

## **Hardware Requirements Guide**

SAP Business One

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**CUSTOMER**

# **SAP Business One Hardware Requirements Guide**

**Release 8.8 and higher**



# Typographic Conventions

Type Style	Description
<i>Example</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Textual cross-references to other documents.
<b>Example</b>	Emphasized words or expressions.
EXAMPLE	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.
Example	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
<b>Example</b>	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE	Keys on the keyboard, for example, F2 or ENTER.

# Document History

Version	Date	Change
1.0	2014-02-18	Release Version
1.01	2014-05-08	SAP Note 1787431 link added on XL Reporter platform support restrictions
1.02	2014-07-14	Latest News added and SAP Business One 9.1 added to the overview list and requirements updated
1.03	2014-07-23	Minimum Hardware Requirements updated
1.04	2014-08-25	Feedback on network bandwidth incorporated
1.05	2015-08-21	Processor details updated
1.06	2015-12-03	Overview updated for SAP Business One 9.2
1.07	2015-12-08	Workstation display settings updated for SAP Business One 9.0 / 9.1 / 9.2 as well as support information on Internet Explorer as stipulated by Microsoft
1.08	2016-03-09	Network bandwidth and latency information updated
1.09	2016-03-17	Network requirements for SAP HANA system replication scenarios added
1.10	2016-05-20	Microsoft Office 2016 support information and Microsoft .NET Framework 4.5.2 requirements added
1.11	2017-08-23	Overview updated for SAP Business One 9.3
1.12	2017-11-10	Referenced the Intercompany Integration Solution Sizing Guide

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# 1 Hardware Requirements Guide

The requirements listed in this document apply to SAP Business One software in general and are independent of any underlying database, Microsoft SQL Server or SAP HANA.

Note that the **minimum** hardware requirements outlined here are just recommendations to support operational processes at the lowest level. For smooth operations, any given installation should ideally have a configuration that is at market standards.

## 1.1 Disclaimer

- In general, only the **English** platform versions are supported. Platform versions in other languages are supported as long as the issue is **not specific** to the platform version in a particular language.
- SAP Business One will no longer provide any support statements on virtualization software as we consider it the virtualization vendor's responsibility to ensure operating system compatibility. SAP Business One is running on virtualization software just as it is running on non-virtualized operating system platforms.
- SAP Business One will test only major versions of Microsoft's operating systems, databases and Office software products. Service Packs delivered by Microsoft in the course of a product's lifecycle will no longer be tested separately, but will automatically be officially supported for SAP Business One.
- If you encounter an issue with any of the Microsoft product Service Packs, SAP will solve this issue on a case-by-case basis as a bug (historically low rate of occurrence).
- For inquiries concerning supported platforms, open a ticket under component **SBO-CRO-PLT** via the [SAP Business One Product Support](#) page. For platform-related information specific to the **SAP Business One XL Reporter**, read SAP Note [1787431](#).

## 2 SAP Business One

### 2.1 Minimum Hardware Requirements for Non-hosted Environments

#### 2.1.1 SAP Business One Servers

Component	8.8 / 8.81 / 8.82	9.0 / 9.1 / 9.2 / 9.3
Processor <sup>(1)</sup>	1x Intel® Pentium 4 ( or equivalent)	1x Intel® Xeon® E3 ( or equivalent)
Memory	1 GB	4 GB (minimum) 16 ~ 32 GB (recommended)
Hard Disk	System partition 0.5 GB Data partition 2 GB	System partition 5 GB Data partition 15 GB
Drive	DVD-ROM	DVD-ROM
Display	640 x 480 with 256 colors or higher	800 x 600 with 16-bit colors or higher

#### 2.1.1.1 Footnotes

<sup>(1)</sup>Dual-core processors are supported by SAP Business One on both client and server side.

