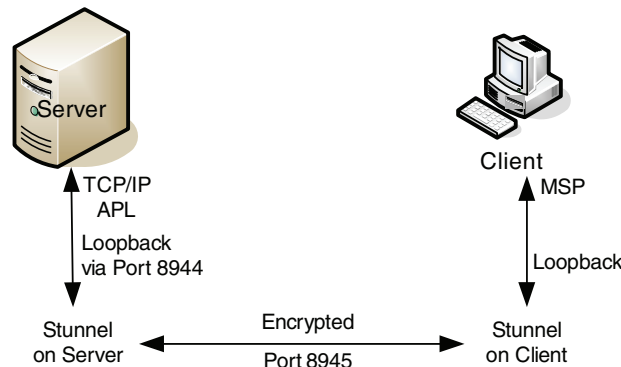
The MSP-based Windows client applications can also communicate with the OpenScape Xpressions server via an IP protocol.

On the server side the TCP/IP APL uses port 8944 for accessing the client. With active delivery from the TCP/IP APL to MSP-based client applications port 8968 is used. This type of communication is not encrypted. By means of a network sniffer you can play all data transmitted between server and client.



You can also communicate via a connection secured by SSL. On the server side, all corresponding requirements have already been met as a certificate has been configured for the **STunnel** program.

For a connection secured by SSL, port 8945 is used. If you then lock port 8944 in the Windows firewall, clients without activated encryption will not be accepted any more.



If a firewall is active on the client, the data transmission between OpenScape Xpressions server and client must be released by the firewall. In other words, if the firewall is active, the MSP on the local clients with the operating systems Windows XP and Windows Vista must be given outgoing access to the OpenScape Xpressions server. For this purpose the `MSPSVC.EXE` and `STUNNEL.EXE` programs are added to the exception list of the firewall. On an English Windows the programs are installed in the following directory:
`C:\Program Files\Common Files\Cycos\Service Provider\.`

Depending on the operating system language the path may vary. In this case look for one of the above programs and determine the setup directory.

`MSPSVC.EXE` is the Service Provider. It is installed as service. `STUNNEL.EXE` is used for encrypted communication with the XPR server.

The following steps are required:

For Windows XP

1. Open the control panel via **Start > Control Panel**.
2. Start the application **Windows Firewall**.
The **Windows Firewall** dialog opens.
3. Switch to the **Exceptions** tab.
4. Click on the **Add Program...** button.
The **Add a Program** dialog opens.
5. Click on **Browse...**
The **Browse** dialog opens.
6. Enter the path for the directory that contains the files `MspSvc.exe` and `stunnel.exe`.
7. Select the file `MspSvc.exe` and click on **Open**.
The selected file is added to the programs of the exception list.
8. In the **Add a Program** dialog click on the **OK** button to complete the selection process for this file.
You return to the **Windows Firewall** dialog.
9. Click on the **Add Program...** button again.
The **Add a Program** dialog opens.
10. Click on **Browse...** again.
The **Browse** dialog opens.
11. Enter the path for the directory that contains the files `MspSvc.exe` and `stunnel.exe`.
12. Select the file `stunnel.exe` and click on **Open**.
The file `stunnel.exe` is added to the programs of the exception list.
13. In the **Add a Program** dialog click on the **OK** button to complete the selection process.
You return to the **Windows Firewall** dialog. The selected programs are now integrated in the list under **Programs and Services**.
14. In the **Windows Firewall** dialog click on **OK**.
15. Close the control panel.

In *Windows XP* the firewall for these programs is now open.

For Windows Vista

1. Open the control panel via **Start > Control Panel**.
2. Start the application program **Windows Firewall**.

Service Provider (MSP)

