

SYMBIO®

Symbio system requirements



From: March 2023

©2023 Symbioworld GmbH



Content

1	Symbio.....	3
1.1	Minimum requirements for client computers.....	3
1.1.1	Browser support matrix.....	3
1.2	Recommended bandwidth ranges.....	3
2	Symbio (OnPrem Installation).....	4
2.1	Overview.....	4
2.1.1	Single server installation.....	4
2.1.2	Two server installation.....	4
2.2	Minimum hardware requirements for server.....	5
2.3	Minimum software requirements for server.....	5
3	Symbio Reporting (On Prem Installation).....	7
3.1	Overview.....	7
3.1.1	Architecture.....	7
3.2	Minimum software requirements for server.....	7
4	Single Sign-On/SAML 2.0.....	9



1 Symbio

1.1 Minimum requirements for client computers

This section provides minimum software requirements for a client computer to work with Symbio.

1.1.1 Browser support matrix

We are continuously working on providing the best experience to our users. Using the newest technology available on the market sometimes requires dropping support for some older browser versions. The following browsers are currently fully supported:

Browser	Version
Microsoft Edge	Last two released versions
Mozilla Firefox	Last two released ESR versions
Google Chrome	Last two released versions

Symbio also runs on the **Safari/iOS** browser, but this is not tested explicitly.

In August 2020 Microsoft has announced the timeline for the ending support for Internet Explorer 11 (IE 11) across the 365 apps and services. We will follow this procedure and discontinue supporting **Microsoft's IE 11**.

1.2 Recommended bandwidth ranges

This section provides generally recommended bandwidth ranges.

Bandwidth ranges of 3 megabits per second (Mbps) (dual T1) and greater with latencies no greater than 250 milliseconds (ms)



2 Symbio (OnPrem Installation)

2.1 Overview

Symbio provides several installation scenarios. Currently, these installations include a single server with a local SQL Server and a two-server installation with a web server and a database server. This article describes the hardware and software requirements for Symbio in each of the two scenarios.

Important: The information in this article apply to Symbio only. Other listed products in this article have their own software and hardware requirements. Please contact the manufacturer of the specified product in order to get more information.

2.1.1 Single server installation

Web server with local database



- Web pages
- Local services
- Different plugins for different needs
- Multitenancy
- Local SQL Server database

2.1.2 Two server installation

Web server



- Web pages
- Local services
- Different plugins for different needs
- Multitenancy

Database server









- Hosts the Symbio databases
- Can be mirrored or clustered
- To increase performance and capacity consider adding disks to the database server or adding database servers (depending on the bottleneck)



2.2 Minimum hardware requirements for server

The values in the following table are minimum values for installations on a single server with a local database and for web and database servers in a two-server installation.

Installation Scenario		Deployment type and scale	RAM	Processor	Hard disk space
	Single server	Development or evaluation installation	4 GB	64-bit, 4 cores	1 GB plus space depending on data
	Single server	Production deployment	12 GB	64-bit, 4 cores	5 GB plus space depending on data
	Two server – web server	Development or evaluation installation	4 GB	64-bit, 4 cores	1 GB plus space depending on data
	Two server – web server	Production deployment	12 GB	64-bit, 4 cores	5 GB plus space depending on data
	Two server – database server	Development or evaluation installation	4 GB	64-bit, 4 cores	1 GB plus space depending on data
	Two server – database server	Production deployment	8 GB	64-bit, 4 cores	5 GB plus space depending on data

Hard disk space depends on how much content that you have in your deployment.

2.3 Minimum software requirements for server

This section provides minimum software requirements for each server.

Minimum requirements for *database server* including local database server in case of single server deployment:

- One of the following:
 - 64-bit edition of Microsoft SQL Server 2022 (**recommended**)
Symbio needs as Collation type "SQL_Latin1_General_CP1_CI_AS".
For more information about requirements please visit <https://docs.microsoft.com/en-us/sql/sql-server/install/hardware-and-software-requirements-for-installing-sql-server-ver15?view=sql-server-ver15>
 - 64-bit edition of Microsoft SQL Server 2019
Symbio needs as Collation type "SQL_Latin1_General_CP1_CI_AS".
For more information about requirements please visit



<https://docs.microsoft.com/en-us/sql/sql-server/install/hardware-and-software-requirements-for-installing-sql-server-ver15?view=sql-server-ver15>

Deprecated: 64-bit edition of Microsoft SQL Server 2017
From 3th Quarter 2023 we won't support SQL Server 2017 anymore.

