

ETI•Accelerator for COBOL/MQSeries

Release Notes

Revision 4.2.1A

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1 PREREQUISITES

The ETI•Accelerator for COBOL/MQSeries 4.2.1 is now available to all Evolutionary Technology International® (ETI™) customers. The ETI•Accelerator for COBOL/MQSeries uses a simple and consistent application programming interface to facilitate the transfer of program data across a network of components—processors, operating systems, subsystems, and communication protocols.

With the ETI•Accelerator for COBOL/MQSeries, you can access MQSeries as a data source and target, which enables ETI•EXTRACT® to completely use MQSeries for data movement, or to communicate with other application programs working with a given event (in terms of a transaction taking place, with its data placed in a message queue).

For details about installing and using the product, refer to Chapter 24, “Using the ETI•Accelerator for MQSeries” in the *ETI Data System Library DA: Procedures* manual.

This Accelerator requires the following products to be at the indicated release number *or later*:

- **ETI•EXTRACT® Tool Suite Release 4.2.2** or **ETI Solution® Version 5.0.0**. Required to ensure that the DSL will generate the expected code.
- **Shared Objects 4.2.2**. This component will be loaded automatically during the installation of the DSL when you select the option to auto-load the prerequisites.
- **TCL Functions 4.2.1**. This component will be loaded automatically during the installation of the DSL when you select the option to auto-load the prerequisites.
- **COBOL Intermediate Actions 4.2.1**. Required for supporting enhanced merge processing. This component will be loaded automatically during the installation of the DSL when you select the option to auto-load the prerequisites.
- **DSL for COBOL/FS DA 4.2.1**. Required if accessing MQSeries queues as a data source or target and/or MQSeries queues as an ifile transfer mechanism.
- **DSL for COBOL/DB2 DA 4.2.1**. Required only for using MQSeries queues as ifiles.

2 DSL INSTALLATION

This release of the ETI•Accelerator for COBOL/MQSeries addresses installation and configuration issues by removing the manual template library attachment process altogether and replacing it with one of the following automated processes, depending on which release of ETI software you are using:

- Auto-Attachment option — requires ETI Solution Version 5.0.0 or later
- Consultant Package option — requires ETI•EXTRACT® Tool Suite Release 4.2.2 or later

See section 2.3 of this document for using the Auto-Attachment option or section 2.4 for using the Consultant Package option.

Note The Auto-Attachment option is compatible only with ETI Solution Version 5.0.0 or later, while the Consulting Package option makes available a similar level of automation to prior releases of ETI•EXTRACT.

2.1 If You Do Not Have the DSL for COBOL/FS DA 4.2.1 Installed

In this case, MQSeries will automatically install the DSL for COBOL/FS DA 4.2.1 first, then itself; finally it will try to use the Auto-Attachment option, as described in section 2.3 of this document. Please skip to section 2.3 for details.

If the DSL for COBOL/FS DA 4.2.1 is already installed, please continue to section 2.2 of this document.

2.2 If You Already Have the DSL for COBOL/FS DA 4.2.1 Installed

This release of the ETI•Accelerator for COBOL/MQSeries introduces an easier form of installation, which not only loads the necessary support code for COBOL/MQSeries but also handles the configuration and attachment of the template libraries to all of the affected Template Definitions in the DSLs. This new feature eliminates the manual steps outlined in the section “Installing the COBOL/MQSeries Libraries” in Chapter 24 of the *ETI Data System Library DA: Procedures* manual. Section 2.3 outlines the details of the Auto-Attachment option.

Use the ETI Administration Tool to load the ETI•Accelerator for COBOL/MQSeries 4.2.1 and follow the steps in section 2.3 below.

2.3 Using the Auto-Attachment Option

1. If the ETI software release supports auto-attachment of libraries (ETI Solution Version 5.0.0 or later) and the DSL or Accelerator (such as COBOL/MQSeries) contains an attachment file (attach.cobolmq_da) in the *pkgdef* directory of the MetaStore™, the installation script will attach the Template Libraries in the attachment file provided the Template Definitions can be checked out to the ETI-Install workset.
2. If auto-attachment is not supported (ETI•EXTRACT release 4.2.2 and prior releases) the following message is displayed:

```
This Extract release does not support Library attachment files.  
The Template Libraries will have to be manually attached.
```

If this message appears, use the Consultant Package installation described in section 2.4.

3. If a Template Definition check-out to the *ETI-Install* workset fails, the following message is displayed for each Template Definition that cannot be checked out:

```
Check out of Template Definition name to System/ETI-Install failed.
```

The Template Libraries will not be attached to the Template Definitions listed by this message.

4. If the DSL successfully loaded but was unable to attach all of the Template Libraries (that is, some Template Definitions could not be checked out to *ETI-Install* workset), the attachment can be retried after correcting the problem by the following method:
 - a. Attempt to reload the COBOL/MQSeries Accelerator product.

- b. Answer **no** when prompted with:

```
The same version of the product dsl name is already loaded in MetaStore path.  
Do you want to reload the product?
```

- c. Answer **yes** when prompted with:

```
There is a Template Library attachment file for the product dsl name.  
Do you want to reload the attachment file?
```

2.4 Using the Consultant Package Option

This package is intended to replace the manual steps for attaching COBOL/MQSeries Template Libraries to COBOL/FS DA 4.2.x Template Definitions, as outlined in the section “Installing the COBOL/MQSeries Libraries” in Chapter 24 of the *ETI Data System Library DA: Procedures* manual and/or the *ETI•Accelerator for COBOL/MQSeries Release Notes 4.2.0*. As a result, the installation outlined here *replaces* all other ETI•Accelerator for COBOL/MQSeries 4.2.x installation instructions.

