

Teamcenter 11.1 Systems Engineering and Requirements Management

Systems Architect/ Requirements Management Release Bulletin

Manual History

Manual Revision	Teamcenter Requirements Version	Publication Date
A	3.0.1	May 2003
B	4.0	December 2003
C	4.1	February 2004
D	5.0	July 2004
E	5.1	October 2004
F	6.0	March 2005

Manual Revision	Teamcenter Systems Engineering and Requirements Management Version	Publication Date
G	2005	September 2005
H	2005 (SR1)	July 2006
I	2007	December 2006
J	2007.1	April 2007
K	2007.2	September 2007
L	2007.3	January 2008
L1	2007.3.1	April 2008
L2	2007.3.2	July 2008
M	8	January 2009
N	8.0.1	June 2009
O	8.1	October 2009
P	8.2	November 2010
Q	9	July 2011

Manual Revision	Teamcenter Systems Engineering and Requirements Management Version	Publication Date
R	9.1	May 2012
R1	9.1.5	April 2014
S	10.0	January 2015
T	10.0.1	January 2016
U	10.0.2	March 2016
V	10.1	September 2016
W	10.1.1.1	February 2017
X	11.1	March 2018

This edition obsoletes all previous editions.

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Preface

This manual describes features introduced with Teamcenter Systems Architect/Requirements Management 11.1. 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.

Chapter 1: Introduction

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

The *Systems Architect/Requirements Management Server Installation Manual for Windows*, the *Systems Architect/Requirements Management System Administrator's Manual*, and the *Systems Architect/Requirements Management User's Manual* document the minimum version of operating systems, compilers, databases, client browsers, and other third-party software with which Systems Architect/Requirements Management 11.1 is compatible. Because Systems Architect/Requirements Management releases are asynchronous with the release of compatible third-party software, it is possible for Systems Architect/Requirements Management customers to acquire and install a newer version of third-party software before Siemens PLM Software has the opportunity to certify it.

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 relinking 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.

For information about the lowest version of software with which Systems Architect/Requirements Management 11.1 runs, see the *Systems Architect/Requirements Management Server Installation Manual for Windows*, the *Systems Architect/Requirements Management System Administrator's Manual*, and the *Systems Architect/Requirements Management User's Manual*. Although Systems Architect/Requirements Management might run using a lower level of software, keep in mind that we strongly discourage running at lower levels and that we will not provide support to anyone doing so.



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:

http://www.plm.automation.siemens.com/en_us/support/gtac/

Chapter 2: New Features

New Features

This chapter briefly describes new Architect/Requirements 11.1 features.

What's New for Users

Support for Windows 10

Architect/Requirements 11.1 provides support for following versions of Windows 10:

- 32-bit
- 64-bit

Applet Free Browser Support

Architect/Requirements 11.1 is “applet free”,and no longer requires the Java plug-in. The following browsers are supported:

- Microsoft Internet Explorer 11
- Mozilla Firefox 58

Support for .NET 4.7

Architect/Requirements 11.1 provides support for .NET 4.7 on:

- 32-bit Windows 7 or 10
- 64-bit Windows 7 or 10

What's New for Project Administrators

No changes for this release

What's New for System Administrators

Additional data for migration to the Unified Architecture.

Systems Engineering data, including building blocks, connections, and ports, can now be migrated to the Unified Architecture application. For information on migrating to the Unified Architecture, contact Global Sales and Services.

Web Application Server (WAS) Certifications

Architect/Requirements 11.1 supports the following WAS platforms:

WAS	Server JRE
Tomcat 8.5.24	Oracle 64-bit JRE 8u161
Weblogic 12cR2 (12.2.1)	Oracle 64-bit JRE 8u161
WebSphere 8.5.5.12	IBM 64-bit Java 1.8

Action Versant Object Database Added

- V.O.D 9.3.0.12 on Windows servers.

Server Operating System Support Added

- Microsoft Windows Server 2016

Word.autosave Configuration Parameter Added (PR 8947609)

The web application configuration parameter, Word.autosave , is added for Architect/Requirements 11.1. If Word.autosave is set to true (the default), the Microsoft Word AutoSave feature is used to regularly save changes to the database when requirements data is edited with Microsoft Word.

If Word.autosave is set to false, though, AutoSave will be disabled while editing TcSE objects. This gives users more complete control of what is saved to the database by preventing incomplete changes from being saved at a fixed time interval.

Applet-free browsing use of 32-bit Java web start

To implement the applet-free browsing feature for the Architect/Requirements 11.1 client, functionalities previously implemented as Java applets have been migrated to instead use Java web start. Those include, for example:

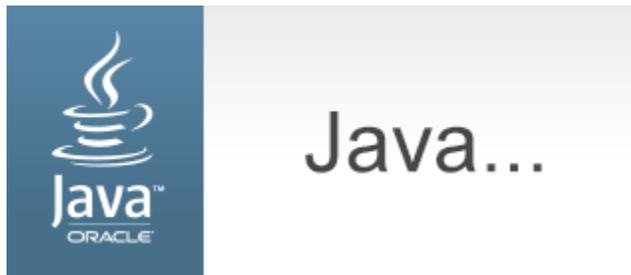
- Client launch from the home page
- Hyperlinks that launch saved search reports in Excel or Word.

