Teamcenter 10.1
Systems Engineering and Requirements Management

# Manual History

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<th>Teamcenter Requirements Version</th>
<th>Publication Date</th>
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<td>January 2015</td>
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<td>January 2016</td>
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<tr>
<td>U</td>
<td>10.0.2</td>
<td>March 2016</td>
</tr>
<tr>
<td>V</td>
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<td>September 2016</td>
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This edition obsoletes all previous editions.
# Contents

Manual History ............................................................................................................. 2
Preface .......................................................................................................................... 7

Audience ......................................................................................................................... 7
Conventions .................................................................................................................... 7
  Names and Values ....................................................................................................... 7
  Command Line Entries, File Contents, and Code ....................................................... 8
Systems Architect/Requirements Management Manual Set ........................................... 8
Submitting Comments ................................................................................................. 9
Proprietary and Restricted Rights Notice ..................................................................... 9

Introduction .................................................................................................................. 1-1

Release Support ............................................................................................................ 1-1
Compatible Third-Party Software Versions ...................................................................... 1-1
Global Technical Access Center (GTAC) ................................................................. 1-3

New Features ................................................................................................................ 2-1

What's New for Users .................................................................................................... 2-1
  What's New for Users ............................................................................................... 2-1
What's New for Project Administrators ........................................................................ 2-1
  What's New for Project Administrators ................................................................... 2-1
What's New for System Administrators ....................................................................... 2-2
  Web Application Server (WAS) Certification .......................................................... 2-2
  Java SE 8u91 Plug-in .............................................................................................. 2-2
  Adobe Search for PDF Help Files on DVD .............................................................. 2-2

Release Notes .............................................................................................................. 3-1

Install compatible Java .................................................................................................. 3-1
Excel Live File Format Change ...................................................................................... 3-1
Java Security Warning in the Architect/Requirements Client ...................................... 3-1
Constraints for Supporting Microsoft Office Integration ........................................... 3-1
Windows Client Hardware ............................................................................................ 3-2
Primary Interop Assemblies Redistributable Required .............................................. 3-3
Microsoft .NET Framework 4.6 Installation for Windows 7 ....................................... 3-3
Stencil and Diagram Formats Added with Visio 2013 Not Supported ......................... 3-3
Known Issues ................................................................................................................. 3-4
  Client Installation Fails with Firefox 42 through Firefox 47 .................................. 3-4
  Issues with Windows 7 and Windows 10 clients .................................................... 3-4
  Document Front Matter is Imported as Requirements (PR 6427144) ..................... 3-5
  Web Application Platforms with HTTP-only enabled cause Teamcenter Security Services to Fail ............................................................... 3-5
| Contents |
|-----------------|-----------------|
| Use of multiple multilevel lists during export causes formatting loss (PR 1878351) | 3-5 |
| Closed Problem Reports | 4-1 |
| Closed Problem Reports for Architect/Requirements 10.1 | 4-1 |
| Certifications | 5-1 |
| Certifications | 5-1 |
| Index | Index-1 |
Preface

This manual describes features introduced with Teamcenter Systems Architect/Requirements Management 10.1. It also contains general notes, descriptions of known defects, a list of the Architect/Requirements documentation set, and a list of closed test issues.

Architect/Requirements belongs to the Siemens PLM Software portfolio of digital product lifecycle management software and services.

Audience

This manual is a reference for installers, customizers, and administrators of Architect/Requirements. This manual assumes that you understand the structure of the Architect/Requirements product and are familiar with the installation and maintenance of Architect/Requirements.

Conventions

This manual uses the conventions described in the following sections:

Names and Values

This manual represents system names, file names, and values in fonts that help you interpret the name or value. For example:

Change or add the parameter to the **initsid.ora** file.

The conventions are:

<table>
<thead>
<tr>
<th><strong>Bold</strong></th>
<th>Bold font represents unvarying text or numbers within a name or value. Capitalization is as it appears.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Italic</strong></td>
<td>Italic font represents text or numbers that vary within a name or value. The characters in italic text describe the entry. Letters are shown in lowercase, but the varying text may include uppercase letters.</td>
</tr>
</tbody>
</table>

In **initsid.ora**, *sid* identifies a varying portion of the name (a unique system ID). For example, the name of the file might be:

```ini
initBlue5.ora
```

**text-text** A hyphen separates two words that describe a single entry.
Command Line Entries, File Contents, and Code

This manual represents command line input and output, the contents of system files, and computer code in fonts that help you understand how to enter text or to interpret displayed text. For example, the following line represents a command entry:

```
msqlora -u system/system-password
```

The conventions are:

**Monospace**

- Monospace font represents text or numbers you enter on a command line, the computer's response, the contents of system files, and computer code.
- Capitalization and spacing are shown exactly as you must enter the characters or as the computer displays the characters.

