

Software through Pictures®

Millennium Edition (Windows) 8.3

Release Notes

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Aonix

Software through Pictures

Release Notes

Millennium Edition (Windows), Release 8.3

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Product Description

This set of release notes supplements the documentation for Software through Pictures (StP) products. The information in the release notes pertains to the StP Millennium Edition, StP ME, Release 8.3 for Windows platforms only, unless otherwise noted.

A *Features Supplement* and “quick tour” documents for UML and SE are being provided with this release. See these documents, as well as the release notes, to learn about functionality in this release.

Product Summary

The Millennium Edition of StP provides a greatly improved and intuitive user interface that reduces substantially the learning curve associated with developing comprehensive, powerful, and flexible modeling solutions. With StP, you can quickly and efficiently translate your requirements into designs and transform these designs into high quality solutions.

StP comprises the following product elements:

- StP/UML
 - UML (Unified Modeling Language) graphical tools
 - Document generation
 - Reverse engineering for C++, Ada 95, Java, and IDL
 - ACD (Architecture Component Development), providing code generation for C++, Ada 95, Java, and EJB. (Unsupported code generation is also available for C, COM, Corba, Visual Basic, and TOOL.¹)
- StP/SE
 - SE (Structured Environment) graphical tools
 - Document generation
 - Code generation for C
 - Reverse engineering for C

1. See your local sales representative for more information.

- Third party integrations
 - DOORS integration. Requires installation of DOORS from Telelogic.
 - Other integrations that are new since 2.6.x: SNiFF+, Continuous, ObjectAda, ClearCase, Netscape, and Visual Studio. Refer to “Integration/Navigation Features” on page 19 for more information on some of these integrations.

In addition, StP provides access to the Lifecycle Desktop customizations (DO-178B and IEEE-12207) and to Validator/Req. Please contact your local sales representative for details.

For those customers who have previously used StP/OMT, StP/Booch, and StP/OMT-Booch blend, and have created models in these tools, there is a utility for converting models created in these StP tools to StP/UML. Please contact your local sales representative for details.

Another utility exists that can be used to convert UML models created in Rational Rose into StP/UML. Please contact your local sales representative for details.

Documentation

This section lists the documents provided with StP ME. The document set is a combination of existing StP documents and new or upgraded documents prepared specifically for this release. Except where noted, the documents are available in printable and online form.

The online documents are accessed by selecting **Help > Online Manuals**. The same documents are also delivered in a form that makes them more easily printable. These documents are available in PDF format, in

`<StP_inst_dir>\documentation\Printable_Documentation`

To print a document, go to the *Printable_Documentation* directory and double click on one of the files. The file will open in Adobe Acrobat reader (Acrobat can be installed from the product CD). Then print as usual.

Printed, bound versions of StP documents may be purchased separately from Aonix. Please contact your local sales representative for details.

Documents delivered with this release are listed below. The categories of documents listed below (e.g., “Recent and Relevant”) reflect the categories in the online document “catalog,”
<StP>\documentation\ONLINE\LIST.pdf.

Recent and Relevant

- Features Supplement (updated for 8.3)
- Release Notes (updated for 8.3)
- Installing StP for Windows Platforms (updated for 8.3)
- ACD Programming Guide (renamed and updated for 8.3)
- Using ACD Templates (new in 8.3)
- Migrating to StP 8 (updated for 8.3)

User Guides

- A Quick Tour of StP/UML (updated for 8.3)
- A Quick Tour of StP/SE (updated for 8.3)
- Quick Reference (UML)
- Quick Reference (SE)
- Fundamentals of StP
- Creating UML Models
- Creating SE Models
- Generating and Reengineering Code (UML)

The online list of manuals includes a master index of the user guide set.

Reference Information:

- StP Administration Guide
- Query and Reporting System (QRS)
- Object Management System (OMS)
- StP Guide to Sybase Repositories
- StP DOORS Integration Guide (updated for 8.3). Note that this document replaces the “StP/DOORS Integration” chapter in the *StP Administration* manual in the StP document set.

The online list of manuals includes a master index of the reference information set.

Product Description

Note that StP functionality and user interfaces are virtually the same for both UNIX and Windows. Major platform-specific differences are addressed throughout this set of release notes.

Note: In the current StP document set, the terms “Windows” or “Windows platforms” refer to the Windows platforms supported in StP 8.3 (see the table below).

System Requirements

StP system requirements are summarized in the table below.

Processor speed	Minimum: 266 MHz (400 for XP) Recommended: 400 MHz
Operating system	<ul style="list-style-type: none">♦ Windows 2000: Service Pack 2 recommended♦ Windows XP (supported on client side only)♦ Windows NT4 Service Pack 6a
RAM	Minimum: 64 MB (128 for XP) Recommended: 128 MB
Free disk space	Minimum: 100 MB Recommended: 650 MB
Repository	<ul style="list-style-type: none">♦ MS Jet 4.0 SP 3 and MDAC 2.6 SP1 (provided on the StP CD)♦ Sybase (optionally installed and configured with StP install):<ul style="list-style-type: none">♦ Open Client 12.0♦ Adaptive Server Enterprise (ASE) 12.0
Migration	All systems must be migrated to 8.3 Systems earlier than 2.6 must be migrated to 2.6 and then 8.3
Other	<ul style="list-style-type: none">♦ CD-ROM drive♦ TCP/IP protocol installed♦ Internet Explorer 4.01 SP 2 or greater♦ Adobe Acrobat Reader (5.0 is provided on the StP CD)♦ FLEXlm 8.1 (automatically installed with StP)

Features

StP has a number of features that make it the tool of choice for developing applications. For example, it:

- Provides an integrated system requirements environment with integration to DOORS and other requirements tools.
- Fully supports UML 1.3.
- Also supports Structured Engineering (SE). Both methods can be used in the same model, if desired.
- Is scalable, for up to hundreds of users.
- Offers a viable configuration management solution through its open architecture.
- Provides a template-based code generation capability that allows you to produce applications from high level UML models according to the OMG's Model Driven Architecture (MDA) approach.