The applet-free browsing feature does not introduce changes to functionalities that require re-training.

There is a minor difference in how these functionalities are initiated, given that Java web start runs independently of the browser. On first use, the browser will prompt the user to allow execution of the **Java™ Web Launcher** on your computer. The user must allow this in order for the application to load:

- Microsoft Internet Explorer will prompt with a dialog asking “Do you want to allow this website to open a program on your computer?”. The user should click the “Allow” button to proceed. The choice can be remembered if the user un-checks the box labeled “Always ask before opening this type of address”.
- Mozilla Firefox will prompt with a “Launch Application” dialog. The user should click the “Open Link” button to proceed. The choice can be remembered if the user checks the box labelled “Remember my choice”.

When launching the client, the user will briefly see a status indicator, although it requires no user interaction:



The initial client launch will be slower than with the applet implementation, but subsequent launches will be slightly faster than the initial launch if Java caching is enabled. Once launched, the client runs in a free standing Java process, and its performance is not affected by applet-free browsing.

A technical difference from the applet implementation is that Java web start initiates processes using **jp2launcher.exe** instead of **java.exe**. In a production environment, the **jp2launcher.exe** process should exit once the client is launched.

In test environments, testers should be certain to clear the caches, and ensure that no **jp2launcher.exe** processes are running when transitioning between test configurations. When testing with applets, caches also needed to be cleared at this point, although browser processes were exited in order to terminate the Java plug-in processes. Since the Java plug-in is no longer used, exiting browsers is not necessary, unless that step is relied upon to reset the cache.

Chapter 3: Release Notes

Release Notes

This chapter contains general release notes and briefly describes known issues for Architect/Requirements 11.1.

Install compatible Java

Architect/Requirements 11.1 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.

Architect/Requirements client supported only with 32-bit Java 8

Recently, Oracles has made fundamental changes in the Java support model. These changes include:

- 32-bit JREs are not included with Java 9 and higher releases.
- Java Web Start will not be supported with Java 9 and higher releases.

Due to these changes, applications such as the Architect/Requirements client cannot run on Oracle Java 9 or higher . As a result:

- The Architect/Requirements 11.1 client will be supported exclusively on the 32-bit Java 8 JRE.
- The Architect/Requirements 11.1 client will not be supported on Java 9 or higher releases.

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 application is **Teamcenter Systems Engineering**.

Excel Live File Format Change

The format of Excel Live files was 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 11.1. You must export these existing Live Excel files again in Architect/Requirements 11.1.

Matlab Interface Removal

The Matlab interface is removed as of Architect/Requirements 11.1 as foretold in SFB-TcSE-9682. For this reason, Matlab specific commands are no longer present in the Architect/Requirements client menus. Existing Matlab objects are preserved, but can no longer be opened. Attempts to open Matlab objects will either be ignored, or will result in an error dialog indicating the Matlab interface is not installed. The corrective action, attempting an installation, should be declined by selecting Cancel. Otherwise, an additional error message due to the missing installer JSP which follows can be safely disregarded.

Constraints for Supporting Microsoft Office Integration

Architect/Requirements provides integration with versions 2013 and 2016 of the Microsoft Office Professional editions subject to the following constraints:

- **Supported Microsoft Office Packages**

Product	Professional	Office 365
Office	32-bit Office Professional Plus	32-bit Office 365 ProPlus
Visio	32-bit Visio Professional	32-bit Visio Pro for Office 365

- **Limitations of Support for Microsoft Office Packages**

All Packages	Office 365 Packages
Only versions 2013 and 2016 are supported.	Only the PC device is supported.
64-bit formats are not supported.	Offline installation is supported for all Office 365 packages included above..
Home and student editions are not supported	Over-the-web installation is supported for Office 365 ProPlus version 2016, but not for version 2013.

- **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

Release	Office Professional Plus	Visio Professional
2013	* Changes in Office 2013 at https://technet.microsoft.com/en-us/library/cc178954(v=office.15).aspx	** What's New in Visio 2013 at https://support.office.com/en-us/article/What-s-new-in-Visio-11656535-2345-491d-bb9a-bef0141180f7

Release	Office Professional Plus	Visio Professional
2016	* What's new and improved in Office 2016 at https://support.office.com/en-us/article/What-s-new-and-improved-in-Office-2016-29d7e38e-ef06-4d9c-a476-03d896928b2f	** What's New in Visio 2016 at https://support.office.com/en-us/article/What-s-new-in-Visio-2016-798f4f39-2833-486b-9ae9-55162672102e

* - 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 11.1 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

Release	Office Professional Plus	Visio Professional
2013	* https://technet.microsoft.com/en-us/library/ee624351(v=office.15).aspx	** https://products.office.com/en-us/visio/microsoft-visio-faq-diagram-software?legRedirect=true&CorrelationId=d383e71d-bc7d-4ea1-af39-28bf8a2ecad3# , search for system requirements for Visio and click the link.
2016	* Open https://products.office.com/en-us/office-system-requirements , search for Office Professional Plus 2016 and click the link.	** Open https://products.office.com/en-us/office-system-requirements , search for Visio 2016 and click the link.

