

QualiWare 6.2

System Requirements

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Preface

This document describes the hardware and operating systems requirements necessary to run QualiWare Execution Framework, QualiWare Integration Server and QualiWare Lifecycle Manager version 6.0.

History

Revision	Date	Changes
2.2	07.05.2015	Updated to QualiWare 6.2
2.1	16.10.2014	Windows Server 2012 R2 and SQL Server 2014 added
2.0	27.01.2014	Updated to version 6.0. <ul style="list-style-type: none"> - Windows server x86 (32-bit) support removed - SQL server 2005 support removed if using SBW - Windows 8 change to 8.x to include 8.1 - IE 11 added (only compatibility mode supported) - Recommended QLM hardware increased to I3 CPU
1.5	23.05.2013	Release QLM 5.5.11/QIS 1.2.4 Added: Windows 8 and Windows Server 2012, SQL Server 2012. Change: Firefox might require customizations.
1.4	21.12.2011	Release 1.2.3
1.3	23.04.2011	Release 1.2
1.2	14.04.2011	Updated with QLM and QEI

1.1	04.01.2011	Updated
1.0	02.09.2010	First release

Network installation

Workstations/Clients

Software

There are two types of client: browser and QLM application.

Browser client

Operating system*	Additional requirements
Windows Vista	Internet Explorer 9,10**
Windows 7	Internet Explorer 9,10,11**
Windows 8.x	Internet Explorer 10,11**

* x86 and x64 as well.

**IE8 is supported, however not all functionality will be available. Other browsers like IE7, Firefox, Chrome, etc will require customizations to achieve desired performance and/or features.

Notes:

1. Low-speed broadband (>256 Kbps) is enough for the browser.
2. **Single Sign On** (SSO) feature works only if both QIS server and a client computer are in the same domain.
3. .Net framework is not required for work by browser client.

QLM application client

Operating system*	Additional requirements
Windows Vista	.Net 4.0 Client Profile
Windows 7	.Net 4.0 Client Profile
Windows 8.x	.Net 4.0 Client Profile

* x86 and x64 as well.

Notes: LAN connection between QLM and server is recommended.

Hardware

Browser client

Please refer to your vendor's specification.

QLM application client

	Minimum*	Recommended*
CPU	Single-core 1 GHz CPU or equivalent	I3 or equivalent
RAM	1 GB	4 GB

HDD	300 MB	300 MB
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* If operating system has higher requirements follow those requirements. Requirements are based on the assumption that only QualiWare Lifecycle Manager is running.

Server installations, programs

Software

Operating system	Additional requirements
Windows Server 2008 x64	IIS, .Net 4.0 Extended (or newer), ASP.Net 4.0 (or newer)
Windows Server 2008 R2	IIS, .Net 4.0 Extended (or newer), ASP.Net 4.0 (or newer)
Windows Server 2012	IIS, .Net 4.5 Extended (or newer), ASP.Net 4.5 (or newer)
Windows Server 2012 R2	IIS, .Net 4.5.1 Extended (or newer), ASP.Net 4.5.1 (or newer)

Hardware*

	Server CPU*** (or higher)	RAM (or higher)	HDD (or higher)
5-19 users**	Xeon E3110 3.0GHz+ or 2 cores in VM environment	2Gb****	600Mb of free space*****
20-49 users**	Xeon x3430 2.33GHz+ or 4 cores in VM environment	4Gb****	600Mb of free space*****
50-100 users**	Xeon x3440 2.53GHz+ or 4 cores in VM environment	8Gb****	RAID 5 or 10 high performance disks 300Mb of free space*****
>100 users**	Xeon x3440 2.53GHz+ or 8 cores in VM environment	16Gb**** *	RAID 5 or 10 high performance disks 300Mb of free space*****

*Hardware specified below is typical and can vary for certain installation.

**This does not refer to the total number of users who have access to the system but only concurrent and simultaneous users on the system. E.g. a 500 user installation will typically only have 5 to 10% users online at the same time - meaning 25 to 50 concurrent users. Typical user activity is creating/modifying/opening objects and diagrams, selecting objects by certain criteria etc. In addition, the number of simultaneous users is separate for QEP, QIS Clients and QLM. I.e. five QIS Client users and five QLM users comes to a total of 10 QEF sessions.

***It is recommended to have one CPU kernel per QEPI instance plus two cores for the system

****The amount of RAM is specified for comfortable work of QEF, QIS, QIS Clients, RA and one QEP instance. Each additional QEP instance requires additional 256-512Mb of RAM.

*****This space is needed for initial installation (QEF, QIS, QIS Clients, RA and one QEP instance). Modules update and/or static pages generation may require more free space on the same disk. Each additional QEP instance requires approx. 300Mb of free space as for clean installation. Please contact consultants for more specific requirements.

Server installations, database server*

*It is recommended to use dedicated database server. But in general there are no special restrictions against combination of QEF and database engine on the same server.

Database requirements

Database	Supported editions
Windows SQL Server 2005	Only if SBW is not used. Supported editions are: Standard and Enterprise. Express may be used for test installations.
Windows SQL Server 2008	Supported editions are: Standard, Enterprise. Express may be used for test installations if SBW is not used.
Windows SQL Server 2008 R2	Supported editions are: Standard, Enterprise and Datacenter. Express may be used for test installations if SBW is not used.
Windows SQL Server 2012	Supported editions are: Standard, Business Intelligence and Enterprise. Express may be used for test installations if SBW is not used.
Windows SQL Server 2014	Supported editions are: Standard, Business Intelligence and Enterprise. Express may be used for test installations if SBW is not used.

Required protocols are:

TCP/IP.

Hardware

Please refer to your vendor's specification.

Required disk space for repositories depends on data volume mentioned to be stored in them.

Network connection between QEF/QIS and Database:

Sufficient bandwidth should be available between the QEF/QIS and the database server to prevent degradation of performance. This is normally not an issue if the QEF/QIS is on the same LAN as the database server. Degradation of performance can occur if the network is segregated or if bandwidth limitations are imposed.

QEF/QIS/QEP server installation

Single server installation

QEF, QIS, RA, QEP as well as database server are located on the same physical server for test systems. It is important to limit the amount of memory, which the database may allocate.

Dual server installation

QEF, QIS, RA and QEP are located on one server, and database server is located on another one. This is the required setup for production systems.

User validati