Connection of the OpenScape Xpressions Server to the Clients via the MSP

3. There, enable the link **Allow a program through Windows Firewall**.
The **Windows Firewall** dialog opens.
 4. Switch to the **Exceptions** tab.
 5. Click on the **Add Program...** button.
The **Add a Program** dialog opens.
 6. Click on **Browse...**.
The **Browse** dialog opens.
 7. Enter the path for the directory that contains the files `MspSvc.exe` and `stunnel.exe`.
 8. Select the file `MspSvc.exe` and click on **Open**.
The selected file is added to the programs of the exception list.
 9. In the **Add a Program** dialog click on the **OK** button to complete the selection process for this file.
You return to the **Windows Firewall** dialog.
 10. Click on the **Add Program...** button again.
The **Add a Program** dialog opens anew.
 11. Click on **Browse...** again.
The **Browse** dialog opens.
 12. Enter the path for the directory that contains the files `MspSvc.exe` and `stunnel.exe`.
 13. Select the file `stunnel.exe` and click on **Open**.
The file `stunnel.exe` is added to the programs of the exception list.
 14. In the **Add a Program** dialog click on the **OK** button to complete the selection process.
You return to the **Windows Firewall** dialog. The selected programs are now integrated in the list under **Programs and Services**.
 15. In the **Windows Firewall** dialog click on **OK**.
 16. Close the control panel.
- In Windows Vista the firewall for these programs is now open.

13 MSP TAPI Service Provider (MSPTSP)

NOTE: The MSPTSP cannot be operated on 64-bit operating systems.

The MSPTSP (MSP TAPI Service Provider) enables calling from within, for example, *Microsoft Outlook*, with dialing out being the only option when *Microsoft Outlook* is used. For certain other applications there are also the following options (the TAPI features occur in brackets):

- Answer a call (Answer)
- Transfer without consultation (BlindTransfer¹)
- Call replacement, e.g. callback if busy (CompleteCall)
- Three-party conference after consultation (CompleteTransfer)
- Forward after consultation (CompleteTransfer)
- Drop an incoming call (Drop)
- Hang up (Drop)
- Forward (Forward)
- Please do not disturb (Forward)
- Hold (Hold)
- Call (MakeCall)
- Pick up (Pickup)
- Redirect (Redirect)
- Three-party conference (SetupConference)
- Consultation (SetupTransfer²)
- Alternate (SwapHold)
- Unhold

The MSPTSP enables you to use several lines at a time, i. e. an application can be opened several times and in different ways. The MSPTSP enables access to XPR CTI functionalities also for foreign TAPI based applications via third party TAPI clients. The MSPTSP is a TAPI service provider transforming the TAPI

1. *Blind Transfer*: an incoming call will be transmitted to another extension even if the line is busy or the corresponding subscriber cannot be reached. In this case, the caller has to call again because he/she will not be automatically put through to the other party once the line is free again.
 2. For the *Setup Transfer* you have the possibility to forward a call or to set up a three-party conference.

commands into CTI transactions of the XPR server. Communication is handled via the MSP, as is customary for the OpenScape Xpressions. However, a particularity is that the MSPTSP runs as **TAPI** service provider in the operating system's system context and thus cannot use the perhaps already configured user profiles of the MSP since it is not authorized to access these data. So for the MSPTSP a separate user profile must be configured, which is valid for the computer the MSPTSP runs on. Of course, login via the Windows account is also impossible for this reason.

13.1 Installation

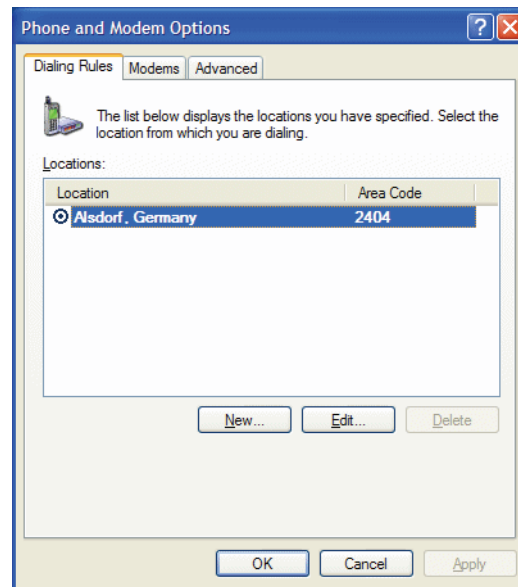
Setup copies the **TSP** files to the System directory and installs the **TSP**. In case the MSP has not been installed yet, the MSPTSP setup will install the MSP prior to the **TSP** setup.

