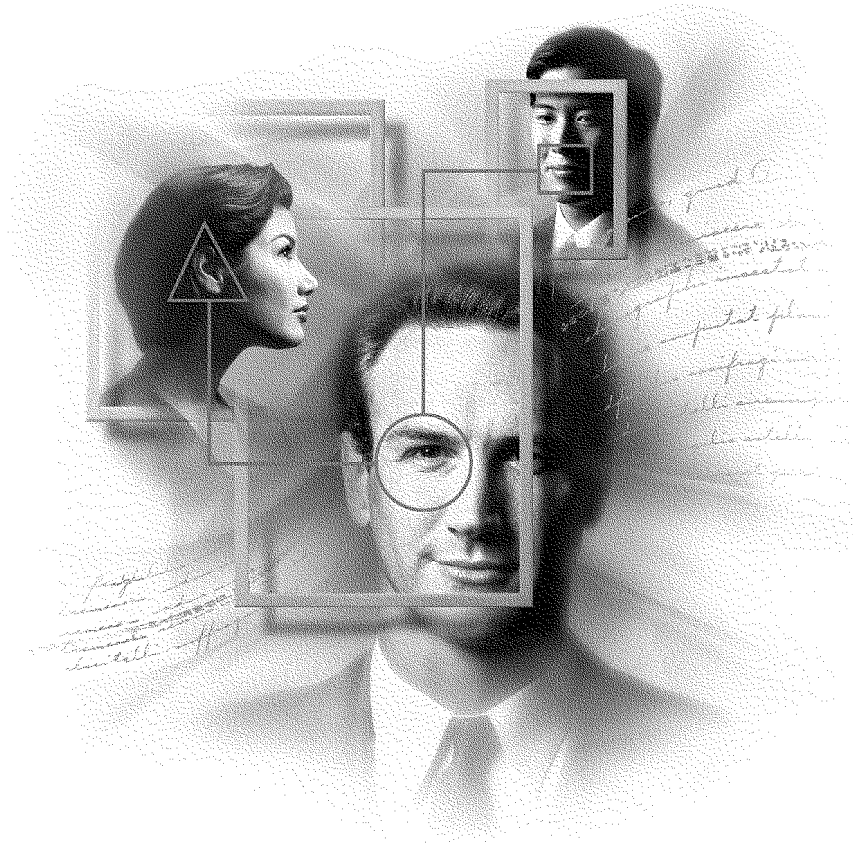


**GroupWise Archive**

**Migration Utility**

**for cc:Mail**



**GroupWise®**

**GATHER, ACCESS, AND COMMUNICATE INFORMATION**

**Novell®**

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# 1

## Understanding the Utility

The GroupWise® Archive Migration Utility for cc:Mail\* provides you the functionality to convert cc:Mail archives (\*.CCA) into a GroupWise 5.x archive. This includes the ability to select multiple cc:Mail archive files across systems on the network and migrate them to a GroupWise archive. Each cc:Mail archive file is converted to an archive folder in the GroupWise archive. See [“Relationship between cc:Mail Archive Folders and the GroupWise Archive”](#) on page 7.

Migrating messages to the GroupWise format preserves all message components, including attachments.

### Relationship between cc:Mail Archive Folders and the GroupWise Archive

In cc:Mail, there is a .CCA file associated with each archive folder. The messages that are archived in a folder are stored in the respective .CCA file. When these archive files (.CCA) are migrated to GroupWise, a subfolder using the name of the cc:Mail archive without the .CCA extension is created for each archive file. So, a .CCA file in cc:Mail is equivalent to a folder in the GroupWise.

**IMPORTANT:** If you already have a folder in GroupWise with the same name as of the cc:Mail archive, messages will be migrated into the existing folder.