The Consulting Package name is **CP_cobolmqs_420_Install** and should work with the ETI•Accelerator for COBOL/MQSeries version 4.2.0 and later. If it is not already shipped with the Accelerator, it is available by request from the Answerline.

Note The DSLs for COBOL/DB2 4.2.x DA are not included in this package.

There are a total of 23 Template Definitions that require COBOL/MQSeries Template Library attachments. The manual approach can be a tedious and error-prone activity that is eliminated with the installation of this package. Template Definitions that are affected are as follows:

DSL for COBOL/FS DA Template Definitions:

- cobolfs_cbl_qry_da
- cobolfs_cbl_pop_da

DSL for COBOL/FS DA Shell and Batch Template Definitions:

- cobolfs_sh_pop_cmp_da
- cobolfs_sh_pop_exe_da
- cobolfs_sh_pop_std_da
- cobolfs_sh_qry_cmp_da
- cobolfs_sh_qry_exe_da
- cobolfs_sh_qry_std_da
- cobolfs_bat_pop_cmp_da
- cobolfs_bat_pop_exe_da
- cobolfs_bat_pop_std_da
- cobolfs_bat_qry_cmp_da
- cobolfs_bat_qry_exe_da
- cobolfs_bat_qry_std_da

DSL for COBOL/FS DA JCL and Jobstream Template Definitions:

- jcl_pop_cmp_da
- jcl_pop_exe_da
- jcl_pop_std_da
- jcl_qry_cmp_da
- jcl_qry_exe_da
- jcl_qry_std_da
- js_cmp_da
- js_exe_da
- js_std_da

Simply load the ETI•Accelerator for COBOL/MQSeries product into the MetaStore via the Administration Tool, then import this package into the ETI-Install workset. For details on how to import a package, refer to Chapter 12 of the *User's Guide*. Be sure you have edit permission on all the Template Definitions listed above before importing the package.

If there is any conflict with custom code (custom Template Libraries attached to these Template Definitions), you must perform additional corrective adjustments after the package installation to synchronize your customizations with the newly imported Template Definitions, as they will not be attached automatically.

3 IMPORTANT NOTICES

3.1 Auto-Attachment

The Auto-Attachment option for Template Libraries is only compatible with ETI Solution Version 5.0.0 and later. Prior versions of ETI•EXTRACT should use the Consulting Package option to attach the Template Libraries to Template Definitions. If for some reason the Auto-Attachment and Consulting Package options cannot be used, follow the manual procedure for attaching the libraries, as described in the *ETI Data System Library DA: Procedures* manual. Also see section 3.2 of this document.

3.2 Documentation Addendum

The *ETI Data System Library DA: Documentation Addendum* contains documentation errata and updates since the release of the *ETI Data System Library DA: Procedures* and *ETI Data System Library DA: Reference* manuals. You should review the addendum for this information.

Table 24-6 “Names of Template Objects for the COBOL/MQSeries Libraries” on page 24-26 of the *ETI Data System Library DA: Procedures* manual has incorrect information in rows 5 and 6. Refer to section 1.2.4 of the *ETI Data System Library DA: Documentation Addendum* for the corrected information.

4 RELEASE 4.2.1

4.1 Purpose

The primary purpose of this release is to simplify the installation process by eliminating the manual procedures required to attach template libraries to template definitions. Also some errors found in Release 4.2.0 have been corrected. A complete list of CRs (software problems) fixed in this release can be provided by the AnswerLine upon request.

4.2 Limitations

Limitations for the ETI•Accelerator for COBOL/MQSeries 4.2.1 are the same as those for the ETI•Accelerator for COBOL/MQSeries 4.2.0, with the exception of the `das_filename` property limitation, which has been removed, so that it is no longer a requirement to set the `das_filename` property to a dummy value in order to generate conversion code. For details on the limitations refer to section 5.2.

5 RELEASE 4.2.0

5.1 Purpose

This Accelerator now supports single-step conversion processing as defined by the DSL for COBOL/FS 4.2.0 release. Also some errors found in previous releases have been corrected. A complete list of CRs (software problems) fixed in this release can be provided by the AnswerLine upon request.

5.2 Limitations

- The ETI•Accelerator for COBOL/MQSeries 4.2.0 is compatible with messages placed onto a queue from the ETI•Accelerator for COBOL/MQSeries 4.1.1, however there are a few features under 4.2.0 that 4.1.1 cannot take advantage of (for example, message persistence and format). When mixing 4.1.1 and 4.2.0 ETI•Accelerators for COBOL/MQSeries, be careful to choose a configuration of the most common denominators in terms of feature sets, or upgrade the 4.1.1 releases to the ETI•Accelerator for COBOL/MQSeries 4.2.0.

- Continuously-Running MQSeries applications require three properties to be set in order to generate proper code.

Refer to the section “Continuously-Running Applications” in Chapter 24, “Using the ETI•Accelerator for MQSeries” of the *ETI Data System Library DA: Procedures* manual for details.

- There is a known issue regarding the `das_filename` property while using MQSeries queues as a source or target. If the property is not set on the source or target database in the Conversion Editor, then the Program Generator issues a warning message that it is not set.

Even though the source or target database has been identified as a queue, this property must be set to some value. Any dummy value will work if the source or target database is actually a queue. This property is not used for the queues.

If the conversion is intended to switch between flat-files and queues (for testing purposes for example), the actual value used for flat-file processing should be used anyway, so this type of conversion will be unaffected.