13.2 Configuration

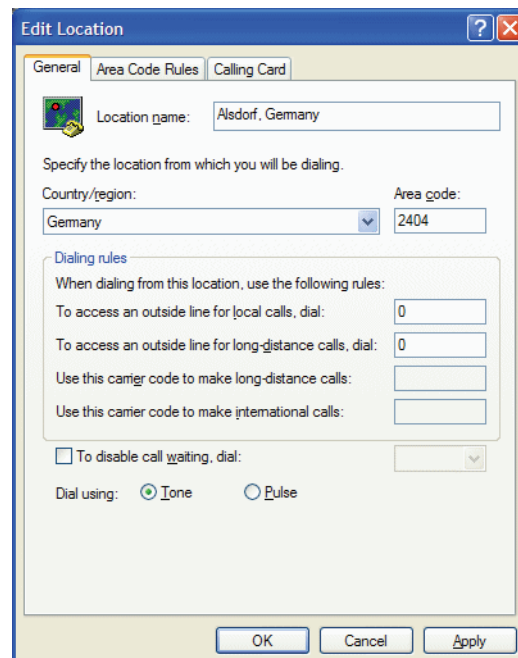
NOTE: The configuration is described for the Windows 2000 operating system. The description may slightly deviate for other Windows operating systems.

After the setup has been finished, the MSPTSP prompts you to start the program now. At this point you can directly perform the configuration. This is particularly advisable for inexperienced users. Otherwise, you can configure the MSPTSP later in the start menu under **Settings > Control Panel > Phone and Modem Options** on the **Advanced tab** under **MSP TAPI Service Provider**. The configuration of the MSPTSP can also be done via the **MSPTSP** icon on the desktop (as far as it has been created). You can also perform the configuration in the respective application (e. g. *Microsoft Outlook*). The different configuration possibilities will be described later on in the text.

You will see the following dialog by selecting **Settings > Control Panel > Phone and Modem Options** in the start menu. There, you can configure the **TSP** via the **Dialing Rules** and **Advanced** tab.



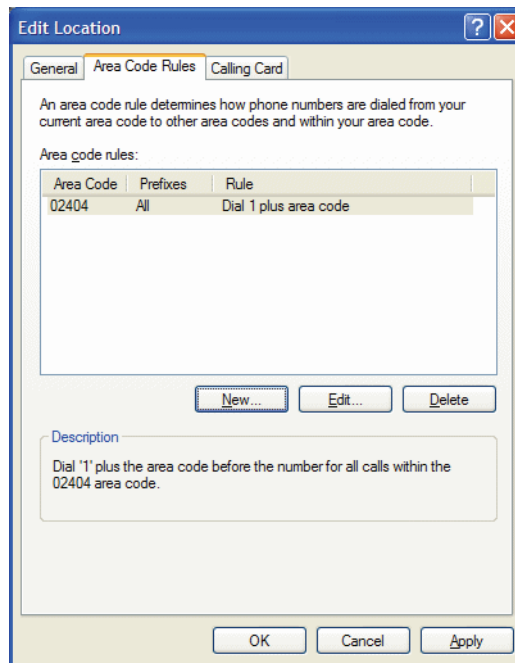
You can configure your location settings on the **Dialing Rules** tab. Click on the **New...** button (as far as no location exists), and configure the corresponding settings on the **General** tab in the **Edit Location** dialog. Enter the **Location name**, **Country/region**, the **Area code**, the number to **access an outside line for local calls** and the number to **access an outside line for long-distance calls**. Then click **Apply**.



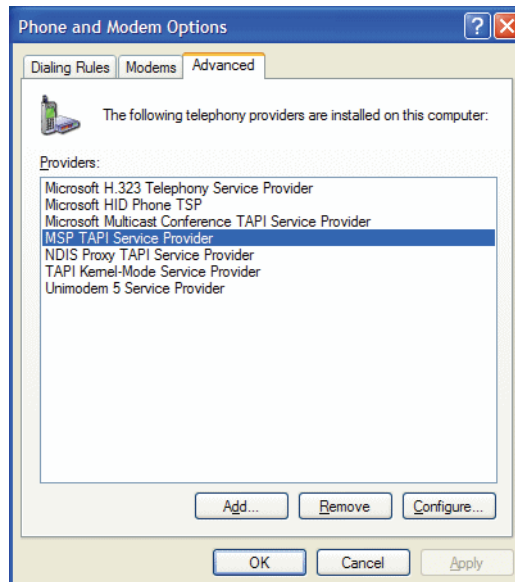
You can define rules for phone numbers of your own and of other area codes on the **Area Code Rules** tab. You can determine how phone numbers are to be called within your area code and outside. Click on the **New...** button in order to create a **New Area Code Rule**.

