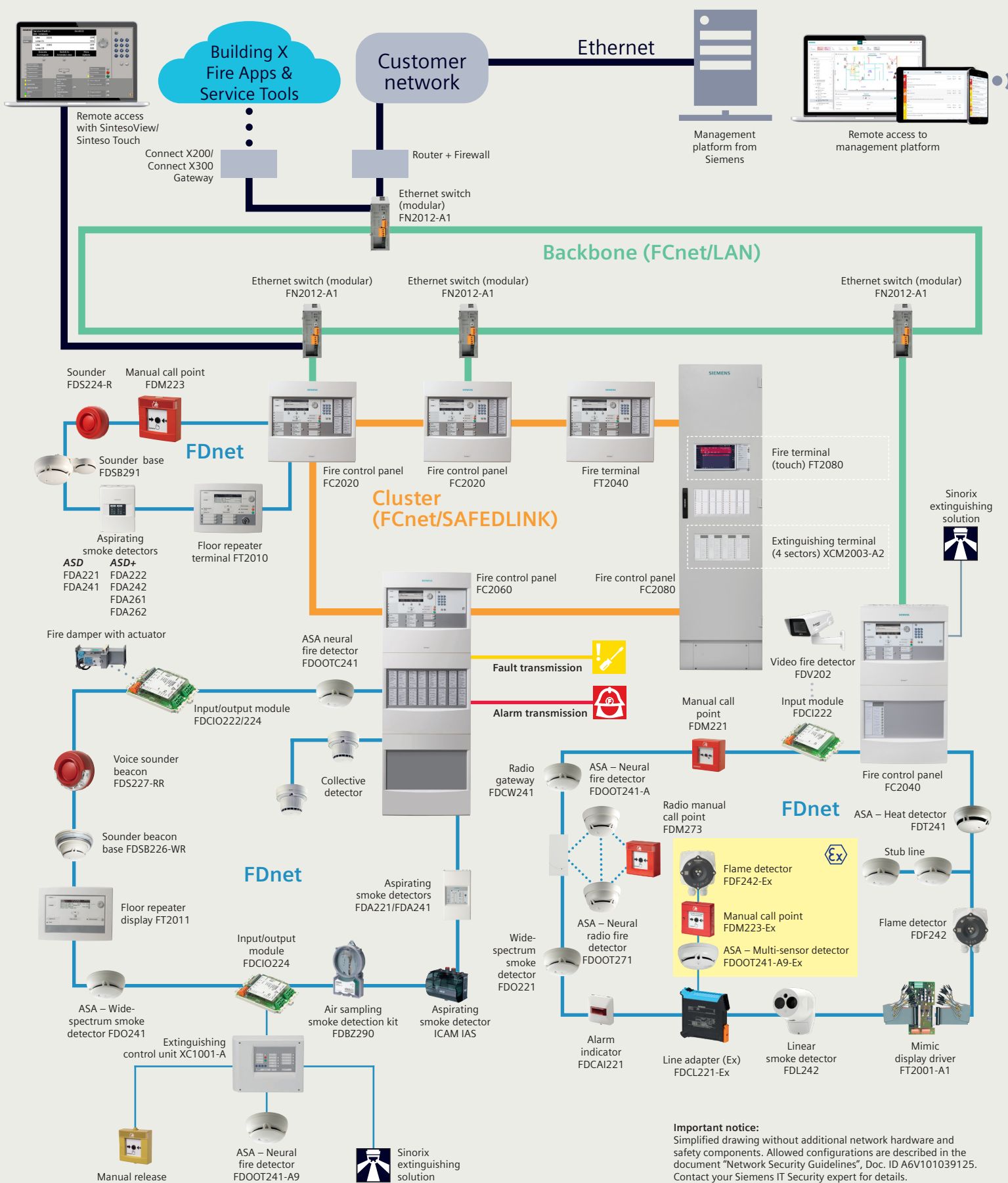


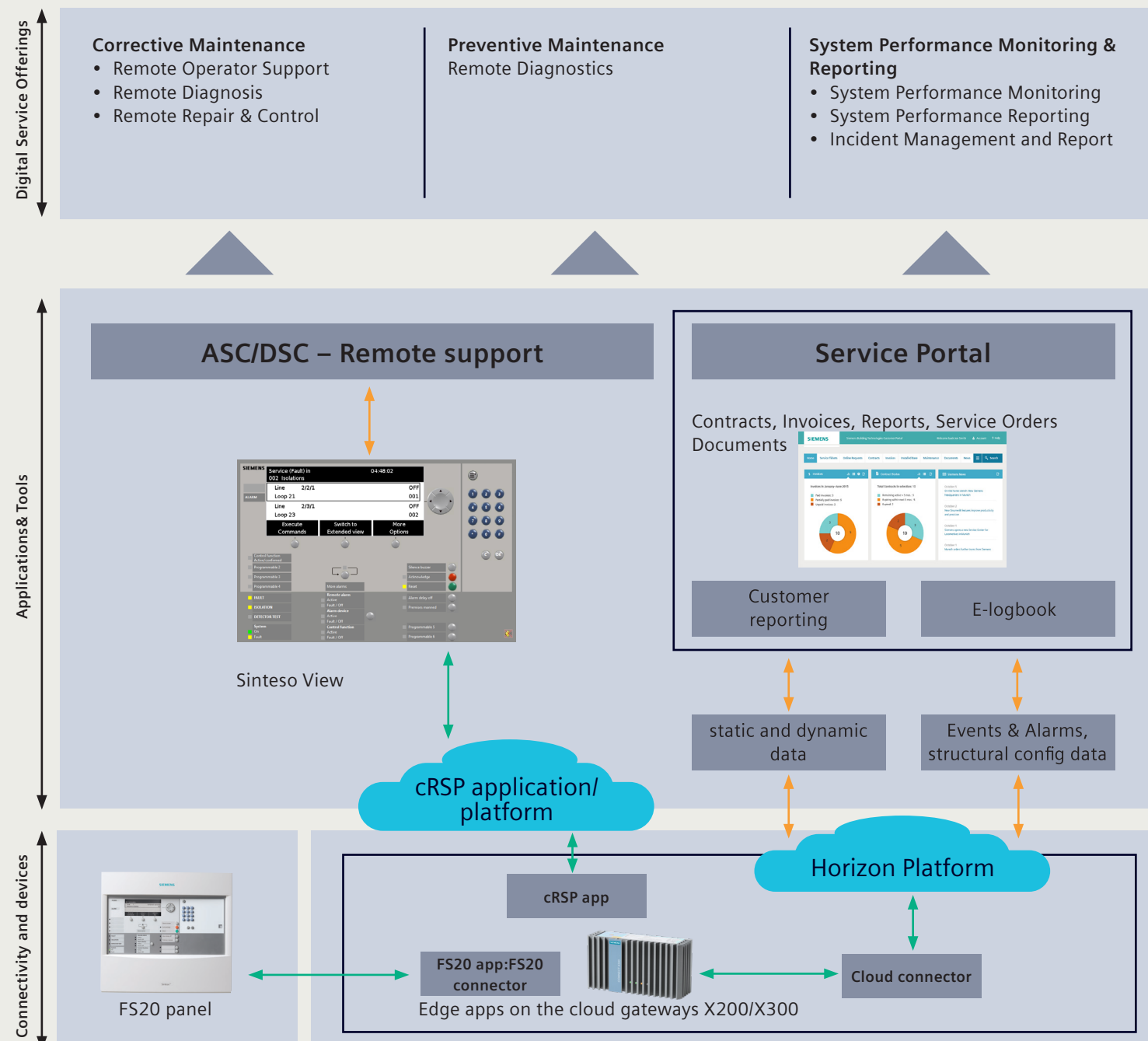
Sinteso panels, network and accessories

Planning Tool

Sinteso – Because smarter protection matters



Digital Service offerings with FS20 Sinteso system



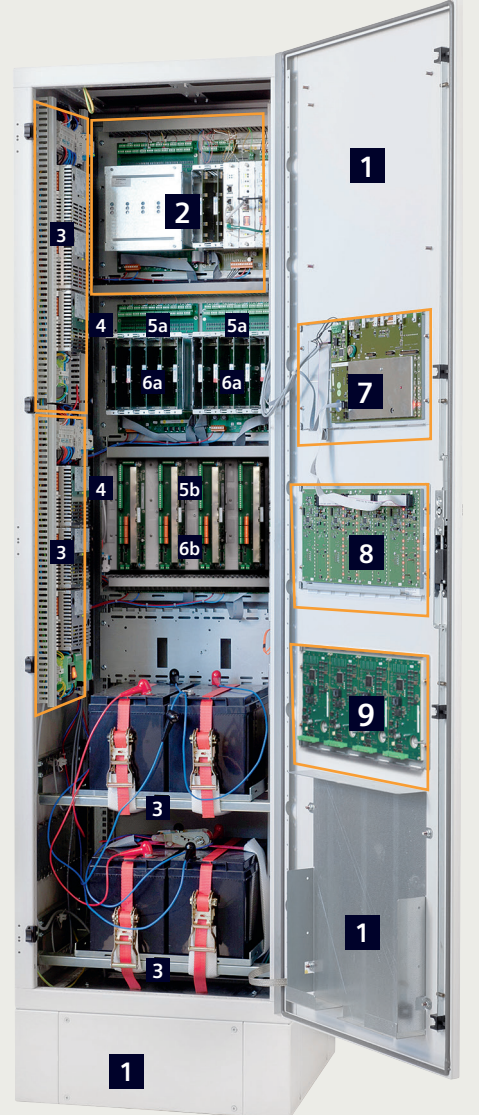
Siemens common Remote Service Platform (cRSP)

The cRSP is an Siemens-wide IT platform used to remotely access IP-based technical systems. Security, fire safety and comfort systems can be connected to the cRSP. Using cRSP, employees can view the customer systems for which they are authorized. The platform meets very strict security standards. Siemens was one of the first organizations in the world to implement an internationally recognized information security management system (ISMS) for remote services in accordance with ISO/IEC 27001.

