

1.0 PRINCIPLES OF LSM

1.1. SYSTEM REQUIREMENTS: LSM 3.1 SP1 OR HIGHER (SUBJECT TO CHANGE)

GENERAL

- Local administrator rights for installation
- Communication: TCP/IP (NetBios active), LAN (recommended: 100 Mbit/s)
- Windows domain
- Name resolution
- .NET Framework 2.0 min., 3.5 recommended
- MS ActiveSync 4.2 in conjunction with a PocketPC
- RS-232 and / or USB interface

CLIENT (LSM BASIC, LSM BUSINESS, LSM PROFESSIONAL)

Minimum hardware requirements

- Monitor min. 19" (48 cm) (or larger for matrix view display)
- Minimum screen resolution: 1024x768, recommended: 1280x1024
- Processor: at least 2.66 GHz (or faster)
- At least 2 GB RAM (or more)
- Hard disk capacity approx. 500 MB (approx. 1 GB during installation), database depends on the volume of data to be processed (approx. 30 MB)
- MS Windows XP Prof. SP3
- MS Windows Vista (Business, Ultimate, Enterprise), 32 or 64 bit
- MS Windows 7 (Professional, Ultimate, Enterprise), 32 or 64 bit

SERVER (DATABASE SERVER: LSM BUSINESS OR HIGHER)

Minimum hardware requirements

- Processor: at least 2.66 GHz (or faster)
- At least 2 GB RAM (or more)
- Hard disk capacity approx. 300 MB (approx. 450 MB during installation), database depends on the volume of data to be processed (approx. 30 MB)
- MS Windows Server 2003
- MS Windows Server 2008
- MS Windows Server 2008 R2
- .NET Framework when using the CommNode Server at least 3.5
- Server-based application: a share on the ADS server is required for the database directory

