

Preface

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SIMATIC IT Unilab 6.7

Prerequisites

Installation Manual

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Guidelines

This manual contains notes of varying importance that should be read with care; i.e.:

Important

Contains essential information regarding handling the product, the product itself or a specific part of the documentation.

Note Provides supplementary information regarding handling the product, the product itself or a specific part of the documentation.

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We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

Preface

Where is this manual valid?

This manual is valid for release 6.7 of SIMATIC IT Unilab.

Basic knowledge required

This guide is intended for SIMATIC IT Unilab users who are responsible for system configuration, such as application managers and system integrators (consultants). To be able to understand the concepts and examples discussed in this guide, the reader should at least have taken the SIMATIC IT Unilab Basic Training.

Purpose

This document explains the software and hardware prerequisites for the SIMATIC IT Unilab server and client installation.

Important

This guide does not intend to describe how to install the Unilab client and server. For more information concerning the concepts of installing Unilab, please refer to the installation manuals.

Related documentation

The SIMATIC IT Unilab Installation Manual contains information related to the content of this document.

This document is available online from the SIMATIC IT Unilab Documentation Library.

Conventions

The table below describes the specific typographic conventions that are used throughout this manual:

Symbol/Convention	Indicates...
E.g.	Where examples are given.
Text in bold	The names of menus, commands, dialog boxes and toolbar buttons and, in general, all strings (e.g. File menu; Save command).
KEY1+KEY2	Shortcut keys, which permit rapid access to commands (e.g. CTRL+C).
UPPERCASE	The names of keyboard keys (e.g. RETURN key).

Symbol/Convention	Indicates...
<i>Italics</i>	The names of parameters that must be replaced with a specific name or value. E.g. <i>filename</i> indicates that the name of the file must be specified; <i>input</i> indicates that the corresponding value must be specified.
>	A succession of commands in which the command preceding the symbol must be selected before the command following it.

SIMATIC IT Documentation Library

The SIMATIC IT Unilab Documentation Library provides you with a comprehensive and user-friendly interface to access the overall product documentation where manuals and online helps can be browsed by functionality or by component.

Readme

The installation includes a readme file, which contains information on upgrade procedures and compatibility with previous releases. This file is supplied both in standard text (**Readme.wri**) and in Acrobat PDF (**Readme.pdf**) format.

This file is available in folder \ReleaseNotes of the setup DVD and is available from the SIMATIC IT Unilab Documentation Library.

SIMATIC IT Training Center

Siemens IA AS MES offers a number of training courses to familiarize you with the SIMATIC IT product suite. To successfully achieve this goal, training consists of lessons in both theory and practice.

Courses are held year-round, according to a program that is published well in advance of the first scheduled session.

The material on the basis of which our courses are conducted reflects the result of years of experience in process, LIMS, quality control and production management.

All courses are held by expert personnel that are aware of the developments and innovations in the Siemens IA AS MES product suite.

Courses are held in English at the Siemens IA AS MES Training Centers.

Upon request, training courses can also be organized on the customer's premises.

For more information on the training course calendar, please visit our technical web site (<http://www.siemens.com/simatic-it/training>).

SIMATIC IT Service & Support

A comprehensive Software Maintenance program is available with SIMATIC IT products. Software Maintenance includes the following services:

- **Software Update Service (SUS):** automatic distribution of upgrades and service packs
- **Technical Support Service (TSS):** support on technical problems with SIMATIC IT software (standard support and other optional services)
- **Online Support:** a technical web site, providing information such as Frequently Asked Questions and technical documentation on SIMATIC IT products

Software Update Service (SUS)

This service provides automatic shipment of new versions and service packs when released. When a new version / service pack is available for shipping, it is typically shipped within one month.

One copy of the installation DVD is shipped for each Server covered by Software Maintenance.

Hot fixes (officially tested and released) are not shipped and must be downloaded from the Technical Support Service web site.

Technical Support Service (TSS)

Siemens provides a dedicated technical support team for SIMATIC IT products.

The following options are available:

Bronze support: 9 hours/day, 5 days/week

Silver support: 24 hours/day, 5 days/week

Gold support: 24 hours/day, 7 days/week

The principal language of the SIMATIC IT hotline is English.

SIMATIC IT partners and customers covered by the Software Maintenance program are entitled to direct access to the TSS.

Access to TSS

To be able to access TSS, the customer needs to register as a user on the Technical Support web site. Connect to <http://www.siemens.com/mes-simaticit/> and follow the **Technical Support Service** link.

The registration form must be completed with:

- Personal data
- The required company and plant information
- The Contact Number provided by Siemens Back Office when the contract is agreed.