The latter feature is called Architecture Component Development - ACD. With ACD:

- The model is implementation independent.
- You can generate multiple programming languages, such as C++, Java, etc., from the same UML model.
- You can customize ACD templates to generate applications for any real-time operating system, programming language, or target architecture. Unsupported examples for C, COM, Corba, and VisualBasic are provided as well.

ACD and other StP features are discussed in detail below.

Features and Enhancements Provided in 8.3

StP 8.3 has a number of features and enhancements that have been added to StP since the previous release (8.2). Features include ACD updates (page 12), updates to tools and menus (page 13), updates to printing capabilities (page 14), and other enhancements (page 15).

ACD

ACD (Architecture Component Development) allows automatic transformation of UML models into source code that is tailored to your needs and the target architecture.

Refer to the *ACD Programming Guide* for detailed information on the ACD approach; refer to the paragraphs below for information on specific 8.3 enhancements.

ACD Code Generation

- You can now generate code for individual model elements such as a single class, package, or diagram. This “selective extraction” allows code for a small piece of a large model to be generated quickly.
For example, to generate code for all classes in a diagram, right click on the diagram name in the Class panel and choose **Generate <language> for Diagram’s Classes by ACD Template**.
- The performance of ACD code generation has improved significantly - in some situations, by a factor of 15 -20, depending on the size of the model.
- Problems with indentation handling and formatting in TDL noted in prior versions of StP have been fixed.

ACD Metamodel

- Access to StP requirements is now provided in the ACD metamodel. This enhancement adds two new classes to the ACD metamodel that allow access to requirements stored in StP. Navigation is provided from a metamodel element to requirements that are linked to it in StP via a requirement assignment. (Navigation is not provided from the requirement to its linked model element, however.)
- The ACD metamodel now supports association of objects and attributes through “value of attribute” nodes. Having these nodes in the metamodel allows initialization of objects and their contained attributes.

ACD Templates

ACD templates have been substantially enhanced in this release.

- The Java templates have been totally redesigned and reimplemented.
- The C++ and Ada templates have major fixes and updates.
- A new document, *Using ACD Templates*, is now available as part of the StP document set. It describes the use of Java, C++, and Ada 95 templates.

Note: EJB is documented separately, in file *GenEJB_user_guide.pdf*, in the `<StP>/templates/uml/qrl/code_gen/ejb` directory.

- A new template special character, the caret ('^'), has been introduced to represent a newline character in ACD templates. It acts as a newline only when it is the last character on the line. For more information, refer to the “Writing ACD Templates” chapter of the *ACD Programming Guide*.

Tool and Menu Enhancements

New ToolInfo Editor Tool

You can now edit ToolInfo variables from the StP desktop instead of editing the ToolInfo file directly. This new feature is available by choosing **Tools > Edit ToolInfo Variables**. For details of use, refer to the “Usability and Modeling Enhancements” chapter of the *Features Supplement*.

New System-Comparison Tool

You can now compare two versions of the same StP system. The result of this comparison is a report that lists the differences between the two systems. Examples of changes reported are new symbols and diagrams, global renames of symbols and diagrams, annotation/description changes, etc. For details of use, refer to the “Baselining and Version Control” chapter of the *Features Supplement*.

SE Table Editor Changes

SE table editors have been updated in 8.3 to include the changes listed below. (Note that these changes do not apply to the SE requirements table editor.)

- A new (blank) CSE table is initialized with only one Control In and Control Out column.
- Columns can now be removed.
- Column headings (Control In, Control Out, etc.) can no longer be edited.

Improved “Freeze/Start Editor” Function

In an StP editor, you can now start multiple sessions of the editor by choosing **File > Open in New Window**. Doing this freezes the current editor window and opens a new editor session. Setting an editor to a frozen state tells StP to open a new editor window of that type every time you open a file from the desktop or navigate to that editor type from another editor. This feature is discussed in the “Usability and Modeling Enhancements” chapter of the *Features Supplement*.

List-Repository Command

A new command, **List Repository for User**, has been added to the desktop’s **Repository > Manage Users** command. The command lists all Sybase repositories belonging to the specified user.

The command can also be called from QRL:

```
repos_list_reps_of_user("<server>", "<user>", True|False)
```

<server> is the name of the Sybase server; <user> is the user’s name, and False specifies no display of names.

Printing

Many diagram- and report-printing problems have been fixed in this release. Some of the more significant are noted below.

- In HTML reports, you can now suppress display marks in printed output. To suppress non-default display marks, edit the new `e_suppress_display_marks_in_Diagrams` external in the script manager.
- The thickness of lines in printed diagrams is now scalable in the diagram editors. Use **File > Page Setup** to change the **Line Width** value on the **Contents** tab.
- JPEG printing and hyperlinks on diagrams in HTML reports have improved significantly.

Refer to the “Usability and Modeling Enhancements” chapter of the *Features Supplement* for detailed information on publishing and printing improvements in StP 8.1 and beyond.

Other Enhancements

In addition to the features noted above, StP 8.3 has a number of other enhancements.

Rose-to-StP Bridge

This tool has been updated for bug fixes and to support 2000 and 2001 editions of Rose.

Note: The Rose-to-StP bridge has not been made part of the STP ME product for 8.3, but is available separately from Aonix. Please contact your local sales representative for details.

Display Mark and Symbol Changes

- Split/merge decision symbols have been implemented for state and activity diagrams. The symbols, bars with multiple transition arrows, are specified in UML 1.4.
- A new display mark, Description, is available for most symbols in UML diagram editors. If a symbol has a description, the display mark (a text icon) appears on demand at the lower right of the symbol.

- A new display mark, `StateActivity`, has been added to the activity editor. The mark shows the entry action and activity as defined in the associated state table.

Class Tables from Sequence Diagrams

Class tables can now be created directly from sequence and collaboration diagrams.

If you use **Goto > Class Table Where Class Is Referenced** and the class table is not found, you can now create the class table. Any incoming messages, including type and arguments are created as operations of the new class. This operation corresponds to the class table editor's command **UML > Construct Class from All Definitions > Local Operations Only**.

QRL Updates

Three new QRL functions for repository names have been added in this release.

