Orchestra

System Requirements
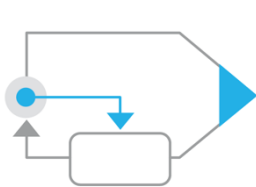
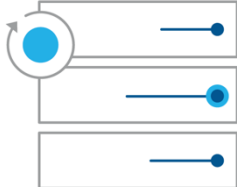**Orchestra 4.15.1.0**

Orchestra

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1 Architectural Overview

Designer
Monitor
Runtime

2 Hardware Requirements

The following list shows the minimal requirements for running Orchestra.

2.1 Orchestra Designer

Processor type	Single / Dual-Core x86, AMD or similar
Processor speed	>= 2 GHz
RAM	>= 2 GB
Disk space	1 GB

2.2 Orchestra Runtime

Following requirements are valid for a small simple system with low performance and data traffic as usually intended for dedicated test and development systems:

Processor type	Dual-Core x86, AMD or similar
Processor speed	>= 2 GHz
RAM	>= 4 GB
Disk space – only Orchestra	1 GB
Disk space – Database	>10 GB

Following minimal hardware requirements are valid for systems in production use:

Processor type	Quad-Core x86, AMD or similar
Processor speed	>= 2 GHz
RAM	>= 6 GB
Disk space – only Orchestra	1 GB
Disk space – Database	>80 G
Disk space – Archive-/Protocol files	>50 GB

The best settings of the hardware system depend on the individual context of the concrete application and should be evaluated in conjunction with a system architect or a consultant of Soffico GmbH.

3   Software Requirements

3.1   Introduction, predecessor Versions

The current version of Orchestra is provided for and was tested with a system environment based on following environmental software in their listed versions. As to our experience Orchestra should be able to run with predecessor versions of the listed software to the greatest possible extend. In fact due to the multitude of possible combinations new releases of Orchestra are not tested in any possible combination of versions of the environment software.

The usage of Orchestra in combination with predecessor versions up to the listed versions might be possible without any or with minor constraints. In fact this was not tested and is not a contracted property of Orchestra.

Supported
A configuration labeled supported can be used in a production setup. Soffico GmbH confirms that the software is running in this system configuration without impacting the functions of the software. Soffico GmbH verifies this by using this configuration during quality assurance and regression testing of the software. Restrictions and limitations are fully documented to the best knowledge of Soffico GmbH. Updates on known restrictions and limitations are actively communicated by Soffico GmbH.

Compatible
A configuration labeled compatible can be used in a production setup. Nevertheless, Soffico GmbH cannot provide full or timely support for a given compatible configuration. Soffico GmbH expects no issues in such a configuration and is to date not aware of any particular problem. The documented restrictions and limitations may be incomplete. Updates on restrictions and limitations are not actively communicated.
Soffico GmbH is not responsible for any damage caused by using a compatible configuration

3.2 Java Versions

Orchestra is provided for use in combination with Java 11 with following JVM distributions:

Supported

- Oracle JDK 11.0.13
- Amazon Corretto JDK 11.0.13

Compatible

- all JDKs based on OpenJDK 11
  e.g.:
  Amazon Corretto JDK 11.0.13
  Eclipse Adoptium Temurin JDK 11.0.14
  Microsoft OpenJDK 11.0.13

Please note:

The 32bit version of Java has to be used on a 32bit version of the listed operating systems. For the 64bit version please use the 64bit version of the operating system.

3.3 Operating Systems

Orchestra is provided for use in combination with following operating systems and versions:

Windows

Supported

- Windows 10

Compatible

- Windows Server 2016 (Desktop experience)
- Windows Server 2019 (Desktop experience)
- Windows Server 2022 (Desktop experience)

Linux

Supported

- Ubuntu 18.04.1 LTS
- CentOS Linux release 7.6.1810
- Debian GNU/Linux 9
- Debian GNU/Linux 10

Compatible

- Alma Linux 8.3
- Ubuntu 18.04
- Ubuntu 20.04
- Ubuntu 20.10
- Alpine Linux 3.12.1
- SUSE Linux Enterprise Server 12
- SUSE Linux Enterprise Server 15
- Red Hat Enterprise Linux 8
- Red Hat Enterprise Linux 9
- Debian GNU/Linux 11

3.4 Databases

Orchestra was tested with the following database versions:

Supported

- MySQL 8.0.17 und 5.7.27
- MariaDB 10.5
- MSSQLServer 2017 (14.0.3030.27)
- Oracle 18.3.0-ee
- PostgreSQL 13

Compatible

- MS SQL Server 2019
- MS SQL Server 2019 Express
- MS SQL Server 2022
- MS SQL Server 2022 Express
- Oracle 19c
- PostgreSQL 14.1

Supported SQL data types

- Standard SQL data types (predefined data types according to the latest ISO/IEC 9075-2 standard)

3.5 Servlet Container

Orchestra was tested with the following servlet container versions:

Supported

- Apache Tomcat 8.5.43
- JBOSS 23.01

Compatible
- Apache Tomcat 8.5.75
- Apache Tomcat 9.0.56

Note:
- Orchestra should run alone in the servlet container
- Apache Tomcat 10 is **not** supported (because of change from package javax.** to Jakarta.**)

3.6 Web Browser

Orchestra was tested with the following web browser versions:

Supported

- Microsoft Edge
- Firefox
- Chrome since version 55 with constraints (see below)

Compatible

- Microsoft Internet Explorer version 11 with constraints (see below)

With Internet Explorer version 11 and Chrome sporadic layout weaknesses can occur. More details can be found in the release notes of Orchestra.

3.7 Virus Scanner

Currently there are no negative experiences on Orchestra systems in combination with a virus scanner. Negative influence on the performance or web access is possible, depending on the settings of the virus scanner. In order to prevent performance degradation, we would suggest excluding standard Orchestra directories from the virus check.

This includes especially the following directories:
- Orchestra log directory
- Tomcat log directory
- Directory of the Orchestra Long time archive
- Archive directories of external archive logger

4 Important information for backward compatibility

Soffico attaches great importance to backward compatibility in the development of Orchestra. To ensure this, the Orchestra Customer API is available. This API encapsulates the access to internal functions and thus ensures backwards compatibility when using direct Java API calls.

If users - for whatever reason - have implemented direct access to internal functions in their own Java classes, mappings, channels, Java activities, etc., this function is naturally bypassed. Therefore, the backward compatibility for scenarios enabled by the Orchestra Customer API may no longer work when using older or newer Orchestra variants.

Such a case is neither a malfunction nor a defect. Therefore, ensure through appropriate quality measures that the correct functioning is guaranteed in the case of a version upgrade. This includes a test environment in which the functionality of Orchestra and the installed scenarios can be tested during a version upgrade.

If you need specific functionalities that are not yet available in the Customer API, please feel free to contact us.