Configuration Guide
AddOnMail X400 Products

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This document is designed for UA-FI 5.3 and newer,
and for MailmaX.400 5.3 and newer

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1. Introduction

This document describes how the AddOnMail X400 products are installed on a PC, how these products use files and directory structures, and how to configure the products for different markets and for use with various Message Stores.

The guide covers the following products:

MailmaX.400 version 5.2 for Windows (Windows 7/8/10, Windows Server 2003/2008/2012)

MaXware UA-FI version 5.2

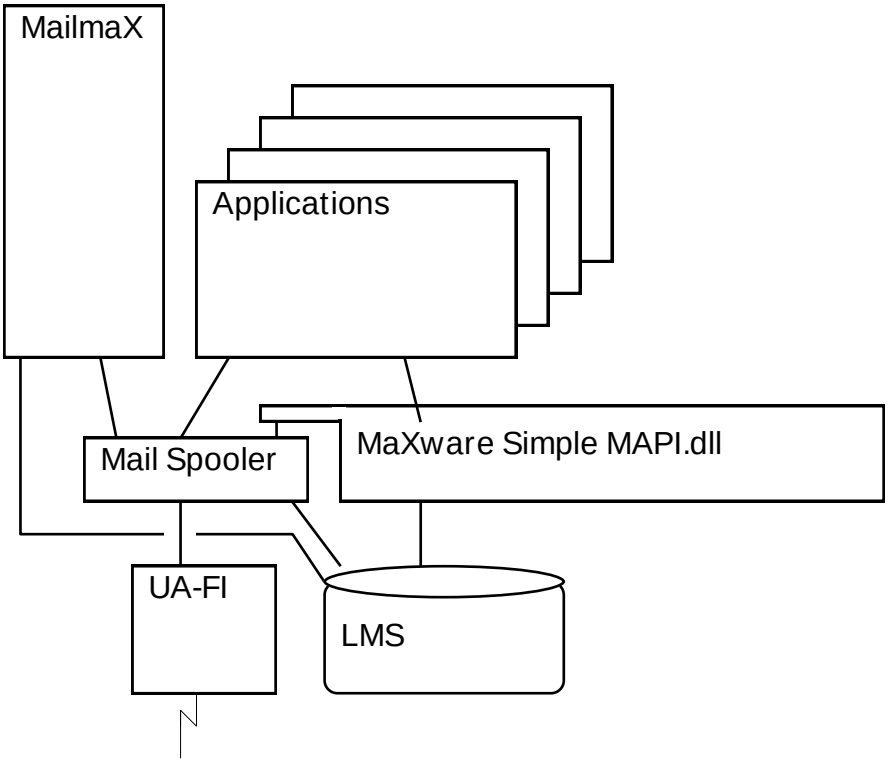
MailmaX.400 can be branded using a custom program name, logo and icons. For more information about branding of MailmaX.400, please contact AddOnMail.

The chapter *MailmaX.400 in a local area network,* is written for supervisors/administrators of MailmaX.400, and describes how MailmaX.400 should be installed and set up to work most satisfactorily in a local area network.

2. MailmaX.400 for Windows overview

2.1 Architecture

The picture below shows the various components of MailmaX.400 for Windows.



The current version of MailmaX.400 for Windows consists of the modules MailmaX.400 UI (user interface), Mail Spooler, Simple-MAPI DLL, and UA-FI, the communication module. UA-FI and the Mail Spooler are separate .EXE programs.

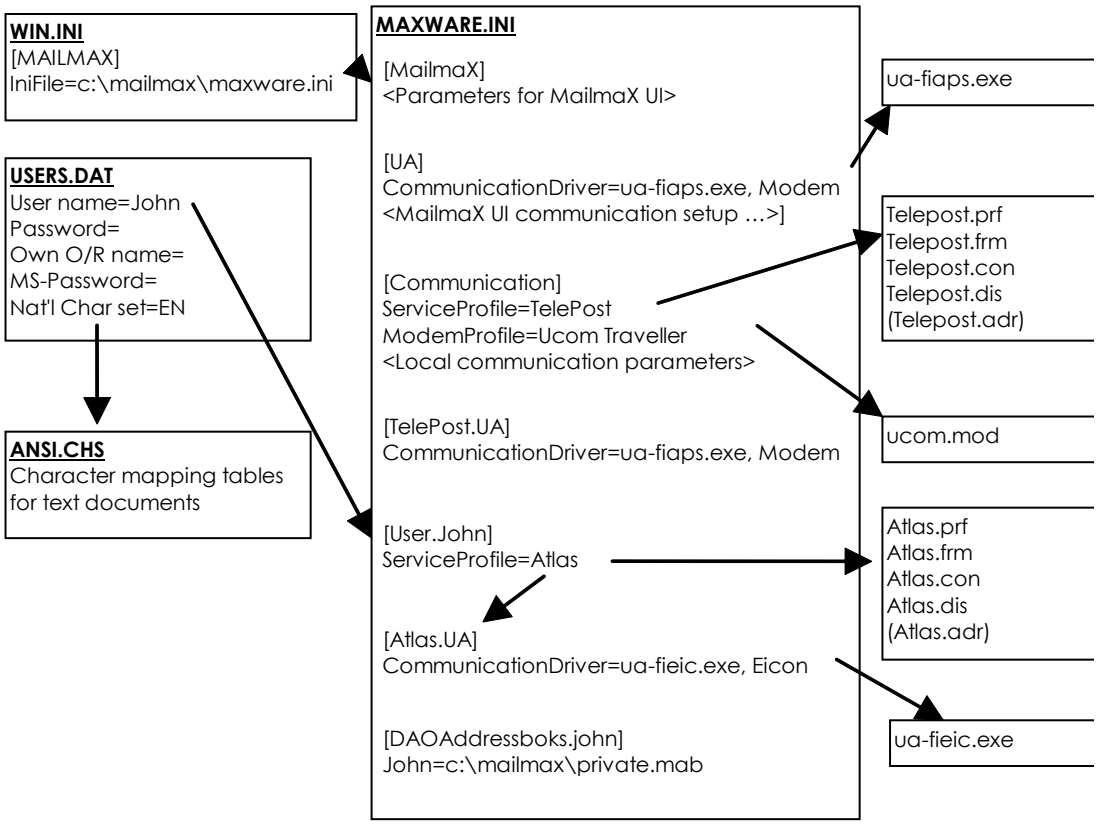
The LMS is the Local Message Store (message database), including all messages and folders. There is one LMS for each user, and it is created by the MailmaX.400 UI when a new user is defined. The MailmaX.400 UI and the Mail Spooler access the LMS via internal MaXware APIs (application program interfaces). Other Mail-enabled applications can access the LMS via the Simple-MAPI interface.

The MailmaX.400 UI contains the functions for creating, managing and viewing messages and folders. It also includes Mailbox commands that tell the Mail Spooler to start a communication session with the mailbox.

The Mail Spooler manages all communication with the Message Store (MS); it is responsible for starting UA-FI with the correct command file. You can use the MailmaX.400 “Mailbox” menu commands to start the Spooler, or it can be triggered automatically according to pre-defined rules (for example, at regular intervals). The Mail Spooler provides a user interface for defining and editing the MailmaX.400 UI Mailbox commands, as well as for editing the automatic rules and actions (MailmaX.400 UI command **Tools/Options/Connect Setup**).

2.2 Use of configuration files

The picture gives an overview of the configuration files used by UA-FI and MailmaX.400 for Windows:



General

To edit the configuration files, you can use any text editor that uses LF or CR LF as new line characters. The spelling of the parameter names must be exactly as shown in this document.

There are two categories of parameters: mandatory and optional. You can omit the optional parameters from the configuration file(s), in which case default values are used. The mandatory parameters must be assigned a value.

USERS.DAT

The USERS.DAT file contains a set of records with user-specific information, one record per user. A record includes the following information (passwords are encrypted), and is used by both MailmaX.400 UI and UA-FI:

Local user name and password

Own O/R name (used as user name on the MS mailbox)

MS-password (password to access the mailbox)

The user's character set for national variants of IA5 (used for mapping of text BodyParts)

Since MailmaX.400/UA-FI 5.2, password in records can be secured using a stronger algorithm named PBKDF2.

MAXWARE.INI

MAXWARE.INI includes the configuration parameters used by all MaXware products. When running under MS Windows, the location and name of the MAXWARE.INI file are defined in the WIN.INI entry:

```
[MailmaX]
Initfile=<path and file name>
```

The MailmaX.400 installation program sets this path and file name, and they must NOT be changed. If they are changed, MailmaX.400 will not find all its files.

The MAXWARE.INI parameters are grouped into several sections. For a detailed description of the parameters and sections, see *chapter Use of maxware.ini and .PRF*, or the MAXWARE.INI file on your MailmaX.400 diskette/directory. The most important sections and parameters, showing the links to the other configuration files, are as follows:

[MAILMAX]

<Default MailmaX UI configuration parameters, settings and layout.>

[Communication]

ServiceProfile= <File name without extension of the default service profile>

Defines the default Mail Service profile. The name is a "pointer" to the service profile files, all named <service profile name>.xxx, containing the configuration parameters for this particular Mail Service.

<Local UA-FI communication and configuration parameters, common for all services>....

<modem parameters...>

[UA]

CommunicationDriver =<filename of the default driver>.EXE, <type of driver>

Specifies the default communication driver for MailmaX.400 for Windows (TCP/IP)

Remark : only TCP/IP is supported

CommunicationDriver=<.EXE file>, <Type driver>

Valid drivers	**Description**
IPDriver	TCP/IP

Example:

CommunicationDriver= UA-FITCP.EXE,TCP/IP

[<Service profile "xxx">.UA]

CommunicationDriver =<driver currently assigned with this service>.EXE, <type of driver>

Specifies the MS Windows communication driver currently used with Mail Service "xxx".

[CommDrivers]

<name of driver>=<file name of driver>.EXE, <type of driver>

Lists the installed communication drivers for MailmaX.400 for Windows.

Example:

TCP/IP=UA-FITCP.EXE,IPDriver

[USER.<user name yyy>)

ServiceProfile= <File name without extension of the service profile used by user "yyy">

The Mail Service used by the user with user name "yyy". The name is a pointer to the service profile files, all named <service profile xxx>.

<MailmaX UI configuration parameters, settings and layout specific to user yyy.....>

[Mail Spooler]

<Mail Spooler configuration parameters>

[MailboxCommand_<n>]

<Mailbox command definition>

[SpoolerPoll_<n>]

<Definition of rules for automatic start-up/connect of the Mail Spooler>

[DAOAddressBooks.<user name yyy>]

<Address book parameters>

Service Provider Profile files

The service profile is a set of files (with the same name, but different extensions) containing all configuration parameters that are specific to a particular mail service. A service profile file set may include the following files:

Files	Description
a .PRF file	communication parameters specific to the Service/MS
an .FRM file	address templates for the Service
a .CON file	communication script to set up an asynch connection to the MS
a .DIS file	communication script to disconnect an asynch connection to the MS
a .TLP file	telephone numbers to the various access points of the service

The name of the mail service as displayed to the end user is specified in the .PRF file parameter “ProfileName”.

You can also add service profile files containing custom logo and icons for MailmaX.400 and the Mail Spooler. For more information about branding MailmaX.400, please contact MaXware.

Communication drivers

MailmaX.400 supports only TCP/IP communication module (drivers) used to access network. When starting a communication session, the Mail Spooler reads the MAXWARE.INI parameter “CommunicationDriver” (from the section [UA.<user>] for this user) to determine which driver to start. The TCP/IP driver for MS Windows has the following file name:

File name	Description
UAFITCP.EXE	TCP/IP according to RFC 1006, IPDriver type

In MailmaX.400, the user can change the communication driver using the command **Tools/Options/Communication...**.

The current communication driver may be common to all service profiles or associated with one specific service profile.

ANSI.CHS

This file contains all the mapping tables needed for conversion of text BodyParts, teletex BodyParts and the subject-field to/from the Windows ANSI character set and the X.400 transfer formats.

COUNTR??.INF

This file contains the following information for most countries: the ISO country codes, the dialing prefix to get an international line when dialing from this country, and the country code for this country used when dialing into this country.