- `get_rep_name(<"<projdir>" , "<system>")`: Returns the repository name of a system. (The repository name can be different from the system name if it includes characters that cannot be used for Sybase.)
- `get_rep_server("<projdir>" , "<system>")`: Returns the server name of a system (name of the Sybase server or MS Jet).
- `get_rep_type("<projdir>" , "<system>")`: Returns the repository type of a system (Sybase or MS Jet).

All three functions return the respective values found in `<projdir>/<system>/repinfo`, or an empty string if `<projdir>/<system>/repinfo` does not exist.

A “display” parameter (evaluating to `True|False`) has been added to the list of existing QRL repository functions shown below. If the parameter is omitted, it defaults to `True` in order to maintain backward compatibility). `False` means no display.

- `repos_list_reps("Sybase|MS Jet", "<server>", True|False):` Gets all repositories for either Sybase or MS Jet (param 1), on a specific Sybase server (param 2), and displays a list of strings if True (param 3). Note that the strings returned are repository (database) names rather than system names.
- `repos_show_space("<server>", True|False, True|False):` Gets total and available space on a Sybase server (param 1), lists the Sybase system procedures (*sysprocsdev*) if True (param 2), and displays a string if True (param 3). The returned string is expressed in megabytes, in the form *<total_space><tab><free_space>*.
- `repos_list_users("<server>", True|False):` Gets the list of repository users allowed to access a Sybase server and displays the list if parameter 2 is True. Note that the function does not report the Sybase *mon_user*, as does the equivalent GUI function.
- `repos_list_current_users("<server>", True|False):` Gets the list of current users on a Sybase server and displays the list if parameter 2 is True. The returned list of strings is of the form *<user><tab><database>*. Note that the function does not report users on the master database as does the equivalent GUI function.
- `sys_list_users("<projdir>", "<system>", True|False):` Gets the list of users allowed to access *<projdir>/<system>* and displays the list if parameter 3 is True. The returned list of strings is of the form *<user><tab><privilege>*, where *<privilege>* can be owner, writers, or readers.
- `sys_list_current_users("<projdir>", "<system>", True|False):` Gets the list of current users of *<projdir>/<system>* and displays the list if parameter 3 is True. The returned list of strings is of the form *<user><tab><number of sessions>*.
- `sys_show_space("<projdir>", "<system>", True|False):` Gets total and available space on *<projdir>/<system>* and displays a string if parameter 3 is True. The returned string is expressed in megabytes, in the form *<total_space><tab><free_space>*.

There are two new built-in QRL functions for enabling *msgd* communication:

- `editor_send_msg_sync("<editor_name>", "<command>", <handle_ID>)`
- `editor_send_msg_sync("<editor_name>", "<command>", <handle_ID>, "<context>")`

Both functions deliver the specified command to an editor (just like `editor_send_msg`) and do not return until the command is processed by the receiver. If a real *<handle_ID>* integer is specified, *<editor_name>* is ignored. If a context is not specified, the message is delivered to the current context.

The result of this change is that the *msgd* protocol is changed and earlier versions of StP cannot use the *msgd* from 8.3 version of StP. The opposite also applies - editors from StP 8.3 version cannot connect to *msgd* from earlier versions of StP.

`editor_send_msg_sync` returns the exit code of the operation (integer value). If the operation could not be sent through the message router (or if there is no such editor connected to *msgd*), the function returns -1. In the other cases, it returns the return code of the operation that was invoked.

Installation Update

StP 8.3 allows you to install MS Jet 4.0 SP5 and the MDAC 2.6 SPI drivers from the product CD if they are not present on your current Windows installation.

Miscellaneous

- More than 350 customer-reported bugs/enhancements have been fixed in/added to this release.
- The online document set now contains a global index to the “user guide” and the “reference information” sets of documents.
- Several new ToolInfo variables have been added to this release. For usage details on these and other ToolInfo variables implemented in other versions of StP ME, refer to “ToolInfo Variable Updates in StP 8.x” on page 26.
- Underscore characters are no longer treated as name delimiters. They are treated only as potential positions where labels can be split into more than one line. This changes the graphical representation of diagram labels after reverse engineering (in which case underscores are preserved).

Note: You can change the delimiter character with the ToolInfo variable `re_name_delimiter`; the default is now '@' instead of '_'.

- The “implements” link now conforms to UML 1.3. The update was implemented as follows:
 - The implements link is now a dashed line with a solid triangular arrowhead.
 - The label of the link is now “Realization.”

In addition:

- Implements/realize links from a class to an interface class and an interface “bubble” are both accessible in ACD.
- It is now possible to draw an implements/realization link to a class marked with stereotype <<interface>>, <<type>>, and <<implementationClass>>.
- Tagged values now default to True if only the tag is set, as specified in UML 1.3.
- GUIDs are now available for file objects. This allows you to capture renames of file objects such as diagrams and tables.

Integration/Navigation Features

StP supports integration with the third-party tools noted in the table below.

Features

Third-Party Tool ^a	Version(s) Supported ^b	Website
Continuus CM (now Telelogic CM)	4.5 SP 2	www.continuus.com
ClearCase	3.x	www.rational.com
DOORS	4.14, 5	www.telelogic.com
Forte	3.0	www.forte.com
FrameMaker	5.5	www.adobe.com
FrameMaker (UNIX)	6.1	www.adobe.com
GNU RCS (UNIX; not supported on HP)	5.7	www.gnu.org
Internet Explorer (Windows)	6	www.microsoft.com
Developer's Studio (Windows)	6.0	www.microsoft.com
Netscape Navigator	4.7	www.netscape.com
ObjectAda	7.1.2	www.aonix.com
Rose (via Rose2StP bridge) (Windows)	98/98i/2000/ 2001	www.rational.com
SNiFF+/TakeFive	4.x	www.windriver.com
Word (Windows)	97/98/2000	www.microsoft.com

a. "Windows" indicates the integration is for Windows platforms only; "UNIX" indicates UNIX platforms only; all other integrations are for both Windows and UNIX platforms.

b. Numbers in this column indicate the version officially supported by StP. However, later versions might be supported as well because applications are generally backward compatible.