**Italic**

- Italic font represents text or numbers that vary. The words in italic text describe the entry.
- The words are shown in lowercase letters, but the varying text may include uppercase letters. When entering text, use the case required by the system.
- For the preceding example, you might substitute the following for `system-password`:

```
KLH3b
```

- A hyphen separates two words that describe a single entry.

### Systems Architect/Requirements Management Manual Set

<table>
<thead>
<tr>
<th>Manual Title</th>
<th>Publication Number</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Systems Architect/Requirements Management User's Manual</strong></td>
<td>REQ00001</td>
</tr>
<tr>
<td><strong>Systems Architect/Requirements Management Project Administrator's Manual</strong></td>
<td>REQ00002</td>
</tr>
<tr>
<td><strong>Systems Architect/Requirements Management Release Bulletin</strong></td>
<td>REQ00003</td>
</tr>
<tr>
<td><strong>Systems Architect/Requirements Management System Administrator's Manual</strong></td>
<td>REQ00004</td>
</tr>
<tr>
<td><strong>Systems Architect/Requirements Management API Reference</strong></td>
<td>REQ00006</td>
</tr>
<tr>
<td><strong>MATLAB/Simulink Interface User's Manual</strong></td>
<td>REQ00007</td>
</tr>
<tr>
<td><strong>Systems Architect/Requirements Management Server Installation Manual for Solaris</strong></td>
<td>REQ00009</td>
</tr>
<tr>
<td><strong>Systems Architect/Requirements Management Server Installation Manual for Windows</strong></td>
<td>REQ00010</td>
</tr>
</tbody>
</table>
Submitting Comments

Portions of Teamcenter software are provided by third-party vendors. Special agreements with these vendors require Siemens PLM Software to handle all problem reports concerning the software they provide. Please submit all comments directly to Siemens PLM Software.

Please feel free to share with us your opinion on the usability of this manual, to suggest specific improvements, and to report errors. Mail your comments to:

Silemens PLM Software Technical Communications
5939 Rice Creek Parkway
Shoreview, MN  55126
U.S.A.

To submit an incident report, you can use the Siemens PLM Software GTAC online support tools at the following URL:


Proprietary and Restricted Rights Notice

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Chapter 1: Introduction

Release Support ................................................................. 1-1
Compatible Third-Party Software Versions ............................. 1-1
Global Technical Access Center (GTAC) ............................... 1-3
Chapter 1: Introduction

This chapter briefly describes Systems Architect/Requirements Management support policies for releases and operating systems. It also describes the Global Technical Access Center (GTAC).

Release Support

Siemens PLM Software encourages customers to stay reasonably current with new releases of Systems Architect/Requirements Management products. This upgrade strategy ensures that users obtain the most current announcements and information about new features in a timely manner. It also allows Siemens PLM Software's support of its products to be consistent with that of our dependent technology partners (that is, operating systems, databases, and embedded software products).

Compatible Third-Party Software Versions


Siemens PLM Software's standard policy with respect to new versions of operating systems, compilers, databases, client browsers, and other third-party software relies on the manufacturers' guarantees. If the manufacturer guarantees that the new version of its product is binary-compatible with the preceding version, Siemens PLM Software expects our products to function properly when running on the new version. Our experience shows that virtually no problems are encountered when executing Systems Architect/Requirements Management with a third-party version later than the version on which we completed our certification testing.

Siemens PLM Software will make a reasonable effort to support Systems Architect/Requirements Management running on a later version and to work with you to resolve any difficulty that may arise but will not, in most cases, complete the testing required to state Systems Architect/Requirements Management software is certified.

Systems Architect/Requirements Management compatibility with operating systems and compilers involves these two considerations:

- Compatibility for runtime.
- Compatibility for relicensing customizations and paths.
Typically, operating system manufacturers assure runtime binary compatibility between the successive versions of their operating systems. We make a reasonable effort to support Systems Architect/Requirements Management running on a later version of an operating system. To a lesser degree, operating system manufacturers provide similar assurances when relinking or rebuilding executables and libraries with new versions of the compilers. In cases where compatibility does not exist between old and new compiler versions, all customization incorporated into the Systems Architect/Requirements Management base product must be linked using the version of the compiler with which Systems Architect/Requirements Management has been released. This also applies to the installation of Systems Architect/Requirements Management patches.

