Hardware and Software Requirements

System prerequisites for operating Nexis QSEC

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Please note: This English version of the Hardware and Software Requirements is a convenience translation only. In case of conflicts between the German and the English version, the German version shall prevail.

1. General

QSEC can be operated both on a dedicated server and virtualized (e.g., via ESXi). The requirements differ according to the number of active users and the standards and modules used. The following hardware requirements should be taken as guide values for operation. The software is activated via a license file. It is provided in a 1-year cycle. An individual update interval can be agreed with the vendor.

2. Hardware Requirements

The hardware requirements depend on the expected number of QSEC users. Further factors such as company size and the number of standards or modules used may lead to changes, which are adapted individually for each installation.

2.1. Option 1 (recommended): Separate Application and Database Servers

Users	Application server	Database server
0 – approx. 50	4-core processor 16 GB memory 120 GB hard disk space	4-core processor 24 GB memory 400 GB high-performance hard disk space (e.g., SSD)
51 – approx. 250	6-core processor 24 GB memory 120 GB hard disk space	6-core processor 32 GB memory 450 GB high-performance hard disk space (e.g., SSD)
250 – approx. 500	8-core processor 32 GB memory 120 GB hard disk space	8-core processor 32 GB memory 500 GB high-performance hard disk space (e.g., SSD)
500+	In consultation	In consultation

Table 1: Hardware requirements for a separate setup

2.2. Option 2: Combined Application and Database Server

Users	Application and database server
0 – approx. 50	8-core processor 40 GB memory 500 GB high-performance hard disk space (e.g., SSD)
51 – approx. 250	12-core processor 48 GB memory 550 GB high-performance hard disk space (e.g., SSD)
250 – approx. 500	16-core processor 56 GB memory 600 GB high-performance hard disk space (e.g., SSD)
500+	In consultation

Table 2: Hardware requirements for a combined setup

All specifications refer to the requirements of QSEC. Additional resources must be provided for the operating system and other services. It is recommended to partition the hard disk space of the servers as follows:

Partition	Server	Size
System (Windows)	Application / database	At least 80 GB
QSEC	Application	At least 60 GB

Partition	Server	Size
SQL Server	Database	At least 40 GB
SQL Data	Database	At least 100 GB
SQL Logs	Database	At least 80 GB
SQL Backups	Database	At least 100 GB

Table 3: Recommended partitioning of the hard disk space

3. Software Requirements

QSEC can be operated with various software stacks. Our recommendation for operation is highlighted in the following table. The software itself is delivered together with an installation package.

Software	Supported products (preferred ones highlighted in "bold")
Operating system	**Windows Server** 2019 / **2022**
Database	Microsoft SQL Server 2019 Standard / Enterprise, **Microsoft SQL Server 2022 Standard / Enterprise,** Microsoft SQL Server 2019 Express (only for QSEC Essentials or test environments)
Database tools	**Reporting Services, SQL Server Management Studio, SQL Server Data Tools**
Application server	**Microsoft Internet Information Services 10**
Frameworks	**Microsoft .NET Framework 4.8, ASP.NET 4.8**

Table 4: Supported software stacks

Notes

a) Port releases are required for IIS (80 / 443) and for SQL Server (default 1433).

b) IIS should only be operated with TLS encryption; corresponding certificates are required.

c) The following accounts in the Windows domain are required for operation:
- Account for access to the QSEC reports folder for the database server
- Account with read access to Active Directory (can be the same account as above)
- Administrative account for maintenance and installation for both the application and the database server

d) Mixed authentication mode (SA account with password) is required in Microsoft SQL Server.

e) Forms-based and Windows-based authentication are required on the application server (the latter for SSO access).

f) We recommend providing maintenance access via RDP over VPN.

g) An SMTP service is required for sending emails.