

ETI SolutionTM Release Notes

Regarding ETI Solution 5.2.0, June 2004

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1 PLATFORM SUPPORT

ETI Solution™ Version 5, incorporating ETI's patented Dialogue Coach™ technology, release 5.2.0 is now available to all ETI Solution customers. Evolutionary Technologies International® (ETI™) recommends that existing customers upgrade to this new release as soon as possible to facilitate development and implementation of conversions.

1.1 Supported Platforms

The Solaris 2.9, AIX 5.2, and Windows 2003 Server operating systems are now supported with the ETI Solution 5.1.1 and 5.2 releases.

For a complete list of supported platforms for ETI Solution 5.2, please refer to your *ETI Solution Administration Guide, Appendix C*.

1.2 Required Operating System Patches

At the time these release notes were written, operating system patches were required for most supported platforms. For the most current list of required operating system patches, see the **Hardware Specs** section on the ETI AnswerLink™ website:

<http://www.eti.com/answerlink>

Then select the **Current Operating System Patches** option under the **ETI Solution** section.

2 PRODUCT INTER-OPERABILITY

2.1 Using Multiple ETI Solution Releases

You can install and run ETI Solution 5.2 on the same system that has ETI Solution Release 5.0 and 5.1 installed. ETI Solution 5.2 is also compatible with ETI•EXTRACT 4.2. Patches are required for some prior releases in order to run with ETI Solution 5.2.

2.2 ETI Data System Libraries

You can use any supported ETI Data System Library (DSL) or ETI Starter Kit with ETI Solution 5.2. The following DSL components are *required* for use with ETI Solution:

- The DSL for Shared Objects release 4.3 (or later) is required.
- The DSL Component for the Executive 4.3 (or later) is required.
(Auto-loaded by the DSL for Shared Objects release 4.3 and later.)
- The DSL for Tcl Functions 4.3 (or later) is required.
- DSL upgrade packages for ETI Solution Version 5 (required)

2.3 Updated Programs for Loading DSLs

ETI Solution 5.2 requires updated releases of the programs used to load DSLs:

- load_dsl.tcl revision 1.37 or later
- install_dsl.236 or later

2.4 Requesting Patches, Upgrade Packages, and IM Packages

Available product patches, DSL upgrade packages, and Interim Maintenance (IM) packages are automatically shipped with your DSL distribution CD.

To download or get a listing of currently available patches, upgrades, or IM packages, select the **Software Downloads** option on the AnswerLink site:

<http://www.eti.com/answerlink>

To request shipment of patches, upgrades or IM Packages on CD or via email, you can contact the AnswerLine or select the **Product Order Form** online at:

<http://www.eti.com/answerlink/request>

3 Installation

3.1 Quick Install Guide

To install ETI Solution, follow the installation instructions included in the file named “Quick_Install_Guide_520A.html” located on your ETI Solution distribution CD. To run the *Quick Install Guide*, you must use one of the following:

- Internet Explorer version 6.0 or later
- Netscape 7.x or later
- A Web Browser that supports the Mozilla 5.0 engine

3.2 Default Windows Installation Locations

With ETI Solution 5.2 the default install locations have changed. The ETI Solution executables and MetaStore Area can be installed in separate locations on Windows systems. By default the executables are installed into the Program Files directory. By default the MetaStore installation area is c:\eti\solution. For customers with existing ETI installations, the MetaStore Area defaults to the same location as prior installs (i.e. c:\eti\extract).

3.3 Default Share Names for MetaStore Area

With ETI Solution, the default share name for the MetaStore Area is eti-solution. For customers with existing ETI installations, the installation program will default the share name to the existing share name where possible.

4 Upgrading From Prior Releases

4.1 Pre-Installation Operations

This section describes the operations that you must complete prior to installing ETI Solution 5.2. These instructions apply to customers upgrading from a prior ETI Solution or ETI•EXTRACT release. These instructions do *not* apply to new customer installations.