Major Features in Earlier 8.x Versions of StP

Features added in 8.1 and 8.2 that are worth noting here are:

- **Report Maker Editor (RME).** The RME, originally provided as a customization in StP 2.6, allows you to describe in graphical terms a report consisting of StP diagrams, tables, text, and database objects. Use of the RME is now described in the “Report Maker Editor” chapter of the *Features Supplement*.
- **HTML report generation.** This facility allows UML system information to be captured in sets of linked HTML pages. Use of the feature is now described in the “Usability and Modeling Enhancements” chapter of the *Features Supplement*.
- **XMI generation.** This facility is used to export meta-model information from one tool or application to another. Use of the feature is described in the “Exporting and Importing UML Models and Code” chapter of the *Features Supplement*.
- **Model management.** This facility allows you to partition models, work on them in a private workspace, and merge them back into a central model. Use of this feature is described in the “Model Management” chapter of the *Features Supplement*.
- **Model browser.** This feature is an enhanced UML-based model browser and repository browser that allows you to examine the structure of your model from different views of its contents. Use of this feature is described in the “StP/UML View-Based Desktop” chapter of the *Features Supplement*.

Software Compatibility

This section discusses compatibility of StP 8.3 with respect to the supported Windows platforms and MS Jet, with Sybase, with FLEXlm, with previous versions of StP, and with systems created with earlier StP versions.

Models created with earlier versions of StP are not compatible with StP 8.3; they must be migrated.

Note: See “System Requirements” on page 10 for a table that summarizes StP system requirements.

Compatibility with Windows and MS Jet

StP 8.3 is designed to operate on Windows NT with Service Pack 6a, Windows 2000 with Service Pack 2, and Windows XP (client side only).

Starting with StP 8.3, Microsoft Jet 4.0 SP 3 and the corresponding ODBC drivers can be installed from the StP CD. The StP installation also includes the required Microsoft Access Data Components (MDAC) 2.6 SP1 package. Refer to the “Installing and Configuring StP” chapter of *Installing StP for Windows Platforms* for installation information.

Note: Jet 4.0 SP 3 requires an Internet Explorer 4.01 or greater installation; the StP installation will fail if this version is not present.

Any StP system created with an older version of Microsoft Jet will automatically be converted to 4.0 when it is opened for the first time with StP 8.3.

Compatibility with Sybase

This version of StP includes Sybase Adaptive Server Enterprise (Sybase ASE) version 12.0, which is the officially supported platform for this release of StP. The Sybase Adaptive Server is a relational database that acts as a repository for StP.

If you intend to use Sybase rather than MS Jet as your repository, *you must have Sybase 12.0 installed*. That version is provided with StP 8.3; you may install it from the StP product CD.

Note: StP 8.1 and 8.2 were also delivered with Sybase 12.0. If you have either of these two versions of StP, you do not need to deinstall Sybase.

Note: The default port of Sybase is 6100.

Refer to *Installing StP for Windows Platforms* for more information on installing Sybase; refer to the *StP Guide to Sybase Repositories* for information about Sybase in general.

Compatibility with FLEXlm

This version of StP will not work with installations of FLEXlm older than 8.1.

Compatibility with Previous Versions of StP

If you have a previous version of StP installed, *you must deinstall that version of StP*. On Windows platforms, only one version of StP is allowed.

You may need to deinstall Sybase and other StP components as well as StP. Refer to *Installing StP for Windows Platforms* for details.

Note: Please be aware that after you deinstall StP, you *must reboot before you reinstall StP* (as stated in the installation guide). Otherwise, problems with the *msgd* service may result.

Compatibility with Previously Created Systems

All systems created with previous versions of StP must be migrated to StP 8.3

Systems created with versions of StP earlier than 2.6 must be migrated to 2.6 first and then migrated to 8.3.

Note: Some users may encounter errors in migration that are due to disk space requirements, the size of the Sybase repository, or other factors. Refer to “Migrating Earlier StP Systems” on page 28 for more information.

Installation

Starting with StP 82, there are two installation paths: a default path (called “evaluation”) that does a simple, “typical” installation, including MS Jet, and a client/server installation that allows you to install Sybase. The installation process is described in detail in *Installing StP for Windows Platforms*.

Note: Some users may encounter problems with installation under certain circumstances. Refer to “Problems During Installation and Migration” on page 30 for more information. One of the problems users frequently have during installation results from failure to reboot Windows before using StP. Without rebooting, problems with the *msgd* service may result. Refer to *Installing StP for Windows Platforms* for the correct installation procedure.

Useful Information

This section addresses topics of general interest to users of StP 8.3 that do not appear elsewhere in the document set.

Product Changes

- HTML documentation describing Tcl 8.0 and 8.1 commands and procedures is provided in `<StP>/Documentation/Third_Party` directory. (ACD uses Tcl 8.0).
- FLEXlm user documentation is now in `<StP>/Documentation/Third_Party/flexuser`. Note: the path to the FLEXlm documents noted in the “Installing the StP License File” portion of the installation guide has changed.
- Templates for COM, CORBA, C, and Visual Basic are still available but no longer supported. Note: You can use the new ToolInfo editor to enable code generation for these languages.
- The “Getting Started” tutorials for SE and UML are no longer provided. However, the corresponding “quick tour” tutorials have been updated in 8.3. In addition, the document set now includes an online global index.
- Starting with StP 8.2, Validator is no longer supplied on the product CD. It is, however, still available from Aonix. Please contact your local sales representative for details.
- Starting with StP 8.2, the DocEXPRESS integration is no longer supported.

Networking Issues and the StP Message Daemon

A port number specification is necessary for certain network configurations, especially when using firewalls.

To configure network firewalls, it is useful to understand StP interprocess communication. Assuming that *msgd* is running on a Windows server with a specified port of 4444, the flow of packets during StP startup is as follows:

Useful Information

Client

StP@1411(>1024) --- *udp* ---> msgd@4444

StP@1411(>1024) <--- *udp* --- msgd@4444

StP@1412(>1024) --- *tcp* ---> msgd@1083(>1024)

Server

Every subsequent StP client (GDE, GTE, etc.) opens a new >1024 port on the client and performs the same sequence above during startup.

If the message router is shut down and restarted, it will be assigned a new TCP port, while the UDP port it is listening on is defined in the ToolInfo variable `IDE_MSGD_HOST`.