MSP TAPI Service Provider (MSPTSP)

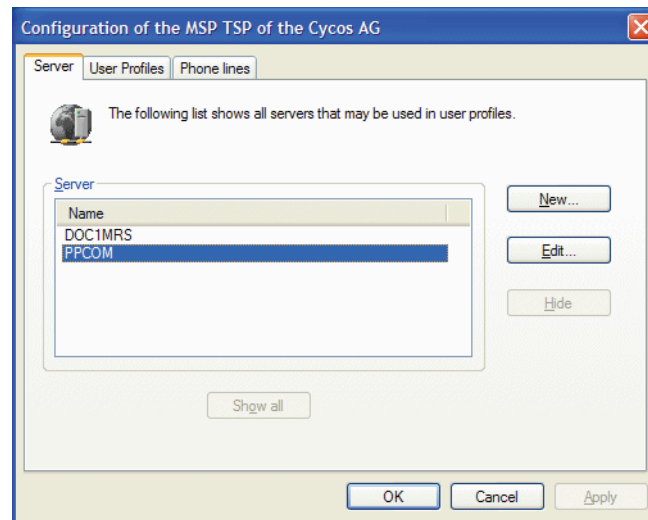
Configuration



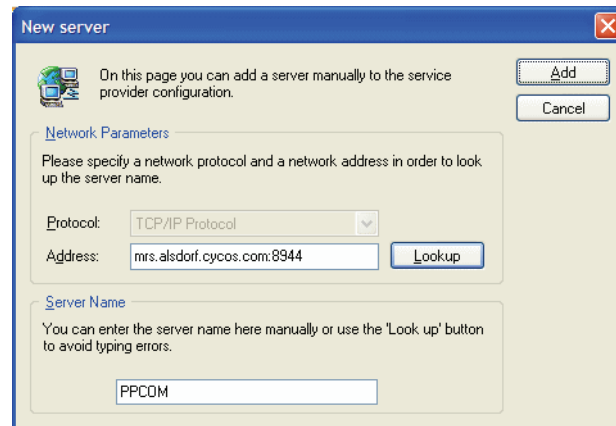
Select the **Advanced** tab in the **Start > Settings > Control Panel > Phone and Modem Options** dialog. Select the **MSP TAPI Service Provider** entry and click on the **Configure...** button in order to define the server settings, user profiles and lines.



After a click on the **Configure...** button, the following dialog opens.



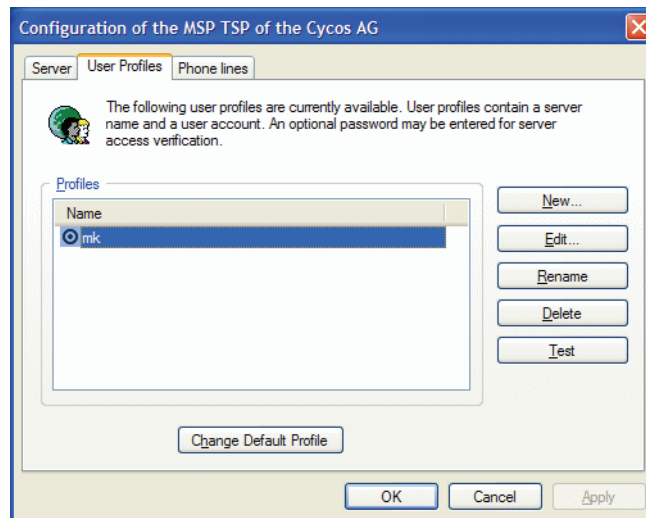
The **Server** tab occurs first when the MSP has been unable to find an XPR server. The MSP already looks for existing servers during the installation and adds them to the list in the dialog at the right. If your XPR server does not appear in the list, add a new server by clicking the **New...** button.