4.1.1 Upgrading to FLEXlm Version 8.3c

With the ETI Solution 5.0.3 release, ETI upgraded the FLEXlm License Manager software in support of the newer UNIX operating systems. ETI Solution Version 5 requires FLEXlm License Manager (lmgrd) version 8.3c or later in order to operate correctly.

By default, the ETI Solution MetaStore Server is also the FLEXlm server. The instructions for installing the software assume that you are running the FLEXlm server on the same machine as the MetaStore Server. If your server is running multiple ETI Solution releases, then you should stop the License Manager prior to upgrading your system.

On Windows MetaStore Servers, the installation of FLEXlm version 8.3 is automatic. If you are starting the License Manager on bootup using a Windows service, then you need to make sure that it is set up to run the 8.3c version of the License Manager (lmgrd) for all releases.

On UNIX MetaStore Servers, you must manually install the FLEXlm software. See the instructions provided in the *Quick Install Guide*.

4.1.2 Running FLEXlm as a Service Prior to Installing 5.2

In order to correctly install ETI Solution 5.2 on a Windows system that has a prior release of ETI Solution or ETI•EXTRACT installed, you must set up existing FLEXlm License Managers to run as a service. This restriction only applies to Windows Standalone configurations and MetaStore Servers.

4.1.3 Uninstalling the Process Server

The ETI Solution software ships a release independent Process Server which must be used on systems which run multiple ETI Solution releases. In order to install the ETI Solution 5.2 Process Server, all prior versions must be removed from the system. It is necessary to uninstall the ETI Solution 5.1 or 5.0 Process Server prior to installing ETI Solution 5.2 or later. It is **not** necessary to uninstall any other ETI Solution or ETI•EXTRACT components prior to installing ETI Solution 5.2.

4.1.4 Stopping the MetaStores Prior to Upgrading

In order for ETI Solution to install correctly, it is necessary to have all clients shut down their ETI•EXTRACT® and ETI Solution applications and then have the ETI Solution Administrator manually stop all the MetaStores prior to upgrading the software.

With the ETI Solution 5.2 release, ETI is distributing a new Versant release. Installation of the 5.2 software will make updates to the Versant software that is shared between all V5 releases. In order to correctly install the 5.2 software, you must stop all database activity for all V5 releases prior to installing the software.

4.1.5 Resolving Problems When IIS is Installed After .NET Framework

If you install Internet Information Service (IIS) after installing the ETI Solution software on the Application Server or if you manually install .NET Framework prior to installing IIS, the Integration Client and Administration Client will fail to communicate with the Application Server. Specifically, you will receive a 405 error. To correct this problem, manually register the IIS Server with .NET Framework, open an ETI Command Window on the Application Server and type the following:

```
%windir%\Microsoft.NET\Framework\v1.1.4322\aspnet_regiis -i
```

4.1.6 Required patches

4.1.6.1 ETI Solution 5.1 & 5.2

In order to *migrate* from ETI Solution 5.1.0 to 5.2 you *must* install ETI Solution 5.1.0 patch 02 or later. For example, you have ETI Solution 5.1.0 and 5.2 installed on separate servers and you are migrating to the new release on a new server.

No patches are required to *migrate* from ETI Solution 5.1.1 to ETI Solution 5.2.

4.1.6.2 ETI Solution 5.0 & 5.2

In order to run both ETI Solution 5.0.3 and 5.2.0 on the same server you must install 5.0.3 patch 02. Contact the AnswerLine for assistance in installing patch components to allow users to run both 5.2.0 and 5.0.0-5.0.2 on the same Windows server or Standalone system.

4.1.6.3 ETI•EXTRACT 4.2 & 5.2

ETI•EXTRACT 4.2.2 and prior are obsolete. It is possible to run both ETI Solution and ETI•EXTRACT on the same system to facilitate migration to the new release. However, a manual change is required to the ETI•EXTRACT environment to allow both releases to be installed and used on the same system. See section 4.4.4, “Running 4.2 & 5.2 on the Same Windows System” for detailed information and instructions.