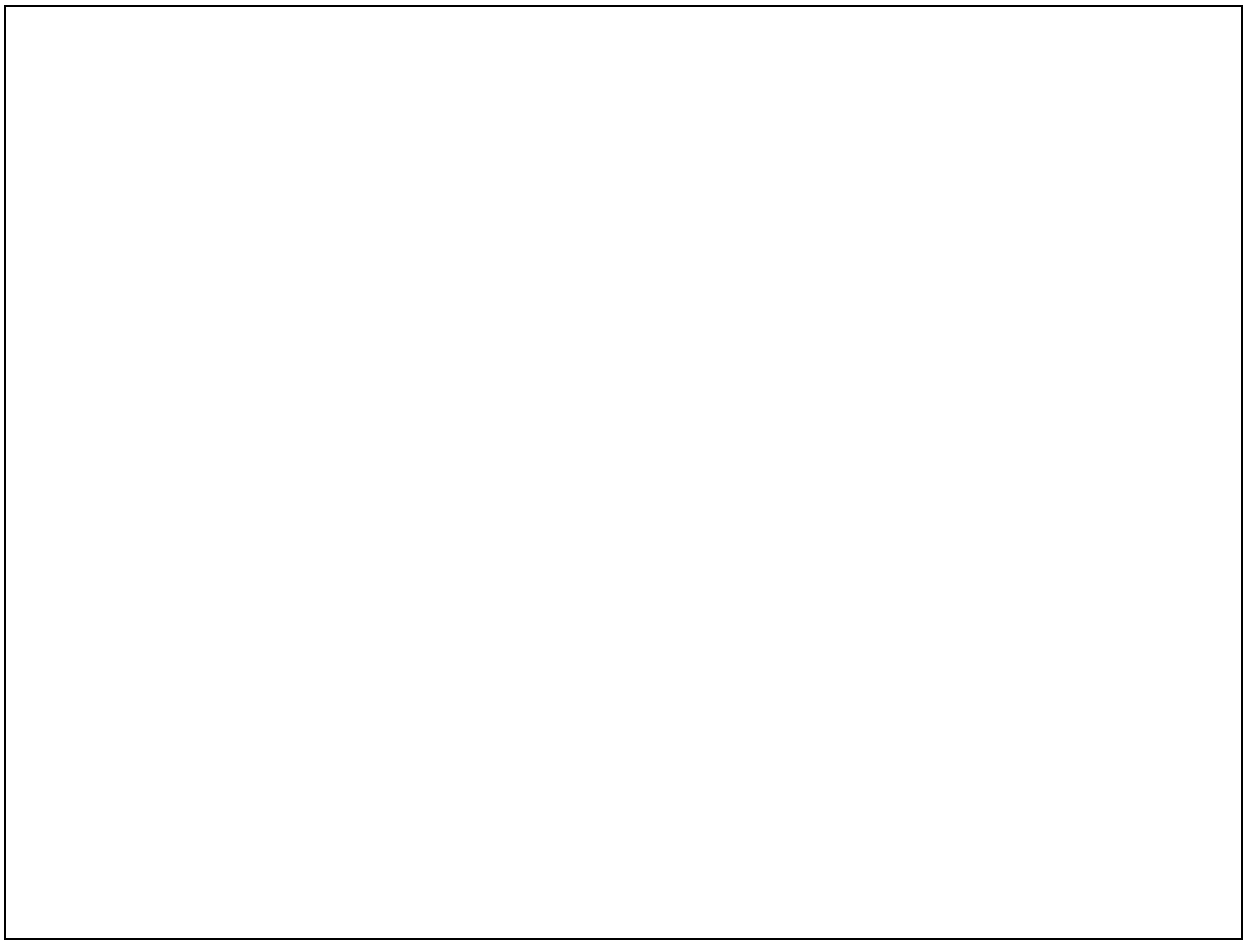
COUNTR??.INF also contains a mapping table defining the link/association between MS Windows Codepages and ISO 8859 character sets.

Working concept

General

Communication sessions to the MS/Mailbox are either issued by the user with one of the MailmaX.400 “Mailbox” menu commands, or triggered by the Mail Spooler according to an automatic scheduling rule. The Mail Spooler then starts the correct communication driver (UA-FIxxx). The exchange of information between the Mail Spooler and UA-FI is all file-based, and documented in the manual “UA-FI Programmer’s Guide”.

This chapter documents all communication parameters used by MaXware UA-FI, both when this module is used for EDI purposes, and when it acts as the communication module in MailmaX.400 for Windows.



At start-up of UA-FI, the Mail Spooler specifies on the command line:

The local user name and local password of the MailmaX.400 user (or Simple-MAPI application) for which the communication session is to be started.

The name of the Command File with the “input” parameters to UA-FI.

The name of the Response File in which UA-FI will place the results of the commands performed.

The Command File contains commands telling UA-FI which operations are to be carried out: Submit message, Fetch message from the Mailbox, List messages in the Mailbox, etc. Each message to be sent consists of two parts, the Header File and the BodyPart File(s). One of the parameters in the Command File command Submit is the name and path of the Header File, which contains information about the BodyParts in the message as well as the originator, recipient, subject, etc.

On start-up, UA-FI reads the Command File and establishes the connection to the Mailbox. UA-FI then submits the messages to be sent and carries out all specified LIST, FETCH and DELETE commands. The results of the performed commands, including messages and notifications that have been received, are written to the Response File.

The Mail Spooler parses the Response File to find the incoming messages and store them in the LMS, and to update the status of outgoing messages (Sent, Delivered, Failed, etc.).

MailmaX.400: Local Message Store (LMS)

When a new user is created, MailmaX.400 creates a new sub-directory under the MailmaX directory for the new user and a user record in the file USERS.DAT. The name of the sub-directory is the first 8 characters of the user name of the new user. National characters, spaces and special characters are ignored (if a user named “John Brown” is created, the sub-directory name is \MAILMAX DIRECTORY\JOHNBROW\). The user directory contains the user’s local message store with messages and folders.

In the LMS, the messages are stored as header files and BodyPart files in the sub-directories \<MAILMAX DIRECTORY>\<USER NAME>\H-NNNNNN. The LMS structure and indexes are stored in files on the **\<**MAILMAX DIRECTORY>\<USER NAME**>** directory.

MailmaX.400: Communication

When a connect command is given, the Mail Spooler prepares the UA-FI Command File ****MAILMAX DIRECTORY\<USER NAME>\UAFI.CMD and places all messages (Header Files and Bodypart Files) to be sent on the **\<**MAILMAX DIRECTORY>\<USER NAME>\UAFIWORK directory.

UA-FI performs the commands and writes the result to the Response File **\<**MAILMAX DIRECTORY>\<USER NAME>\UAFI.RSP. Fetched messages and notifications are stored in the directory **<**MAILMAX DIRECTORY>\<USER NAME>\UAFIWORK.

When UA-FI is finished, the Mail Spooler parses the Response File and stores the fetched messages in the LMS.

UA-FI: Use of files

At start-up, UA-FI reads the command line parameters and the Command File. It also reads the configuration parameters from the MAXWARE.INI and the <service profile>.PRF files. The specified user name (passed on the command line) is used to find the correct ServiceProfile from the MAXWARE.INI file. The MAXWARE.INI parameter ServiceProfile =<name of service profile> points to the profile files. If ServiceProfile =MaXware, then the service profile file is MAXWARE.PRF.

UA-FI then reads the service-specific communication parameters from the .PRF file. When this is finished, UA-FI reads its local communication parameters from the MAXWARE.INI file [Communication] section.

The local user name, local password, own O/R name and MS password are stored in the encrypted file USERS.DAT. The user name and password passed on the command line are validated and used to fetch the user’s Mailbox name and Mailbox password (Own O/R name and MS password) from the USERS.DAT file.

UA-FI uses this information to establish the connection to the Mailbox, and performs all specified commands.

3. Installation of MailmaX.400

3.1 General

The following files may be edited to configure MailmaX.400 for a particular market or service provider:

File name	Description
SETUP.INI	Used during installation. Contains product and name of company. Defines the service profile.
DISCL.TXT	Displays the license agreement during installation. The user must answer “Yes” to this disclaimer to continue the installation.
MAXWARE.INI	Default init file for MailmaX.400. If MailmaX.400 has been installed on the PC before, the file is not copied to the PC. Ref. UPDATE.INI.
UPDATE.INI	Init file for MailmaX.400. The definitions in this file overwrite the existing MailmaX.400 definitions.
SETUP.BMP	The splash dialog for the MailmaX.400 installation.
UA-FI	The files supplied with MailmaX.400 version 4 and newer are for TCP/IP and APS. For other UA-FI files, please contact AddOnMail.
PROFILES	The profiles are in the PROFILES directory.

3.2 Use of files and directories

The MailmaX.400 files are normally installed in the C:\PROGRAM FILES\MAILMAX directory, but the user can specify where he or she wants to install MailmaX.400. Windows system files are installed in the \<WINDOWS>\SYSTEM directory (WIN95) or \<WINNT>\SYSTEM32 directory (NT4).

The following files are installed in the MailmaX directory:

File name	Description
DOCMAGIC	Pattern files describing various file formats recognized by MailmaX.400.
MAX*xx*.MSG	Error messages. (*xx* represents a two-letter language code)
SPOOL32.EXE	Mail Spooler.
MAXAPI32.DLL	Internal module.
MAXWARE.INI	MailmaX.400 for Windows .ini file.
MMAB32.DLL	Address Book.
README.TXT	Technical information about MailmaX.400.
MAILMAX.LMS	Locks the users O/R name.
MXMAPI32.DLL	MaXware Simple MAPI.
OMSCRL32.DLL	Internal module.
OMTABL32.DLL	Internal module.

SETUP.LOG	Log from the installation.
STSPOOL.INI	Defines the polling commands when using MailmaX.400 in a local net.
UA-FI*yyy*.EXE	The MaXware X.400 communication drivers (*yyy* represents the communications driver variant)
USERS.DAT	User database. Contains user name/password
MAILMAX32.EXE	MailmaX.400 UI (user interface) executable.
WINMAX*xx*.HLP	MailmaX.400 Help file.
WINMAX*xx*.CNT	MailmaX.400 Help contents file.
*.CON	Communication script to set up an asynchronous (dial-up) connection or ISDN connection to the Mailbox.
*.DIS	Communication script to disconnect an asynch connection to the MS
*.DLL	Customized logo. Used when branding MailmaX.400.
*.ICO	Customized icons. Used when branding MailmaX.400.
*.FRM	Service-specific addresses templates and Query By Mail forms.
*.PRF	Service-specific communication parameters.
*.TLP	Service-specific telephone access numbers.

The following files are installed in the **\windows\system** or **\winnt\system32** directory:

File name	**Description**
DAO files	Address book data base engine

3.3 The MailmaX.400 Setup Program

The installation program (referred to as Setup from now on):

1. Displays a welcome message.
2. Displays a Software License Agreement. To continue the installation process the user must answer “Yes” to accept this agreement.
3. Asks the user to specify the installation directory (the MailmaX directory). The default directory is: *Program Files\MailmaX.400*.
4. Asks the user to specify where to add the program icons.
5. Asks the user to select which components to install.
6. Lets the user check the setup information.
7. Completes the installation.

3.4 Creating a new user

The New User Wizard is a part of the MailmaX.400 installation kit. It is used when defining a new user, helping the user to select the correct service profile and communication.

The New User Wizard will:

1. Ask for the user name and the local password.
2. Ask for preferred service profile. If only one service profile is installed, this service profile is selected automatically.
3. Ask for the type of user - Mobile or Local. This is used to set default connect properties.
4. Ask for the OR-name and freeform name. Part of the OR-name may be locked by the profile. Locked parts of the OR-name are displayed in Read-only mode.
5. Ask for the preferred communication driver. The user can choose from the drivers installed that are supported by the selected service profile.
   - If the user selected Modem communication driver, let the user select the TAPI modem to use.
   - If the user selected TCP-IP communication driver and is a mobile user, let the user select the DUN connection to use.
   - If the user selected TCP-IP communication driver and is a network user, and the default values for start of the spooler have not changed, set default values.
     The default values are given in the file STSPOOL.INI. The syntax of the STSPOOL.INI is the same as given in the SpoolerPoll section of MAXWARE.INI (see *chapter Mail Spooler use of MAXWARE.INI*).
6. Create the user and log her/him on.
7. Perform a list operation to verify that the communication setup is correct.

3.5 Installation of communication drivers from Setup

When installing the MailmaX.400 files, Setup will install all the drivers that are found on the installation disks. The list of installed drivers is stored in the MAXWARE.INI [CommDrivers] section. Syntax:

```
[CommDrivers]
<driver name> =  <file name of UA-FIyyy variant>.EXE, <type of driver>
<driver name> = <file name of UA-FIyyy variant>.EXE, <type of driver>
```

Example:

```
[CommDrivers]
Modem=UA-FIAPS.EXE,AsynchDriver
Eicon X.25=UA-FIEIC.EXE,X25Driver
```

3.6 Installation of communication drivers from MailmaX.400

It is also possible to install additional communication drivers using the MailmaX.400 command **Tools/Options/Communication**. To present the list of available drivers, MailmaX.400 reads the file DRIVERS.INF on the diskette with the additional drivers. The DRIVERS.INF file contains the sections [X25Driver], [AsynchDriver], [IPDriver] and [SpecialDriver]. The selected driver is installed in the MailmaX directory and set as default driver for this user. The list of installed drivers in the MAXWARE.INI [CommDrivers] section is updated.