To summarize, Systems Architect/Requirements Management may run on a newer version of an operating system, but customizations and patches may need to be compiled and linked on an earlier version.


⚠️ If Siemens PLM Software discovers incompatible versions of third-party software, we will post bulletins in the Solution Center section of GTAC. This information is also available from your Systems Architect/Requirements Management provider.
Global Technical Access Center (GTAC)

The Global Technical Access Center (GTAC) is your focal point for post installation software support. The center provides both your application and operating systems software support through telephone and electronic access.

Only through the use of this service can your call be logged, tracked and followed until resolved. In some instances, the solution to your problem or answer to your question may already exist and can be readily provided.

GTAC is organized into specialized teams which support specific product disciplines. These teams are located in close proximity to their parallel product development groups, so they can quickly locate the path that will lead you to improved productivity.

For more information, see the GTAC Support Services Guide available under Featured Services at the following location:

Chapter 2: New Features

What's New for Users ................................................................. 2-1
What's New for Users ................................................................. 2-1
What’s New for Project Administrators ............................................ 2-1
What’s New for Project Administrators ............................................ 2-1
What's New for System Administrators .......................................... 2-2
Web Application Server (WAS) Certification .................................. 2-2
Java SE 8u91 Plug-in ................................................................. 2-2
Adobe Search for PDF Help Files on DVD ...................................... 2-2
Chapter 2: New Features

This chapter briefly describes new Architect/Requirements 10.1 features.

What's New for Users

What's New for Users

Support for Windows 10

Architect/Requirements 10.1 provides support for following versions of Windows 10:

- 32-bit
- 64-bit

Support for Microsoft Office 2016

Architect/Requirements 10.1 adds support for Integration with the following products:

- Microsoft Office Professional Plus 2016
- Microsoft Visio Professional 2016

New Online Help User Interface

A new user interface is provided for the online help. The HTML help bundle has been replaced with CHM (Compiled HTML) bundle. The CHM bundle is installed with the client, it loads faster, and eliminates the performance issues encountered with the former HTML search applet.

What’s New for Project Administrators

What’s New for Project Administrators

Updated Online Help for Customization

Architect/Requirements 10.1 has updated online help for customization using:

- C#
- VB
What’s New for System Administrators

Web Application Server (WAS) Certification

Architect/Requirements 10.1 supports the following WAS platforms:

<table>
<thead>
<tr>
<th>WAS</th>
<th>Server JRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tomcat 8.0.36</td>
<td>Oracle Server JRE 8u91</td>
</tr>
<tr>
<td>Weblogic 12cR2 (12.2.1)</td>
<td>Oracle Server JRE 8u91</td>
</tr>
<tr>
<td>WebSphere 8.5.5.9</td>
<td>IBM Java SE 1.7.1 and 1.8</td>
</tr>
</tbody>
</table>

Java SE 8u91 Plug-in

Architect/Requirements 10.1 supports Oracle 32-bit Java SE 8u91 on the client.

Adobe Search for PDF Help Files on DVD

When you launch the PDF help from the DVD, you can use Adobe search tool to search across all the manuals for Architect/Requirements. To launch the PDF help, open the following file in a browser from the DVD image:

Documentation\pdf\index.html

After it is loaded, click the Search collection using Adobe Reader link. When the browser prompts you to open or save tcse_help.pdx, click Open to launch Adobe search.
Chapter 3: Release Notes

Install compatible Java ........................................................................................................... 3-1
Excel Live File Format Change ........................................................................................... 3-1
Java Security Warning in the Architect/Requirements Client ........................................... 3-1
Constraints for Supporting Microsoft Office Integration ................................................. 3-1
Windows Client Hardware ................................................................................................... 3-2
Primary Interop Assemblies Redistributable Required .................................................... 3-3
Microsoft .NET Framework 4.6 Installation for Windows 7 .............................................. 3-3
Stencil and Diagram Formats Added with Visio 2013 Not Supported .............................. 3-3

Known Issues ........................................................................................................................ 3-4
  Client Installation Fails with Firefox 42 through Firefox 47 ............................................ 3-4
  Issues with Windows 7 and Windows 10 clients ............................................................ 3-4
  Document Front Matter is Imported as Requirements (PR 6427144) ............................ 3-5
  Web Application Platforms with HTTP-only enabled cause Teamcenter Security Services to Fail ......................................................................................................................................... 3-5
  Use of multiple multilevel lists during export causes formatting loss (PR 1878351) .......... 3-5
This chapter contains general release notes and briefly describes known issues for Architect/Requirements 10.1.