Enter the network address or the name of the computer in the **New server** dialog, and search for the port number and the server via the **Lookup** button to avoid typing errors. Alternatively, you can enter it manually.

If an XPR server is already available, but no user profile has been configured, the **User Profiles** tab will be shown first.

Select the **New...** button in order to create a new user profile. As the MSPTSP runs in the system context, it cannot read existing user settings from an already installed MSP. Thus, a new user profile has to be created anyway. The corresponding configuration settings can be seen and changed in the MSPTSP as well as in the respective TAPI application.



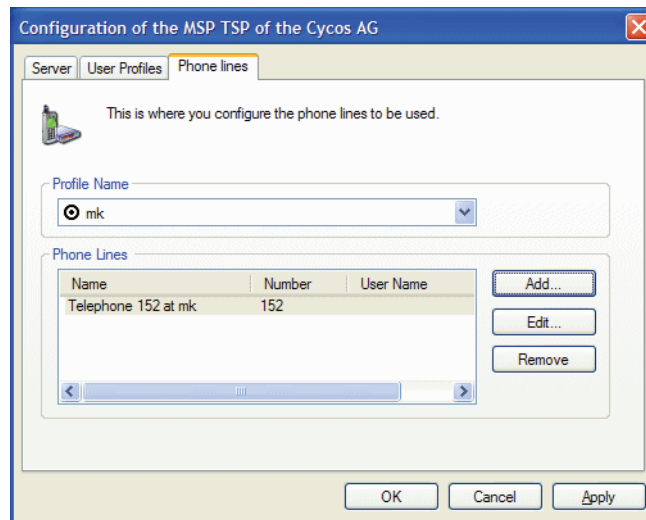
Create one or more user profiles on the **User Profiles** tab via **New....** The **Profile Name** does not have to be entered, as it is generated automatically. Enter the **User ID**. This is necessary for logging on to the server. Enter the server name under **Server**. Afterwards, you save your password by activating the **Remember Password** check box. Enter your password and confirm it by entering it once again. Click the **Add** button afterwards.



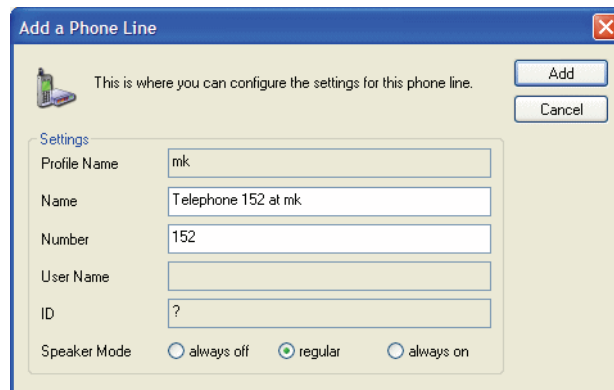
NOTE: The Windows user account cannot be used for login since the MSPTSP runs in the system context.

You can enter the lines respectively the telephones you want to use on the **Phone lines** tab. Click the **Add...** button for this purpose.

Telephone devices as well as lines can be added or deleted dynamically. Lines can be closed or opened as necessary.



The **Profile Name** already exists. Enter the name of your extension under **Name**, e. g. Telephone 462. Enter the number of your extension under **Number**. The **User Name** and the **ID** will be generated automatically. Select the desired **Speaker Mode**. The speaker mode option **always off** means that the speaker is always off, independent from the settings performed in the **TAPI** application. **Regular** means that the speaker can be controlled by the **TAPI** application as far as the corresponding settings can be performed there. **Always on** means that the speaker is always on, independent from the settings performed in an attached **TAPI** application. We recommend the option **always on**, since most **TAPI** applications do not control the speaker mode. Click the **Add** button afterwards. The changes will become active at once.



NOTE: All changes will become at once active after clicking the **Apply** or **OK** button. The computer or the **TAPI** application need not be restarted.

13.3 Error Search Logging

As is possible for all XPR server clients, you can use the logging tool for clients to create a log file also for the MSPTSP. In case of an error or whenever required you can then activate a logging. To create the log file, you need to execute the `UnifiedLogTool.exe` program on the client. This program must previously be copied to the appropriate client from the `<XPR Install>\SDKTools` folder.