### Features

The GroupWise Archive Migration Utility for cc:Mail lets you:

- ◆ Run the utility using a wizard or from the command line. See [“Migrating cc:Mail Archives to GroupWise” on page 14.](#)
- ◆ Migrate the archives of one user or several users at one time. See [“Migrating cc:Mail Archives to GroupWise” on page 14.](#)
- ◆ Use the wizard to migrate multiple archives in a directory hierarchy or across different directory hierarchies in one run. Multiple runs are required only when more than one GroupWise archive needs to be created.
- ◆ Obtain information about the migration depending on the log levels. In addition, summary, statistics and errors are logged for easy traceability. In the wizard mode, progress can be continuously monitored.

The migration utility

- ◆ Leaves the source archive file unchanged after the migration.
- ◆ Filters the messages to migrate based on your requirements.
- ◆ Can be distributed through Novell<sup>®</sup> Application Launcher<sup>™</sup> (NAL) after necessary organization-wide customizations that may be required for distribution. See [“Distributing the Utility” on page 29.](#)

The following table summarizes the features that are supported:

Features	Supported	Remarks
GroupWise Archive creation	Yes	If no archive exists at the destination, a new one will be created.
Multiple cc:Mail archives	Yes	Multiple .CCA files can be migrated to one GroupWise archive.
Message body migration	Yes	None.
Text attachment migration	Yes	None.
Binary attachment migration	Yes	None.
Rich text migration	No	None.



Features	Supported	Remarks
Distribution with Novell Application Launcher (NAL)	Yes	None.

## Limitations

The following are the limitations of the GroupWise Archive Migration Utility for cc:Mail:

- ♦ The utility will not migrate data in the address field data (recipient addresses) if it exceeds 4 KB. All the recipients will be ignored and the message will be migrated as a "posted message" (personal item).
- ♦ cc:Mail archives with the same name will be migrated to the same archive folder in GroupWise.
- ♦ Conversion of messages that use DOS code pages is not supported.
- ♦ The migrated message contains display names of recipients. In order to reply, recipients must be manually added from the GroupWise Address Book.



# 2

## Setting Up the Utility

This section provides information for setting up the GroupWise® Archive Migration Utility for ccMail\*. If you are the administrator, and want to use Novell® Application Launcher™ (NAL) to distribute the utility, see [“Distributing the Utility” on page 29](#).

### System Requirements

Your system must meet the following hardware and software requirements for the migration utility to function.

Hardware/SoftWare	Minimum Requirements	Recommended Requirements
Processor	486/33 MHz	Pentium* or higher
Hard disk	20 MB or more	20 MB or more
Operating system	Windows* 95, Windows 98, Windows NT* 4.0	Windows 95, Windows 98 or Windows NT 4.0 SP3 or later
Memory	32 MB	64 MB
GroupWise	5.x	5.5
(GroupWise Client is required only to view the migrated messages)		

### Installing the Utility

To install the GroupWise Archive Migration Utility,

**1** Run the self-extracting file SETUPCCAR.EXE.

The install wizard launches automatically. If the GroupWise Archive Migration Utility for cc:Mail is already installed, click Yes to reinstall.

**2** Click Next. The default installation directory is shown.

**3** Click Next to accept the default.

or

If this is not the directory where you want to install the utility, enter a name with a path > click Next.

If the directory you have entered does not exist, it will be created during installation.

**4** Click Install.

The status bar displays the progress of the installation.

**NOTE:** If the utility detects an older version of COMCTL32.DLL, you may be prompted to update to a later version. You can download this update from [Microsoft\\* support Web site \(http://support.microsoft.com/support/kb/articles/Q186/1/76.ASP\)](http://support.microsoft.com/support/kb/articles/Q186/1/76.ASP).

**NOTE:** Before launching the migration tool, you should plan the migration process. See [“Preparing for Migration” on page 13](#).

**5** Choose from the following options:

**View Readme:** Recommended. Select this option to view the Readme file included with the software.

**Launch Migration Utility:** Select this option to automatically launch the utility.

**6** Click Finish.

**7** Continue with [“Migrating Archives” on page 13](#).

After successful installation, an item named *ccMail Archive Migration* is added to the Windows Start > Programs menu.

If you need to uninstall the utility, see [“Uninstalling the Utility” on page 33](#).