3.7 Installation of service profiles and communication parameters

When installing MailmaX.400, Setup copies all *.PRF, *.FRM, *.CON, *.DIS, *.TLP and *.ICO files to the MailmaX.400 directory.

When a new user is defined using the New User Wizard (see *chapter Creating a new user*) the user is asked which service profile to install if there are more service profiles installed.

The default service profile is specified in the SETUP.INI file on the installation disk:

```
[Communication]
ServiceProfile=
```

Any user on the PC selecting a service profile (with the MailmaX.400 command **Tools/Options/Communication**) will get a user-specific ServiceProfile entry in the MAXWARE.INI [<user name>.UA] section, where <user name> is the local MailmaX.400 user name used for logon (stored in USERS.DAT).

3.8 Installation of mailbox commands

The Mailbox commands are shown in the **Tools/Options/Mailbox commands** menu. On DISK of the installation set, the Mailbox commands are defined in the MAXWARE.INI file with English names. In the UPDATE.INI file it is possible to define names in other languages.

During the installation of the program files, the contents of the UPDATE.INI file will overwrite the corresponding variables in MAXWARE.INI.

4. Customizing the installation set

The installation set can be customized in any of the following ways:

- Add/Modify/Delete service profiles in the PROFILES directory on installation DISK
- Add/Delete communication drivers
- Add menu entries in MailmaX.400 to start another application in the UPDATE.INI file
- Extend the number of file types recognized by MailmaX.400 in the DOCMAGIC file
- Add/Modify/Delete Mailbox commands
- Change default configuration parameters

It is also possible to add custom functionality in an Extension DLL, called by MailmaX.400 on certain events (Open message, save message, etc.). See *MailmaX.400 Programmer's Guide* for a detailed description.

For information about branding of MailmaX.400, please contact MaXware.

4.1 Installing drivers and profiles

Service profiles

To add a new service profile to the installation disk

- Create a new set of profile files (.PRF, .FRM, .CON, .DIS, .TLP)
- Copy the files to the PROFILES directory on installation disk. If you do not use the dial-up/asynch version of MailmaX.400, you can omit the .CON, .DIS, and .TLP files.

To remove a service profile from the installation disk:

- Delete all the profile files (.PRF, CON, .DIS, .TLP) containing the service profile from the PROFILES directory on installation disk.

To edit a service profile on the installation disk:

- Use Notepad to modify the content of one or more of the profile files. See *chapter **Service Profile files***, for a detailed description.

Communication drivers

The communications drivers (UA-FI*yyy*.EXE) are on installation disk. They are compressed with InstallShield (the installation program). InstallShield copies all the drivers to the MailmaX directory.

All new communications drivers must be specified in the SETUP.INI file on the installation disk:

```
[CommDrivers]
CommDrivers=Modem=UA-FIAPS.EXE,AsynchDriver | TCP/IP=UA-FITCP.EXE, IPDriver
CommunicationDriver=UAFITCP.EXE, TCP/IP
```

The last one is the default driver.

Change default configuration parameters

To change default values for some of the configuration parameters, edit MAXWARE.INI (or UPDATE.INI if this is an upgrade from an earlier version of MailmaX.400) or the <service profile>.PRF file.

See the next chapters for a detailed description of these files.

5. MailmaX.400 for Windows Configuration

5.1 Start your own program from MailmaX.400

If you want an application to appear as a command in MailmaX.400, you can define it in the [Menu] section in the MAXWARE.INI file on the installation disk:

```
[Menu]
AddentryN=<sub menu number>,<menu text>,<.EXE file name>,1
```

N is a positive number (1, 2, 3, etc.). If you specify more than one Addentry*N*, the numbers must be in ascending order with no numbers left out.

The <sub-menu number> specifies the MailmaX.400 menu in which the new command should appear. The File menu has the sub-menu number 0, the Edit menu number 1, etc.

The <menu text> is the command text that will appear in the specified MailmaX.400 menu.

The <.EXE file name> is the name and path of your application .EXE file. It is also possible to add command line parameters, such as a file to be input for the application.

The last parameter “1” must be present and is reserved for future use.

Example:

```
[Menu]
addentry1=0,&Secure Mailer,c:\program files\mailmax\mailer.exe,1
addentry2=1,&MAXWARE.INI,notepad c:\program files\mailmax\maxware.ini,1
addentry3=1,&UA-FI.LOG,notepad c:\program files\mailmax\ua-fi.log,1
```

5.2 File format recognition

General

MailmaX.400 for Windows automatically recognizes the most common file types used by Windows applications. MailmaX.400 uses the table file DOCMAGIC, which is described below, to perform the pattern recognition.

NOTE: For the correct program to be started when the user double-clicks on an attachment icon in the MailmaX.400 View Window, it is important that the program is installed correctly. To check this, double-click in File Manager on a document file generated by the program and check that the program starts and the document is opened in it. If the program is correctly registered in the REGEDIT database in Windows, MailmaX.400 hands the attachment over to the program without starting a new copy of the program. If the program has registered a printing command in REGEDIT, it will also be possible to print attachments created by this program directly from MailmaX.400 for Windows.

MailmaX.400 will start some programs (AmiPro, JETFORM Filler/G...) with a copy of the document file, because these applications require the file extension to be application-specific. This means that any editing changes performed in the document or form will **not** be stored. Changes are not copied back to MailmaX.400 or to the original file.

You can get around this problem by using “Send MailmaX.400”/“Send” once more to mail a new copy of the edited document.

Extend the DOCMAGIC file

When reading and writing a message, MailmaX.400 automatically identifies the format of attached documents (files) by comparing their contents with the pattern definitions in the “DOCMAGIC." file. The DOCMAGIC file is an ASCII file with key information about the file formats used by various Windows applications. Each line in the DOCMAGIC file tells MailmaX.400 how to recognize one file format.

To specify more file formats so that MailmaX.400 can recognize them: add new definitions in the [USER] section of the DOCMAGIC file. Do not add entries in the [SYSTEM] section, because they will be overwritten if MailmaX.400 is reinstalled or upgraded.

Syntax of the DOCMAGIC file

Each definition has the following syntax and information:

Position, type, search pattern, Object ID, extension, filter, X.400 format, file type name, format description.

The following example shows the definitions needed in DOCMAGIC to enable MailmaX.400 to recognize attached documents produced in Microsoft Excel version 4 and Lotus Ami Pro version 3:

```
Pos  type     pattern        Object ID          ext     filter X.400      name      description

# Excel
0     string  \011\004\006   1.2.840.113556.4.3 ".XLS"       NONE BILATERAL Excel   Microsoft BIFF 4.0 file
>6    byte    16             1.2.840.113556.4.3   ".XLS"     NONE BILATERAL Excel   Microsoft Excel 4.0 Works
>6    byte    32             1.2.840.113556.4.3   ".XLS"     NONE BILATERAL Excel   Microsoft Excel 4.0 Graph
>6    byte    64             1.2.840.113556.4.3   ".XLS"     NONE BILATERAL Excel   Microsoft Excel 4.0 Macro
>6    string  \000\001       1.2.840.113556.4.3   ".XLW"     NONE BILATERAL Excel   Microsoft Excel 4.0 workspace

# EDIFACT document
0  string  UNA:+.?    NONE          ".edi" NONE  IA5     EDIFACT   EDIFACT document
0  string  UNA+       NONE          ".edi" NONE  IA5     EDIFACT   EDIFACT document
0  string  UNB+       NONE          ".edi" NONE  IA5     EDIFACT   EDIFACT document

# Ami Pro
0     string  [ver]      2.16.840.1.113678.1.2.1    ".SAM"  copytotemp BILATERAL  AmiPro   Lotus AmiPro
>11   string  [sty]      2.16.840.1.113678.1.2.1    ".SAM"  copytotemp BILATERAL   AmiPro  Lotus AmiPro

# Example with filter
#0    string  [ver]      2.16.840.1.113678.1.2.1    ".SAM"  C:\mailmax\startami.pif   BILATERAL AmiPro Lotus
              AmiPro
#0    string  [sty]      2.16.840.1.113678.1.2.1    ".SAM"  C:\mailmax\startami.pif   BILATERAL AmiPro Lotus
              AmiPro

              (lines in the DOCMAGIC. file must be unbroken)
```

The “>” character in DOCMAGIC indicates a logical “or” between lines. When you edit DOCMAGIC, you can use one or more spaces, or a tab, as a delimiter between the parameters. The parameters in the example are:

Position

The position of the byte in the file from which it is possible to recognize elements that identify the file type.

Type

“Byte” or “String”, Specify “Byte” if the value to be searched for in the specified position is a single byte. Specify “String” to search for a text string that starts at the specified position.

Pattern

Specifies the value in the “Byte” or the content of the “String” that identifies the file type. The value in the byte is an octal number. The content of the string is either ASCII or a sequence of octal byte values. The syntax of the octal sequence is:

\xxx\xxx\xxx with each byte represented by a backslash and a 3-digit octal number

Object ID

The object ID that identifies this file type. Is used when sending attachments as type “File”. If the value is NONE, MailmaX.400 uses the default value found in the MAXWARE.INI [MailmaX] parameter “BinaryOID".

Extension (file type)

MailmaX.400 uses the extension to identify the application that can handle this file type. To find the correct application, MailmaX.400 first searches the Windows REGEDIT database, then (if necessary)

the EXTENSIONS section in the WIN.INI file. MailmaX.400 also uses the file type to propose a file extension in the **File/Export** command.

Filter

A program that will preprocess the file before MailmaX.400 starts the appropriate application. The filter runs with the file as a parameter. The field for the filter can have the following values:

- NONE: No filter.

- <program>: EXE file name of a filter program.

X.400 format

Defines the BodyPart type that the underlying X.400 system will use for attached files of this type. Possible values are IA5 (text files) and BILATERAL (binary data).

Note:
The definition of the type text or data to be sent is set in the **Tools/Options/Configuration** dialog.

File type name

A short description of the document type. Not currently used, but MUST be present as a placeholder.

Description

A text that describes the document type. When the user selects an attachment of this type, the description appears in the message view window. The attachment list shown by the command **Tools/Properties/Documents** also includes the description.

5.3 Use of MAXWARE.INI and .PRF

MAXWARE.INI

The MAXWARE.INI file contains the configuration for MailmaX.400 for Windows:

Note:
A semicolon in the first column means that this parameter is not active - the default value for MailmaX.400 for Windows is then used.

[Section]/Parameter	**Comment**
[MailmaX]	Contains default configuration.
LmsPath=xxxxxx\	Path to all users' local messages. (Each user's folders are divided into separate user directories)
HelpFile=xxxxxx\WINMAX%s.HLP	Name and path to help file - %s will be substituted with the two-letter language code of this MailmaX.400 version.
MessageFile=xxxxxx\ MAX%s.MSG	Name and path to error message file; %s will be substituted with the two-letter language code of this MailmaX.400 version.
FormsFile=xxxx\ <service profile>.FRM	Path and file name of default Forms file.
MagicFile=xxxxxx\ DOCMAGIC.	Path to pattern definition file.
WasteBasket=100	Max. number of entries in the wastebasket.

[Section]/Parameter	**Comment**
MailAlerter=0 | 1 | 2	Notice of new messages (Never | Important | Always)
Notifications=0 | 1 | 2 | 3	Default report and notification level. None (0), Failed (1), Delivered (2) or All (3).
Priority=0 | 1 | 2	Default priority level. Normal (0), Non-urgent (1) or Urgent (2).
Importance= 0 | 1 | 2	Default importance level. Low (0), Normal (1) or High (2).
Sensitivity=0 | 1 | 2 | 3	Default sensitivity level. None (0), Personal (1), Private (2) or Confidential (3).
CheckMAPI=0 | 1	Check whether or not the MaXware MAPI is the default MAPI, on (1) / off (0).
ToolBar=0 | 1	Toolbar on (1) / off (0).
BigToolBar=0 | 1	Big or small toolbar icons: big (1) /small (0).
StatusBar=0 | 1	Status bar on (1) /off (0).
PrintHeader=0 | *1* | *2* | *3*	Print header size. None (0), Small(1), Big (2) or Very big (3).
PrintExtraPage=0 | 1	Print extra page after a printout, on (0) / off (1)
SaveDesktop=0 | 1	Save desktop configuration on exit. Yes (1) or No (0).
DefaultViewer	Tool for displaying documents with unknown format
Columns=0,0,0,0,0,0,6,200,100,150,70,40,40	Default column sizes for new Folder Windows.
Editor=wordpad.exe	Editor used to view big text attachments exceeding the size supported by the internal editor.
GenerateReceipt= 0 | 1 | 2	Specifies if MailmaX.400 should send Receipt Notifications (1) or not (0) or ask User (2). The default value is 1 (send Receipt Notifications). Used to turn OFF sending of RN if the MS does this on behalf of the user. See also the parameter “Acknowledge_Mode” used by UA-FI.
GenerateNonReceipt= 0 | 1 | 2	Specifies if MailmaX.400 should send Non Receipt Notifications (1) or not (0) or ask User (2). The default value is 1 (send Receipt Notifications).
TextConversion	Specifies the default X.400 bodypart encoding of text bodyparts (text notes). “7-bit text”/IA5 (0), “Accented Text”/”IA5” (1), “8-bit”/”General Text” (2) or “Teletex” (3).
BinaryAttachmentType	Specifies the default X.400 bodypart encoding for binary bodyparts. “Date”/ “Bilaterally defined” (0) or “File”/ “FTAM” (1).
BinaryOID	The default Object ID used when sending an attachment as type “File” (FTAM) when no ID is defined in DOCMAGIC for the file type being sent. The recommended value is “1.2.849.1.113694.2.2.1.1”.
UserName=<user name>	Default user name. Proposed by MailmaX.400 in the “Login” dialog.