You find information about the client logging tool options in the *XPR Server Administration* manual.

13.4 Update

The automatical update of the MSPTSP via server is not supported up to now. Please make sure that the MSPTSP does not run anymore if you want to replace it by a newer version.


13.5 Uninstallation

All providers using the **TSP** will be removed during the uninstallation. Afterwards the **TSP** files will be deleted from the system directory. Problems may occur, if the **TSP** cannot be deleted because it is used by one or several **TAPI** applications. Therefore, make sure that no **TAPI** application is running anymore if you want to remove the **TSP**.

13.6 MSPTSP via *Microsoft Outlook*

To establish a phone connection from within *Microsoft Outlook*, select under **Contacts** one of the address entries you have specified. You will get into a context menu by a rightclick.

In this context menu select **Call Contact....** Afterwards, click on the **Start Call** button. Your telephone rings and the connection to the corresponding party will be established.

Furthermore, you can dial a phone number that does not exist in the contact folder. A telephone icon  will appear when you open the contact folder. Click on the arrow on the right of the telephone icon to open a context menu. In there you find the menu items **Redial**, **Speed Dialing**³ and **New Call...** besides the

3. Speed dialing numbers can be entered in the Dialing Options... dialog in Microsoft Outlook (**Contacts > Call Contacts... > Dialing Options...**).

entry of an existing contact. Click on **New Call....** In the **New Call...** menu you can enter the desired phone number. Afterwards, click on **Start Call**. Alternatively, you may enter the shortcut key **[Ctrl]+[Shift]+[D]** in order to start a new phone call.

13.6.1 MSPTSP Configuration in *Microsoft Outlook*

The MSPTSP configuration can also be performed via *Microsoft Outlook*.

1. Invoke the context menu with a rightclick on an address entry.
2. Select the **Call Contact...** menu option. The **New Call** dialog opens.
3. Click on the **Dialing Properties...** button. Via the **Dialing Rules** tab you can perform the corresponding settings as described for the **MSPTSP Configuration** (see [Section 13.2, "Configuration"](#), on page 112).

The **Dialing Options** are also available via the **New Call** dialog. The **Line Properties** can be entered here, as described in the **MSPTSP Configuration**, as well. Furthermore, you can configure the **Dialing Properties**.

You can make the configuration settings under **Dialing Properties... > Dialing Rules > New...** in the **New Location** dialog as in the **MSPTSP Configuration** dialog.

Right-click on a contact to open the contact menu **Call Contact....** Subsequently click on **Dialing Options > Line Properties....** There you will find configuration settings you can either perform under MSPTSP or under *Microsoft Outlook*. The **Profile name** is automatically generated. Enter the name (description) of your extension under **Name**, e.g. Telephone 100. Enter the number of your extension under **Number**. The **User Name** and the **ID** will be generated automatically. Then select a **loudspeaker mode** and click **Save**.

MSP TAPI Service Provider (MSPTSP)

MSPTSP via Microsoft Outlook

14 ***Application Builder***

The *Application Builder* is a program with a graphic editor that allows the user to assemble and configure a model of a voice dialog system (application model, application workflow) in the form of a call flow (block diagram or flow chart).

The flow chart consists of blocks and connections between these blocks. The flow chart blocks are controls that, for example, play a sound file, perform a database query or establish a phone connection to a subscriber. The connection lines between the controls in the flow chart indicate from which control a transition to another control is possible. Assembling means that the user determines which controls exist in the flow chart and which controls are interconnected. Configuring means that the user may set control properties. For example, he/she can set for a control to play sound files which sound files to play and in which sequence. The flow chart is - as described above - merely a model of a voice dialog system. Thus, it does not contain any information about the execution of the model in an application, e. g. how sound files are accessed and how these sound files are forwarded to a PBX so that a caller can listen to these files.

The result delivered by the *Application Builder* is a Java file, which represents a flow chart (application model, application workflow) with all of its control and connection properties. This file comprises the data which define an application and differ from other applications.

