MAXIMODEV JAVA LIBRARY

Version 1.1

1 INSTALLATION

1.1 DEPLOY CLASSES

Copy class files into *[SMPDIR]\maximo\applications\maximo\businessobjects\classes*

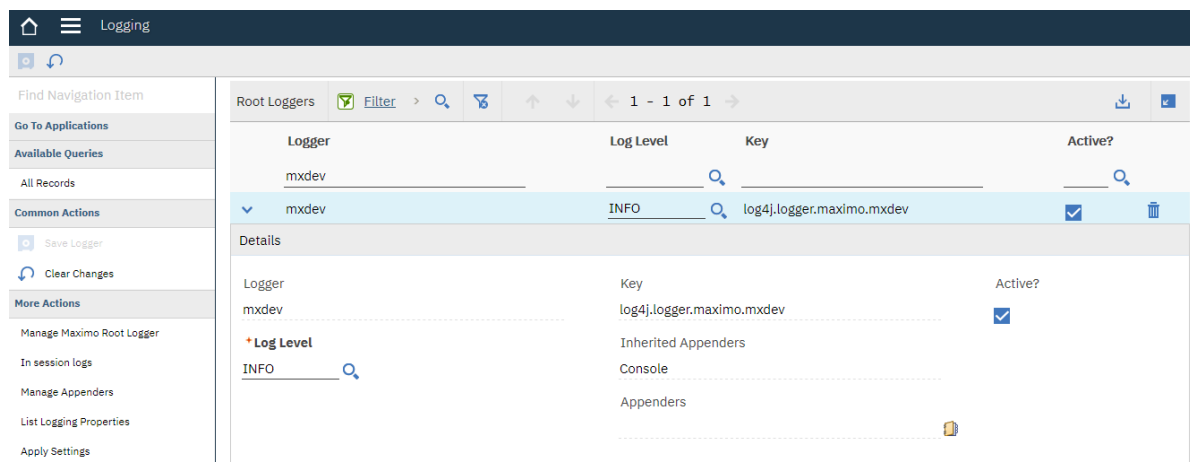Rebuild and redeploy *maximo.ear* file.

1.2 LOGGING

The cron task logs in 'maximo.mxdev' logger. If you need to debug your configuration you can configure the logger as follows.
Open the Logging application and create the following logger.
Logger: mxdev
Log Level: INFO
Key: log4j.logger.maximo.mxdev

2   FLATFILEPROCESS CRON TASK

The FlatFileProcess Cron Task allows to perform few basic manipulation of CSV files to adapt their format to a Maximo-compliant structure.

It allows to:

- Reorder columns
- Skip rows from source files
- Insert one or to two headers to generate MIF file headers and rename column names
- Extract parts of the fields
- Parse dates and convert them to the correct format accepted by MIF

2.1 CONFIGURATION

Go To > System Configuration > Platform Configuration > Cron Task Setup

Create a new Cron Task and set it up as follows:

- **Name**: FlatFileProcessCron
- **Description**: Transform CSV File
- **Class**: mxdev.iface.cron.FlatFileProcessCron

Create a cron task instance and configure parameters as follows.

- **INPUTDIR**: Directory where the files to be processed are located.
- **INPUTFILE**: Filter for files to be processed. For example setting it to '*.csv' will process all the files that have csv file extension in the input folder.
- **BACKUPDIR**: Files are moved in this folder once they are processed.
- **OUTPUTDIR**: Transformed files are stored here.
- **HEADER1**: Header row that will be written to the output files.
- **HEADER2**: A second (optional) row that will be written to the output files.
- **SOURCECOLUMNS**: Defines which columns from the source files are copied to the output files. Column numbers must be separated with commas. See below for details.
- **SKIPLINES**: Number of lines that are to be skipped from the input files.
- **TEXTQUALIFIER**: Character used to enclose text fields in input files.
- **DELIMITER**: Input files delimiter.
- **DATEFORMAT**: Allows to specify format of dates in the input file. Refer to the appendix for supported tags.
- **ESCAPEXML**: Converts XML predefined entities: &, ', <, >

The SOURCECOLUMNS parameter allows specifying the subset of columns to be transformed and their order. It also allows some processing. Let's see some examples.