Install compatible Java

Architect/Requirements 10.1 installation does not include Java Runtime Environment (JRE) or the Java Development Kit (JDK). However, Java is required for installing Architect/Requirements server. The installation procedure fails without the JDK. For information on installing Java, see the Architect/Requirements Server Installation Manual for Windows for details.

Excel Live File Format Change

The format of Excel Live files have changed in Architect/Requirements 10.0. The change affected the storage of choice-property lists. An Excel Live file containing choice properties that was saved using a version older than Architect/Requirements 10.0, does not function properly when opened in Architect/Requirements 10.1. You must export these existing Live Excel files again in Architect/Requirements 10.1.

Java Security Warning in the Architect/Requirements Client

When you launch the Architect/Requirements client for the first time, a Java security warning is displayed. Select the check box Do not show this again for apps from the publisher and location above and click Run.

Note that the name of the applet is Teamcenter Systems Engineering.

Constraints for Supporting Microsoft Office Integration

Architect/Requirements provides integration with the Office 2010, Office 2013, and Office 2016 with the following constraints:

• Supported packages
• 32-bit full installation of the PC version of Visio Pro for Office 365 releases 2013 and 2016.

• Unsupported packages
  o 64-bit editions of Microsoft Office (Excel and Word) or Visio are not supported.
  o Home or student editions are not supported.
  o Click-to-Run or Web Installed editions are not supported.

• Limitations of Support for Microsoft Office features

Microsoft Office and Visio include features that are added, removed, and changed between different versions. While Architect/Requirements integration functions are certified to work with the packages listed above, it is possible that it may not work with all combinations of Office and/or Visio features. Siemens PLM Software recommends that you verify business solutions on a test environment before using them in a production environment.

Feature changes for Microsoft Office and Visio

<table>
<thead>
<tr>
<th>Release</th>
<th>Office Professional Plus</th>
<th>Visio Professional</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>Changes in Office 2010 at</td>
<td>Changes in Visio 2010 at</td>
</tr>
<tr>
<td>2013</td>
<td>* Changes in Office 2013 at</td>
<td>** What's New in Visio 2013 at</td>
</tr>
</tbody>
</table>

* - Applies also to Office 365 ProPlus (Excel and Word)
** - Applies also to Visio Pro for Office 365

Windows Client Hardware

The minimum hardware requirement for running Office 2013 or Office 2016 is significantly greater than the minimum hardware requirement for Office 2010. If you are upgrading to Architect/Requirements 10.1 and also upgrading to Office 2013 or Office 2016, you may need additional hardware. If you plan to add Office 2013 or Office 2016 to your existing Windows 7 or Windows 10 system, ask your IT department to verify if the hardware is sufficient.
System Requirements references for Microsoft Office and Visio

<table>
<thead>
<tr>
<th>Release</th>
<th>Office Professional Plus</th>
<th>Visio Professional</th>
</tr>
</thead>
</table>

* - Applies also to Office 365 ProPlus (Excel and Word)
** - Applies also to Visio Pro for Office 365

Primary Interop Assemblies Redistributable Required

If .NET 4.6 is not included and Microsoft Office is installed before installing .NET, you must install a Primary Interop Assemblies Redistributable package from Microsoft. The Microsoft Office 2010 Primary Interop Assemblies Redistributable supports Office 2010, Office 2013, and Office 2016. For more information on installing the Primary Interop Assemblies, see:


Microsoft .NET Framework 4.6 Installation for Windows 7

To support Architect/Requirements client on either 32-bit or 64-bit Windows 7, you must download and install the Microsoft .NET Framework 4.6 package from the following URL:


Stencil and Diagram Formats Added with Visio 2013 Not Supported

Architect/Requirements supports integration with Visio 2013 and Visio 2016. However, the new formats for diagrams (VSDX) and stencils (VSSX) added with Visio 2013 are not supported for Visio 2013 or Visio 2016.