14.1 ***Application Builder Features***

The *Application Builder* enables the easy creation of an interactive telephone application for your company. Synonyms for this are Automated Attendant, IVR (Interactive Voice Response), speech portal, voice server and voice dialog system. One or several phone numbers are assigned to such an application and when they are called, the following greeting may be played:

"Welcome to the XY company. If you would like to be connected to one of our assistants and know his/her extension, please push 1. If you would like to be connected with our hotline, please push 2. If you would..."

The *Application Builder* possesses among other things the following features:

- Creating and editing applications
 - Chaining different applications
 - Searching for specific characteristics and elements of all applications. For example, all applications that use a specific prompt can be put out. In case of a successful search, the results also deliver the prompt position within the application.
 - Bookmarks for indicating the most different positions in the application

- Integrating prompts in the respectively available languages
- Supporting text-to-speech for announcing text
- Using variables to store and forward data and information
- Creating statistic raw data for reporting usage
- Supporting contact center scenarios
- Importing *Application Generator* applications used so far in the *Application Builder*
- Creating and modifying call flows that represent the possible functionality within an application
 - Creating a call flow by drag & drop of controls within a clearly structured editor
 - Customizing call flow views
 - Attaching notes to a call flow
 - The greatest possible graphic as well as functional flexibility when creating call flows
 - Linking different call flows
- Controls: controls represent the smallest modules of a call flow
 - Various controls are available for different functionalities
 - Use of time profiles and time zones allows date- and time-dependent flow
 - Flexible prompt playback possible
 - Besides default settings, controls contain many configuration and linking options
 - Use of TTS (text-to-speech) if licensed
- Language modification for GUI, documentation and online help after a program reboot

14.2 Features of an Application

An application created with the *Application Builder* may have the following features.

- Playing and re-recording of sound files
- Application-flow control by the caller using a menu and making entries via DTMF keys or voice
- Performing actions depending on date, weekday, national holidays and time considering the time zone
- Branching in the menu navigation depending on statistic as well as dynamic values such as the waiting loop allocation status
- Forwarding to an extension inclusive return call initiation
- Forwarding to a contact center
- Speech recognition
- Call recording
- Creating and applying call flow rules using specific conditions
- Definition and flexible use of variables
- Sending documents of different formats
- Searching for contacts
- Selecting a supported language
- Database query
- File access
- Starting instant-messaging systems
- Protection from infinite loops in the menu navigation
- Monitoring and statistic registration of an application execution via reporting

You find the detailed description of the *Application Builder* in the *XPR Application Builder* manual.

15 *ACD Supervisor*

The *ACD Supervisor* is a client program for generating online information on current events within a contact center. As a Windows-based application the program has a user-friendly interface and supports the contact center supervisor in routine processes during contact center operations as well as in quickly managing resources at times of high call volume. The *ACD Supervisor* is a powerful operating and control interface for contact center solutions using the Unified Messaging Communication Server.

To ensure a flexible call distribution control as well as for monitoring all resources, the program supports the contact center supervisor with numerous features. Evaluations are performed in real-time, in other words any change in current events can be dynamically displayed. All contact center resources, whether human or technical, can be monitored in freely configurable windows. In addition, a contact center supervisor can have dynamic (current) and statistical data on the corresponding resources displayed in different windows. Resources include all agents of a contact center as well as the groups they belong to, external lines, waiting loops and campaigns. If a deviation from the desired process has been noticed, the supervisor can make rapid changes to running operations. The program can use numerous options to define threshold values so that certain actions are performed when these values are exceeded. Access and selection of functions assigned to the supervisor occurs via definition of a password protected user profile.

The following overview shows the most important *ACD Supervisors* features:

- Monitoring technical and human contact center resources (agents, groups, waiting loops, external lines, campaigns)
- Display of statistic and real-time information
- Freely configurable monitor displays for resources
- Contact center threshold control
- Alarm definition (visual and acoustic notification)
- Campaign administration
- Assignment of additional agents when bottlenecks occur
- Agent status alterations (logged in, ready, ...)

You find a detailed description of the *ACD Supervisor* client in the *ACD Supervisor* user manual.

Acronyms

This list contains the acronyms used in this manual.