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

** - Applies also to Visio Pro for Office 365

Primary Interop Assemblies Redistributable Required



This applies to Office 2013 only. It is not applicable to Office 2016.

If .NET support 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 2013. For more information on installing the Primary Interop Assemblies, see:

[http://msdn.microsoft.com/en-us/library/kh3965hw\(v=vs.100\).aspx](http://msdn.microsoft.com/en-us/library/kh3965hw(v=vs.100).aspx)

Microsoft .NET Framework Package Installation for Windows 7

To support Architect/Requirements client, each 32-bit and 64-bit Windows 7 system must include a Microsoft .NET Framework package version 4.5, 4.6, or 4.7. If one of these is not already included, you must download and install it. You can either request one from your IT department, or download it from Microsoft and install it.

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. Stencils formatted in the new **VSSX** format into Architect/Requirements cannot be imported directly. To import a stencil formatted in the new **VSSX** format, you must first open it in Visio and save it as a **VSS** file.

Known Issues

This section describes known issues identified in Architect/Requirements.

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> 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> 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

- . Right click the **Internet Explorer** icon in the **Quick Launch** bar.
- . Select **Run as Administrator**.
Internet Explorer runs with UAC disabled for that instance.
- . 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.

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

This chapter itemizes the problem reports closed since the release of Architect/Requirements 11.1.

Closed Problem Reports for Architect/Requirements 11.1

Architect/Requirements 11.1 corrects the problem reports listed in table 5--1.

Release	PR Number	Problem	Description
11.1	7710750	Upon Save, Word goes behind TcSE window	The problem where MW Word goes behind the TcSE client upon a save is fixed.
11.1	7921676	Issue with image	"A problem where images are missing in some Word document exports has been addressed. An activator in an object template can return rich text content from another requirement or note by referencing the HTML property. Images in the referenced object are not automatically included in the Word export. A new Tcl command has been added to support this case. To inform the export process that images from an object are needed use the ""setEnvironment includeImages"" command. For example: setEnvironment includelImages [list \$otherRequirement] return [getValue \$otherRequirment HTML]

Release	PR Number	Problem	Description
11.1	7968362	Menu Items Missing	The problem where Menu Items were not created in project or schema imports is fixed.
11.1	8002433	Number Sorting Issue	An issue with improper sorting after modifying the number property has been fixed. When the Number property of a requirement or building block was changed and the view was sorted by Number the sort order would be incorrect. The modified object is now moved to the correct sorted position.
11.1	8007138	Excel_Live Cancel Operation	The problem where Excel Live is disconnected when the user cancels the Excel close dialog has been fixed.
11.1	8715398	Excel Live Incomplete Update	The problem where an Excel Live session results in an incomplete update is fixed.
11.1	8802177	Excel export failure with some Excel templates	Exports using an Excel template that has a legacy drawing element failed. Legacy drawing elements are now processed correctly.
11.1	8885725	Icon Overlay on Building Blocks - Architect License	The problem where users without an architect license could not set an icon overlay on a building block is fixed.
11.1	8947609	Word Auto-Recover Saves Changes to Database without User Authorization	<p>The web application configuration parameter, Word.autosave , is added. When set to true (the default), Word AutoSave regularly saves changes to the database as requirements data with Word.</p> <p>If Word.autosave is set to false, AutoSave will be disabled while editing TcSE objects, giving users more complete control of what is saved to the database.</p>

Release	PR Number	Problem	Description
11.1	8959297	App server issues a log4j WARN message upon every startup	<p>Log messages from the Axis package were not captured. Axis logging is now configured. Log messages are written to the console and will be captured in the application server's console log file. Log level is set to WARN.</p> <p>Axis logging is configured in log4j.xml. If needed, that file can be modified to change the log level or output location.</p>
11.1	9040319	sys eng: unable to get excel Live to work with MSoffice 2016	The issue where Excel Live fails against a full installation of Office 365 ProPlus version 2016 if fixed.
11.1	9066774	Single choice property with multiple choices selected	Maintaindb now reports the problem where a single choice attribute has multiple choices selected. A multi-choice attribute definition can be changed to single-choice in the administration module. When this is done it is possible that existing attribute occurrences with multiple selections remain.

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 2012 R2
- Microsoft Windows Server 2016

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

Support Removed as of Architect/Requirements 11.1

The following were certified in previous releases, but are no longer supported as of the Architect/Requirements 11.1 release:

Client Environments

- Microsoft Office Professional Plus 2010 (Excel and Visio)
- Microsoft Visio Professional 2010
- 32-bit Mathworks Matlab (all versions, please SFB-TcSE-9682)

Server Environments

- V.O.D 8.0.2 on Windows and Solaris servers.
- Microsoft Windows Server 2008 R2 server operating system
- Solaris 10 server operating system

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