The firewall should be configured such that the specified UDP port and any TCP port > 1024 can be accessed through the firewall

ToolInfo Variable Updates in StP 8.x

This section describes major ToolInfo variables that were added in StP 8.x.

New Variables for Creating Sybase Systems

Several new ToolInfo variables have been added in StP 8.3 that affect the creation of a Sybase system. They are described in the table below.

Name	Default	Description
<code>syscreate_device</code>	"default"	Defines the name of the database device where the system is to be created, e.g., <code>stp_device</code>
<code>syscreate_log_device</code>	"default"	Defines the name of the database device where the system log is to be created
<code>syscreate_size</code>	6	Specifies the size of the system's reserved space in Sybase
<code>syscreate_log_size</code>	2	Specifies the size of the system's reserved log space in Sybase

Usually, the user provides the size of the new system; all other values are set from default values or from the ToolInfo variables above. However, StP can behave differently, depending on the actual settings.

When `syscreate_log_device` is not set, or when both `syscreate_device` and `syscreate_log_device` are set to the same value, the system will always be created with:

- ♦ A log-only segment of 2MB
- ♦ A data+log segment of `syscreate_size - 2` (always 6MB or more)

If `syscreate_log_device` is set and is different from `syscreate_device`, the values specified by the user are used; if they are not specified, the defaults are used.

Other New Variables for Sybase

StP 8.3 provides a new ToolInfo variable, `sybbcp_textsize`, which sets the amount of data (in bytes) dumped by the Sybase *bcp* utility. The default is 98304 bytes (96KB).

This variable is needed only when the length of descriptions in notes exceeds the default; this is very unlikely unless you are using an editor like MS-Word as your description editor. To increase the default value to e.g., 128KB, add the line `sybbcp_textsize=131072` to your ToolInfo file.

StP 8.3 also provides a new ToolInfo boolean variable, `syb_no_truncate_on_checkpoint`. If this variable is set to True, new Sybase databases will be created without the “truncate log on checkpoint” option. The default is False.

New Variable for External File Location

StP 8.3 provides a new ToolInfo variable, `external_file_location`, which allows you to specify a default path for files identified by an External File item in the OAE. If `external_file_location` is set, the browser initially opens in that location.

Code Generation ToolInfo Variables

Code generation via ACD template is the supported mode for generating code. However, you may still use QRL if you wish. To enable QRL code generation, set `qrl_code_gen_enabled` to True (no case sensitivity). False means that code generation via QRL is not allowed and the appropriate menus are hidden. False is the default.

Migrating Earlier StP Systems

Because of the implementation of GUIDs starting with StP 8.0, you may find some differences during migration than you did in earlier versions of StP. Refer to *Migrating to StP 8* for details of migration. Possible problems you may encounter during migration are noted in “Problems During Installation and Migration” on page 30.

UNIX vs. Windows File Names

If you share files between any UNIX or Windows operating system, you may encounter problems with StP. Almost all instances will be due to how the respective operating system interprets characters. For example, in Windows, characters in file names are case insensitive, whereas this is not true for UNIX. This lack of operating system “interoperability” can lead to problems in using StP and in installing StP and migrating systems.

Some of the differences you will note between StP for UNIX and StP for Windows are addressed in the “quick tour” documents for UML and SE. Instances of specific interoperability problems that have been reported for StP are addressed in “Potential Interoperability Problems” on page 35 and in “Problems During Installation and Migration” on page 30.

To reduce the possibility of file name conflicts, we suggest that you establish and enforce file naming conventions - for example, use underscores instead of spaces, use upper case only for names, etc.

Note: Various file conversion tools exist that allow you to convert text files from UNIX to DOS and vice versa. One example is the standard UNIX tool, *unix2dos*.

Fixed Problems

A large number of problems have been fixed in StP 8.3. To view a list of these problems, go to *fixed_requests.html* in *templates/ct/doc*. The list is organized first by product and then by type and internal number. Each item on the list has a short description. If you need to review the status of a specific item in the list, contact your local Aonix representative.

Product Limitations

This section discusses limitations of the current release. They are discussed in two subsections, “Potential Problems” (immediately below) and “Known Problems and Limitations” (page 39).

Potential Problems

This section presents information relating to problems you might encounter that may not be addressed in other parts of the StP document set. Many of these “potential problems” are not actual problems, but just situations you need to be aware of. Numbers in brackets (e.g., [1234]) indicate the number in the Aonix Customer Support database where the information is recorded.

The potential problems addressed in this section are organized into two categories: “Problems During Installation and Migration” (next page) and “Problems While Using StP” (page 35).

Problems During Installation and Migration

This section lists problems you may encounter during installation and migration. More recent problems are listed first.

Message router default is 37874, not 37873 [7845]

The message router default is shown as “37873” in *Installing StP for Windows Platforms*. The new default (instituted in StP 8.3) is 37874.

Problems de-installing StP on Windows [7791]

If you are unable to deinstall a previous version of StP, it is probably because InstallShield failed to completely remove the previous version.

Workaround:

- Find the *InstallShield Installation Information* folder (it may be hidden).
- Open each subfolder there (each will have a name like “{199A62D6-FBED-11D3-899D-006067752359}”).

- Open *setup.ini* to make sure you are looking at the InstallShield information for StP.
- Delete or rename the subfolder.

Message router problems with 2000/XP evaluation installation [7516]

After an evaluation installation, you may get a “message router not found” message when you first start StP.

Workaround: Delete the `msgd_host` variable from your ToolInfo file.

Installing Sybase on Windows XP [7466]

On Windows XP, installing and configuring the Sybase server may take a long time.

Note: Neither Sybase nor Aonix have certified Sybase Server on Windows XP. Although there are no known problems yet, we recommend that you install Sybase Server on Windows 2000 Server or Windows NT Server and install StP clients on XP.

Workaround: To speed up the process, minimize or hide the command window that pops up during Sybase Server installation/configuration.

Model changes caused by 8.3 migration [7162]

1. In 8.0, 8.1, and 8.2, StP stored sequence numbers of messages in sequence diagrams in the message annotations. In 8.3, this has changed. The value is stored in the diagram file as a part of the message label; this is done automatically by the 8.3 migration script.
2. Previously it was possible to draw a bind relationship from a normal class to an instantiated class in a class diagram. Starting with 8.3, this kind of link is prohibited in order to be compliant with UML 1.3 [7270]. During migration, a bind link is converted to a dependency link with a “binds” stereotype.