4.2 Upgrading from Release 5.1

4.2.1 MetaStore Migration

If you are upgrading to ETI Solution 5.2, you must migrate your MetaStore. Please see the “Moving and Migrating MetaStores” chapter in the *ETI Solution Administration Guide*.

In order to **migrate** from ETI Solution 5.1.0 to 5.2, you *must* install ETI Solution 5.1.0 patch 02 or later.

4.2.2 Conversion Compiler

The Conversion Compiler is backwards compatible with optimization levels 0-4. It is not necessary to regenerate or revalidate any existing conversions when upgrading to release 5.2.

4.3 Upgrading From Release 5.0

4.3.1 MetaStore Migration

If you are upgrading to ETI Solution 5.2, you must migrate your MetaStore(s). Please see the “Moving and Migrating MetaStores” chapter in the *ETI Solution Administration Guide*.

4.3.2 Generator (Conversion Compiler)

The Generator is backwards compatible with optimization levels 0-4. It is not necessary to regenerate or revalidate any existing conversions when upgrading to release 5.2.

4.3.3 Migrating Your Preferences File (Optional)

With the 5.0.2 release, the location where the user-specific preferences are stored is changed. If you are upgrading from a release prior to 5.0.2, you will lose your user-specific preferences. If you are upgrading from release 5.0.2 to 5.0.3 or later, your preferences are maintained. To migrate your preference file, copy the Preferences.xml file located in:

C:\Documents and Settings*user*\Application Data\Evolutionary Technologies International, Inc\ETI Solution(tm) Version 5

to the directory:

C:\Documents and Settings*user*\Application Data\Evolutionary Technologies International, Inc\ETI Solution Version 5

4.3.4 Changing the JAVA symbolic link on AIX MetaStore Servers

With the 5.1.0 release, ETI changed the name of the symbolic link to the JAVA installation. This change was made to facilitate running both ETI Solution 5.0, 5.1, and ETI•EXTRACT 4.2.x on the same system. The instructions for ETI Solution 5.0.0 and 5.0.1 specified the link name as simply **jdk**. Make sure that your symbolic link is set up as **jdk1.3** for use with the ETI Solution 5.1.0 release. If you have an existing ETI Solution 5.0 release, you should modify the link as part of the upgrade process. See the *Quick Install Guide* for detailed instructions on creating the symbolic link for AIX MetaStore Servers.

4.4 Upgrading From 4.2 Releases

4.4.1 MetaStore Migration

If you are upgrading to ETI Solution 5.2, you must migrate your MetaStore(s). Please see the “Moving and Migrating MetaStores” chapter in the *ETI Solution Administration Guide*.

4.4.2 Generator (Conversion Compiler)

The Generator is backwards compatible with optimization levels 0-4. It is not necessary to regenerate or revalidate any existing conversions when upgrading to release 5.1.

4.4.3 Additional Source Units

With the 5.1 and later releases, additional source units are no longer identified using the property **additional_source_units** on the target unit. The information is now specified via the Integration Specialist Client interface and is stored internally as a data structure. During the migration process or import/export process, any properties will automatically be converted to the internal data structure format. You can no longer specify additional source units via the older Integration Architect interface with releases 5.1 or later. If you set the property manually, it will be ignored by the conversion compiler.

4.4.4 Running 4.2 & 5.2 on the Same Windows System

It is possible to run both ETI•EXTRACT release 4.2 and ETI Solution 5.2 on the same system. However, some post-installation changes will be required to insure that your ETI•EXTRACT 4.2 environment can be used.

With the 5.2 release the default location for the Versant software has changed. Once ETI Solution 5.2 is installed the environment variables and registry entries are adjusted to reference the new location. In order to run ETI•EXTRACT 4.2 and ETI Solution 5.2 on the same Windows system, you must adjust the `VERSANT_ROOT` environment variable prior to running 4.2 applications.