# 3

## Migrating Archives

This chapter describes how to prepare to migrate cc:Mail\* archives to GroupWise® and gives details on how to use the migration wizard, how to use the command line to migrate archives of a single user, and how to use a batch file to migrate archives of several users at a time.

- ♦ [“Preparing for Migration” on page 13](#)
- ♦ [“Using the Migration Wizard” on page 14](#)
- ♦ [“Using the Command Line” on page 16](#)
- ♦ [“Using a Batch File” on page 17](#)

### Preparing for Migration

Before migrating your cc:Mail archive messages to GroupWise,

- ♦ Determine whether you want to migrate all your cc:Mail archive messages into one GroupWise archive folder or create more than one GroupWise archive. See [“Relationship between cc:Mail Archive Folders and the GroupWise Archive” on page 7](#).
- ♦ Ensure that you have enough disk space at the destination machine to hold the migrated GroupWise archive.
- ♦ Ensure that you know the GroupWise User ID, GroupWise password, the path to the mailbox or the TCP/IP address and port number of the mail server, and the path to the GroupWise archive directory. If the GroupWise archive directory does not exist it will be created during migration.

The following tips will help you plan the migration:

- ♦ If you are migrating all cc:Mail archives to a single GroupWise archive, you need to run the utility only once. The utility provides you the ability to migrate cc:Mail archives in directory hierarchies or even across drives.
- ♦ GroupWise has only one archive active at any time, so it may be advisable to migrate all cc:Mail archives to a single GroupWise archive.

## Migrating cc:Mail Archives to GroupWise

You can migrate cc:Mail archives to GroupWise using one of the following methods:

- ♦ Use the migration wizard to step you through the process (see [“Using the Migration Wizard” on page 14](#))
- ♦ Use the command line to migrate the archives for one user at a time (see [“Using the Command Line” on page 16](#))
- ♦ Use a batch file to migrate the archives for several users at a time ([“Using a Batch File” on page 17](#))

Before using any of the methods, make sure you have reviewed the items mentioned in [“Preparing for Migration” on page 13](#).

## Using the Migration Wizard

To migrate cc:Mail archives to GroupWise using the migration wizard,

- 1** Click Start > Programs > ccMail Archive Migration > Migrate > Next.

or

Locate MIGRATE.EXE from the directory where you have installed the utility > run MIGRATE.EXE > Next.

- 2** Select the files to migrate.

- 2a** Click Browse > select the cc:Mail archive directory.

Select the file types you want to migrate. If all cc:Mail archives have a .CCA extension, select \*.CCA from the list; otherwise, select \*.\*.

**2b** Select the Enumerate Subdirectories if you want to include files from subdirectories.

**2c** Click OK.

**2d** (Optional) Select the files you don't want to migrate and click Remove, or click Remove All if you want to make a fresh selection of archives.

You can browse multiple times to select files across the directories.

**3** (Optional) Click Advanced to refine the migration process.

**3a** Select the language of your cc:Mail system.

By default the machine's code page is used to determine the language to be used during the conversion

**3b** Select a log level.

**3c** Enter or select the date in Migrate Messages Created On or After. Messages created on or after the date specified will be migrated.

**3d** Click either Yes or No from the Drop Attachments list.

If you select Yes, messages will be migrated without the attachments.

**3e** Click OK > Next.

**4** Enter the GroupWise Details. You must specify either the mailbox path or specify its TCP/IP address and port.

**UserID:** The GroupWise user ID of the person whose cc:Mail archives are being migrated.

**Password:** The GroupWise password. Passwords are case-sensitive.

**Mailbox Path:** The path to your GroupWise post office. If you do not know the location, ask your system administrator.

**TCP/IP Address:** The TCP/IP address of the mail server. If you do not know the TCP/IP address, ask your system administrator.

**Port:** The port number. If you do not know the port number, ask your system administrator.

**Archive Path:** The path to the GroupWise archive directory. Make sure this is the directory where you want to migrate the cc:Mail archive files.

**5** Click Next > Start.

The status of migration is displayed in the progress bar.