[Section]/Parameter	**Comment**
UserProfile	Name of user who last logged in. Updated by MailmaX.400 and MaXware Simple MAPI on login. Used by third-party applications that are integrated with MailmaX.400.
OwnORname	Own X.400 address of the last logged-in user. Updated by MailmaX.400 and MaXware Simple MAPI on login. Used by third-party applications that are integrated with MailmaX.400.
GoToNextOnDelete 0 | 1	Open newer message when deleting, on (1) / off (0)
AskforCommOnLogin 0 | 1	Display the big login dialog, on (1) / off (0)
SecurityClassification= <integer value>	Default value for the send parameter Security Classification. The values are defined in the .PRF file. Unmarked (0), Unclassified (1), Restricted (2), Confidential (3), Secret (4), Top Secret (5). No security (255).
PrimaryPrecedence=<number>	The default value for the Military send parameter Primary Precedence.
CopyPrecedence=<number>	The default value for the Military send parameter Copy Precedence.
SicCodes=<code1>, <code2>...	The default values for the Military send parameter Sic Code.
AskForEmptyWasteBasket= 0|1	Specifies if MailmaX.400 should ask for confirmation of empty waste basket when exiting MailmaX.400
FolderMaxList	Specifies the number of messages to display in a folder without scrolling. The default value is 40. Set to -1 to display all messages without this feature. (Only in MailmaX.400)
CheckPBKDF2	Specifies if a popup has to be displayed when MailmaX.400 is started with passwords that are not secured with the new stronger algorithm in the record of users.dat. The default value is 1. Set to 0 to not display the popup. (Only in MailmaX.400)
AutoUpdatePBKDF2	Specifies if the update of passwords to stronger algorithm has to be done without confirmation in the record of users.dat. The default value is 0. (Only in MailmaX.400)
[UA]	
Logfile=uafi-rsp.log	Log-file where all response files from UA-FI will be accumulated.
List-Filter=ipm	X.400 list filter used by the Mail Spooler. Used to overrule the Mailbox commands.
Fetch-Filter=	X.400 fetch filter used by the Mail Spooler. Used to overrule the Mailbox commands.
Delete-When-Fetch= 0 | 1	Delete messages automatically from the Message Store when fetched (1). Overrules the Mailbox commands.
Include-File=	Include a UA-FI command file.

[Section]/Parameter	**Comment**
Include-Response=	File name (with path) of response file for the Include command file.
[Layout]	Desktop layout when starting MailmaX.400 the first time for a new user.
MainWindow=0,2,785,525,0,	Size and position of the main window
FolderX=	Size, position and column size, and sequence for folder number X on the desktop.
[User.<user name>]	User section, contains user-specific configuration parameters. One section per user. This section can include the same parameters as in the [MailmaX] section.
MainWindow=0,2,785,525,0,	Size and position of the main window
FolderX=	Size, position, column size, and sort sequence for folder number X on the desktop
FreeFormName=	The user's Freeform Name (part of the user's own X.400 address).
TelePhoneNumber	The user's telephone number (part of the user's own X.400 address).
LastExtension=*.<file name extension>	Is used in the Attach document and Import text screen, to select/filter files to be shown in the File Name list. MailmaX.400 uses this parameter to remember the last setting.
GoToNextOnDelete=0 | 1	Is used by MailmaX.400 to determine if it should go to the next (1) or previous (0) message in a folder, when a message is deleted.
National_Character_Set=<ISO country code>	Tells which national character set the user uses. Is used by MailmaX.400 to perform correct mapping of national characters.
[Menu]	Contains definition of external applications that can be started from one of the MailmaX.400 menus. See *chapter Start your own program from MailmaX.400.*
[CommDrivers]	Contains a list of the installed communication drivers. See *chapter Installation of communication drivers from Setup*
[DAOAddressBooks.<user>]	Specifies the Address Book
[MailboXCommand_n]	Specifies the mailbox commands
[PEDIFormats]	
[Communication]	
DUNConnection=Connection	Specifies a Connection name within the Dial up Networking Folder in a Microsoft Operating Environment

[Section]/Parameter	**Comment**
DUNAutoDial= 0 | 1	Autodial maps the resources that are required to initially make a connection, but does not map resources once the connection is made 1 Enables AutoDial 0 Disables Autodial Default=DUNAutodial=1
DUNAutoDisconnect= 0	Sets the time interval which inactive connections are terminated. Inactivity is measured by lack of NETBIOS session data transfer such as copying files,accessing network resources and sending receiving electronic mail. 0 Disables AutoDisconnect 1 Enables AutoDisconnect after 1 Minute Default=DUNAutoDisconnect=0
TAPIModemprofile=	TAPI provides a single set of commands allowing hardware and software to come from different sources. When a telephony application requests an action TAPI determines which TAPI service provider supports the device, and the service provider send the appropriate command to the device TAPIModemprofile is provided by modem manufacturer
[LogUAFI]	
Log= 0 | 1	Specifies if the log is activated or not. 0 = Disabled 1 = Enabled
Trace= 0 | 1	Specifies if the TCL UI trace is activated or not. 0 = Disabled 1 = Enabled

The .PRF file

The <service profile>.PRF file contains the following configuration parameters used by MailmaX.400 for Windows:

[Section]/Parameter	**Description**
[Communication]	
MailmaxMode=Normal | Military	Specifies if MailmaX.400 should be run in Military mode (supporting P772) . Default value is Normal (P2/P22). Note: To be able to run in Military Mode, the Military functions must be unlocked.
Disable_P22= True | False	Specifies if P22 functionality (sending FTAM BodyPart and use Directory name) should be available to the user. Default value is False (P22 allowed).
[<ISO country-code>.SecurityClassification]	
<Classification 1>=<description> <Classification 2>=<description>	Possible values and descriptions for the "Security Classification" parameter displayed in the "Send Parameters" dialogs of MailmaX.400. The numbers and values in English text are normally: Unmarked (0), Unclassified (1), Restricted (2), Confidential (3), Secret (4), Top Secret (5), No security (255).
[<iso country-code>.Precedence]	
<Precedence 1>=<description>	Possible values and descriptions for the parameters "Primary Precedence" and "Copy Precedence" displayed in the "Military Parameters" dialogs of MailmaX.400. The standard numbers and values in English text are: Deferred (0), Routine (1), Priority (2), Immediate (3), Flash (4), Override (5). Custom values (bigger than 5) can also be defined.
<Precedence 2>=<description>	
[iso country-code>.Priority]	
<Custom Precedence>=<Priority value>	Priority (0:Non-urgent, 1:Normal, 2:Urgent) associated with the Custom Precedence values (value bigger than 5) specified in the [Precedence] section.
[<ISO country-code>.SicCodes]	
<SIC Code 1>=<description>	Possible values and description for the SIC Codes displayed in the "Military Parameters" dialogs of MailmaX.400. The numbers and values are specific to the Military mail system.
<SIC Code 2>=<description>	

5.4 Mail Spooler use of MAXWARE.INI

The Mail Spooler configuration is defined in the [Mail Spooler] section of MAXWARE.INI. The user can do the configuration from the Mail Spooler “Setup” dialog (**Tools/Options/Connect Setup)**:

[Section]/Parameter	Description
[Mail Spooler]	The main Mail Spooler section.
ConnectButton= <Mailbox command number>	Specifies which Mailbox command is to be performed when the user presses the “Connect” button in MailmaX.400. The value 0 is illegal.
ConnectAtStartup= <Mailbox command number>	Specifies which Mailbox command is to be performed automatically when the Mail Spooler is started. The value 0 means that no command should be performed.
ShowStatus= 0 | 1	Specifies whether the Mail Spooler should show the “Status” dialog on completion of a communication session.
BeepOnNewMail= 0 | 1	Specifies whether the Mail Spooler should beep when a new message is fetched from the MS. The Mailbox Command definitions are stored in the sections [MailboxCommand_<n>], where <n> is an integer value. A Mailbox Command defines the operations to be done when connecting to the MS, and the Mail Spooler translates the commands into a “UA-FI Command File”. The defined Mailbox Commands are shown in the MailmaX.400 menu “Mailbox” and can be edited in the Tools/Options/Connect setup dialog.
[MailboxCommand_N]	The section describing command number N.
Name=<Command name>	The name of the Mailbox command, shown in the MailmaX.400 menu “Mailbox”
Submit= 0 | 1	1: Submit Receipt Notifications and all messages in Ready state 0: Never submit messages when this ConnectAction is invoked.
FetchList=0 | 1 | 2 | 3 | 4	0: Do not fetch or list 1: List new messages 2: List all messages 3: Fetch marked messages and list new messages 4: Fetch all messages
FetchReports= 0 | 1	0: Do not fetch reports or notifications 1: Fetch reports and notifications
DeleteMessages= 0 | 1	0: Do not delete messages when fetched 1: Delete all messages when fetched (all Fetch statements to UA-FI in this run)
DeleteReports= 0 | 1	0: Do not delete reports when fetched 1: Delete reports when fetched Note: This entry is not reflected in the user interface, but should always be set to 1 when FetchReports is set to 1.
DeleteMarked=0 | 1	0: Do not delete (remote) messages marked for deletion 1: Delete messages marked for deletion Note: This entry is not reflected in the user interface, but should always be set if FetchList is set to 3 (fetch marked messages).
WaitAndFetch= 0 | 1	This command allows the user to send a message and stay connected until an answer is received in the Mailbox. UA-FI will regularly poll the Mailbox until an answer/message corresponding

[Section]/Parameter	**Description**
	to the Fetch-Filter is received. Fetch-Filter= The Fetch-Filter (Mandatory) is used by the WaitAndFetch function. The selection criterion may be “answer from a specific originator” or “NEW message arrived in the Mailbox”. See *UA-FI Programmer’s Guide* for a detailed description of possible filters. Poll=10,120 : Defines the poll interval and maximum connect time for the WaitAndFetch function. Given in seconds.
Include-File=	To include a UA-FI command file name.
Include-Response=	File name (with path) of response file for the Include command file. Include-First = 0 | 1 The included CMD-file can be executed before other commands. Note: The Mailbox commands are overruled by any parameter setting in the [UA] section of MAXWARE.INI. See your MAXWARE.INI file for examples.

Scheduled polling

In the Mail Spooler “Setup” dialog (**Tools/Options/Connect Setup)**, it is possible to set up the Mail Spooler to automatically connect to the MS according to predefined rules. These rules are defined in the [SpoolerPoll_<n>] sections in MAXWARE.INI:

[Section]/Parameter	**Description**
[SpoolerPoll_N]	The section describing the scheduled polling no N.
MailboxCommand=1	Gives the name of the ConnectAction that should be invoked when this poll is due. Same as “Name” in the [MailboxCommand_<n>] section.
MsgPrior=1 | 2 | 3	Connect whenever there is a number of messages specified by the NumMsg parameter with priority 1/2/3 (None-urgent / normal /Urgent) and status “Ready” in the LMS.
NumMsg=<number of msg>	See MsgPrior.
PollingInterval=<minutes>	Gives the value for the time between two start-ups of this ConnectAction. This value is used to define how often the Mail Spooler triggers connection to the MS.
PollingNextPoll= <DateAndTime offset>	Next time the polling is to be performed.

Start Spooler on Login

If a rule for an automatic scheduling is defined (**Tools/Options/Connect Setup)**, the Mail Spooler is started and minimized. The Spooler is defined as a start-up program in the user's Taskbar and is started each time Windows is started.

The start-up of the spooler is defined in the “Startup”-group for the user.

Now the Mail Spooler will be automatically started on MS Windows start-up.

The parameter:

```
StartSpoolerOnLogin=1 | 0
```

is in the [user.nnn] section in the MAXWARE.INI file.

5.5 Mailbox commands

To add a new Mailbox command to the installation set, define a new English Mailbox command in the MAXWARE.INI file (if this is a new installation) or in the UPDATE.INI file (if this is an upgrade of MailmaX.400) (see also *chapter Installation of mailbox commands*.

