

COMPACT STORE

System Requirements

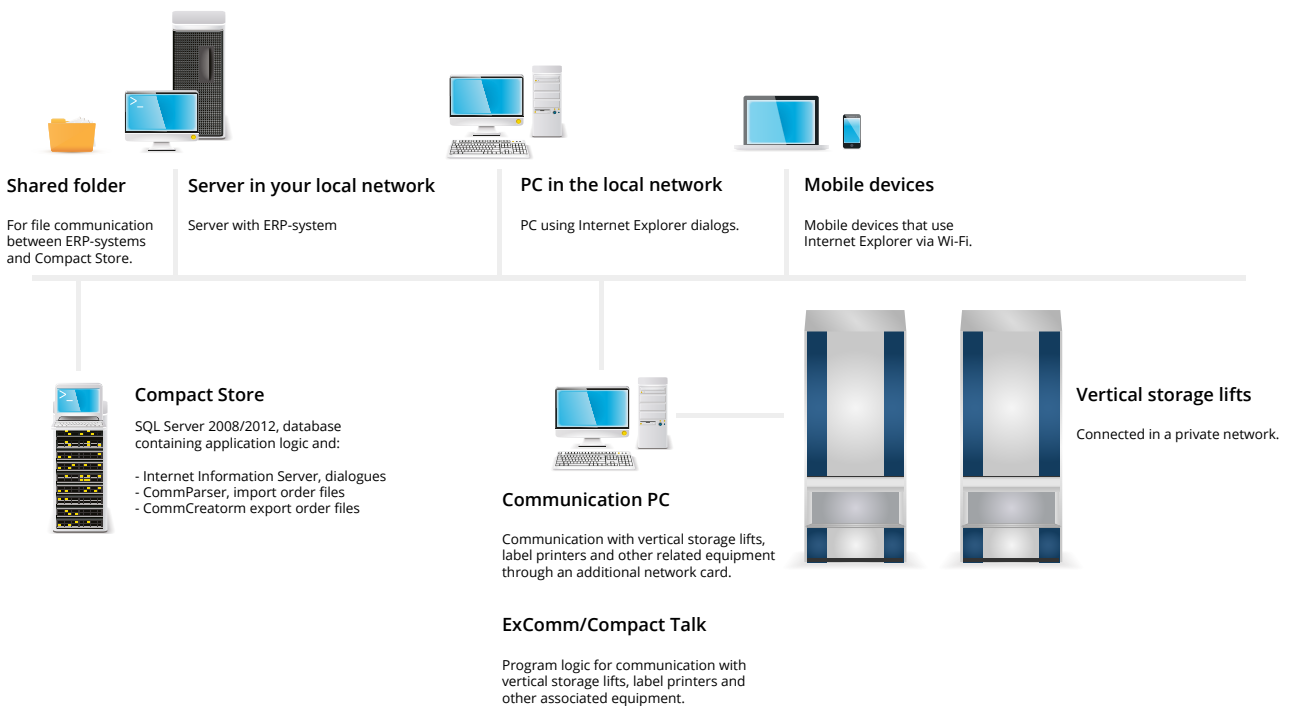
Introduction

This document describes the system requirements for Compact Store. The recommended setup is to use a server where the database/logic is stored and one communication pc for each plant. The communication pc should be placed near the elevators and is used to communicate with the elevators and used by the operators to work in the system.

For more details about system requirements see separate sections described in this document.

Note! The end customer is responsible to provide the necessary equipment and make sure the requirements described in this document is fulfilled.

Example of how a normal setup looks like



Server

Used for Installation of Database and for Compact Store logic.