**6** Click OK.

**7** Click a button to get the corresponding details.

**Summary:** Displays statistics of the current migration.

**Errors:** Displays details about the errors that were encountered during current migration.

**Log:** Displays the currently active log file, depending on the log level selected in [Step 3c on page 15](#).

**8** Click Finish.

The migrated files are in GroupWise format and can be read from GroupWise. To read the migrated messages, open GroupWise > click File > Open Archive.

**NOTE:** Ensure that you have set the GroupWise archive path to the directory where you migrated the cc:Mail archives.

## Using the Command Line

You can customize the startup configuration file in the installation directory to specify the startup switches with their values (see [Appendix A, “Startup Switches,” on page 19](#) and [Appendix B, “Configuration File,” on page 25](#)), in order to migrate archives of a single user.

If you are using the default configuration file, type the following command at the console prompt after you have specified the values for the startup switches:

```
Migrate @ccml.cfg
```

If you want to use a different configuration file (see [Appendix B, “Configuration File,” on page 25](#)), use the following syntax:

```
Migrate @<Configuration filename with path>
```



If you are not using the CCML.CFG file, you can type all the switches and their values as command line parameters, as in the following example:

```
Migrate /CCArchiveDir-c:\myarchives /UserID-HarrisJ /
Password-harris /POPath-g:\po /GWArchiveDir-c:\gwarchive
```

In the example, HarrisJ's cc:Mail archives present in the *C:\MYARCHIVES* directory are migrated to *C:\GWARCHIVE*.

During migration, the utility logs the information into the log files, which you can use to find the migration results. See [“Log Files” on page 18](#) for more information.

## Using a Batch File

You can use a batch file to migrate the archives of several users at a time. To do this, you create a configuration file (see [“Sample Configuration File” on page 26](#)) for each user and then run MIGRATE.EXE in batch mode.

### Example

Suppose you want to migrate archives of three users. Use the following procedure:

1. Create three configuration files USER1.CFG, USER2.CFG, USER3.CFG.
2. Create a batch file BATCHMIG.BAT as follows:

```
Migrate @USER1.CFG
Migrate @USER2.CFG
Migrate @USER3.CFG
```

If any of the configuration files are not in the same directory as MIGRATE.EXE, you need to give the full path of the configuration files.

3. At the command line, enter **BATCHMIG**

To view the result of migration and the errors encountered, examine the log file in *Installation directory*\LOG directory. See [“Log Files” on page 18](#).

# Log Files

The utility creates the log files in a subdirectory named LOG under the directory where you have installed the migration utility. The naming convention for the log file is *MMDDLOGxxx*, where *MMDD* is the month and day and *xxx* is the number (such as, 001, 002, etc.). The level of detail in the log file depends on the logging level you choose in [Step 3c on page 15](#). The logging levels are:

- ◆ Normal - Minimal logging
- ◆ Verbose - Progress information
- ◆ Diagnostic - Troubleshooting information

A log file is created for each run. When a log file's size reaches 128 KB, logging switches to a new log file. When the total disk space occupied by all the files exceeds 1 MB, the oldest log file is deleted. Log files older than seven days will be deleted automatically.

# A

## Startup Switches

Startup switches give you the capability to specify various commands and paths to various files that the migration utility reads or writes to, and to set other operational parameters. You can use these switches at the command line or within a startup batch file.

If you use startup switches on the command line, use the following syntax: / **<switch>-<parameter>** (see [“Configuration File” on page 25](#)).

The startup switches for GroupWise® Archive Migration Utility for cc:Mail are categorized into the following areas:

- ♦ [“cc:Mail Details” on page 19](#)
- ♦ [“GroupWise Details” on page 21](#)
- ♦ [“Message Filters” on page 23](#)
- ♦ [“Logging Level” on page 23](#)

### cc:Mail Details

Use the following switches to specify the cc:Mail details required for migration of cc:Mail archives.