The files can be edited in a text editor like Notepad. For the syntax of the Mailbox commands, see *chapter Mail Spooler use of MAXWARE.INI*.

To modify a Mailbox command: Edit an existing Mailbox command definition in MAXWARE.INI.

To delete a Mailbox command: Delete an existing Mailbox command definition in MAXWARE.INI.

6. Service Profile files

6.1 The .PRF file

The <service profile>.PRF file contains communication parameters specific to the service and customising details.

The syntax/content of the main parameters in the .PRF file is:

[Section]/Parameter	Description
[Communication]	
ProfileName= <name of profile>	Name of the service profile.
ProfileVersion= <version of profile>	The MailmaX.400 “Help/About” dialog displays the profile name and profile version.
AsynchDriver= 0 | 1	Specifies whether the profile supports the modem/dial-up (APS) version of UA-FI/MailmaX.400. Is used during installation to determine if this driver type should be installed for the selected service profile, and if this driver type can be chosen in the Edit/Options/Communication driver... command.
X25Driver= 0 | 1	Specifies whether the profile supports the X.25 version of MailmaX/UA-FI. See AsynchDriver above.
IPDriver= 0 | 1	Specifies whether the profile supports the TCP/IP version of MailmaX/UA-FI. See AsynchDriver above.
ISDNDriver= 0 | 1	Specifies whether the profile supports the ISDN version of MailmaX/UA-FI. See AsynchDriver above.
SpecialDriver= 0 | 1	Specifies whether the profile supports a custom version of UA-FI. See AsynchDriver above.
Program=	Used for branding MailmaX.400. For more information, please contact MaXware.
Connect1=<file name>	The service profile file containing the script for establishing the physical connection to the Mail Service, used by the modem version of UA-FI.
Disconnect1=<file name>	The service profile file containing the script for disconnecting the physical connection to the Mail Service, used by the modem version of UA-FI.

[LOCATION]

This section is used to define different PAD telephone numbers used when calling from different places.

For example: How to connect to a PAD in France when dialing from Germany.

The file COUNTREN.INF contains the list of Countries and Intl. prefix in/out.

For more information see the example profile file *example.prf.*

[URLS]

The MailmaX.400 “Help” menu can include a command called “URLS” displaying various mail addresses and/or WWW home pages for getting information from and sending questions to the service provider. When the user clicks an X.400 address, the MailmaX.400 Compose window is opened and the “To”, “Subject” and “Text” fields may be filled out with the necessary information. When the user clicks the address of a home page, the default Web browser displays the home page.

For more information, see the example profile file *example.prf.*

[EN.SecurityClassification]

The security classification of a message can be selected from this text. If a different text is needed for various languages, make additional sections prefixed with the relevant language code. Use the same numbers and translate the text “Unmarked, ; Unclassified”, etc.)

For more information, see the example profile file *example.prf.*

The .PRF also may contain a number of other communication parameters. To see examples, please look at some of the *example.prf* on the PROFILES directory of your installation disk.

6.2 The .FRM file

The .FRM file contains the address templates used by MailmaX.400 for Windows. You can also use the address templates to create Query By Mail (QBM) forms.

The address templates are small “form” definitions used to present various address types in a friendly way to the user. In MailmaX.400 there is one .FRM file for each service profile. Normally, the .FRM file contains one address template for each gateway on the server (fax, telex, Internet, etc.) and one template for each QBM service (if any) or similar.

When the user presses the “New Address...” button in the Compose window, a list box with address templates and QBM templates appears. When the user presses the “E-mail Address...” button in the “New Name” dialog of the Address Book, a list of address templates appears.

Each template is defined in a section named [<ISO country code >.<name of template>]. The ISO country code allows you to have different language variants of the templates. The template used for creating new users must be defined in the section named [<ISO country code>.DefineUser].

In addition to the template definitions themselves, the .FRM file includes one table of contents per language, listing the address templates. The tables of contents are defined in the sections [<ISO country code>.Content].

When the user presses the “New Address...” button in the Compose Window or the “E-mail Address...” button in the “New Name” dialog of the Address Book, MailmaX.400 reads all template names defined in the correct [<ISO country code>.Content] section and presents them to the user. When the user selects a template, MailmaX.400 presents the template as defined in the corresponding template definition section. The DefineUser template used for creating new users must not be defined in the table of contents.

The table of contents definition is as follows:

[<ISO country code>.Content]

<template name 1>= 1 | 0

1: Show the template in the template list

0 : Do not show the template in the list

<template name 2>= 1 | 0

.....

InternetTemplate=<name of Internet template>:

If this parameter is set, MailmaX.400 will automatically recognise an address written in Internet format (john@megacorp.com) in the Compose Window “To:” field.

The template definition syntax is as follows:

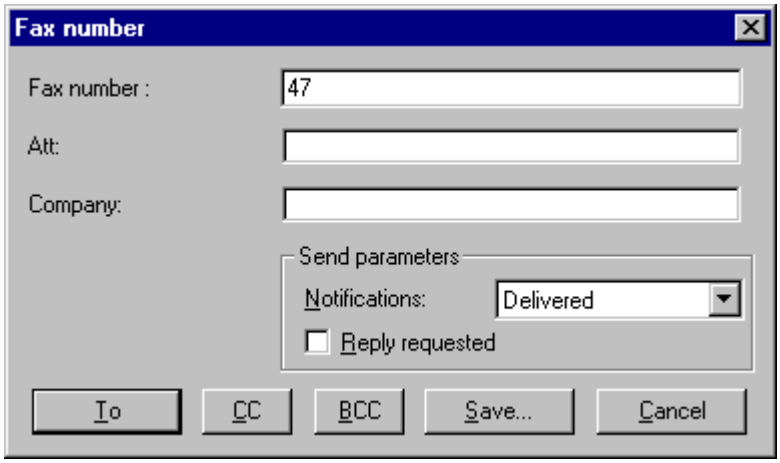
[<ISO country code>.<name of template>]

Parameter	Description
Heading=	Name of the template, used in the list box of templates and in the caption of the template dialog.
Prefix=	(Short) text prefixing the address when shown in the message folder column “To/From”.
HelpText=	Help text (first 200 characters), which will be displayed in the template dialog if the user presses the F1 key while the form is displayed. The character "$" means New Line (CR).
HelpText1=	Next 200 characters of the help text.
MailButton=0 | 1	Mail button flag. If this flag is 0 (default), this is an address template. If this flag is set to 1, this is a QBM template, and the following happens: The “Mail” button is shown in the QBM template, so the user can mail the message directly from the template. The QBM template is not present in the “New name” command of the Address Book. The QBM template is only present in the “New address” command in the Compose window if the message has no other recipients defined. The QBM template does not contain the “Freeform name” and “Save as short name” fields.
AddressString=	Contains the X.400 address. If this string contains parameters (%1, %2, etc.), the corresponding values from Query1, Query2, etc., will be filled in before this is used as a recipient address for the message.
Subject=<string>	Only used in QBM templates. The Subject string is copied to the subject field of the message. The string may contain parameters (%*m* etc.); the corresponding values from Query<*m*> etc. will be filled in before this is used as the subject for the message.
Line<*n*>=<string>	Only used in QBM templates. Contains the text to be put into line *n* of the first text bodypart of the message. The string may contain parameters (%*m*, etc.), the corresponding values from Query<*m*>1 etc. will be filled in before this line is added to the message text.
Query<*m*>.Prompt=	Prompt string for the field corresponding to the parameter %*m*
Query<*m*>.Length=	Length of the field corresponding to the parameter %*m*
Query<*m*>.Default=	Default value for the field corresponding to the parameter %*m*

Examples:

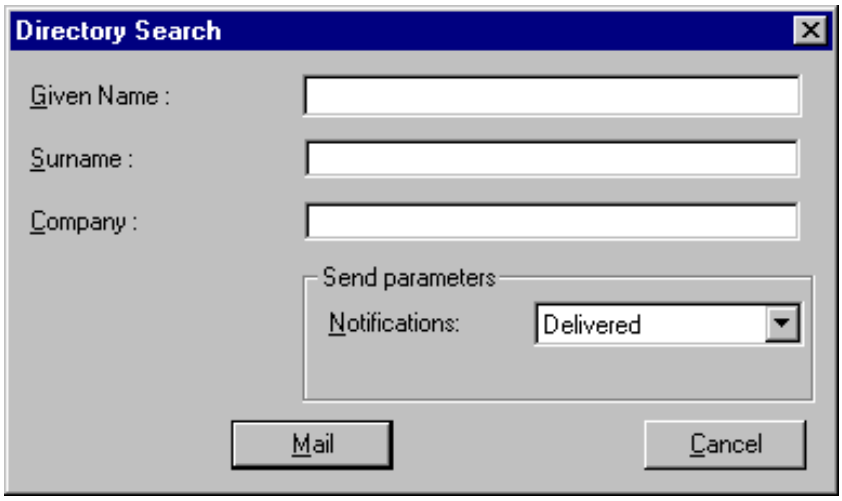
```
[EN.Content]
Fax=1
TelePost Directory=1

[EN.Fax]
Heading=Fax number
Prefix=Fax
AddressString=DD.COMPANY=%3;DD.NUMBER=9%1;DD.ATTN=%2;P=Fax;A=Telemax;
  C=No;
Query1.Prompt=Fax number:
Query1.Length=20
Query1.Default=47
Query2.Prompt=Att:
Query2.Length=80
Query3.Prompt=Company:
Query3.Length=35
HelpText=Contact TelePost Communication if you have problems with the gateway.
```

Gives the following address template:



```
[EN.TelePost Directory]
Heading=Directory Search
Prefix=Directory
AddressString=s=Katalog;p=Telepost;a=Telemax;c=NO
MailButton=1
HelpText=Specify the name of the person you are searching for.
Subject=Directory search
MailButton=1
Line1=f=%1
Line2=e=%2
Line3=b=%3
Query1.prompt=Given Name:
Query1.Length=40
Query2.prompt=Surname:
Query2.Length=40
Query3.prompt=Company:
Query3.Length=60
```

Gives the following message template.



6.3 The .CON and .DIS files

General

MaXware has specified a script language that can be used to establish and disconnect a physical connection between an asynch (dial-up) version of MailmaX.400 and the Mailbox. The script language is also used by the ISDN communication driver. The .CON and .DIS files contain the scripts that the dial-up version of UA-FI uses to establish a physical connection to the Mail Service.

This chapter describes the MaXware script language so that you can modify existing scripts and make your own scripts.

Format of the script file

For the asynch driver, all parameters must be present in the [Communication] section of the script file. For the ISDN driver, the parameters must be present in the [ISDN] section. For TAPI (Telephone Application Programming Interface), the parameters must be present in the [TAPI] section.

The script file must contain:

- the parameter NumberOfAttempts, specifying the maximum number of times the script should be tried before giving up the attempts to establish the connection, and
- one or more interaction statements, defining an communication interaction between UA-FI and the modem/PAD/network. Typically an interaction defines a SendString to be sent and the expected response. Each interaction statement must be specified on a separate line in the script file. The interaction statements must be numbered with increments of one in the sequence in which they are to be performed.

As input, the interaction statements can use the values from the configuration parameters defined in the <service profile>.PRF file (like telephone number) or in the MAXWARE.INI file (like modem init string).

The interactions may also request input from the user. The script file may contain a list of queries for the end user to answer. The interaction will wait for the user's response before it continues. The query option is available in the Windows version only, and is presented using a dialog box where the user can select "OK" or "Cancel". If the user selects "OK", processing of the script continues. If the user selects "Cancel", UA-FI terminates.