- Modify the `ex_env.bat` script located in the ETI•EXTRACT bin directory (e.g. `C:\eti\extract\rel42\bin`).
- Add a line to set the `VERSANT_ROOT` environment variable.
- You should set the value to the fully-qualified pathname for the `dbsw` directory in the ETI•EXTRACT install area (e.g. `C:\eti\extract\dbsw`).

For example, if ETI•EXTRACT is installed in `c:\eti\extract`, modify the file by inserting the line indicated in bold text:

```
@echo off
ex_envm -ia -v:4.2 -c:"%1 %2 %3 %4 %5 %6 %7 %8 %9"
set VERSANT_ROOT=c:\ETI\extract\dbsw
ex_envb.bat
```

In order to run the ETI•EXTRACT Browser or Administration tool, you will need to do the following

- Open the ETI Command Window.
- Make sure that the `VERSANT_ROOT` environment variable is set correctly.
- Invoke the tools manually. You can start the Browser or Administration tools by entering `ex_browser` or `ex_gadmin` respectively.

4.4.5 Export File Format

The export file format for Conversion objects has been modified with the ETI Solution 5.0 release. This was done in support of new features and functions in the 5.x release. Therefore, it is not possible to export conversions developed with ETI Solution 5.x and import them into an older release of ETI•EXTRACT automatically.

4.5 Upgrading from ETI•EXTRACT 4.1 and prior

4.5.1 Running 4.1 & 5.2 on the same Windows system

It is *not* possible to run both ETI•EXTRACT 4.1 and ETI Solution 5.2 on the same Windows system. If you are migrating from ETI•EXTRACT 4.1 or prior, you must migrate your MetaStore(s) prior to installing ETI Solution 5.2 or later.

4.5.2 Licensing for DSLs, DSL add-on products, and Custom DSLs

With the ETI•EXTRACT 4.2 release, all DSLs, DSL add-on products, and custom DSLs are licensed. The licensing is controlled by a `FEATURE` line in the `FLEXlm` license file. Customers upgrading to ETI Solution Version 5 from releases **4.1 and prior** must ensure that they have an updated license file which supports DSL licensing. The updated license file is backward compatible with prior ETI releases.

Therefore, the license file can be installed for use with both ETI Solution and any prior release of ETI•EXTRACT.

5 DSL Upgrade Packages Required for ETI Solution

For most DSLs, a minor change to the retrieve schema scripts is required in order to run the retrieve schema process from the Integration Client. The required changes are provided as a DSL upgrade package.

5.1 Installing and Loading DSL Upgrade Packages

The following instructions and information are provided for installing and loading DSL upgrade packages:

- Install the DSL upgrade package into the DSL-Install directory on the MetaStore Server.
- Load the DSL upgrade package into each ETI Solution MetaStore (new or migrated). You load upgrade packages using the **Load DSL Updates** command in the ETI Administration Client.
- The **Load DSL Updates** command automatically identifies any patches (DA 4.2.0 or later), IMs or upgrade packages which need to be applied to your MetaStore.
- When initially loading DSLs into a MetaStore, the **Load DSLs** command automatically detects available patches and upgrade packages for any DSL and automatically loads them.

5.2 Compatibility with ETI•EXTRACT

DSL upgrade packages are fully backward compatible and therefore you can load them into any MetaStore created under any ETI•EXTRACT release. However, the upgrade package is *only required* for ETI Solution 5.0 or later.

The V4 Administration Tool provides the option to autoload upgrade packages into existing MetaStores. Although upgrade packages are not required for ETI•EXTRACT 4.x MetaStores, ETI recommends that you autoload patches and upgrades for any DSL identified.

6 Changes in ETI Solution 5.2.0

6.1 ETI Solution Feature Summary

The *ETI Solution Feature Summary* for 5.2 provides a detailed description of new features and functionality provided in the 5.2 release.