Problems with the StP license service [5488]

After you install StP and reboot, the StP license service is not installed. If you select **Start > Programs > StP <version> > License > Add StP License Service**, the service is added but not started.

Workaround: Start the service manually from **Control Panel > Services** or reboot the computer.

Installing on a different hard drive [5339]

When you select an installation folder on a hard drive different from the one from which you are running the installation, InstallShield displays zero required space. This is not a problem; installation will proceed as expected.

File permission problems in migrated customizations [5171]

Since delivered rules and QRL files that are in `<StP>/templates` are read only, you may need to change some of the file permissions before migrating customizations to StP ME.

Migration interoperability problem with case sensitivity [4911]

It is not always possible to migrate from UNIX StP systems to Windows because case sensitivity differences between the two operating systems cause name clashes.

Migration may fail due to presence of .sysbusy file

You may get the following message during system migration:

```
Message: system busy; administration in progress
```

Problem: The migration failed due to repository operation errors. This is indicated by the `.sysbusy` file remaining in the root directory of the source system. Migration cannot proceed.

This is the way the StP behaves - if migration or a repository build fails, the `.sysbusy` file will not be deleted at the end of process.

Recommended action: Before attempting a new migration or repository build, check to make sure no one is using either the source or target system (or simply the target system if performing repository administration), then remove the `.sysbusy` file.

Migration may fail because of repository size problems [4081]

Migration may fail because the allocated size of the transaction log is too small [4949]

Migration of models to StP ME from previous versions may require a repository size **twice as large as** the size of the source system repository. This is partly due to the implementation of GUIDs.

If you do not have enough space on the system repository database, you may get an error during migration stating that the repository or the repository log or data is full.

The ToolInfo variables `syscreate_size` and `syscreate_log_size` control the size of the repository and the repository log, respectively. Since the repository log is not explicitly deleted, it may grow to be very large during the migration process. For information on the `syscreate_size` and `syscreate_log_size` ToolInfo variables, refer to “New Variables for Creating Sybase Systems” on page 26.

Workaround:

- Perform repository manager maintenance from the desktop (**Repository > Perform Manager Maintenance**).
- Delete any unwanted systems. Use **Repository > Maintain Systems > Destroy System Repository**.
- Remove the transaction log to make space for the new migration.
- Delete the created system and update the ToolInfo variables to allocate the correct amount of space.
- If there is a `.sysbusy` file in the source or target directory, remove it. Then restart the migration process.

Migration does not die gracefully when there is a problem [3147]

Migration may fail for various reasons. To help mitigate the problem, we recommend that before migrating a system, you first open the message log and change the log size to 9999 lines (the maximum) from the **Options** menu to allow as much information as possible to be recorded.

In addition, the progress of the migration depends on how the ToolInfo variable `migrate_no_quit` is set.

Product Limitations

- If `migrate_no_quit` is set to False (the default) and migration fails, the target system will be erased and the `.sysbusy` file will remain. In this case, you will not be able to see what actually went wrong. To restart migration, you must remove the `.sysbusy` file.
- If `migrate_no_quit` is set to True and migration fails, migration will continue and a “success” status will be reported even though the migration was not successful. To see if errors actually occurred during the migration, check the message log.

Installing in broadcast mode [2592]

If StP is installed with one system running in the `AUTOSTART` mode (that is, if `msgd` is not nominated or does not run as a service on the local machine) and another system running in the nominated mode from an earlier version of StP, the earlier installation with the nominated message router will render inactive the `msgd` that is running in the `AUTOSTART` mode, and will not permit it to be reactivated.

Workaround: Make sure that you have only one message router machine and that all clients are running in either one mode or the other; do not mix `BROADCAST` `ON-DEMAND` and `AUTOSTART` `msgd` modes within the same network or installation.

Note: This is a problem relating to the message router (`msgd`). Refer to “Understanding the StP Message Router” in Chapter 3 of *Installing StP* for more information.

Reinstalling Sybase in a different location [2618]

The `CLASSPATH` environment variable becomes corrupted when Sybase is deinstalled and then reinstalled in a different location.

Workaround: Manually edit the `CLASSPATH` environment variable (via the System Properties applet) and remove all references to StP and/or Sybase after deinstalling and before reinstalling Sybase. If you experience problems, first check to make sure that there are no double semicolons in the `CLASSPATH` definition.

Problems While Using StP

The problems reported below are not necessarily actual problems, but situations you might want to be aware of while using StP.

Potential Interoperability Problems

If you are accustomed to using StP on Windows or on UNIX, you may encounter unexpected differences when using StP for the “opposite” operating system - particularly if you have migrated files from or share files across operating systems. Some of the discrepancies are listed below.

Note: StP is not intended to support heterogeneous environments (such as StP UNIX and Windows clients accessing the same server within an StP system.) This means you should avoid working on a single StP system having both UNIX and Windows clients. However, using system A with UNIX clients only and system B with Windows clients only, regardless of the platform where the database and file server are located, is supported.

Backward versus forward slashes in StP documentation

In most of the StP documentation, the Windows convention of backward slashes to identify directory levels is used (e.g. <StP>*Examples*). UNIX directory levels need to be identified with forward slashes (e.g., <StP>/*Examples*).

Double-clicking to activate StP operations may not work consistently on UNIX [6023 and 6058]

Double-clicking to perform certain operations, such as opening diagrams from the desktop or selecting labels on objects in diagrams or names on the **Choose Names** dialog, may not work, or may not work consistently, on UNIX platforms. This may happen if double-clicking is not specifically enabled on your UNIX system or for other reasons.

Workaround: On UNIX platforms, use the following alternatives to double-clicking:

- Press the F2 key to select an object's label for editing.
- On dialog boxes, select an item and click the OK button.

This is not a problem on Windows platforms.

Font differences between Windows and UNIX [5677]

Because of Windows and UNIX font differences and because operating systems handle fonts differently, GDE objects in diagrams that are created with Windows and then opened with UNIX will be a bit larger. This does not affect the consistency of the diagrams.