Script Interactions

Parameter	Description
NumberOfAttempts	NumberOfAttempts = *n*, where *n* is a number in the range 1-32767. Default value is 3
Interactions	The script contains a number of interaction<*n*> statements, which must be specified in ascending order (Interaction1, Interaction2, etc.), with one interaction per line. The syntax of an interaction is as follows: Interaction<n> = InteractionName, SendString,Timeout,ReceiveString,ErrorString,LocalRetry, SectionRetry,ErrorMsgNumber
InteractionName	String that identifies the interaction. Used when reporting progress to the X.400 communication window. Mandatory.
SendString	A sequence of zero or more ASCII strings in double quotes, possibly combined with: a delay specified in the format Tn, where n represents a delay in seconds within the range 1-32767. transition of the DTR and RTS signals specified in the format Dn, where n equals 0 or 1. Represents setting DTR and RTS low or high respectively. **Note:** Not applicable for the ISDN driver. one or more characters in hex format specified in the format HFF, or the format ^p representing ASCII control codes, where p is in the range '@' to '_'. one or more parameters defined by Pn, where n represents the parameter number in the range 1-9 to be fetched from the configuration file one or more queries defined by Un, where n represents the parameter number in the range 1-9 to be presented to the end user for input. **Example:** “PROF90”^MT1P1^M No default value (refer to the description of the procedure).
Time-out	Integer representing the time to wait for a response in number of seconds, in the range 0-32767. Default value: 0
ReceiveString	A sequence of zero or more ASCII strings in double quotes, possibly combined with: one or more characters in hex format specified in the format HFF, or the format ^p representing ASCII control codes, where p is in the range '@' to '_'. one or more parameters defined by Pn, where n represents the parameter number in the range 1-9 to be fetched from the configuration file
ErrorString	Same format as ReceiveString.
LocalRetry	Maximum number of retries of the same interaction if the expected ReceiveString is not received, in the range 0-32767. Default value : 3
SectionRetry	If the number of interaction retries reaches the maximum specified in LocalRetry, and if the value of SectionRetry is 1 (true), UA-FI retries the entire script (starts from Interaction1 again). The maximum number of times that the whole script is retried is determined by the value in the parameter NumberOfAttempts. If the value for SectionRetry equals 0 (false) the whole connection procedure is aborted. Default value : 1

Parameter	Description
ErrorMsgNumber	Specifies the number (ID) of the error message to be presented to the user if this interaction fails or times out. The error message is fetched from the file MAX<ISO country code>.MSG. If no error message number is specified, the default values are: 3004:0250 for a 'Failed' interaction and 3004:0251 for a 'Timed out' interaction. MaXware has defined a number of error messages: 3004:0255 and upwards. If none of these suits your needs, contact MaXware .

Description of procedure per interaction

At the start of each interaction, the SendString, if present, will be sent. The rest of the procedure depends on which response strings are specified and which responses are received:

1. No ReceiveString and no ErrorString is specified.
   If no response strings are specified (only SendString is present), the Time-out field must be empty. The script will report success once the SendString is sent and the next interaction will be performed
2. No ReceiveString is specified

   The script will wait for the ErrorString until Time-out.

   If no ErrorString is received, progress will be reported and the next interaction will be performed.

   If the ErrorString is received, the same interaction will be retried up to the number of times defined by LocalRetry.

   If the ErrorString is still received, an error will be reported and the entire script file will be retried if SectionRetry=1 and NumberOfAttempts is not exceeded .

   If the NumberOfAttempts is exceeded, the ErrorMsgNumber will be reported and the whole connection attempt will be aborted.
3. ReceiveString is specified

   The script will wait for the ReceiveString, the ErrorString or expiration of the Time-out. The script will test for a match against the ErrorString before testing the ReceiveString. Interactions must be specified so that the ReceiveString will never be received in an error situation and the ErrorString never received in a normal situation.

   If the ErrorString is received, or the time-out elapses, the script will retry the same interaction up to the number of times defined by LocalRetry. If the ReceiveString is still not received, an error will be reported and the entire script will be retried if SectionRetry=1 and NumberOfAttempts is not exceeded.

   If the NumberOfAttempts is exceeded, the ErrorMsgNumber will be reported and the whole connection attempt will be aborted.

   If the ReceiveString is received, progress will be reported and the next interaction will be performed.

   When testing for a match against the ReceiveString and the ErrorString, the most significant bit in all bytes will be ignored to prevent any problems caused by incorrect parity. This applies to both data received and the strings defined in the interaction.

Logging in the UA-FI log file

When the script files run, all data sent to the port and received from the port will be logged in the log file UA-FI.LOG. This may be useful for testing and debugging.

Variable configuration parameters

Scripts can fetch text strings from parameters in the current <service profile>.PRF file or MAXWARE.INI. To do this, you use variable parameters in the format:

P<n> = ParameterName, Prompt, ParameterLength

ParameterName (mandatory)

Identification of the parameter as defined in the [Communication] section of the configuration files .PRF or MAXWARE.INI. The value of the parameter is retrieved from the configuration file and substitutes the P<n> variable in the script file. The script parser looks for the parameter in both the .PRF and the MAXWARE.INI files. If the parameter is found in both files, the one in MAXWARE.INI is used.

Prompt

String to be used in the query to the end user (quoted).

ParameterLength

Maximum length of parameter value.

Variable user parameters

In the script files the user can be prompted for input text (this only applies to the MS-Windows version of UA-FI). To do this, you use variable parameters in the format:

U<n> = Prompt

Prompt (mandatory)

String to be used in the query to the end user (in double quotes).

Example files for asynch driver

Configuration file MAXWARE.INI (extract)

```
[COMMUNICATION]
Device=COM1
Baudrate=9600
Outside_Line=0
ModemProfile=Generic Hayes
Modem_Init_String=ATE1 S7=40 V1 X1 S0=0 S2=43 S6=2 Q0 &D2
Modem_Dialing_Prefix=ATDT
Modem_Hangup_Prefix=+++
Modem_Hangup_Suffix=ATH0
```

See the installation disk for complete examples.

Service profile file EXAMPLE.PRF (extract)

```
[COMMUNICATION]
APS_Server_X25Address = 4504575
APSlink_CalledNSAP=450292
PAD_TLF=167
PAD_Account=N001424
PAD_Password= NTAMVW-
Connect1 = example.con
Disconnect1 = example.dis
```

Connect script file EXAMPLE.CON

```
[COMMUNICATION]
NumberOfAttempts=3
Interaction1 = Modem initialisation,D0T1D1T1P1^M,5,"OK","ERROR",0,1,3004:0255
Interaction2 = PAD Connect,T1P2P3P4^M,60,"*","NO ",0,1,3004:0256
Interaction3 = Set PAD parameters,T2"SET
1:0,2:0,3:2,4:20,5:0,6:5,9:0,10:0,12:0,13:0,14:0,15:0,21:0"^M,3,"*","ERR",2,1,3004:0257
Interaction4 = Network connect,P5P6P7^M,15,"COM","CLR",0,1,3004:0258

P1 = Modem_Init_String,"Initialize modem", 128
P2 = Modem_Dialing_Prefix,"Dialing prefix", 16
P3 = Outside_Line,"Outside line", 16
P4 = PAD_TLF,"Telephone number", 20
P5 = PAD_Account,"PAD Account",15
P6 = PAD_PASSWORD,"PAD Password",16
P7 = APS_Server_X25Address,"APS Server address", 20

[TAPI]
NumberOfAttempts = 3
; Modem Init. and dialling is part of TAPI, not this script!
```

```
Interaction1 = PAD Connect,"STAT"^M,3,"FREE"H0DH0A"*","NO ",1,1,3004:0256
Interaction2 = Set PAD params,"SET
1:0,2:0,3:2,4:20,5:0,6:5,9:0,10:0,12:0,13:0,14:0,15:0,21:0"^M,3,H0DH0A"*","ERR",2,1,3004:0257
Interaction3 = Check PAD params,"PAR?"^M,5,H0DH0A"*","ERR",1,1,3004:0256
Interaction4 = Network connect,P1P2P3^M,15,"COM","CLR",0,1,3004:0258

P1 = PAD_Account,"PAD Account",15
P2 = PAD_PASSWORD,"PAD Password",16
P3 = APS_Server_X25Address,"Teleconverter address", 20
```

Disconnect script file EXAMPLE.DIS

```
[COMMUNICATION]
NumberOfAttempts = 1
Interaction1 = Modem disconnect,T2P1T2P2^MT1D0T1,,,,0,0
P1 = Modem_Hangup_Prefix,"Modem command mode string",64
P2 = Modem_Hangup_Suffix,"Modem hang up string",64

[TAPI]
NumberOfAttempts = 1
Interaction1 = Modem disconnect,,,,,,
```

Recommended PAD settings

When using MailmaX and PAD configuration, MaXware recommends that you use the parameter settings specified in the examples above.

7. Communication configuration

This chapter documents all communication parameters used by MaXware UA-FI, both when this module is used for EDI purposes, and when it acts as the communication module in MailmaX.400 for Windows.

7.1 Sections

The configuration file parameters belong to specific sections in different files. The following sections are used by UA-FI:

[Communication] in the files MAXWARE.INI, <ServiceProfile>.PRF, <ServiceProfile>.CON and <service profile>.DIS.

[ISDN] in the files <ServiceProfile>.PRF and <ServiceProfile>.CON.

[USER.<user name>] in the file MAXWARE.INI.

[PEDIFormats] in the file MAXWARE.INI.

At start-up UA-FI finds the correct .PRF file to be used to be used, from the parameter “ServiceProfile” in the [USER.<user name>] section of MAXWARE.INI. If there is no “ServiceProfile” parameter in the USER section , the value is read from the parameter “ServiceProfile” in the [Communication] section of MAXWARE.INI.

Then all the communication parameters are read from the .PRF file (UA-FI) and MAXWARE.INI. UA-FI scans both the service profile file and the MAXWARE.INI file. If the same parameter is found in both files, the value found in MAXWARE.INI is used. You should put parameters that are independent of the service profile into MAXWARE.INI (like Device and Baudrate), and service-specific parameters in the service profile file (like MS_Address).

7.2 P2/P22 protocol parameters (UA-FI only)

Acknowledge_Mode

Specifies whether the UA-FI should generate receipt notification automatically or not. Possible values: automatically or manually. This should be set to manual when using MailmaX.400, as it is then MailmaX.400 that generates the notification.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	String
Range	Maximum length = 200 characters
Default	Automatically

P22Strip

Specifies if UA-FI should strip off P22 functionality on incoming messages (i.e. downgrade to P2). Stripped functionality is Common Name, Directory name. FTAM BP is converted to Bilaterally defined and General Text BP is converted to IA5.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Boolean
Range	[True, False]
Default	False

EncodeAsExternal

Specifies if basic bodyparts should be encoded as Externally Defined BodyParts when sending messages with P22 content type.

Parameter	Description
Category	Optional
Unit	N/A
Type	Boolean
Range	[True, False]
Default	False (encode as 1984 P2)

T61LinesPerPage

Specifies the number of lines before a page break is set during conversion of T61 BodyParts.

Parameter	Comment
Category	Optional
Unit	Lines
Type	Integer
Range	[0, 32767]
Default	55

G3Fax_Format

If receiving a G3 Fax BodyPart, the decoding is done according to this parameter, as follows:

ASN1

The whole bodypart including the ASN.1 TAG, the parameters and ASN.1 encoded bitstring is copied to the bodypart file.

G3FAX

One file contains a list of file names comprising the content of the G3 FaX, one file name for each page included in the fax bodypart.

Parameter	Comment
Category	Optional
Unit	N/A
Type	String
Range	[ASN1,G3FAX]
Default	ASN1
Special	If any value other than the values above are used the default value will be used.

7.3 PEDI (X.435) protocol parameters (UA-FI only)

Format_n

The EDI Syntax-Charset combination consists of an object identifier that uniquely identifies the EDI syntax and character set of the EDI bodypart. The EDI syntax may have the values EDIFACT ANSIX12 UNTDI PRIVATE UNDEFINED. The maximum length is 32 characters.

Charset may have the values T61 OCTET ISO646 EBCDIC. The maximum length is 32 characters.

This parameter must be inserted in the section [PEDIFormats] of MAXWARE.INI:

Format_n = syntax,charset1:object-id,charset2:object-id,charset3:object-id...

Example

```
[PEDIFormats]
Format_1=EDIFACT, ISO646:2.6.7.11.0, T61:2.6.7.11.1,OCTET:2.6.7.11.2
Format_2=ANSIX12, ISO646:2.6.7.11.3, T61:2.6.7.11.4,OCTET:2.6.7.11.5,EBCDIC:2.6.7.11.6
```

7.4 P7 protocol parameters (UA-FI only)

P7_Fetch_Attributes

Specifies the attributes to fetch in a FETCH operation.

One or more of the following attributes can be specified:

- P7Envelope
- ContentLength
- Priority
- P7Originator
- SubmissionTime
- CreationTime
- MTSID
- ContentType

If P7Envelope is selected, P7Originator, Priority, SubmissionTime and MTSID will be fetched from the envelope.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	String
Range	Maximum length = 200 characters
Default	ContentLength Priority P7Originator SubmissionTime CreationTime Contenttype

P7_List_Attributes

Specifies the attributes to fetch in a LIST operation. One or more of the following attributes can be specified:

- P7Originator
- P2Subject
- ContentLength
- Priority
- ThisIPM
- SubmissionTime
- CreationTime
- P2Originator
- ContentType

Parameter	**Description**
Category	Optional
Unit	N/A
Type	String
Range	Maximum length = 200 characters
Default	P7Originator P2Subject ContentLength Priority ThisIPM SubmissionTime CreationTime Contenttype

P7_Unbind_Timeout

The parameter is an activity timer indicating the number of seconds the association should be kept when no data is transferred across the association. The timer is not in use when a response is expected as a result of an invoked operation from the UA-side. When the timer expires, the P7 UA-side unbinds the association.

Parameter	**Description**
Category	Optional
Unit	Seconds
Type	Integer
Range	[1, 32767]
Default	300

Outstanding_Operations

The parameter indicates the maximum number of outstanding P7 operations that the program should allow.

