

PDM DEPARTMENT; SUPERIOR DOCUMENT: AA\_0079\_RX\_ANGEBOT\_UND\_VERTRAG

**System requirements for standalone systems**

	<b>Single workstation<sup>1</sup></b>	
	<b>Minimum</b>	<b>Recommended</b>
<b>CPU</b>	2 Cores	4 Cores Intel
<b>RAM</b>	4096 MB (2048 MB for 32bit systems)	8192 MB
<b>Storage</b>	150 GB + Backup system	500 GB + Backup system
<b>Graphic resolution</b>	1280 x 1024	1680 x 1050
<b>Operating System</b>	<b>Supported</b>	<b>Recommended</b>
	Windows 8/8.1 Pro (32-bit or 64-bit) <sup>2</sup> , Windows Server 2012, 2012R2, 2016 Windows Server 2019 (requires astraia 1.27.x) Foundation/Essentials/Standard/ Datacenter (32-bit or 64-bit) <sup>2</sup> , Windows 10 Pro/ Enterprise (32-bit or 64-bit) <sup>2</sup> ,	Windows 10 Pro/ Enterprise (64-bit) <sup>2</sup>
<b>Database</b>	Sybase SQL Anywhere 16 Microsoft SQL Server 2012 Microsoft SQL Server 2014/2016/2017/2019 <sup>3</sup> with compatibility mode Oracle 11g/12c PostgreSQL 13	Microsoft SQL Server 2012 Microsoft SQL Server 2014/2016/2017/2019 <sup>3</sup> with compatibility mode Oracle 11g/12c <sup>4</sup> PostgreSQL 13

**System requirements for network client computers**

	Client workstations <sup>1</sup>	
	Minimum	Recommended
<b>CPU</b>	2 Cores	4 Cores Intel
<b>RAM</b>	2048 MB	4096 MB
<b>Storage</b>	50 GB	100 GB
<b>Network</b>	100 Mbit/s	1000 Mbit/s
<b>Graphic resolution</b>	1280 x 1024	1680 x 1050
<b>Operating System</b>	<b>Supported</b>	<b>Recommended</b>
	Windows 8/8.1 Pro (32-bit or 64-bit) <sup>2</sup> , Windows 10 Pro/ Enterprise (32-bit or 64-bit) <sup>2</sup>	Windows 10 Pro/ Enterprise (64-bit) <sup>2</sup>

**System requirements for servers**

	<b>Application and database server</b>	
	<b>Minimum</b>	<b>Recommended</b>
<b>CPU</b>	2 Cores Intel	4 Cores Intel Xeon
<b>RAM</b>	4096 MB	8192 MB
<b>Storage</b>	500 GB + Backup system	1 TB RAID + Backup system
<b>Network</b>	100 Mbit/s	1000 Mbit/s
<b>Graphic resolution</b>	1024 x 768	1280 x 1024
<b>Operating System</b>	<b>Supported</b>	<b>Recommended</b>
	Windows 8/8.1 Pro (64-bit) <sup>2</sup> , Windows Server 2012, 2012R2, 2016 Windows Server 2019 (requires astraia 1.27.x) Foundation/Essentials/Standard/ Datacenter (64-bit) <sup>2</sup> , Windows 10 Pro/ Enterprise (64-bit) <sup>2</sup> ,	Windows Server 2016, 2019 Foundation/Essentials/Standard/ Datacenter (64-bit) <sup>2</sup> ,
<b>Database</b>	Sybase SQL Anywhere 16 Microsoft SQL Server 2012 Microsoft SQL Server 2014/2016/2017/2019 <sup>3</sup> with compatibility mode Oracle 11g/12c <sup>4</sup> PostgreSQL 13	Microsoft SQL Server 2012 Microsoft SQL Server 2014/2016/2017/2019 <sup>3</sup> with compatibility mode Oracle 11g/12c <sup>4</sup> PostgreSQL 13

### **Further requirements for all components**

Specified for computer systems running astraia in addition to standard office software. If further high-performance software applications are to be used on the same hardware, please contact our support team for clarification.

- Backup: local backup service or network backup service
- Supported database systems:
  - Sybase SQL Anywhere 16 (only for standalone and small network installations). For larger installations, it is recommended to use Microsoft SQL Server or Oracle in order to avoid performance issues. Please contact our support team to discuss the best option for your installation.
  - Microsoft SQL Server 2012/2014/2016/2017/2019<sup>3</sup> (fully supported by astraia application/with compatibility mode; database administration by qualified hospital IT staff),
  - Oracle 12c (fully supported by astraia application; database administration by qualified hospital IT staff)
- Remote access: Stable broadband internet connection for TeamViewer™ or VPN access

**i** For special configurations where **two or more different sites are connected via the Internet** (e.g. astraia server → VPN → astraia clients), the minimum bandwidth necessary to ensure a sufficient working speed for astraia is: **5Mb up/down for astraia networks without Imaging** and **10Mb up/down for astraia networks with Imaging**.

**i** **Please note:** It is recommended to review the list of known issues for technical workarounds that complement the information shown in this document.

<sup>1</sup> macOS users: Please contact our support for requirements on setting up a virtualized solution with a supported MS Windows version.

<sup>2</sup> By default, astraia setup installs the 64-bit version of Java. Please contact our support for information about installing the 32-bit version.

<sup>3</sup> Microsoft SQL Server versions supported with compatibility mode level 110 (equivalent to enable MS SQL 2012 compatibility). Please contact our support in case of questions.

<sup>4</sup> Oracle database engine needs to be configured in Astraia to use connection pool, this is mandatory otherwise Astraia application could not work correctly.