Note: You can specify the font used by GDE with the ToolInfo variable `font_name`. The variable must contain the full name of the font and must include “%d” in front of the pixel font size. For example:

UNIX: `font_name=-adobe-helvetica-medium-r-normal--%d-0-0-0-p-0-iso8859-1`
Windows: `font_name=Tahoma`

Note the difference in syntax between Windows and UNIX here.

Package symbol differences in display of migrated systems [4634]

When a system is migrated from 2.6 to StP ME, its diagrams may contain displaced and resized packages: some classes that are close to the package border can appear outside the package symbol. However, the semantics are still correct because the containment links still exist.

Workaround: For visualization purposes, resize the diagram manually so that the classes are within the appropriate packages.

Problems in diagram display with migrated systems [4577]

Diagrams in systems migrated from Windows platforms will have a somewhat different look on UNIX. For example, the diagram coordinates and sizes of graphical symbols are different.

Problems with character sets in heterogeneous environments [2689]

Problems can occur regarding characters whose ASCII values are greater than 128 (e.g., umlauts) when you use StP in a heterogeneous environment.

Symptom 1: You get a Sybase character-conversion error message. This is due to differences between the 128+ character sets on the Sybase server and the StP client.

Symptom 2: You have problems in generated reports. For example, some characters might appear as question marks.

Symptom 3: When a user account contains such characters, you might not be able to access the repository from different machines.

There is no current workaround for this problem except to confine characters in diagram, etc., names to the ASCII character set.

Case sensitivity in a network environment [2524]

When you use StP in a network environment in which the StP system files are stored on a UNIX file system and accessed via SMB, make sure the SMB server is ***not*** set to convert all file names to lower case. This causes file name problems due to the differences in case sensitivity between Windows and UNIX.

Other Potential Problems

Characters in note symbols: Rose vs. StP [7463]

In Rational Rose, note symbols can contain <tab> characters. During migration <tab> characters are translated to <space> characters.

Activation of a life line can be ended only by return message [6640]

In StP, ending the activation of an object lifeline is possible only with a message of type Return Message. According to UML 1.3, it should be possible with other message types as well.

Integration with Word appears to not work from the OAE [5502]

The object annotation editor (OAE) allows MS Word to be used as an external editor.

In some circumstances the following path (or one similar to it)

```
C:\Program\MicrosoftOffice\Office\WINWORD.EXE ${tmpfile}
```

Product Limitations

may be found in the external editor field of the OAE's **Edit > Options > Annotation** tab. If this is the case, you may experience problems in using Word as the external editor for note descriptions. If you do, amend the path by removing the “.exe” as follows

```
C:\Program\MicrosoftOffice\Office\WINWORD ${tmpfile}
```

Global Object Rename on operation signature of more than 220 characters [4537]

If you try to do a global object rename (GOR) on a signature of operation that is more than 220 characters, StP completes the operation successfully, even though some error messages are displayed in the message log. The messages are:

```
Error : OMS Error 10022: Invalid SQL statement passed to repository manager
Error : OMS Error 10022: Invalid SQL statement passed to repository manager
Message : Rename successful
Message : 1 object renamed
```

SE models document out of date with respect to pspecs [4343]

The “Creating a Process Specification (pspec)” section in Chapter 3 of *Creating SE Models* states that processes can have either a decomposition or a *pspec* but not both. This is no longer correct. If you have a process with a decomposition you may add a *pspec*. However, if you already have a *pspec* you cannot decompose: if you wish to decompose a process with a *pspec* you must remove the *pspec*, decompose, save the diagram, and then go back and recreate the *pspec*.

StP does not automatically start ClearCase services [3488]

If you attempt to run version control when ClearCase services are not running, StP does not respond and must be stopped manually. The workaround is to make sure ClearCase is running first.

“No navigation target found” message in collaboration editor [100]

When you use the **GoTo** (navigation) menu in the collaboration editor, you may get a “No navigation target found” message even though there is a valid target. For navigations to work, the object must have a fully qualified name or be an anonymous object of a class. In the latter case, qualify the object with a class name.

Class names in generated Ada code

Attempting to generate models from reverse engineered Ada 95 code does not work if duplicate class names exist in two or more packages.

Workaround: Make all class names unique. You can do this by setting the ToolInfo variable `revenge_option` to “q”. This prepends the name of the package to all class names. To use this variable, you must enter the name and value into the appropriate ToolInfo file. The syntax is:

```
revenge_option=q
```

Known Problems and Limitations

This section addresses problems and limitations that have been reported for StP ME (in addition to those noted in the “Potential Problems” section starting on page 30). The “Known Problems and Limitations” section is organized into three categories: model management limitations (immediately below), document generation problems (page 40), and other problems (page 41).

Model Management Limitations

Some aspects of model management are expected to improve in later releases of StP. They are noted below.

- There is currently no way to distinguish between normal and locked elements in the **ModelManagement View** portion of the tree browser. [5219]
- Model management needs a way for subsystems to implement interfaces. [5207]

- Model management needs better support for enabling the assignment of diagrams to subsystems in the **ModelManagement View** portion of the tree browser, for assigning multiple files and for dragging and dropping assignments. [5103, 5105]
- The graphical editors need to prevent users from being able to modify locked elements (at this time this is implemented by applying checks only).
- Classes in different subsystems that have the same name cannot be uniquely identified. Both are treated as the same class belonging to both subsystem in which they occur.

Document Generation Problems

Embedded links not working in SE reports generated in HTML format [6071]

The HTML document generation facility requires a PostScript conversion utility to be installed for diagrams to be displayed in generated documents. HTML document generation does not require this facility to run, but will only display text in a web browser if the conversion utility is not present. For example, the GhostScript conversion utility can be downloaded from the internet, and can then be used for the conversion of StP diagram output to HTML, including embedded diagrams. Refer to the “Usability and Modeling Enhancements” chapter of the *Features Supplement* for information on setting up for PostScript printing.

Cannot print as JPEG or PostScript from diagram editors [5913]

Even though JPEG and PostScript appear in the **Print As** dropdown list of the diagram editors, you cannot save in these formats unless you have a PostScript-to-JPEG converter installed. Refer to the “Usability and Modeling Enhancements” chapter of the *Features Supplement* for information on setting up for PostScript printing.