## 2.1.2 SAP Business One Workstations

Component	8.8 / 8.81 / 8.82	9.0 / 9.1 / 9.2 / 9.3
Processor <sup>(1)</sup>	1x Intel® Pentium 4 ( or equivalent)	1x Intel® Core® i3 ( or equivalent)
Memory <sup>(2,3)</sup>	1 GB	2 GB (minimum) 4 ~ 8 GB (recommended)
Hard Disk	System partition 1 GB Data partition 0.5 GB	System partition 2 GB Data partition 1 GB
Drive	DVD-ROM	DVD-ROM
Display	800 x 600 with 24-bit colors or higher	1024 x 768 with 24-bit colors or higher (minimum) 1280 x 800 with 24-bit colors or higher (recommended)

### 2.1.2.1 Footnotes

<sup>(1)</sup> Dual-core processors are supported by SAP Business One on both client and server side.

<sup>(2)</sup> Some Add-Ons may require additional memory. For specific requirements, contact your solution provider. The Windows Vista operating system requires a hardware upgrade.

<sup>(3)</sup> For client workstations on which long reports are executed, it is recommended using a 64-bit client together with a high-end PC incl. large memory.

#### Recommendation

Memory consumption for Add-Ons can be significantly reduced by using the connection interface which was provided with SDK 2007 A.

## 2.2 Minimum Hardware Requirements for the Integration Component 1.0 for SAP Business One

Integration Component	1.0
Memory <sup>(1)</sup>	Database system 2 GB Operating system 1 GB Integration component 1 GB <sup>(2)</sup>

### 2.2.1 Footnotes

<sup>(1)</sup> Using a 32-bit operating system, a maximum of 1 GB memory can be assigned to the integration component for SAP Business One. For higher performance requirements usage, a 64-bit operating system is recommended, allowing using more than 1 GB memory.

<sup>(2)</sup> When using a 64-bit operating system, the default value for the integration component for SAP Business One is set to 2 GB.



## 2.3 RAM Requirements for SAP Add-Ons

Add-On	8.8 / 8.81 / 8.82	9.0 / 9.1 / 9.2 / 9.3
BTHF	10 MB ~ 15 MB <sup>(1)</sup>	Discontinued
Copy Express	25 MB ~ 80 MB <sup>(1)</sup>	Merged back into the SAP Business One application
DATEV	25 MB ~ 70 MB <sup>(1)</sup>	25 MB ~ 70 MB <sup>(1)</sup>
ELSTER	30 MB ~ 50 MB <sup>(1)</sup>	30 MB ~ 50 MB <sup>(1)</sup>
Fixed Assets	70 MB ~ 260 MB	Merged back into the SAP Business One application
Format Definition	40 MB ~ 80 MB	30 MB ~ 150 MB <sup>(1)</sup>
Intrastat	25 MB ~ 150 MB <sup>(1)</sup>	Merged back into the SAP Business One application
Outlook Integration	30 MB ~ 70 MB <sup>(1)</sup>	25 MB ~ 70 MB <sup>(1)</sup>
Payment Engine (including Cash & Bank)	110 MB ~ 130 MB <sup>(1)</sup>	110 MB ~ 130 MB <sup>(1)</sup>
XL Reporter <sup>(3)</sup>	Optional <sup>(2)</sup>	Discontinued

### Recommendation

Consult the [Intercompany Integration Solution for SAP Business One 8.82 PLO8 and Higher](#) sizing guide for more information on hardware and running the Intercompany Integration Solution.

### 2.3.1 Footnotes

<sup>(1)</sup> Use [Multiple Add-On Mechanism](#) to share DI connection through UI API.

<sup>(2)</sup> With SAP Business One Release 8.8, [SAP Crystal Solutions](#) have been introduced as the standard reporting and printing platform for SAP Business One.

<sup>(3)</sup> Read SAP Note [1787431 – Central Note for SAP Business One XL Reporter](#) on important topics such as platform support restrictions.

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## 2.4 Hardware Requirements for Hosted Environments

### 2.4.1 RAM Requirements

*Citrix XenApp Edition* or *Windows Terminal Services* hardware requirements, as stipulated by the manufacturer.