Service Portal Features

- View and manage contracts and invoices
- View installed systems and history
- Request support and open tickets
- Track service tickets
- Generate and view reports
- View latest system status with E-logbook

Sinteso control panel FC2080 – uniquely safe and flexible



Power supply

- 3 Power supply 1 to 4x****
- Carrier (19", power supply) FHA2022-A1
- 1 to 4x**
- 19" carrier incl. 2x power supply (150 W) cascaded
- Order no.: S54400-824-A1

- Power supply kit (150 W, B) FP2005-A1**
- 0 to 1x per each FHA2022-A1
- For extending the FHA2022-A1 by 150 W
- Order no.: A5000018779

- Battery pan (19") FHA2021-A1**
- 1x per each FHA2022-A1
- Battery pan incl. 2x tension belts
- For max. 2x batteries 100 Ah (to be ordered separately)
- Order no.: S54400-823-A1

Mechanical installation

- 4 19" carriers**
- Carrier (19", card cage) FHA2023-A1 0 to 3x
- For max. 2x card cages (5 slots) FCA2008-A1
- Order no.: S54400-825-A1

- Carrier (19", option) FHA2024-A1 0 to 8x**
- For options, max. height 135 mm on two-level hat rail, length 430 mm; max. 1x key safe adapter SDA 300 (IFAM co.)
- Order no.: S54400-826-A1

- Extinguishing carrier (19", card cage) FHA2058-A1 0 to 2x**
- For max. 4x card cages FCA2046-A1
- Connection to the second 19" housing
- Order no.: S54392-87-A1

Extensions fire

- 5a Card cage 0 to 6x**
- Card cage (5 slots) FCA2008-A1
- Slots for max. 5 module bus cards
- Order no.: S54400-828-A1

