

# **Eden Server Preprocessors**

Version 4.0 Level U

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## Overview

There are four preprocessors supplied with Eden Server, one each for:

- BMS assembler macros
- COBOL CICS source code
- Eden Server File IO configurations
- Eden Server User Plugins

All three of the preprocessors are supplied as DLLs and work as integrated preprocessors with version 3.0 and higher Net Express COBOL Compilers.

Sample .bat files are supplied that may be tailored to your particular installation for use with BMS and CICS code. The samples are supplied in the \EdenServer\Samples directory.

The File IO and Eden Server User Plugin preprocessors are not intended for command line use. Instead, the EManager utility manages all aspects calling and managing these preprocessors and their interaction with the compiler and linker.

## BMS Macro Preprocessor

Note: As of Version 3.00 The EScreen screen editor may now be used to invoke the BMS preprocessor. See the EScreen reference for more information.

For compatibility and to maintain the ability to mass-compile large numbers of BMS maps without user-intervention, the command line interface for compiling BMS macro's and Eden Screen files is maintained and is described as follows:

The Eden Server BMS preprocessor, BMSPREP.DLL accepts standard BMS assembler macro statements as input, see the [BMS Macro Support Reference](#) for further complete information on BMS support levels.

Located in the samples\screen directory under the Eden Server root directory is the MAKE1DLLE.BAT file, before using the file, however, it must be edited to reflect the particulars of your installation.

Perform the following steps prior to use:

Copy the MAKE1DLLE.BAT file to the directory where you installed your applications' BMS Macros.

Edit the newly created file with a text editor such as Notepad and make the following changes:

Change the SET statements for the following variables as indicated:

Variable	Value
EDENDIR	Drive and path where Eden Server is installed
BMSPATH	Drive and path where your BMS macros reside
PGMEXT	Extension of the BMS source code, i.e., BMS or MAP
OBJPATH	Drive and path to contain resulting DLL's

Once changed the file may be used from a DOS command line to create DLL's from the BMS source code with the following command line:

MAKE1DLLE *macroname*

Substitute the file name of the BMS source for macroname. NOTE: if filename extension, the command line must qualify the name by including a period at the end of the filename.

No changes are made to any source code.



## COBOL CICS Preprocessor

The Eden Server CICS preprocessor, RMSPNE.DLL accepts COBOL source code that includes EXEC CICS statements, see the [CICS API Support Reference](#) for further complete information on the support levels provided for individual CICS API's.

Located in the samples\online directory under the Eden Server root directory is the MAKE1DLL.BAT file, before using the file, however, it must be edited to reflect the particulars of your installation.

Perform the following steps prior to use:

- Copy this .bat file to the directory containing your COBOL CICS source.
- Edit the SET statements in the .bat file that appear directly below the initial comment box as follows:

Environment Variable	Required Setting
EDENDIR	Must be set to the fully qualified location of the Eden Server Install directory; C:\EdenServer
EXT	The extension of the source file name, i.e., .CBL or .COB
CPYBK	The fully qualified location(s) of the copybooks to be used during compilation. Separate different directory names with a semi-colon, i.e., "c:\test\copy;c:\prod\copy"
COPYEXT	Up to three extensions to be used when searching for a copybook, i.e., (CPY,COP,,). Use two commas together the represent no extension.

- Determine the dialect of COBOL your source will require the compiler to activate. If your source is at or above VSC2, you must use, in addition to any other directives, an Eden CICS Preprocessor directive of VSC(2). An example of this is shown in the EDENVSC2.DIR directives file which is in the .\samples\online directory under your Eden Server install directory.

Note that the second sample directives file, EDENOSVS.DIR does not include this preprocessor directive. The VSC(2) preprocessor directive causes the preprocessor to bypass generating explicit definitions of the reserved words TALLY, CURRENT-DATE and TIME-OF-DAY. This directive is also passed along to the compiler.

Make a copy of one of the two sample directives files in the same directory as your COBOL CICS source code. Note that you may edit the directives prior to the PREPROCESSOR LINE as required by your individual applications, these directives are passed through the pre-processor to the compiler without being changed. Only the pre-processor VSC(2) directives affects the pre-processor directly.

To compile from the command line, enter the following command at a DOS prompt:

```
MAKE1DLL cobol-prog-name
```

Substitute the file name of the COBOL source for *cobol-prog-name*.

No changes are made to any source code.

The pre-processor supports CICS code that includes BLL cells.

To compile from within a Net Express project simply click the compile button or menu option. When setting up Net Express projects for .dll's, make sure that when defining the build settings you specify the Multi-Threaded runtime with dynamic linking. No other special link options should be required.