6.2 ETI Solution Documentation

6.2.1 Online Documentation

With release 5.2, all documentation is consolidated into the **doc** directory in the MetaStore Installation directory (e.g. c:\eti\solution\doc). Additionally, the latest software for loading DSLs installs all DSL documentation into the shared MetaStore **doc** directory. With prior releases, DSL documentation was installed into each MetaStore.

6.2.2 ETI Solution and ETI•EXTRACT

ETI is in the process of changing the product name from ETI•EXTRACT to ETI Solution. Some of the documentation has not been updated to reflect the new name.

6.2.3 Adobe Acrobat Reader

Adobe Acrobat Reader is not shipped with ETI Solution. If you do not have the latest version of Adobe Acrobat Reader, you can download it from the Adobe website, <http://www.adobe.com/>. Locate the link for downloading Acrobat Reader on the Adobe website. (At the time of publication of this document, a “Get Adobe Reader” icon is located on the Adobe home page.) Select the version for your platform, and include the option for searching PDF files.

6.3 ETI Impact Analyst Executive Components

The ETI Impact Analyst Executive scripts are distributed as part of the DSL for Shared Objects 4.3. It is no longer required to load a separate DSL Component in order to get the ETI Impact Analyst Executive components loaded into a MetaStore. For releases prior to the DSL for Shared Objects 4.3, the Executive scripts used in conjunction with ETI Impact Analyst are in a separate DSL component called **impact_analyst** release 5.0. The component is no longer required.

ETI recommends using a RDBMS client for updating the Impact Analyst Meta Data Warehouse rather than using the Executive interface with release 5.2. Therefore, the Impact Analyst Executive scripts are provided for backward compatibility and will be obsolete with the 5.3 release of ETI Solution.

6.4 Executive DSL Components

The Executive scripts are now distributed as a separate DSL component product that is automatically loaded into MetaStores in conjunction with the DSL for Shared Objects 4.3. This change facilitates releasing and distributing patch fixes for the Executive.

6.5 Accessing the V4 Browser and V4 Administration Tool

The V4 Browser and V4 Administration Tool are not installed on the ETI start menu. In order to use the V4 Browser or V4 Administration Tool, open an ETI Command Window and manually enter the executable names, **ex_browser** and **ex_gadmin** respectively.

Both the V4 Browser and V4 Administration Client will be obsolete with the ETI Solution 5.3 release.

6.6 DSL Load Warning Messages

When loading DSLs into a new MetaStore, the DSL for Shared Objects is automatically loaded. During this load process you may see warning messages like the following:

```
*** Warning: Could not set optional relationship for [Host]unixhost
*** Warning: Could not set optional relationship for [Host]nthost
*** Warning: Set value error at Keyword CONNECTION_HOST_NAME.
The object had no relationship with the Host. The Connection will be ignored.
*** Warning: Set value error at Keyword CONNECTION_HOST_NAME.
The object had no relationship with the Host. The Connection will be ignored.
```

```
*** Warning: Could not set optional relationship for [Host]nthost
*** Warning: Set value error at Keyword CONNECTION_HOST_NAME.
The object had no relationship with the Host. The Connection will be ignored.
```

These warning messages are generated during the initial setup of default host connections. The warnings do not cause problems and can be ignored.

6.7 Bug Fixes & Minor Enhancements

6.7.1 Browser

- Import and Export commands run in quiet mode such that only errors and warnings are written to the output tab. The import dialog provides a verbose output option.
- Addition of new parts and units during Conversion import, with synchronization turned on, is now reported.
- MetaStore path, for a secondary MetaStore Server, is correctly passed to the V4 editors such as the Grammar editor, Environment editor etc.

6.7.2 Code Block Work Area

- Renaming a Code Block function now allows use of the underscore character.

6.7.3 Command Line Utilities

- Renamed `ex_replayFilters` to `ex_replayBr`
 - The utility `ex_replayFilters` has been renamed `ex_replayBr` to be consistent with the V5 terminology.
 - `Ex_replayBr` supports use of wildcard characters in Conversion names and the ability to run in non-interactive mode.

