

PDM DEPARTMENT; SUPERIOR DOCUMENT: AA_0079_RX_ANGEBOT_UND_VERTRAG

System requirements for standalone systems

	Single workstation ¹	
	Minimum	Recommended
CPU	2 Cores	4 Cores Intel
RAM	4096 MB (2048 MB for 32bit systems)	8192 MB
Storage	150 GB + Backup system	500 GB + Backup system
Graphic resolution	1280 x 1024	1680 x 1050
Operating System	Supported	Recommended
	Windows 8/8.1 Pro (32-bit or 64-bit) ² , Windows Server 2016/2019 Foundation/Essentials/Standard/ Datacenter (32-bit or 64-bit) ² , Windows 10 Pro/Enterprise (32-bit or 64-bit) ² , Windows 11 Pro/Enterprise (32-bit or 64-bit) ² ,	Windows 11 Pro/ Enterprise (64-bit) ²
Database	Sybase SQL Anywhere 16 Microsoft SQL Server 2014/2016/2017/2019 ³ with compatibility mode Microsoft SQL Server 2022 Oracle 19c ⁴ PostgreSQL 13	Microsoft SQL Server 2014/2016/2017/2019 ³ with compatibility mode Microsoft SQL Server 2022 Oracle 19c ⁴ PostgreSQL 13

System requirements for network client computers

	Client workstations ¹	
	Minimum	Recommended
CPU	2 Cores	4 Cores Intel
RAM	2048 MB	4096 MB
Storage	50 GB	100 GB
Network	100 Mbit/s	1000 Mbit/s
Graphic resolution	1280 x 1024	1680 x 1050
Operating System	Supported	Recommended
	Windows 8/8.1 Pro (32-bit or 64-bit) ² , Windows 10 Pro/ Enterprise (32-bit or 64-bit) ² Windows 11 Pro/ Enterprise (32-bit or 64-bit) ² ,	Windows 10 Pro/ Enterprise (64-bit) ² Windows 11 Pro/ Enterprise (32-bit or 64-bit) ² ,

System requirements for servers

	Application and database server	
	Minimum	Recommended
CPU	2 Cores Intel	4 Cores Intel Xeon
RAM	4096 MB	8192 MB
Storage	500 GB + Backup system	1 TB RAID + Backup system
Network	100 Mbit/s	1000 Mbit/s
Graphic resolution	1024 x 768	1280 x 1024
Operating System	Supported	Recommended
	Windows 8/8.1 Pro (32-bit or 64-bit) ² , Windows Server 2016/2019 Foundation/Essentials/Standard/ Datacenter (64-bit) ² , Windows 10 Pro/ Enterprise (64-bit) ² , Windows 11 Pro/ Enterprise (32-bit or 64-bit) ²	Windows Server 2016, 2019 Foundation/Essentials/Standard/ Datacenter (64-bit) ² ,
Database	Sybase SQL Anywhere 16 Microsoft SQL Server 2014/2016/2017/2019 ³ with compatibility mode Microsoft SQL Server 2022 Oracle 19c ⁴ PostgreSQL 13	Microsoft SQL Server 2014/2016/2017/2019 ³ with compatibility mode Microsoft SQL Server 2022 Oracle 19c ⁴ 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 (**legacy support for existing installations, recommended moving to PostgreSQL**). 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 2014/2016/2017/2019³ (fully supported by astraia application/with compatibility mode; database administration by qualified hospital IT staff),
 - Oracle 19c (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.

¹ macOS's users: Please contact our support for requirements on setting up a virtualized solution with a supported MS Windows version.

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

³ 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.

⁴ Oracle database engine needs to be configured in astraia to use connection pool, this is mandatory otherwise astraia application could not work correctly.