Diagram objects in exported JPEG files are too small [5401]

In JPEG files generated from StP, it is currently not possible to control the page size or resolution. In many cases the output is difficult to read. Although there is currently no workaround for this problem, you can

adjust the image by changing the scaling factor on the **Page Setup** dialog. However, if you make the scaling factor too large, or if the diagram is too big, it will not be possible to print the diagram.

Return value can overlap operation signature in print output [5381]

When you print a class diagram containing a long operation signature, the return value of the operation can overlap the signature.

Workaround: Print to RTF or PostScript and then print the resulting RTF or PostScript file instead of sending the output directly to a printer.

Can't change page size in QRL scripts [2756]

If you print, from a QRL script, a diagram where the print settings are specified as US large or a custom size larger than the paper size of the default printer, the output appears as it was printed on a smaller page; the print settings do not seem to matter.

The reason this happens is that MS Word cuts off the pages whose size is greater than the print size of the default printer. This is not a bug.

Other Problems

Condition and operation cannot exist on a single line (SE rev eng) [6859]

Currently the parser cannot completely extract and separate multiple statements in one line of source code when generating code block symbols in SE flow charts.

Examples:

- `for (i=1;i<=23;i++) printf("%d",i);`
- `if(a==b) a++;`
- Any kind of *while/do/switch* statements followed by functions, assignments, etc., on the same line

In any of these cases, the parser correctly recognizes and creates the symbols for the *for* and *if* statements in the flow chart. The code block after the symbols, however, incorrectly includes the *for* and *if* statements as well, while it should only hold the subsequent operation.

You can avoid this problem by using “pretty print” tools for your source code so that the code is broken into two lines instead of appearing on one line.

Restoring a baseline can sometimes loop endlessly [6687]

Moving a system around (from a Jet-only to a Sybase-only installation and then back to the Jet-only installation) and then attempting to restore the system can cause the restoration process to loop endlessly.

Workaround: Unzip the baseline manually, then delete the *.repinfo* and the **.mdb* file and recover the system with **StP-Desktop > Repository > Maintain Systems > Recover System Repository**.

Note: If a previous restore failed, you may have to delete the ODBC System DSN. In that case, use the operating system’s **Control Panel > Administrative Tools > ODBC Data Sources** and the System DSN tab to remove the DSN for the system to be restored.

Missing indent of output in templates if text is preceded by code in square brackets on the same line [6670]

In templates where text is preceded by code in square brackets on the same line (shown below), the first line of text output is never indented.

```
[if ([var]=="one")][t1()][else][t2()][end if]
<text>
```

To avoid this, do not precede text with code inside square brackets.

Sybase database cannot be named “dummy” [5366]

Sybase database cannot use reserved Sybase names [4780]

You cannot create a Sybase StP system named “dummy” or one that uses SQL reserved words or Sybase statements.

Undoing after a create decomposition puts original at a new level [4767]

When you create a decomposition diagram, the original diagram is copied to the new level and then all non-connecting components are deleted from the diagram. This gives you a starting point to create a new diagram.

However, if you press undo, the original diagram is returned, but you are still at the lower level diagram.

ACD limitation: Cannot use dynamic values for variables [4656]

Although expression `[MClass:foo] = "hello, world"` works fine, it is not possible to use dynamic values for the variables. For example:

```
loop (MClass->TaggedValue)
  [MClass:[TaggedValue.tag]] = [TaggedValue.value]
<- ERROR!
end loop
```

Workaround: To retrieve a tagged value for an MClass element, use MClass IDs instead the MClass elements themselves. For example:

```
loop (MClass->TaggedValue)
  [[MClass.id]:[TaggedValue.tag]] = [TaggedValue.value]
<- OK
end loop
```

Cannot execute scripts with spaces [4543]

Attempting to run a QRL script that contains a space in its name results in a “script failed” error message:

Incorrect global declaration during code generation [2736]

The SE C-code generator declares global data incorrectly; it erroneously inserts an `extern` storage class specifier before the variable name.

Deadlock in `for_each_in_select` loops [2628]

For very large systems, deadlock may occur if `stepem` is called in a `for_each_in_select` loop.

Workaround: Substitute `for_each_in_select` loops where external programs get called with calls to `list_select` and iterate through the list.

Product Limitations

No reverse engineering of Java local classes [117]

No reverse engineering of Java anonymous classes [118]

The StP parser recognizes classes, defined in the body of methods and the reverse engineering process generates class tables for them. However, they are not annotated in any way to indicate the position and relationships with other classes, operations, etc., in the source code.

Generating models from parsed Ada source

The **Class Filter** button in the **Generate Model from Parsed Source Files** dialog does not work for Ada 95 files. (The dialog is displayed by selecting **Code > Reverse Engineering** from the StP desktop.)

Documentation Issues

This section addresses documentation issues you may find in the StP Millennium Edition set of documents.

Millennium Edition Features

The StP documentation set for this release includes several manuals last updated for StP Release 7.1 or 7.2, which do not reflect StP product enhancements. For documentation on StP ME features, see:

- “Features” in this set of release notes
- A Quick Tour of StP/UML
- A Quick Tour of StP/SE
- StP Features Supplement

Sybase 12

The current release of StP requires Sybase 12. Certain StP documents, such as the *StP Administration* manual, that have not been updated for this release, may contain references to and information relevant to earlier releases of Sybase, which are no longer supported. For current Sybase 12 information, please refer to the following documents:

- Installing StP
- StP Guide to Sybase Repositories

For More Information

For More Information

If you have problems, contact the Aonix Customer Support department.

From North America, call:

- (800) 972-6649 (800-97AONIX)
- (858) 824-0209 (fax only)

Technical support websites and e-mail addresses are listed below..

Country	Website URL	E-mail Address
Canada	www.aonix.com	support@eonix.com
France	www.aonix.fr	customer@eonix.fr
Germany	www.aonix.de	stp-support@eonix.de
United Kingdom	www.aonix.co.uk	stp-support@eonix.co.uk
United States	www.aonix.com	support@eonix.com
Sweden		support@eonix.se

If you are in a country other than those listed above, contact your local Aonix sales office or StP distributor directly.