6.7.4 Conversion Compiler

- The property `disable_nway_merges` can be set on other objects in the scoping hierarchy to impact a larger number of Conversions. You can set it on the Conversion and on Database, Schema, Installation, DAS or Global Data objects to affect a larger number of Conversions.
- In a Conversion, a source and target Database can have the same name, provided each has a unique key.
- The default limit for nested `iters` increased from 42 to 250.
- `ancestor_common_key_parts`
A new context variable array. A list of GENKEYS used to match a child ifile record to its parent ifile record. The list of parts (genkeys) are those key parts that are common in the parent and child ifile records.

This context variable is used by hierarchical DASs (DA 4.3.1 or later) in the populate instruction to process the target hierarchy. It lists the common keys that are to be used to determine if the current child ifile record matches the current ifile record. When the child common ifile keys are greater than the parent common ifile keys, the child ifile is at end-of-set. When the child common ifile keys are less than the parent common ifile keys, the child ifile record is an orphan.

- The `ifile_hier_units` array no longer includes unexpected ifile information.

The change is applicable to the query program. However, regeneration is not required for this change. Any customer that encountered the bug would have been unable to compile the generated query program.

Context variable array: This array contains the hierarchy of units which contribute to this ifile. When you iterate over this array, you have access to the context variables listed in the *ETI Solution Reference Manual*, Table 6-42.

When iterating over ifiles, you can iterate over the ifile_hier_units. These units are all the units in the source hierarchy of units mapped to the target unit (ifile) whether or not the unit itself has mappings to the target unit.

The ifile information is still available. The ifile information belonging to the source unit does not override the original ifile information.

6.7.5 Conversion Work Area

- An hour glass cursor is displayed for long operations such as creating Virtual Units and saving a Conversion.
- Business Rules
 - An erroneous Business Rule indicator is no longer displayed for parts that have both default values and properties specified.
- Merge Wizard
 - The Merge Wizard dialog for specifying Merge Duplicates now allows the Integration Specialist to select “Keep and Warn” on both sides of the join.
- Generation
 - Selecting a range of instructions for generation, allows the range to be entered from lowest to highest number.
 - The generation output tab allows you to stop generation after closing and reopening the Output Area.
- Detail Area
 - The Detail Area displays information about min and max repeat count, repeating and redefines properties. Additionally, unique icons are used to visually identify repeating units in the table and graph areas.
 - The Detail Area updates after removing Databases from the Conversion.
- Conversion Report
 - An option to exclude the Business Rule translation from the report is provided.

6.7.6 Output Area

- The Output Area tabs now include a mnemonic in the tab name to identify the associated operation. The following mnemonics are used:
 - RBR – Replay Business Rules
 - IMP - Import
 - EXP - Export
 - RS - Retrieve Schema
 - GEN - Generation

- RPT - Conversion Report
- SYC - Sync conversion
- PKG - Package Conversion

6.7.7 Schema Work Area

- The Schema is marked as changed when root unit markers are set or cleared.
- You can clear the root unit marker for Virtual Units.
- The **Select by criteria** command now allows case sensitive selection criteria.

6.7.8 Retrieve Schema

- The retrieve schema dialog will remember the prior input files when re-retrieving a schema.

7 Limitations

7.1 Release 5.2.0

7.1.1 Standalone Configuration

The Administration Client uses UNC pathnames for accessing configuration information on the local machine. When using a system without a network card installed, you must install the loopback adaptor in order to have access to the local disk drive via UNC pathnames.

7.1.2 Code Block Work Area

7.1.2.1 Paste from Word documents

Do not copy and paste text from a Word document into the Code Block Work Area, as this will corrupt the Code Block.

7.1.3 Template Work Area

- Insert File is not supported in this release.
- Find Matching Double Quote is not supported in this release.