Acronyms	Definition
BMP	Image file format – bitmap graphic format by Microsoft
CTI	Computer Telephony Integration – telephone control by PC
DCX	Image file format – graphic format for fax by Microsoft
GSM	Global System for Mobile Communications – cell phone standard
HTML	Hypertext Markup Language
IM	Integrated Messaging
IMAP	Internet Message Access Protocol
IP	Internet Protocol
IVR	Interactive Voice Response – DTMF or voice-controlled telephone application
JPG	Graphics format of the Joint Photographic Experts Group
LDAP	Lightweight Directory Access Protocol
PC	Personal Computer
POP3	Post Office Protocol, protocol for polling messages from an Internet provider
SMS	Short Message Service
SMTP	Simple Mail Transfer Protocol, default Internet mail protocol
TAPI	Telephone Application Programming Interface
TG3	Image file format – multi-page compressed TIFF fax format
TIF	Image file format – Tagged Image File Format
TSP	TAPI Service Provider
TTS	Text To Speech, text to voice conversion
TUM	True unified messaging
URL	Uniform Resource Locator, unique Web address
VPN	Virtual Private Network
WAV	Acronym for wave format, data format for sound files
WWW	World Wide Web

Index

A

Audio files 10

B

Bitmap 50

BMP 9, 50

C

Call forwarding 14

Call forwarding no reply 14

Callback access 15, 16

Caller Guide

Be connected 98

Input via telephone keys 90

Introduction 89

Language selection 90

Operation steps 92

Search via telephone keys 95

Search via voice-activated dialing 94

Tracking phone numbers 91

Client

general 19

Netscape Messenger 25

Outlook (via Internet) 34

Outlook Express 28

Conference types

combined voice/web conference 48

voice conferences 48

web conferences 48

Conversion 9

D

Data

for PC access 17

for telephone access 15

of telephone system 14

Data formats 9

DCX 9, 50

Direct access 15, 16

Domain address 17

E

e-mail 10

E-mail address 17

F

Fax addressing 52

Fax Display 50

Fax editing

object to the background 78

object to the foreground 78

object, move back 78

object, move forward 78

Fax format 50

Fax forms

text object, alignment 78

text object, background 78

text object, color 78

text object, font 78

text object, font size 78

text object, style 78

Fax stationery 49

Fax-mail 10, 49

Fax-on-demand 53

Firewall 108

Forward access 14

G

GSM 55

Guest access 15, 16

I

Image file 10

Inbox server 17

J

JPEG format 9, 50

L

Local database (cache) 107

M

Mailbox access 9

Microsoft Outlook 34

Microsoft Outlook Express 28

MS-Office 9

MSP TAPI Service Provider (MSPTSP) 111

MSP, Service Provider 107

MSPTSP

creating a log file 118

MSPTSP (MSP TAPI Service Provider) 111

N

Netscape Messenger 25

Number for call forwarding 14

Index

O

- Online documentation 17
- Outbox server 17
- Outlook (via Internet) 34
- Outlook Express 28
- Overview 9

P

- PC access 19
 - data for PC access 17
- PCX format 50
- Port 8944 108
- Port 8945 108
- Postscript 9

R

- Receiving a fax 49
- Receiving messages
 - with Netscape Messenger 26
 - with Outlook (Internet Access) 38
 - with Outlook Express 32

S

- Sending a fax 49
- Sending a fax at favorable rates 53
- Sending a fax with a time delay 53
- Sending messages
 - Fax message 51
 - Short message 60
 - with Netscape Messenger 27
 - with Outlook Express 33
- Sending SMS 60
- Server name 17
- Service provider (MSP) 107
- Setting up an account
 - for Netscape Messenger 25
 - for Outlook (Internet Access) 34
 - for Outlook Express 29
- Short Message Service 55
- SMS 55
- SSL connection 108
- Store & forward interface 107
- System requirements
 - for Netscape Messenger 25
 - for Outlook (for Internet Access) 34
 - for Outlook Express 28

T

- Telephone access
 - data for telephone access 15
- Text-to-speech 9
- TIF format 9, 50
- Transactions interface 107

U

- Unified Messaging 9
- Universal access 15, 16
- User name 17
- User-specific data 14

V

- Voice message form
 - Playback parameters 82
- Voicemails 10

W

- Web Assistant 17