- **2,8,4** : Copies columns 2, 8 and 4 of the source file to the output file.
- **2,[Test]** : Copies column 2 and then put a constant value 'Test'.
- **2,[CURRDATETIME]** : Copies column 2 and then put the current timestamp.
- **2,4.1-3** : Column 2 is copied as it is. Substring from character 1 to 3 of column 4 is copied.
- **2,4..DATE** : Column 2 is copied as it is. Column 4 is parsed as a date according to DATEFORMAT parameter.
- **2,4.13-24.DATE** : Column 2 is copied as it is. Substring from character 13 to 24 of column 4 is parsed as a date according to DATEFORMAT parameter.

2.2 DATE FORMATTING

Letter	Date or Time Component	Presentation	Examples
G	Era designator	Text	AD
y	Year	Year	1996; 96
M	Month in year	Month	July; Jul; 07
w	Week in year	Number	27
W	Week in month	Number	2
D	Day in year	Number	189
d	Day in month	Number	10
F	Day of week in month	Number	2
E	Day in week	Text	Tuesday; Tue
a	Am/pm marker	Text	PM
H	Hour in day (0-23)	Number	0
k	Hour in day (1-24)	Number	24
K	Hour in am/pm (0-11)	Number	0
h	Hour in am/pm (1-12)	Number	12
m	Minute in hour	Number	30
s	Second in minute	Number	55
S	Millisecond	Number	978
z	Time zone	General time zone	Pacific Standard Time; PST; GMT-08:00
Z	Time zone	RFC 822 time zone	-0800

Examples

Format	
"yyyy.MM.dd G 'at' HH:mm:ss z"	2001.07.04 AD at 12:08:56 PDT
"yyyyy.MMMMM.dd GGG hh:mm aaa"	02001.July.04 AD 12:08 PM
"EEE, d MMM yyyy HH:mm:ss Z"	Wed, 4 Jul 2001 12:08:56 -0700
"yyMMddHHmmssZ"	010704120856-0700
"yyyy-MM-dd'T'HH:mm:ss.SSSZ"	2001-07-04T12:08:56.235-0700
"yyyy-MM-dd'T'HH:mm:ss.SSSXXX"	2001-07-04T12:08:56.235-07:00
"YYYY-'W'ww-u"	2001-W27-3

3 EXTENDED COMMUNICATION TEMPLATE

3.1 CONFIGURATION

Java Handlers

COMMLOG.TEMPLATEID - mxdev.common.commlog.FldCommLogTmpltId

ESCCOMMLOG.TEMPLATEID - mxdev.common.commlog.FldCommLogTmpltId

3.1.1 System properties

Go to System Configuration > System Properties and create the following entries

Property name	Description	Global value	Default value
mxdev.commtmpl.texttable.tag	Prefix for text table	%TEXTTABLE%	%TEXTTABLE%
mxdev.commtmpl.htmltable.tag	Prefix for HTML table	%HTMLTABLE%	%HTMLTABLE%
mxdev.commtmpl.htmltable.tbstyle	HTML style for TABLE		
mxdev.commtmpl.htmltable.thstyle	HTML style for TH		
mxdev.commtmpl.htmltable.tdstyle	HTML style for TD		
mxdev.commtmpl.htmltable.trstyle	HTML style for TR		

Select Live Refresh to load current values.

4 HOW TO

The Extended Communication Template allows to embed tables in emails generated by Maximo communication templates. These tables can be populated using simple relationship from the main object.

Child tables can be included in the communication template body using the following format:

- Starting tag – can be %HTMLTABLE% or %TEXTTABLE% depending if you want a well formatted table or a plain text one.
- Separator – is a ':' character
- Relationship name – is the name of the relationship to the child object
- Field list – a list on attribute names (of the child object) separated by a '.' Character.

For example, if you want to send an email that contains the information of a Work Order and you want to include the Work Log table you can set this text in the message

%HTMLTABLE%:UXWORKLOG.DESCRIPTION.CREATEBY.CREATEDATE.DESCRIPTION_LONGDESCRIPTION