Setting a high number will give better performance. However, possible limitations at the Message Store must also be considered when determining the value.

Parameter	**Description**
Category	Optional
Unit	Operations
Type	Integer
Range	[1, 32767]
Default	1

Selector_Limit

Specifies the upper limit on how many entries are to be selected in a Fetch, List or Delete operation. If set to 0, all of the selected entries will be returned (the selector argument is empty in a Fetch, List or Delete operation).

Parameter	**Description**
Category	Mandatory
Unit	N/A
Type	Long
Range	[0 , 2^{31}-1]
Default	0

Max_Fetch

Specifies the maximum number of messages to be fetched before Message Store delete operations are to be invoked.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Integer
Range	[1 - 32767]
Default	1

SecurityPolicyID

Specifies the Security Policy ID. The value is an Object identifier. The Security Policy ID is part of the Security Label.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Object ID string on format n1.n2.n3.n4 etc.
Range	
Default	None

7.5 ROSE protocol parameters

ROSE_Rejects:
This parameter indicates the maximum number of illegal APDUs in a row that the ROSE can accept before releasing the association.

Parameter	**Description**

Category	Optional
Unit	N/A
Type	Integer
Range	[0, 32767]
Default	3

7.6 ACSE protocol parameters

There are no parameters used by ACSE.

7.7 Presentation protocol parameters

There are no parameters specific to the presentation layer. For configuration of called PSAP ID, see the parameter MS_Address/DSA_Address under the Network protocol below.

7.8 Session protocol parameters

Session_TIM

This timer starts when the session layer expects the other side to initiate release of the connection. If the time-out expires, the connection will be released from the UA side. A low value for TIM restricts the amount of user data that it is possible to transfer, for example in an abort request or release response.

Parameter	**Description**
Category	Optional
Unit	Seconds
Type	Integer
Range	[1, 32767]
Default	60

Session_Proposed_TSDU_Size

This parameter determines the maximum number of octets contained in a TSDU. This value is a result of negotiation between the communicating session layers. Possible values to be included in the configuration file are in the range 0 - 65535. The default value is used if the value included in the configuration file is bigger than 65535.

It is recommended that you use infinite TSDU-size (value 0), as this value will normally give the best performance.

Parameter	**Description**
Category	Optional
Unit	Octets
Type	Natural
Range	[0, 65535]
Default	0 (infinite)

Session_v1_sim

The parameter is used to simulate version 1 of the session layer. Version 2 of the session layer is implemented in UA-FI. If the parameter is set to true, the session protocol will indicate that version 1 is used in the CN-SPDU, but the session protocol will still use procedures according to version 2.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Boolean
Range	[True, False]
Default	False

For configuration of “Called SSAP ID”, see the parameter MS_Address/DSA_Address under the section on network protocol below.

7.9 Transport protocol parameters

Transport_Max_TPDU

This parameter determines the maximum number of octets contained in a TPDU. This value is a result of negotiation between the communicating transport layers. Possible values are 128, 256, 512, 1024 and 2048. If any other value is given in the configuration file, the program will log “Invalid parameter” in the log file.

It is recommended that you use a large value, for example 2048, as this value normally gives the best performance.

Parameter	Description
Category	Optional
Unit	Octets
Type	Integer
Range	[128, 256, 512, 1024, 2048]
Default	128
Special	If any value other than the range of values above is used, the default value will be used

NOTE: The 'APSlink_UserDataSize' parameter should be set accordingly.

Transport_PI_TPDU

If TRUE, the PI (Transport Protocol Identifier) TPDU should be sent as the user.

Parameter	Description
Category	Optional
Unit	N/A
Type	Boolean
Range	[True, False]
Default	True

For configuration of the called TSAP ID, see the parameter MS_Address/DSA_Address under the section on network protocol below.

7.10 Network protocol parameters

MS_Address

This is the Message Store (MS) address. Used by UA-FI only. The address contains the necessary addressing information, including network DTE-address, TSAP, SSAP and PSAP of the MS. The values are separated using the character ‘/’, as illustrated in the example. Network address, TSAP, SSAP and PSAP-values must be prefixed by writing respectively /Net=, /TSAP-ID=, /SSAP-ID= and /PSAP-ID=. The values corresponding to each keyword are case-sensitive.

If the value for one of the Service Access Points starts with 0x, the remainder of the value is taken as a hexadecimal value. The value must consist of a sequence of a pair of hexadecimal digits (0-F). If the value starts with 0x, any character not representing a hexadecimal digit is ignored. If there is not an even number of hex digits, the hex value is padded with 0.

Parameter	Description
Category	Mandatory
Unit	N/A
Type	String
Range	Maximum 200 characters
Default	None

Special	Note! No spaces allowed

NOTE: /Net is only used by the X.25 version of UA-FI. The APS version uses the parameter "APSnet_CalledNSAP" instead of "/Net=".

NetworkCallingNSAP

Own NSAP that may be used with the X.25 version of UA-FI. The network address must be prefixed with /Net= (e.g. NetworkCallingNSAP=/Net=45002).

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Digits
Range	Maximum 40 digits
Default	None

APSnet_CallingNSAP

Own APS NSAP that may be used with the modem (APS) version of UA-FI.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Digits
Range	Maximum 40 digits
Default	None

APSnet_CalledNSAP

The APS NSAP of the called server (MS). If the MaXware Teleconverter with a TCP/IP connection to the MS is used, the IP-address of the MS should be specified in the format APSnet_CalledNSAP=128128128128 (the punctuation marks of the IP-address must be removed).

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Digits
Range	Maximum 40 digits
Default	None

APSnet_Td

Time to wait from the sending of an APS network disconnect confirm to the start of disconnecting the underlying connection.

Parameter	**Description**
Category	Optional
Unit	Seconds
Type	Integer
Range	[1, 32767]
Default	15

NOTE: For Teleconverter, MaXware recommends that you set the parameter to a higher value, e.g. 30 seconds.

APSnet_Tr

Time to wait from the sending of an APS network disconnect request to the start of disconnecting the underlying connection.

Parameter	**Description**

Category	Optional
Unit	Seconds
Type	Integer
Range	[1, 32767]
Default	5

7.11 APS Link protocol parameters

The parameters below are relevant when using the APS protocol only.

APSlink_N1

Maximum number of attempts to complete the successful transmission of the link setup string (Initiator only).

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Natural
Range	[1, 65535]
Default	4

APSlink_N2

Maximum number of attempts to complete the successful transmission of an I-frame.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Natural
Range	[1, 65535]
Default	4

APSlink_Tc

Time to wait before re-transmitting link setup string (Initiator only). The setup string will be retransmitted a maximum of APSlink_N1 times.

Parameter	**Description**
Category	Optional
Unit	Seconds
Type	Integer
Range	[1, 32767]
Default	5

APSlink_Ts

APS link layer: Time to wait for a valid response frame during setup (Responder only). If not received, disconnect. Also used by APS network layer protocol for connection setup (both initiator and responder). If time-out, disconnect.

Parameter	**Description**
Category	Optional
Unit	Seconds
Type	Integer
Range	[1, 32767]
Default	15

APSlink_T1

Time to wait before retransmitting an I-frame.

Parameter	Description
Category	Optional
Unit	Seconds
Type	Integer
Range	[1, 32767]
Default	5

APSlink_Transparency

Defines the type of byte-stuffing used.

Parameter	Description
Category	Optional
Unit	N/A
Type	String (Only the first character is significant)
Range	[(B)asic, 7, 8]
Default	8
Special	If any value other than the values above is used, the default value will be used.

APSlink_Protocol

Defines the type of APS Link protocol to be used. LAPB provides error recovery, and is the recommended setting.

Parameter	Description
Category	Optional
Unit	Protocol
Type	String (Only the first character is significant)
Range	[(A)PS, (L)APB]
Default	(L)APB8
Special	If any value other than the values above is used, the default value will be used.

APSlink_UserDataSize

Defines the maximum size of user data at the link layer.

Parameter	Description
Category	Optional
Unit	Bytes
Type	Natural
Range	[0, 65535]
Default	For UA-FI: 2050 For Teleconverter: 8194
Special	Recommended values: Teleconverter: Default UA-FI: 'TransportMaxTPDUsize' + 2. UA-FI: The selected value must never be lower than 'TransportMaxTPDUsize' + 2. NOTE: A larger value will take up some more memory.

APS_PADConfiguration

If set to True, the APS Link protocol will send a CR (Carriage Return) after each frame.

Parameter	Description
Category	Optional
Unit	N/A
Type	Boolean
Range	[True, False]
Default	True
Special	The APS specification recommends to issue CR succeeding each frame in the PAD scenario, to provoke transmission of the frame. NOTE: For the Teleconverter product, the parameter should be set to false.

ReuseNetwork

Valid for APS network protocol only. If true, the underlying connection (APS link layer) will be kept if the application also asks to keep the connection.

Parameter	Description
Category	Optional
Unit	N/A
Type	Boolean
Range	[True, False]
Default	False

7.12 Physical layer parameters

Device

Defines the asynchronous device to which the modem is connected.

Parameter	Description
Category	Optional
Unit	N/A
Type	String
Range	Max. length = 40 characters

Default	None

BaudRate

Defines the modem speed in bits/s.

Parameter	**Description**
Category	Optional
Unit	Baud
Type	Integer
Range	[300, 600, 1200, 2400, 4800, 9600, 19200, 38400]
Default	2400
Special	If any value other than the range above is used, the default value will be used.

Parity

Defines the parity and word length to be used:

Parameter	**Description**
Parity	Word length
No parity	8-bit word length
Odd parity	7-bit word length
Even parity	7-bit word length

All values imply 1 start bit and 1 stop bit.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	String (Only the first character is significant)
Range	[(N)o parity, (O)dd parity, (E)ven parity]
Default	(N)o parity
Special	If any value other than the range above is used, the default value will be used.

FlowControl

Specifies the type of flow control for the communication device.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	String (Only the first character is significant)
Range	[(N)one, (H)ardware, (S)oftware, (B)oth]
Default	(B)oth
Special	If any value other than the range above is used, the default value will be used.

When running through PAD, we recommend that the user selects both hardware and software flow control.

When running directly to the MS via the telephone network, the user should select hardware flow control.

Connect<n>

The connect script files that are run to establish a connection. The script files must be numbered with increments of one (no missing numbers) and will be performed in number sequence (irrespective of the sequence in the configuration file).

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Script (file name)
Range	n: [1, 9]
Default	None
Special	Max. file name length depends on the operating system

Disconnect<n>

The disconnect script files that are run to release a connection. The script files must be numbered with increments of one (no missing numbers) and will be performed in number sequence (irrespective of the sequence in the configuration file).

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Script (file name)
Range	n: [1, 9]
Default	None
Special	Max. file name length depends on the operating system

DisconnectString<n>

Specifies a received string that should cause UA-FI to terminate, e.g. “CLR” from PAD or “NO CARRIER” from modem.

Parameter	Description
Category	Optional
Unit	N/A
Type	String
Range	n: [1, 5]
Default	None

Special	Max. file name length depends on the operating system

7.13 TCP/IP protocol parameters

MS_IPAddress

The IP address to the Message Store, given in standard IP format IP V4 (128.128.128.128) or IP V6 or the hostname. Used by the TCP/IP version of UA-FI.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	String
Range	Maximum 200 characters
Default	None

TCPPort

The TCP port number to the MS. Used by the TCP/IP versions of UA-FI.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Integer
Range	[0,65535]
Default	102

IPV4

Use this parameter to indicate whether or not IPV4 addresses can be used (UA-FI Version 5.0 or newer).

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Boolean
Range	[True, False]
Default	True : IP V4 addresses are allowed

IPV6

Use this parameter to indicate whether or not IPV6 addresses can be used (UA-FI Version 5.0 or newer).

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Boolean
Range	[True, False]
Default	True : IP V6 addresses are allowed

MS_IPAddress2

The alternate IP address or hostname of the Message Store (Windows UA-FI only)

Parameter	**Description**
Category	Optional

Unit	N/A
Type	String
Range	Maximum 200 characters
Default	None

TCPPort2

The alternate TCP port number to the MS associated with MS_IPAddress2..

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Integer
Range	[0,65535]
Default	102

AbortIfTimeoutDuringSending=TRUE

This parameter allows to abort the TCP/IP connection in case of timeout in response to send data request. By default there is no abort in that case. This parameter has to be set in case of duplicate data packet sent and corrupted message received.

Parameter	Description
Category	Optional
Unit	N/A
Type	Boolean
Range	[True, False]
Default	False (no abort in case of timeout)

7.14 ISDN/CAPI protocol parameters

These parameters are used by the ISDN version of UA-FI, which accesses the ISDN board via the CAPI 2.0 interface. The parameters are placed in the [ISDN] section of the configuration file.

ISDN_Number

The ISDN number to the service.

