

# System requirements blomesystem®

State June 2011

## General

These system requirements are standard requirements and should be adapted to the individual environment and further usage plan. In networks e.g. the capacity of the server depends on the number of users who are working simultaneously with the system. In case the server has to provide additional services (background processes, file server, office server, mail server etc), the fitting of the server has to be adapted. The size of the database is depending on the annual sample data volume and the number of years that shall be accessible directly.

## Network usage (5 to 50 users)

In network installations the program blomesystem® is installed on a file-server or on each client PC. Due to less maintenance and administration effort of the system the application should be installed centrally on the server. The data is stored in a relational database located on a central database-server. In configurations for up to 50 concurrent users a single Windows server – serving files as database as well - is usually sufficient. When the system is extended the different tasks can be distributed to multiple servers. This scalability protects your investments and guarantees the operation of the application with increasing number of users.

## Requirements for the database-server:

- Hardware and operating system supported by the ORACLE database.
- When using Windows Server 2003/2008 a server with a single processor of 2,0 GHz and 4 GB RAM are the minimum requirement.
- Free hard Drive capacity for the database:  
The size is depending on the annual sample volume and the requested data-availability of preceding years.
- ORACLE database with its licenses.

## Network usage (>50users)

When operating with more than 50 concurrent users the tasks of the server should be distributed to multiple servers: database-server, file-server, automation-server and interface-server (to devices and third-party systems). Depending on the customers requirements to prevent from hardware and software failure high availability solutions can be implemented.

The following listing describes some example configurations for network usage with more than 50 users:

**Database-server:**

- Windows Server 2003 (R2), Windows Server 2008 (R2), each one as 32-bit or 64-bit system  
Oracle-DB version 10.2 or higher, 32-bit or 64-bit-variant  
2-4 CPU > 2.0 GHz  
4 GB RAM (minimum), 8 GB RAM (recommended)  
>300 GByte usable hard disk capacity  
RAID Level 1 or 5 recommended

**File-server:**

- Windows Server 2003 (R2), Windows Server 2008 (R2)  
32-bit or 64-bit-variant  
1-4 CPU > 1,5 GHz  
2 GB RAM  
>100 GByte usable hard disk capacity  
RAID Level 1 or 5 recommended

- 

**Automation-server, Interface-server:**

- Windows Server 2003 R2 (32-bit), Windows Server 2008 R2  
1 CPU > 1,5 GHz  
2 GB RAM  
>20 GByte usable hard disk capacity  
RAID Level 1 or 5 recommended

**Clients:**

- Standard-PC (CPU with minimum 2.0 GHz)
- Minimum of 200 MB free hard drive capacity for blomesystem<sup>®</sup>, in case blomesystem<sup>®</sup> is installed locally on the client.
- ORACLE Client starting with vers. 9.2 (32-bit)
- The amount of RAM depends on the installed operating system:  
Windows XP Prof. (32-bit): minimum 512 MB (1024 MB recommended)  
Windows Vista Prof. (32-bit): minimum 2048 MB  
Windows 7 Prof. (32-bit or 64-bit): minimum 1024 MB (2048 MB recommended)

**CITRIX MetaFrame**

blomesystem<sup>®</sup> is released for operation under Citrix MetaFrame and can be used in conjunction to existing network structures. Usage of CITRIX MetaFrame requires a capable and high-available Windows server, reducing the effort for maintenance and administration of the applications. Windows PCs or ThinClients can be used as clients.

With increasing requirements or an increasing number of users the CITRIX server can be extended or you can install additional CITRIX server and scale up the system as required.

---

AJ Blomesystem GmbH  
Konrad-Zuse-Straße 1  
07745 Jena  
GERMANY  
Tel.: +49 (0)36 41 / 77 98 77  
Fax: +49 (0)36 41 / 77 76 98 00  
Web: www.aj-blomesystem.com  
E-Mail: sales@aj-blomesystem.com

AJ Blomesystem GmbH  
Breidenbrucher Straße 2  
51674 Wiehl  
GERMANY  
Tel.: +49 (0)22 61 / 91 55 30  
Fax: +49 (0)22 61 / 91 55 3-11  
Web: www.aj-blomesystem.com  
E-Mail: sales@aj-blomesystem.com