## **/CCArchiveDir**

Specifies the path to the directory containing the cc:Mail archives to migrate. You can use this switch in conjunction with the **/MigrateSubDirs** switch to migrate a directory hierarchy containing cc:Mail archives.

**Syntax:** */CCArchiveDir-cc:Mail archive directory path*

**Short Syntax:** */CA-cc:Mail archive directory path*

**Example:** */CCArchiveDir-c:\myarchive*

## **/MigrateSubDirs**

Enumerates the subdirectories of the cc:Mail archive directory specified by the **/CCArchiveDir** switch. When this switch is enabled, all the specified archive files in the directory hierarchy will be migrated to GroupWise. By default, the subdirectory will not be enumerated.

**Syntax:** */MigrateSubDirs*

**Short Syntax:** */MS*

## **/CCArchiveExtn**

Enumerates only the files of the specified extension to migrate. You can use an asterisk (\*) to specify the files of any type. cc:Mail archives usually have the extension CCA, so only files with CCA extension are migrated to GroupWise if no extension is specified.

**Syntax:** */CCArchiveExtn-File extension*

**Short Syntax:** */CE-File extension*

**Example:** */CCArchiveExtn-"cca, bin" or /AE\**

## **/CCArchiveLang**

Specifies the language that should be used to interpret the cc:Mail archive. The GroupWise Archive Migration Utility uses the operating system language if no language is specified. See [Appendix D, “Language Codes,” on page 31](#) for a complete list of languages and codes used by the utility.

**Syntax:** */CCArchiveLang-Language code*

**Short Syntax:** */AL-Language code*

**Example:** */CCArchiveLang-ru (Migrates a Russian cc:Mail archive on a non-Russian machine)*

## **GroupWise Details**

Use the following switches to specify the GroupWise details required to perform the migration.

### **/UserID**

This is the GroupWise User ID of the person whose archives are being migrated from cc:Mail.

**Syntax:** */UserID-GroupWise UserID*

**Short Syntax:** */UI-GroupWise UserID*

**Example:** */UseriD-Harris*

### **/Password**

This is the password to access the GroupWise account. In GroupWise, a password is required to access the archive and is the same as the Mailbox password. Passwords are case-sensitive.

**Syntax:** */Password-GroupWise password*

**Short Syntax:** */PW-GroupWise password*

**Example:** */Password-asiatic*

## **/POPath**

This is the path to the GroupWise post office where the GroupWise user's Mailbox resides. Mapped drives or UNC paths can be used.

**Syntax:** */POPath-Path to the postoffice*

**Short Syntax:** */GP-Path to the postoffice*

**Example:** */POPath-g:\po*

## **/IPAddress**

This is the TCP/IP address and port of the GroupWise mail server. If you do not specify the port component, the default port 1677 will be used. If you have specified the path to the post office using **/POPath**, then this switch will be ignored.

**Syntax:** */IPAddress-IPAddress[:port number]*

**Short Syntax:** */IA-IPAddress[:port number]*

**Example:** */IPAddress-192.56.54.00:1677*

## **/GWArchiveDir**

This is the path to the destination GroupWise archive directory. The cc:Mail archives will be migrated to this location.

**Syntax:** */GWArchiveDir-GroupWise archive directory path*

**Short Syntax:** */GA-GroupWise archive directory path*

**Example:** */GWArchiveDir-c:\GroupWise\Archive*

# Message Filters

Use these switches to refine your migration.

## **/MigMsgAfter**

Migrates only those messages that are created on or after the specified date. Messages that do not meet this criterion will not be migrated. Specify the date as mm/dd/yyyy.

**Syntax:** */MigMsgAfter-mm/dd/yyyy*

**Short Syntax:** *MM-mm/dd/yyyy*

**Example:** */MigMsgAfter-07/15/1998*

## **/DropAttachments**

Drops the attachments in all messages during migration. Dropping attachments may speed up the migration process.

**Syntax:** */DropAttachments*

**Short Syntax:** */DA*

**Example:** */DropAttachments*

# Logging Level

Use this switch to specify the log level to be used for the migration process.