- Offline copies of Visio diagrams integrated with Architect/Requirements must remain in VSD format. To avoid unnecessary rework, use Visio’s Save As feature to save offline copies of Visio diagrams in the VSD format only. There is currently no plan to provide support for Visio’s VSDX format with Architect/Requirements.
• The Architect/Requirements stencil import capability continues to support the VSS format. You must not import stencils formatted in the new VSSX format into Architect/Requirements. To import a stencil formatted in the new VSSX format, save it as a VSS file.

**Known Issues**

This section describes known issues identified in Architect/Requirements.

**Client Installation Fails with Firefox 42 through Firefox 47**

Installation of the Architect/Requirements client, Live Office Diagnostics, and CHM Help can fail when launched from Firefox versions 42, 43, 44, 45, 46, and 47. The following message is displayed:

![Warning: Unresponsive plugin](image)

To avoid the issue, use Internet Explorer 11 for installing the client. Alternately, you can perform silent installation from the command line as mentioned in the Architect/Requirements User's Manual.

**Issues with Windows 7 and Windows 10 clients**

Architect/Requirements client installation can fail on Windows 7 and Windows 10 with an error referring you to the Java Console. The installation fails due to the Microsoft User Access Control (UAC) which is a part of the Operating System security. It protects the system by limiting Registry Access and System Directory Access on a Windows computer. Even with Administrator rights, the UAC prompts you for every action. Parts of the Architect/Requirements installation are silent, hence, there are no prompts but the UAC causes the installation to fail.

You can do one of the following to prevent the UAC from blocking the installation of Architect/Requirements:

• Configure the UAC to allow the necessary access for application installation. This requires a high level of knowledge of UAC customization.

  For more information on customizing UAC, navigate to [http://technet.microsoft.com/en-us/default.aspx](http://technet.microsoft.com/en-us/default.aspx) and search for UAC.

• Disable the UAC in the operating system. Although disabling UAC allows the installation of the Architect/Requirements client, it may not be approved by your Information Technology (IT) Department.

  For more information on disabling UAC, navigate to [http://technet.microsoft.com/en-us/default.aspx](http://technet.microsoft.com/en-us/default.aspx) and search for UAC.

• Bypass the UAC for the Internet Explorer instance that is used to install the Architect/Requirements client. However, you must have the Local Administrator rights to the computer to bypass the UAC.
To bypass the UAC for the Internet Explorer

1. Right click the Internet Explorer icon in the Quick Launch bar.

2. Select Run as Administrator.

   Internet Explorer runs with UAC disabled for that instance.

3. Navigate to the Architect/Requirements home page and click Launch TcSE to begin the installation.

Document Front Matter is Imported as Requirements (PR 6427144)

On importing a document that has a title page, Table of Content (TOC), pages with a tables, and document content with and without the Shall keyword, the title page, the TOC, and the page with the table are also imported as requirements in Architect/Requirements.

In documents that contain data formatted in a Body Text style, such as the Normal style, before the first heading, the first heading is converted into a requirement instead of a paragraph. The rest of the document imports correctly.

Web Application Platforms with HTTP-only enabled cause Teamcenter Security Services to Fail

The HTTP-only flag must be disabled for any Web application platform where the Teamcenter Security Services (TcSS) is installed. TcSS fails if the HTTP-only flag is enabled. HTTP-only is enabled by default, for 12.2.1 (12cR2), WebSphere 8.5.5.9, and Tomcat 8. You must disable the HTTP-only flag if you are using either of these platforms.

For more information, refer to Appendix B of the Systems Architect/Requirements Management System Administrator's Manual.

Use of multiple multilevel lists during export causes formatting loss (PR 1878351)

The text content of requirements and notes is processed using Microsoft Word’s single file web page (mhtml) format. When Microsoft Word mhtml file content is generated for edit or export, style references in requirements and notes need to be resolved. The document template used for the edit or export specifies a style sheet that has the style definitions. For numbered and bulleted list styles, it is not always possible to resolve the styles. This is due to the unusual way numbered and bulleted list styles are defined in Word mhtml format. Sufficient information to automatically correct the list styles is not present. To work around this issue, activator events have been defined to enable custom list style correction.

The related issues of numbered and bulleted list styles not appearing in Word edit sessions and Word exports from searches and reports has been fixed with PRs 6286955 and 6648739.
Chapter 4: Closed Problem Reports

Closed Problem Reports for Architect/Requirements 10.1 ......................... 4-1
Chapter 4: Closed Problem Reports

This chapter itemizes the problem reports closed since the release of Architect/Requirements 10.1.