Deprecated: 64-bit edition of Microsoft SQL Server 2016
From 4th Quarter 2022 we won't support SQL Server 2016 anymore.

Please note that SQL Server 2016/2017 Express LocalDB or Express Edition is not supported.

Minimum requirements for a *web server or single server*:

- One of the following:
 - 64-bit edition of Windows Server 2022 Standard/Datacenter (**recommended**)
 - 64-bit edition of Windows Server 2019 Standard/Datacenter
 - 64-bit edition of Windows Server 2016 Standard/Datacenter
 - 64-bit edition of Windows Server 2012 R2 Standard/Datacenter (**deprecated**)
Symbio still runs on Windows Server 2012 R2, if possible, a newer Windows version should be used. Automated installation scripts may cause problems under Windows Server 2012 R2.
- Web Server (IIS) role
- Microsoft .NET Framework version 4.7.2
- For Symbio microservices: Microsoft .NET 6 and 7

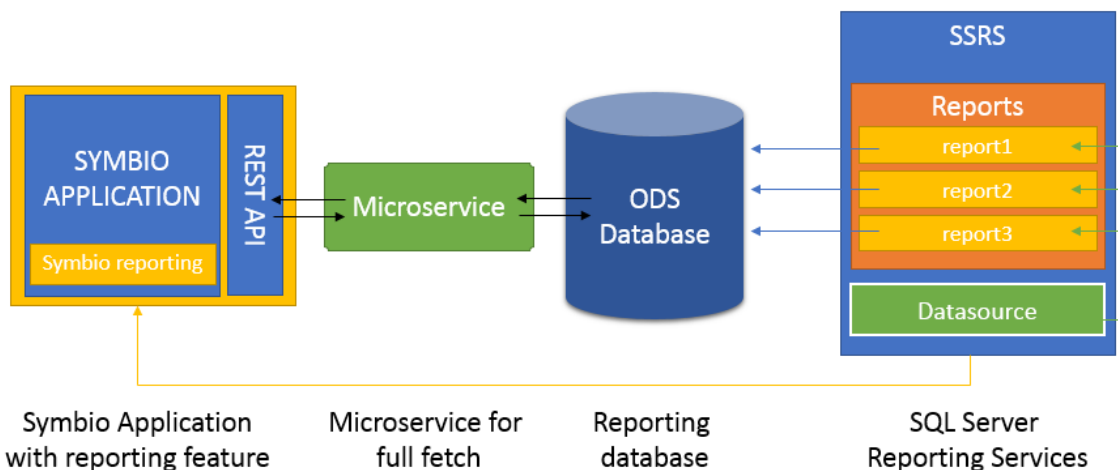


3 Symbio Reporting (On Prem Installation)

3.1 Overview

Symbio reporting is important feature of Symbio. Symbio provides number of predefined reports for users to generate and print. For enabling reporting features, some additional software needs to be installed and configured. For reporting purposes standard Symbio database cannot be used, and new ODS Database must be created for reporting. Symbio uses SQL Server Reporting Services for deploying and generating reports. For end user SQL Server Reporting Services are completely transparent because reports are fully integrated into Symbio. For ODS database creation Symbio specialized REST API (RESTful Application Programming Interface) is used by Microservice, which is fetching all data from Symbio and generating data in ODS database.

3.1.1 Architecture



3.2 Minimum software requirements for server

This section provides minimum software requirements for each server.

Minimum requirements for *reporting server* including local database server in case of single server deployment:

- One of the following:
 - 64-bit edition of Microsoft SQL Server 2022 (**recommended**)
Symbio needs as Collation type "SQL_Latin1_General_CP1_CI_AS".
For more information about requirements please visit <https://docs.microsoft.com/en-us/sql/sql-server/install/hardware-and-software-requirements-for-installing-sql-server-ver15?view=sql-server-ver15>
 - 64-bit edition of Microsoft SQL Server 2019 (**recommended**)
Symbio needs as Collation type "SQL_Latin1_General_CP1_CI_AS".
For more information about requirements please visit



<https://docs.microsoft.com/en-us/sql/sql-server/install/hardware-and-software-requirements-for-installing-sql-server-ver15?view=sql-server-ver15>

Deprecated: 64-bit edition of Microsoft SQL Server 2017
From 3th Quarter 2023 we won't support SQL Server 2017 anymore.