Online Support

A customer who is a registered TSS user, can access the Technical Support Web site (<http://www.siemens.com/mes-simaticit/tss>), which contains technical information such as:

- Service conditions (Phone numbers, Working hours, Reaction times, ...)
- SIMATIC IT knowledge base: a technical support database that includes practical service solutions from Technical Support or the SIMATIC IT community
- SIMATIC IT software (e.g. hot fixes, software examples) and release notes that can be downloaded
- SIMATIC IT cross-industry libraries that can be downloaded (limited access to SIMATIC IT certified partners)
- SIMATIC IT product documentation that can be downloaded
- Frequently Asked Questions and useful tips

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1 Introduction

SIMATIC IT Unilab has client-server architecture (2-tier); this means that part of the product needs to be installed on a server and another part of the product needs to be installed on each client. This document describes the constraints and pre-requisites that are required to be able to install Unilab Client/Server successfully.

SIMATIC IT Unilab also has a Web-enabled application (3-tier) for which a Web server needs to be installed on a server. This document describes the constraints and pre-requisites that are required to be able to install Unilab Web successfully.

A platform is a combination of hardware, an operating system and a version of the database server.

This document contains the snapshot of the supported platforms at release time. Additional platforms may be added, or some platforms may even be withdrawn. For an up to date version, please refer to www.siemens.com/mes-simaticit/tss and check the documentation area.

2 Software Prerequisites

2.1 Unilab Database Server (RDBMS)

Component	Prerequisites
Operating System	Microsoft Windows Server 2008 R2 Microsoft Windows Server 2012 Microsoft Windows Server 2012 R2 Unix/Linux
RDBMS	Oracle 11.2.0 Oracle 12.1.0

Note

RDBMS Server

SIMATIC IT Unilab does not interact directly with the Operating System of the RDBMS server, with the exception of some scripts executed during installation.

Any version of Operating Systems (OS) can be considered, if it is supported by the Oracle version that is going to be installed / used. This applies for Unix, Linux and Windows servers. Up-to-date information about which OS versions Oracle supports must be obtained from your Oracle supplier.

The installation scripts have been tested on CentOS 6.5 platform in RAC configuration, as well as on Windows 2008 R2 Server and on Windows 2012 Server. No issues are expected on other platforms. In any case, the installation scripts can be customized so as to permit their correct operation on your specific platform. However, IA AS MES only guarantees the proper functioning of the standard delivered scripts on the CentOS 6.5 platform and on Windows 2008 R2 Server and on Windows 2012 Server.

For information regarding the Database Setup Utility, which is used to generate the installation scripts, please see the Unilab Installation manual and the Release Notes for this Unilab version.

Note

Oracle 12c – Built-In_user support as Oracle Home User

Due to the fact that the Oracle windows service is automatically restarted during installation, for the Oracle Home User we support only the Built-In_user.

Note

Oracle 11.2.0.3 not supported

Due to Oracle Bug 13612575, we are unable to support release 11.2.0.3.

Abstract: ORA-600 [15419] IN 11.2.0.3.

Note**Oracle functionalities**

SIMATIC IT Unilab server is running inside the Oracle RDBMS, and makes extensive use of Oracle functionalities, including, but not restricted to:

- PL/SQL packages
- DB jobs scheduler
- Java Virtual Machine
- Database alerts

Note**Unix & Linux**

Unilab has been improved and tested (with CentOS 6.5) to support Oracle RAC configurations

2.2 Unilab DB Installer

Component	Prerequisites
Operating System	Microsoft Windows 7 Microsoft Windows 8 Microsoft Windows 8.1 Microsoft Windows Server 2008 R2 Microsoft Windows Server 2012 Microsoft Windows Server 2012 R2
RDBMS	Oracle 11.2.0 Oracle 12.1.0
.Net	.NET Framework V4.0

Note

RDBMS is only needed for local installations (Demo DB).

2.3 Unilab Full Client

Component	Prerequisites
Operating System	Microsoft Windows 7 Microsoft Windows 8 Microsoft Windows 8.1 Microsoft Windows Server 2008 R2 Microsoft Windows Server 2012 Microsoft Windows Server 2012 R2
Oracle client	ODP.NET 4.11.2.0.2 as part of ODAC 11.2.0.2 or Oracle full client 11.2.0.2

.Net	.NET Framework V4.0
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Note

Oracle Client is either installed or available as a package.

A Free Oracle Web Account is needed for the ODAC download.

2.4 Unilab Web Client

Component	Prerequisites
Operating System	Microsoft Windows 7 Microsoft Windows 8 Microsoft Windows 8.1 Microsoft Windows Server 2008 R2 Microsoft Windows Server 2012 Microsoft Windows Server 2012 R2
Oracle client	ODP.NET 4.11.2.0.2 as part of ODAC 11.2.0.2 or Oracle full client 11.2.0.2
Web Browser	Microsoft Internet Explorer 8.0 Microsoft Internet Explorer 9.0 Microsoft Internet Explorer 10.0 Microsoft Internet Explorer 11.0

Note

Oracle Client is either installed or available as a package.