- Windows Server 2016/2019, physical or virtual.
- Microsoft SQL Server 2016/2017/2019 Express or Standard Edition with Microsoft Management Studio included.
- Microsoft Internet Information Server with support for ASP on.
- Microsoft .NET Framework 3.5 or higher installed.
- At least 2.4 GHz processor.
- At least 8 GB memory.
- Bandwidth at least 100 Mb, response time max. 100ms, network availability at least 99.9%.
- Port 1433(SQL Server) and port 80(IIS) must be open.
- Static IP address.
- During commissioning, the server must be accessible during the whole commissioning period and it must also be possible to transfer files to and from it.
- Administration login available.
- For installation/support, it must be possible to remote control the server via Teamviewer or VPN/RDP.

Installation of relevant programs on the server takes place before commissioning on site, this means that the above requirements must be fulfilled at least two weeks before installation.

Xp_cmdshell in SQL Server will be activated during installation of Compact Store. This is done to enable writing to text files, this function is mostly used by the Statistics module.

Backup

During commissioning, a job is scheduled so that backup is written to the local disk once a day. It is the customer's responsibility that this backup is transferred to an external drive.

Communication PC

Used for Installation of Software for Communication with Automated Vertical Storage Lifts.

The communication pc should be placed near the vertical lifts, this since this pc is connected directly to the lifts. On this communication pc, required communication software is installed such as Compact Talk and ExCom. This to be able to communicate with the lifts. On this pc MySQL is also installed this to handle the transactions sent to the lifts. Generally Ultra VNC and Team Viewer is installed on the pc this to be able to support the customer remotely.

- Windows 10, 32/64 bits
- At least 2.4 GHz processor
- At least 8 GB memory
- USB port, for any copying of files
- Microsoft .NET Framework 4.7.1 or higher installed
- Google Chrome or Microsoft Edge based on Chromium (Compact Store 7.37 and later)
- The PC has to be equipped with 1 extra network interface card for sub-network, see Communication Compact Store vertical storage lifts (No USB to storage lift)
- Power saving functions for the network interface card must be switched off
- Write access on
C:\Program Files (x86)\Compact Store\ExComm
- User Account Control (UAC) must be switched off
- The PC can access the server via the network
- During commissioning, the PC must be accessible during the whole commissioning period and it must also be possible to transfer files to and from it
- Administration login available
- User(s) should have local admin rights on the communication PC in order to restart services if this should be necessary (Compact Talk is run as a service under local system).
- For installation/support, it must be possible to remote control the PC via TeamViewer or VPN/RDP

Additional Requirements

- If G1 type lifts are to be used, the pc has to be equipped with a communication port (RS232).
- If scanners with a Bluetooth connection are to be used, the pc must be equipped with Bluetooth functionality.
- If label printers are to be used, these are connected to the pc as local printers, using TCP/IP type ports. This means that each printer must have a fixed IP address.

Installation of relevant programs on the pc takes place before commissioning on site, this means that the above requirements must be fulfilled at least two weeks before installation.

The communication pc can also be used as a server. However, this is not recommended.

Communication

Communication with Compact Store Automated Vertical Storage Lifts

Control of automated vertical storage lifts via Compact Store is carried out using Compact Talk software. It is recommended that Compact Talk is installed at the communication pc that is placed next to the automated vertical storage lifts.

The communication with second generation vertical storage lifts (G2) is in itself network-based (TCP/IP) and requires a network connection between the lifts and the communication pc.

The communication pc must be equipped with two network cards. One of them has to be configured for communication with the current network, and the other should be used to build a sub network for the vertical storage lifts.

The standard IP range used is:

IP: 192.168.11.0 – 192.168.11.255

Subnet mask: 255.255.255.0

The first pc network card should then be set to:

IP : 192.168.11.1

Subnet mask: 255.255.255.0

Note! If the standard IP Range cannot be used, this has to be communicated as soon as possible!

Extra equipment

Any other extra equipment is according to the configuration inquestion.

Pick Area PC - Used for Showing Distribution Screens in the Pick Area (Pick Plus module only).

- Windows 7 or 10.
- Processor: minimum 2,0 GHz.
- Memory: minimum 1 GB.
- The pc must be able to reach the server via the network. network

The communication pc can be used to show distribution screens in the pick area, but the operator will then have to shift between this screen and other screens manually.



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