Deprecated: 64-bit edition of Microsoft SQL Server 2016
From 4th Quarter 2022 we won't support SQL Server 2016 anymore.

Please note that SQL Server 2016/2017 Express LocalDB or Express Edition is not supported.

- One of the following:
 - 64-bit edition of Microsoft SQL Server 2022 Reporting Services (**recommended**)
For more information about requirements please visit
<https://learn.microsoft.com/en-us/sql/sql-server/install/hardware-and-software-requirements-for-installing-sql-server-2022>
 - 64-bit edition of Microsoft SQL Server 2019 Reporting Services
For more information about requirements please visit
<https://learn.microsoft.com/en-us/sql/sql-server/install/hardware-and-software-requirements-for-installing-sql-server-2019>

Deprecated: 64-bit edition of Microsoft SQL Server 2017 Reporting Services
From 3th Quarter 2023 we won't support SQL Server 2017 Reporting Services anymore.

Deprecated: 64-bit edition of Microsoft SQL Server 2016 Reporting Services
From 4th Quarter 2022 we won't support SQL Server 2016 Reporting Services anymore.

Please note that SQL Server 2016/2017 Express LocalDB or Express Edition with Advanced Services is not supported.



4 Single Sign-On/SAML 2.0

Symbio supports SAML 2.0 and the following Identity Providers (IdP):

- Microsoft Active Directory Federation Services (MS ADFS)
- Microsoft Azure Active Directory (MS AAD)
- Ping Identity
- OneLogin.com

Other Identity Providers might work because of SAML 2.0 but need to be treated as a separate project if out-of-the-box configuration does not work.

Please also refer to our online help here:

https://docs.symbioworld.com/admin/installation-guide/saml-configuration/1_introduction/



Herausgeber

Symbioworld GmbH

Einsteinring 41-43

85609 Aschheim

Tel.: +49 89 890635 – 0

Fax: +49 89 890635 – 55

E-Mail: info@symbioworld.com

IMPRESSUM

Für die Richtigkeit und Vollständigkeit der Darstellung/Abbildung im Dokument übernimmt Symbioworld GmbH keine Haftung. Die beschriebenen und möglichen Funktionalitäten der Software beziehen sich auf den jeweiligen Versionsstand. Kundenspezifische Anpassungen sind nicht enthalten. Die Informationen in diesem Dokument können sich zu jeder Zeit ändern. Symbioworld GmbH ist nicht verpflichtet über die Aktualisierungen des Dokumentes zu informieren.

Diese Dokumentation sowie alle enthaltenen Beiträge, Darstellungen und Abbildungen sind urheberrechtlich geschützt. Jede Verwertung, die nicht ausdrücklich vom Urheberrechtsgesetz zugelassen ist, bedarf der vorherigen Zustimmung durch Symbioworld GmbH. Dies gilt insbesondere für Vervielfältigungen, Bearbeitungen, Übersetzungen, Mikroverfilmungen sowie die Einspeicherung und Verarbeitung in elektronischen Systemen.

Die in dieser Dokumentation enthaltenen Informationen, Kenntnisse und Darstellungen betrachtet Symbioworld GmbH als ihr alleiniges Eigentum. Die Dokumentation bzw. die darin enthaltenen Informationen, Kenntnisse und Darstellungen dürfen ohne die vorherige schriftliche Zustimmung durch Symbioworld GmbH weder vollständig noch auszugsweise, direkt oder indirekt Dritten zugänglich gemacht, veröffentlicht oder anderweitig verbreitet werden.

Die Geltendmachung aller diesbezüglichen Rechte, insbesondere für den Fall der Erteilung von Patenten, bleibt der Symbioworld GmbH vorbehalten. Die Übergabe der Dokumentation begründet keinerlei Anspruch auf eine Lizenz oder Benutzung.

Technische Änderungen vorbehalten. Verwendete Produktnamen sind Warenzeichen oder eingetragene Warenzeichen der jeweiligen Inhaber.

Symbio® ist eine eingetragene Marke der SYMBIOWORLD GmbH, München.



Symbioworld GmbH

Einsteinring 41-43

85609 Aschheim

Tel.: +49 89 890635 – 0

Fax: +49 89 890635 – 55

E-Mail: info@symbioworld.com

©2023 Symbioworld GmbH