A Free Oracle Web Account is needed for the ODAC download.

2.5 Unilab Web Server

Component	Prerequisites
Operating System	Microsoft Windows Server 2008 R2 Microsoft Windows Server 2012 Microsoft Windows Server 2012 R2
IIS Version	Microsoft IIS 7.5 Microsoft IIS 8.0 Microsoft IIS 8.5
Oracle client	ODP.NET 4.11.2.0.2 as part of ODAC 11.2.0.2 or Oracle full client 11.2.0.2
.Net	.NET Framework V4.0
XML parser	Microsoft MSXML 6.0

Note

Oracle Client is either installed or available as a package.

A Free Oracle Web Account is needed for the ODAC download.

2.6 Custom Development

Component	Prerequisites
Development tool	Microsoft Visual Studio 2012 Professional edition or higher
Oracle client	ODP.NET 4.11.2.0.2 as part of ODAC 11.2.0.2 or Oracle full client 11.2.0.2

Note

This is needed for advanced customizations in C++ or VB.NET.

Oracle Client is either installed or available as a package.

A Free Oracle Web Account is needed for the ODAC download.

2.7 XML Web Service

Component	Prerequisites
Operating System	Microsoft Windows 7 Microsoft Windows 8 Microsoft Windows 8.1 Microsoft Windows Server 2008 R2 Microsoft Windows Server 2012 Microsoft Windows Server 2012 R2
Oracle client	ODP.NET 4.11.2.0.2 as part of ODAC 11.2.0.2 or Oracle full client 11.2.0.2
Web Browser	Microsoft Internet Explorer 8.0 Microsoft Internet Explorer 9.0 Microsoft Internet Explorer 10.0 Microsoft Internet Explorer 11.0
.Net	.NET Framework V4.0 MS Web Services Enhancements. V2.0

Note

Oracle Client is either installed or available as a package.

A Free Oracle Web Account is needed for the ODAC download.

MS Web Services Enhancements V2.0 can be downloaded from:

<http://msdn.microsoft.com/webservices/building/wse/>

2.8 SAP QM-IDI I/F

Component	Prerequisites
Client	Client 4.6C
Server	Server (incl. QM-IDI Interface) 4.6C
SIMATIC IT DIS	DIS on Services 6.7

Note

Disable the Unicode option in the DIS connector configuration.

2.9 Pocket PC / PDA

Component	Prerequisites
Operating System	Windows Mobile 5.1, 6.0, 6.1 & 6.5
.NET on Pocket PC	.NET Compact Framework 2.0
Client PC	Windows Mobile Device Center

2.10 Virtualization

Component	Prerequisites
Microsoft	Windows 2008 Terminal Server R2
Citrix on Microsoft Windows	Citrix XenApp Application Server 6.5 Citrix XenApp Application Server 7.5

2.11 Reporting

Component	Prerequisites
SIMATIC IT Report Manager	Report Manager V6.7

3 Hardware Requirements

3.1 Overview

The table below lists the minimum hardware requirements for SIMATIC IT Unilab 6.7.

3.1.1 Unilab Database Server (RDBMS)

Component	Prerequisites
Memory	2 GB + 32 MB per active user
Processor Speed	Minimum: 2.0 GHz Recommended: 3 GHz or faster
Disk Space	6 GB

Note

- The memory requirements do not include the required memory for the OS or other prerequisite applications.
 - The required Disk Space does not include the disk space needed for prerequisites.
 - This is the minimum Disk Space necessary for the database files of a production database.
 - The required Disk Space depends on user data; in the Unilab Server Installer tool, a parameterized calculation of the required Disk Space is available.
 - Demo databases can be created using less Disk Space.
-

3.1.2 Unilab Full Client

Component	Prerequisites
Memory	1 GB
Processor Speed	Minimum: 1.0 GHz Recommended: 2 GHz or faster
Disk Space	500 MB

Note

The required Disk Space does not include the Disk Space needed for prerequisites.

3.1.3 Unilab Web Client

Component	Prerequisites
Memory	1 GB
Processor Speed	Minimum: 1.0 GHz Recommended: 2 GHz or faster
Disk Space	10 MB

Note

The required Disk Space does not include the Disk Space needed for prerequisites.

3.1.4 Unilab Web Server

Component	Prerequisites
Memory	#users GB
	<50 0.5
	<100 1
	<300 2
Processor Speed	Minimum: 1.0 GHz Recommended: 2 GHz or faster
Disk Space	300 MB

Note

The required Disk Space does not include the Disk Space needed for prerequisites.