Closed Problem Reports for Architect/Requirements 10.1

Architect/Requirements 10.1 corrects the problem reports listed in table 4–1.

<table>
<thead>
<tr>
<th>Release</th>
<th>PR Number</th>
<th>Problem</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.1</td>
<td>7299935</td>
<td>Client log contains extraneous message.</td>
<td>An invalid error message Child id:tcr:Edit.CopyBtnPictureSys Clipboard - type:button not found that appeared at the start of the client log file has been fixed. The error message does not appear in the log file.</td>
</tr>
<tr>
<td>10.1</td>
<td>7447843</td>
<td>Externally configured project import can fail.</td>
<td>The issue where importing a project using an external import/export configuration failed is now fixed.</td>
</tr>
<tr>
<td>10.1</td>
<td>7639015</td>
<td>Search button stops showing results and gives a stack dump in the client log.</td>
<td>The problem where an advanced search failed is fixed. Immediately after starting the client, advanced search failed due to an uninitialized view. The advanced search view is now properly initialized.</td>
</tr>
<tr>
<td>10.1</td>
<td>7679994</td>
<td><strong>Move To Top</strong> option is not reflected in the query view.</td>
<td>There is now an indication in advanced search queries that the <strong>Move to Top</strong> option is selected. <strong>FOREACH ADD</strong> statements now include the word <strong>TOP</strong> when <strong>Move to Top</strong> is selected.</td>
</tr>
<tr>
<td>10.1</td>
<td>7685459</td>
<td>Visio 2013/2016 Stencil and Diagram format.</td>
<td>The issue with preventing unsupported Visio file formats from being imported is fixed.</td>
</tr>
</tbody>
</table>
Chapter 5: Certifications

Certifications

5-1
Chapter 5: Certifications

Certifications

Architect/Requirements is a 64-bit application. Both the application server and the database server must be a 64-bit deployment. For a 64-bit Architect/Requirements installation, 64-bit hardware, a 64-bit operating system, and a Web server such as WebLogic, WebSphere, or Tomcat are required. The Architect/Requirements components can be installed on the following operating systems:

• Microsoft Windows Server 2008 R2

• Windows Server 2012 R2

For information about versions of operating system, third-party software, and Teamcenter software that are certified for your platform, see the Siemens PLM Software Certification Database at:

http://support.industrysoftware.automation.siemens.com/certification/tc_se.shtml
Index

C
Closed problem reports
  Architect/Requirements ............... 4-1
Code conventions ........................ 8
Command line entry conventions ....... 8
Conventions
  Code .................................... 8
  Command line entries .................. 8
  File contents .......................... 8
  Names .................................. 7
  Values .................................. 7

F
File contents conventions .............. 8

G
Global Technical Access Center
  (GTAC) .................................. 1-3

H
Help, technical .......................... 1-3

K
Known issues
  Use of multiple multilevel lists during
  export causes formatting loss (PR
  1878351) ............................... 3-5
Known issues, Architect/Requirements previous
  releases ............................... 3-4

N
Name conventions ........................ 7

O
Open issues

Use of multiple multilevel lists during
  export causes formatting loss (PR
  1878351) ............................... 3-5
Operating system levels ................. 1-1

P
Problem reports, closed
  Architect/Requirements ............... 4-1

R
Release content ........................ 1-1
Release support ........................ 1-1

S
Systems Architect/Requirements Management
  Release Notes ........................ 3-1
Systems Architect/Requirements Management
  Manual set ............................ 8

T
Technical help .......................... 1-3
Technical manuals ........................ 8
Third-party products
  Applications support information .... 1-2
  Compatibility .......................... 1-1

U
UGAnswer ................................ 1-2
Use of multiple multilevel lists during export
  causes formatting loss (PR 1878351) .... 3-5

V
Value conventions ........................ 7
Siemens Industry Software

**Headquarters**
Granite Park One  
5800 Granite Parkway  
Suite 600  
Plano, TX 75024  
USA  
+1 972 987 3000

**Europe**
Stephenson House  
Sir William Siemens Square  
Frimley, Camberley  
Surrey, GU16 8QD  
+44 (0) 1276 413200

**Americas**
Granite Park One  
5800 Granite Parkway  
Suite 600  
Plano, TX 75024  
USA  
+1 314 264 8499

**Asia-Pacific**
Suites 4301-4302, 43/F  
AIA Kowloon Tower, Landmark East  
100 How Ming Street  
Kwun Tong, Kowloon  
Hong Kong  
+852 2230 3308

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