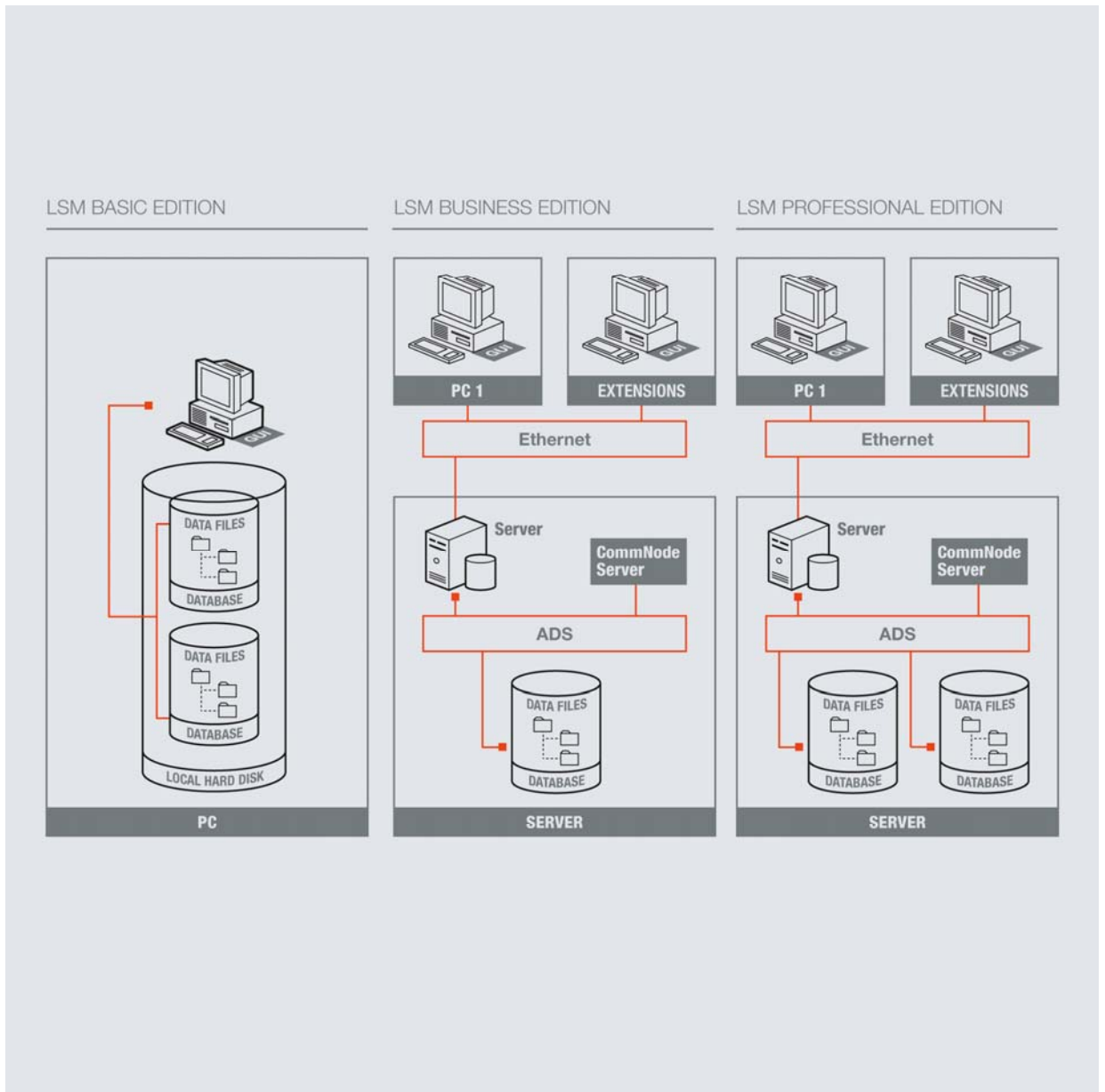
NOTE

If firewalls are used between the client and server, please refer to chapter IT Network Configuration or contact the LSM technical support team at SimonsVoss Technologies AG.

Please note that it is not permitted to use the software in virtual environments.

LSM MANUAL – PRINCIPLES OF LSM

1.2. EXAMPLE INSTALLATIONS



Further components may be required when using networked products (CentralNodes, RouterNodes, LockNodes) in addition to the IT infrastructure shown above.

1.3. OVERVIEW OF LSM SOFTWARE

The SimonsVoss range of software has had a modular structure since the introduction of version 3.0. It comprises various editions and optional modules providing a variety of system functions. Please refer to the product catalogue for a precise description of the functions offered.

LSM editions	LSM Basic Edition LSM Business Edition LSM Professional Edition LSM Mobile Edition
LSM modules	LSM Monitor LSM Report LSM Database LSM Network 48 / 128 / Enterprise LSM Card LSM VN Server LSM Near Field Communication LSM Online LSM Resource Management LSM Extension 5 / 10 / Enterprise CommNodes LSM Extension 3 / 5 / 10 / 25 / 50 Clients

1.4. COMPONENTS (SOME INCLUDED IN SETUP)

LSM BASIC EDITION:

.NET Framework 2.0,
recommended: 3.5
Advantage OLEDB Driver
Advantage Data Provider
Crystal Reports
LSM software

FROM LSM BUSINESS EDITION ONWARDS:

.NET Framework 2.0,
recommended: 3.5
Advantage Database Server
Advantage OLEDB Driver
Advantage Data Provider
Crystal Reports
LSM software

Further components may be required depending on the module.

1.5. DESCRIPTION OF COMPONENTS

1.5.1 ADVANTAGE DATABASE SERVER

The Advantage Database Server is the database operating system and forms the basis of data management. Data is stored on this server in tables and can be accessed again via the OLEDB interface.

1.5.2 ADVANTAGE DATA ARCHITECT

Advantage Data Architect is an Advantage tool for undertaking update, maintenance and repair work during servicing.

1.5.3 ADVANTAGE DATA PROVIDER

Advantage Data Provider is an additional component for accessing the data structure.

1.5.4 OLEDB DRIVER

The OLEDB Provider for all computers which are to run the GUI and / or run the CommNode Server, acts as an interface between the client and server.

1.5.5 CRYSTAL REPORTS

Each time a database is used, there is the concept of also evaluating the stored data and displaying it in an analytical manner. Crystal Reports is a powerful reporting tool which allows users to create flexible, meaningful reports quickly and easily. Tried-and-tested query technology ensures access to practically any data source, in this instance, the locking plan. Crystal Reports is integrated using the LSM GUI, without the need for adjustments within Crystal Reports. Crystal Reports is required on all computers which have the GUI installed to allow users to view the reports in LSM.

1.5.6 LSM GUI

The LSM GUI (graphical user interface) is the graphical interface for configuring the locking system.

1.5.7 LSM COMMNODE SERVER

The CommNode Server guides the user through the scheduled network tasks, manages events and controls the VN Server.

1.5.8 LSM COMMNODE

The CommNode software is the interface to a SimonsVoss network.

1.5.9 LSM VN SERVER

The LSM VN Server enables the necessary tasks to be processed in order to distribute the information in the locking plan to the components in the SimonsVoss virtual network.