## **/LogLevel**

Specifies the level of logging that is required. The possible values are:

**None:** Only critical errors will be logged.

**Verbose:** Logging will contain details of progress, error and summary information.

**Diagnostic:** Logging contains all information logged in verbose mode and in addition provides detailed information required for troubleshooting.

**Syntax:** */LogLevel-None/Verbose/Diagnostic*

**Short Syntax:** */LL-None/Verbose/Diagnostic*

**Example:** */LogLevel-Verbose*



# B

## Configuration File

The configuration file, CCML.CFG, is an ASCII text file residing in the installation directory. The CCML.CFG file contains all the startup switches and is automatically read when the utility starts.

Keep the following guidelines in mind when modifying this file:

- ◆ Archive a copy of the file in case you need to return to the original switch settings.
- ◆ Use a text editor to edit the file.
- ◆ The comment character is the semicolon (;), which is used to disable a switch or to add comments. The utility ignores any line that begins with a comment character and any text after a comment character.
- ◆ Changes made to the configuration file do not take effect until you restart the utility.
- ◆ None of the switches or values are case-sensitive, except the **/Password** switch.
- ◆ You can use a dash (-) to separate the switch from the value.
- ◆ Switches in the configuration file and in the command line must begin with the switch delimiter / (forward slash).
- ◆ If data to be specified to a switch contains a space, enclose the data in double quotes ("").

# Sample Configuration File

```
; HARRIS.CFG
;
; Startup file for the GroupWise Archive Migration utility
; for cc:Mail
; -----
; CC:MAIL DETAILS
; -----
;
; This is a sample configuration file that migrates all cc:Mail
; archives in the directory hierarchy starting at
; c:\Mail\myarchive to the HarrisJ archive directory
; located in c:\gwarchive.
;
; This is the path to the directory containing the cc:Mail
; archives to migrate. You can use this switch in conjunction
; with the /MigrateSubDirs switch to migrate a directory
; hierarchy containing cc:Mail archives.
;
;/CCArchivePath-[cc:Mail Archive path]
/CCArchivePath-c:\Mail\myarchive

;(Optional) This switch specifies to the utility to
; enumerate sub-directories of the cc:Mail archive directory
; given by the /CCArchivepath. With this switch enabled, all
; specified archives files in the directory hierarchy will
; be migrated to GroupWise.
;
;/MigrateSubfolders
/MigrateSubfolders

;(Optional) This switch specifies to the utility to consider
; only files with the given extension to migrate. cc:Mail
; archives usually have the extension cca. By default, only
; files with the extension cca are migrated to GroupWise.
;
;/CCArchiveExtn-[extension without any delimiters]

;(Optional) This switch specifies the language that should be used
; to interpret the cc:Mail archive. The default is the language used
; by the operating system. Use this switch if you need to override
; this default.
;
;/CCArchiveLang-[Language code]
/CCArchiveLang-RU
```

```

; -----
; GROUPWISE DETAILS
; -----
;
; This is the GroupWise User ID of the person whose archives
; are being migrated from cc:Mail.
;
;/UserID-[GroupWise User ID]
/UserID-HarrisJ

; This is the password to access the GroupWise account. In
; GroupWise, passwords are required to access the archive and
; is the same as the mailbox password. Passwords are case-
; sensitive.
;
;/Password-[GroupWise password]
/Password-Harrispswd

; This is the path to the GroupWise post office where the
; GroupWise user's mailbox resides. Mapped drives or UNC
; paths can be used. If path is specified, then do not provide
; IP address and port number.
;
;/POPath-[Path to post office]
/POPath-g:\po

; This is the TCP/IP address of the GroupWise mail server.
; If you have specified the path to the post office, do
; not provide the TCP/IP address or the port number.
;
;/IPAddress-<IP address>[:port number]

; This is the path to the destination GroupWise archive
; directory. The cc:Mail archives will be migrated to this
; location.
;
;/GWArchivePath-[GroupWise Archive path]
;
/GWArchivePath-c:\gwarchive

; -----
; MESSAGE FILTERS
; -----
;
; (Optional) This switch specifies to the utility to migrate
; only those messages that were created on or after the
; specified date. Messages that do not meet this criterion