Parameter	Description
Category	Optional
Unit	N/A
Type	String
Range	Maximum 20 characters
Default	None

B2_Protocol

The CAPI B2 protocol to be used.

Parameter	Description
Category	Optional
Unit	N/A
Type	String
Range	[X75-SLP, TRANSPARENT]
Default	***

B3_Protocol

The CAPI B3 protocol to be used.

Parameter	Description
Category	Optional
Unit	N/A
Type	String
Range	[ISO-8208, T90, TRANSPARENT]
Default	***

ISDN_Connect_Timer

The time to wait for a B3ActiveConfirm after a B3Connect call is made to the CAPI module. On time-out, the connection is aborted.

Parameter	Description
Category	Optional
Unit	Seconds
Type	String

Range	[1,32767]
Default	10 seconds

7.15 Logging parameters

Log_Layers

This parameter is used for event logging within the protocol stack. If it set, errors, time-outs and events will be logged.

Layer	**Description**
9 -	communication main task
8 -	MS user (P7) protocol and UA-FI
7 -	as 8 plus ACSE/ROSE protocol
6 -	as 7 plus presentation protocol
5 -	as 6 plus session protocol
4 -	as 5 plus transport protocol
3 -	as 4 plus network protocol
2 -	as 3 plus link protocol
1 -	as 2 plus physical layer protocol (all layers)
0 -	all layers

All other numbers result in error logging only.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Integer
Range	[0,32767]
Default	100 (error logging only)

X25_Trace

Use this parameter to indicate whether or not tracing of all network level user data (in hexadecimal code) should be performed. The sent and received data are written to the log file.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Boolean
Range	[True, False]
Default	False (no tracing)

TraceCAPI

Use this parameter to indicate whether or not tracing of all CAPI level user data should be performed.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Boolean
Range	[True, False]
Default	False (no tracing)

APSlink_Info

Is used to perform detailed logging on the APS Link Layer.

Parameter	**Description**
Category	Optional
Unit	N/A

Type	Boolean
Range	[True, False]
Default	False (no APS Link logging)

LogFile

It represents the name of error message and logging information file.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	String (file name)
Range	Maximum length of file name depends on the operating system
Default	UA-FI.LOG

Append_Logfile

If the value is set to TRUE, UA-FI/DAP API will append the log for new connections to the existing log file. If FALSE, the log for a new connection will overwrite the log for previous connection(s). This might be useful for debugging communication problems.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	Boolean
Range	[True, False]
Default	False
Special	Note that if set to true, the file will increase for each new connection, until the disk is full. This parameter should therefore be used with care. This parameter is only available for MailmaX.400.

7.16 MailmaX.400 Logging Parameters

Those parameters are specifics for Mailmax.

The default setup of MailmaX is:

[Section]/Parameter	**Description**
[TRACE.TCPIP]	
Log_Layers=4	Level of logging for TCP/IP stack in case of Trace Activation
X25_Trace=False	Activate logging of network user data
TraceCAPI=False	Activate logging of CAPI user data
TraceData=False	Activate logging of all CAPI data packets
TraceAll=False	Activate logging of verbose information
[TRACE.ISDN]	
Log_Layers=4	Level of logging for ISDN stack in case of Trace Activation
X25_Trace=False	Activate logging of network user data
TraceCAPI=False	Activate logging of CAPI user data
TraceData=False	Activate logging of all CAPI data packets
TraceAll=False	Activate logging of verbose information
[TRACE.MODEM]	
Log_Layers=4	Level of logging for MODEM stack in case of Trace Activation
X25_Trace=False	Activate logging of network user data
TraceCAPI=False	Activate logging of CAPI user data

TraceData=False	Activate logging of all CAPI data packets
TraceAll=False	Activate logging of verbose information

[Section]/Parameter	**Description**
[Mailmax]	
HelpDesk	X.400 address of X400 support If this parameter is set the menu “Send Traces to Helpdesk” is enabled

[Section]/Parameter	**Description**
[Communication]	
TraceFileName	Name of the zip filename This file contains ua-fi.log, maxware.ini .prf file uafi.db (if exists)
TraceFileZip=False	Indicates if traces are Disable/Enable

[Section]/Parameter	**Description**
[User.<user name>]	
StrongAuthentication =0 | 1	Specified if the connection uses strong authentication or not 0 : Basic Authentication 1 : Strong authentication This parameter is specific for Mailmax

7.17 AXP protocol parameters

ConfigFileName

The name of the configuration file for the AXP module.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	String (file name)
Range	Maximum length of file name depends on the operating system
Default	“termsite”

Destinationsite

The parameter section in the configuration file (defined by the parameter “ConfigFileName”) to be used by the AXP module. Only used by the AXP version of UA-FI.

Parameter	**Description**
Category	Optional
Unit	N/A
Type	String
Range	Maximum length 100 characters
Default	“local”

AXP_ReadTimeout

Time-out for an AXP read call to be completed.

Parameter	**Description**

Category	Optional
Unit	Seconds
Type	Integer
Range	[1,32767]
Default	60

AXP_WriteTimeout

Time-out for an AXP write call to be completed.

Parameter	**Description**
Category	Optional
Unit	Seconds
Type	Integer
Range	[1,32767]
Default	60

7.18 Security

SecurityLevel

Specifies the security level of message.

Parameter	**Description**
Section	Communication and User.<User Name>
Unit	N/A
Type	Integer
Range	0 ; None 1 : Sign locally 2 : Secure content level
Default	0 (None)

7.19 Other parameters

Message_Language

Specifies the language to be used for presenting error and status messages. The file MAX<ISO country code>.MSG contains the messages for the selected language. The 2-letter ISO country code of the file name is specified in this parameter.

Examples:

- Message_Language = EN -- MAXEN.MSG
- Message_Language = FR --MAXFR.MSG

Parameter	**Description**
Category	Optional
Unit	N/A
Type	String
Range	2 characters
Default	EN

ServiceProfile

Specifies the name of the service profile to be used.

Parameter	**Description**
Unit	N/A

Type	String
Range	Operating system dependent
Default	File extension ".PRF”. No default file name.

TraceLevel

Set the level of trace for maxapi32.dll

Parameter	**Description**
Section	MaxApi
Unit	N/A
Type	Integer
Range	
Default	0

Placement

Defines the placement (coordinates) of the UA-FI communication window. Only used with MS Windows.

```
placement = F SC mx1 my1 Mx1 My1 x1 y1 x2 y2 Ux1 Uy1 Ux2 Uy2
```

F	=	Flag
SC	=	ShowCommand, indicates whether UA-FI should start as an icon, minimised or maximised. (1-normal, 3-maximised, 7-iconised)
mx1	=	Iconised-left x-coordinate
my1	=	Iconised top-left y-coordinate
Mx1	=	Iconised top-left x-coordinate
My1	=	Iconised top-left y-coordinate
x1	=	Normal top-left x-coordinate returned by Windows
y1	=	Normal top-left y-coordinate returned by Windows
x2	=	Normal bottom-right x-coordinate returned by Windows
y2	=	Normal bottom-right y-coordinate returned by Windows
U	=	UA-FI Normal. as x1, y1, x2 and y2. These are used by UA-FI for the localization of the window when Normal. This differs from x1y1, x2y2 because Windows sometimes returns erroneous values.

StackInactivityTimeout

Specifies the time of total inactivity in the stack before aborting the connection.

Parameter	**Description**
Category	Optional
Unit	Minutes
Type	Integer
Range	[0, 32767]
Default	0
Special	The value 0 means that no timer should be started

UAFI_Priority

Specifies the priority of the UA-FI process.

Parameter	**Description**
Category	Optional
Type	String
Range	Low, Below, Normal, Above, High
Default	Normal
Special	Only in UA-FI

8. MailmaX.400 in a local area network

MailmaX.400 for Windows can be configured to be used in a local area network. This chapter describes how to configure MailmaX.400 to run in a local area network:

- Server installation
- Address books
- Message store on a file server
- Spooler setup

8.1 Address Books

When MailmaX.400 is used in a local area network, it is convenient to have common address books for all the users in the network.

By creating a file named MMABMNT.INI containing definitions of common address books in the MailmaX directory, these address books will automatically be defined when creating a new MailmaX user.

The MMABMNT.INI must be created in the MailmaX server directory. When installing clients, this file will be copied in the MailmaX directory.

Example of MMABMNT.INI:

```
[AB0]
Name=Global
Path=..\AB\global.mab
Description=Global address book

[AB1]
Name=Local
Path=..\AB\local.mab
Description=Local address book
```

The path may be given either as a relative path or an absolute path including the drive letter.

Relative paths must start with “..\” or “.\”.

X.500 Address book

Organizations using the directory service (X.500) can use the X.500 Address book as the global address book.

X500AB.INI

You can tailor your X.500 Address book by editing X500AB.INI.

Important parameters are:

[Section]/Parameter	**Description**
[Address Book]	
EditAfterDrag=	If you enter 1, the dialog box “Properties..." is automatically opened for you to enter additional information when you drag an entry from the X.500 directory tree to your local address book.

ShowUnknown=	If you enter 0, entries of unknown object type will not be listed. If you enter 1, unknown entries are indicated by a symbol composed of 500 in red overwritten by a black X.
[Browse]	
email=(sequence of e-mail attributes)	If you want to display e-mail addresses in Internet format, you can reverse the order of address formats. The default order is: "textEncodedORaddress,mhsORaddresses,mail,rfc822Mailbox"
[Object Classes]	This section defines object classes to be treated as persons, organizations, etc. In addition you can change the object class title field by editing "infoTabTitle" and "descriptionTabTitle" in the corresponding class section. To remove attribute types for an object class, specify the attributes in the section "dontShow".
[Friendly Names]	In this section you can define user-friendly names for acronyms, for example country names to replace country acronyms.

***NOTE:** Back up your X500AB.INI before editing the file, and edit the file with care if you are unfamiliar with LDAP and X.500.*

Example of X500AB.INI:

This example shows the most important options for the X.400 address book that can be edited.

```
; This file contains the different options for the X.500 address book
[Address Book]
server=solo
port=389
dn=
password=
timelimit=20
sizelimit=60
EditAfterDrag=0
ShowUnknown=1
IsEnabled=1
UseWhenResolving=0
BindAnonymously=1

[Browse]
search=(objectClass=*)
email=textEncodedORaddress,mhsORaddresses,mail,rfc822Mailbox

[Known Servers]
size=8
1=Solo
4=tele

[Bookmarks]
size=100
1=o=maxdata;c=no
2=c=NO
3=X.500 root
```

4=

8.2 Message store on a file server

By default, the user's local message store is created in a sub-directory of the MailmaX.400 directory. The name of the sub-directory is the name of the user.

To move the local message store to a server, edit the file UPDATE.INI in the MailmaX server directory before the client installation of MailmaX.400.

The definition of the path to the local message store is found in the [MailmaX] section:

LmsPath=

Example:

LmsPath=K:\mailmax server\lms

8.3 Setup of the Mail Spooler

For more information about the Mail Spooler, see chapter **Installation of mailbox commands**, chapter **Mail Spooler use of maxware.ini** and chapter **Mailbox commands**.

The default setup of the Mail Spooler (from MaXware) is:

Section]/Parameter	**Description**
[Mail Spooler]	
ConnectAtStartup=0	No mailbox command is started when MailmaX.400 is started.
ConnectButton=1	Mailbox command 1 is started when the user presses the "Connect"-button - see [MailboxCommand_1] below.
ShowStatus=1	Shows the "Status" dialog after communication. Set to 0 to hide this dialog for the user-
BeepOnNewMail=0	No message when new mail arrives. Set to 1 to give a message. In the **Tools/Options/User** dialog you define when to get a message.
[MailboxCommand_1]	Mailbox command no. 1
Name=Send and fetch	The name of the mailbox command
Submit=1	Submit receipt notifications and all messages in Ready state
FetchList=4	Fetch all messages
FetchReports=1	Fetch reports and notifications
DeleteMessages=1	Delete all messages when fetched
DeleteReports=1	Delete reports when fetched
DeleteMarked=1	Delete messages marked for deletion
[SpoolerPoll_1]	Definition of the Mail Spooler polling commands
MailboxCommand=1	The mailbox command that should be invoked when this poll is due.
MsgPrior=0	Connect whenever there are a number of messages specified by the NumMsg parameter (see below) with priority 1/2/3 (none-urgent/normal/urgent) and status "Ready" in the LMS.
NumMsg=0	See MsgPrior (over)
PollingInterval=10	The time between two start-ups of this connect action (in seconds)

To update the Mail Spooler parameters before the client installation:

- Edit the file UPDATE.INI manually.

or

- See *chapter **Erreur ! Source du renvoi introuvable.***. Use the dialogs **Tools/Options/Connect Action** and **Tools/Options/Mailbox Commands** to update the file MAXWARE.INI.

9. Index

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