#### Recommendation

For WAN connections, use the *Remote Desktop Protocol* (RDP).

#### Per concurrent user:

- SAP Business One application – 1 GB
- Citrix or WTS Client Sessions – For recommended requirements, refer to Citrix or WTS documentation.
- For other applications like partner add-ons or e-mail clients, contact your solution provider for recommended requirements.

#### Example:

Your system is required to run:

- Windows Server and Citrix Server – 8 GB
  - For details, refer to the Microsoft Windows system requirements and the respective Citrix document.
- 10 SAP Business One concurrent users
- Citrix session and partner add-on use – 0.25 GB per concurrent users

#### Calculate the required memory as follows:

- Each concurrent user requires **1 GB** for SAP Business One + **0.25 GB** for Citrix session and partner add-ons = **1.25 GB**
- Total memory required is **8 GB** for Windows and Citrix server + 10 concurrent users x **1.25 GB** for each user = **20.5 GB**

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## 2.4.2 Processor and Network Bandwidth

### Processors:

- Each physical CPU core can support 5–8 SAP Business One concurrent users, which depends on actual CPU performance.
- In a virtualized environment, each vCPU can support less than five SAP Business One concurrent users.
  - Contact your solution provider for configuration details.

If, for example, other applications with a high transaction volume or long reports are executed, contact your solution provider for recommended requirements.

Additional CPUs are required for third-party add-ons, format search and other extensions which consume CPU resources. For partner- or project-specific customization and extensions, the CPU consumption needs to be figured out through partner testing.

For CPU overcommitted cloud environments, run benchmark tools to determine the true CPU performance.

### Network bandwidth for SAP Business One:

- Each concurrent user who is accessing Citrix or WTS sessions via WAN requires 0.5 Mbps (512 Kbps) external bandwidth.

#### Example:

For 32 concurrent users, an external bandwidth of 16 Mbps is required.

Network latency, screen resolution and other factors might impact Citrix or WTS sessions. Contact your solution provider for configuration details.

### Latency and bandwidth requirements for SAP Business One:

- All SAP Business One components must be installed in the same LAN (local area network). Putting client and server into two different locations (e.g. VPN) will have an impact on the performance of SAP Business One. Thus, latency should be as low as possible (< 1 ms).

#### Same LAN means:

- Sufficient bandwidth > 100M
- Small latency < 1 ms
- Same WINS server
- Same local DNS server, if configured
- Same AD server, if AD is being used

## Network requirements for SAP HANA system replication scenarios:

- Refer to the [Network Bandwidth for SAP HANA System Replication](#) document for details on the network requirements (among other things, bandwidth and latency) for SAP HANA system replication scenarios.

## 2.5 Additional System Requirements

### 2.5.1 Software Requirements – Server

Microsoft® Internet Explorer 8.0 or higher
Microsoft® Data Access Components 2.6 (MDAC) or higher

#### Note

As stipulated by Microsoft, beginning on **January 12, 2016**, only the most current version of Internet Explorer available for a supported operating system will receive technical support and security updates. Internet Explorer 11 is the last version of Internet Explorer, and will continue to receive security updates, compatibility fixes, and technical support on Windows 7, Windows 8.1, and Windows 10.

### 2.5.2 Software Requirements – Client

Microsoft® Internet Explorer 8.0 or higher
Microsoft® Data Access Components 2.6 (MDAC) or higher

#### Note

As stipulated by Microsoft, beginning on **January 12, 2016**, only the most current version of Internet Explorer available for a supported operating system will receive technical support and security updates. Internet Explorer 11 is the last version of Internet Explorer, and will continue to receive security updates, compatibility fixes, and technical support on Windows 7, Windows 8.1, and Windows 10.

#### Note

To send faxes from SAP Business One, it is recommended to install [Microsoft® Fax Services](#). [Symantec WinFax Pro 10.0](#) is no longer supported by Symantec, but may be used with SAP Business One if it is already installed.



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