```

```
; will not be migrated and will be filtered out. The date is
; to be specified as mm/dd/yyyy.
;
;/MigMsgAfter-[mm/dd/yyyy]

;(Optional) This switch specifies to the utility to drop any attachments in all
;messages that are migrated. Dropping attachments, if they are not needed may
;speed up the migration process.
;/DropAttachments

;
; _____
; LOG DETAILS
; _____
;
;(Optional) This switch specifies to the utility the logging
;detail that is required. The possible values are
;
; None          - No logging, only critical errors maybe logged.
;
; Verbose       - Logging will contain details of progress, error
; and summary information.
;
; Diagnostic    - Logging contains all information logged in
; verbose mode and also provides detailed information
; required for troubleshooting.
; By default, the LogLevel is set to None.
;
;/LogLevel-[Value]
```

# C

## Distributing the Utility

This section may be of interest to the administrators who use Novell® Application Launcher™ (NAL) to distribute the applications to the end-users. (See the NAL [Web-based documentation \(www.novell.com/documentation/lg/zen2/docui/index.html\)](http://www.novell.com/documentation/lg/zen2/docui/index.html) for more information.)

**NOTE:** Ensure that the *AM\_CCML\_Uninstall* directory does not exist on the machine from previous installations before you start using NAL.

You can customize the startup configuration file, *CCML.CFG*, (see “[Configuration File](#)” on page 25) in the installation directory to define organization-wide criteria for migrating the archives.

The following switches (see “[Startup Switches](#)” on page 19), if they are enabled, will be used as the default when the user launches the migration wizard to migrate the archives.

- ◆ “[/CCArchiveLang](#)” on page 21
- ◆ “[/MigMsgAfter](#)” on page 23
- ◆ “[/DropAttachments](#)” on page 23
- ◆ “[/LogLevel](#)” on page 23

During subsequent runs, the value given by the user during the previous runs will be used. If the end-user runs the utility in the command line mode, the value specified in the command parameters will be used.



# D

## Language Codes

The table lists the valid languages and their codes. Contact your local Novell® sales office for information about language availability

Language	Code	Language	Code
Afrikaans	AF	German-Switzerland	SD
Arabic	AR	Greek	GR
Catalan	CA	Hebrew	HE
Chinese (Simplified)	CS	Hungarian	HU
Chinese (Traditional)	CT	Icelandic	IS
Croatian	HR	Italian	IT
Czechoslovakian	CZ	Japanese	JP
Danish	DK	Korean	KO
Dutch	NL	Norwegian	NO
English-Australia	OZ	Polish	PL
English-United Kingdom	UK	Portuguese-Brazil	BR
English-United States	US	Portuguese-Portugal	PO
Finnish	SU	Russian	RU
French-Canada	CF	Slovak	SL
French-France	FR	Spanish	ES

Language	Code	Language	Code
Galician	GA	Swedish	SV
German-Germany	DE	Turkish	TK



# E

## Uninstalling the Utility

Use the following procedure to uninstall the GroupWise® Archive Migration Utility for cc:Mail.

- 1 Click Start > Programs > ccMail Archive Migration > Uninstall.

All the utility directories and files, including the log files, will be removed from the system.



# F

## System Messages

### cc:Mail System Messages

#### Could not allocate memory. Skipping message...

Possible Cause: Memory has been exhausted because of many applications running on the machine.

Action: Close other applications and try again.

Possible Cause: The migration utility was unable to allocate more memory. This could be because a large part of memory was requested.

Action: Check to see if the basic requirements to run the utility have been met.

Possible Cause: There is corruption in the cc:Mail archive file.

Explanation: If only a single archive file produces this error, it may suggest some corruption in the file, so the utility requests memory beyond normal limits. This may occur while processing one message only and may not occur for others.

**NOTE:** You may see other system messages, which are self explanatory. Simply perform the action suggested in the message.