- 6a Module bus cards 0 to 37x**
- Line card (FDnet) FCL2001-A1 0 to 30x
- 4x FDnet lines and max. 252 addresses
- Order no.: A5000009875

- Line card (collective) FCL2002-A1 0 to 30x**
- 8x collective lines
- Order no.: A5000010502

- Line card (MS9) FCL2003-A1 0 to 30x**
- 2x MS9 lines and max. 100 addresses
- Order no.: A5000010044

- Line card (AnalogPLUS) FCL2005-A1 0 to 30x**
- 4x AnalogPLUS lines and max. 126 addresses per line
- Order no.: S54400-A107-A1

- Line card (interactive) FCL2006-A1 0 to 30x**
- 1x interactive line and max. 126 addresses
- Order no.: S54400-A108-A1

- Line card (interactive Ex) FCL2007-A1 0 to 30x**
- 1x interactive Ex line and max. 32 addresses
- Order no.: S54400-A134-A1

Basic equipment

- 1 Pedestal cabinet 1x***
- Housing (19" pedestal cabinet) FH2080-AA
- Housing incl. base, door and plan compartment A3
- Dimensions incl. base: 601x220x615 mm (WxHxD)
- Order no.: S54400-C103-A1

- 2 Processor unit 1x***
- Processor unit (19", FC2080) FCC2002-A1 1x
- Card cage (CPU) with:
 - CPU card (FC2080) incl. network module (SAFEDLINK, CC) FN2010-A1
 - 1 free slot for an optional second CPU card (FC2080)
 - 2 free slots for module bus cards
 - Card cage (5 slots) with slots for max. 5 module bus cards
 - Cable kit for connecting an optional operating unit
 - Order no.: S54400-B17-A1

- CPU card (FC2080) FC2004-A1 0 to 1x**
- Second CPU card for redundant operation
- Order no.: S54400-A18-A1

- I/O card (FUE) FC12007-A1 0 to 7x**
- Transmission unit for alarms and faults
- Max. 1x per card cage (5 slots) FCA2008-A1
- Order no.: S54400-A20-A1

- I/O card (programmable) FC12008-A1 0 to 10x**
- 12x open collector inputs/outputs
- Order no.: S54400-A6-A1

- I/O card (sounder/monitored) FC12009-A1 0 to 7x**
- 8x monitored outputs
- Max. 1x per card cage (5 slots) FCA2008-A1
- Order no.: S54400-A21-A1

Extensions extinguishing

- 5b Card cage 0 to 8x**
- Card cage (1 sector) FCA2046-A1
- Order no.: S54392-88-A1

- Multi-sector extinguishing Cable kit (FCA2046-XCM2003) FCA2051-A1**
- Connection to the extinguishing terminal XCM2003-A2
- 1x per extinguishing sector
- Order no.: S54392-K13-A1

- Cable kit (FCA2046-XCM2046) FCA2049-A1**
- Connection to the next FCA2046 card cage
- Order no.: S54392-K15-A1

- Cable kit (FHA2053-FHA2053) FCA2048-A1**
- Connection to the next FHA2053 carrier
- Order no.: S54392-K16-A1

- Cable kit (2nd 19", FCA2053) FCA2050-A1**
- Connection to the second 19" housing
- Order no.: S54392-K14-A1

Extinguishing cards 0 to 8x

- Extinguishing card XC12005-A1 0 to 8x**
- Order no.: S54392-A7-A1

Operation

- 7 Operating unit 0 to 1x**
- Operating unit FCM2028-A2 0 to 1x
- Standard operating unit
- Communication over FCnet
- Order no.: S54400-B83-A1

- 8 Operating add-ons 0 to 2x*****
- Operating add-on (2xLED display) FCM2038-A2 0 to 2x per operating unit
- 48x LED groups
- Order no.: S54400-B146-A1

- Operating add-on (4xLED display) FCM2036-A2 0 to 1x per operating unit**
- 96x LED groups
- Order no.: S54400-B147-A1

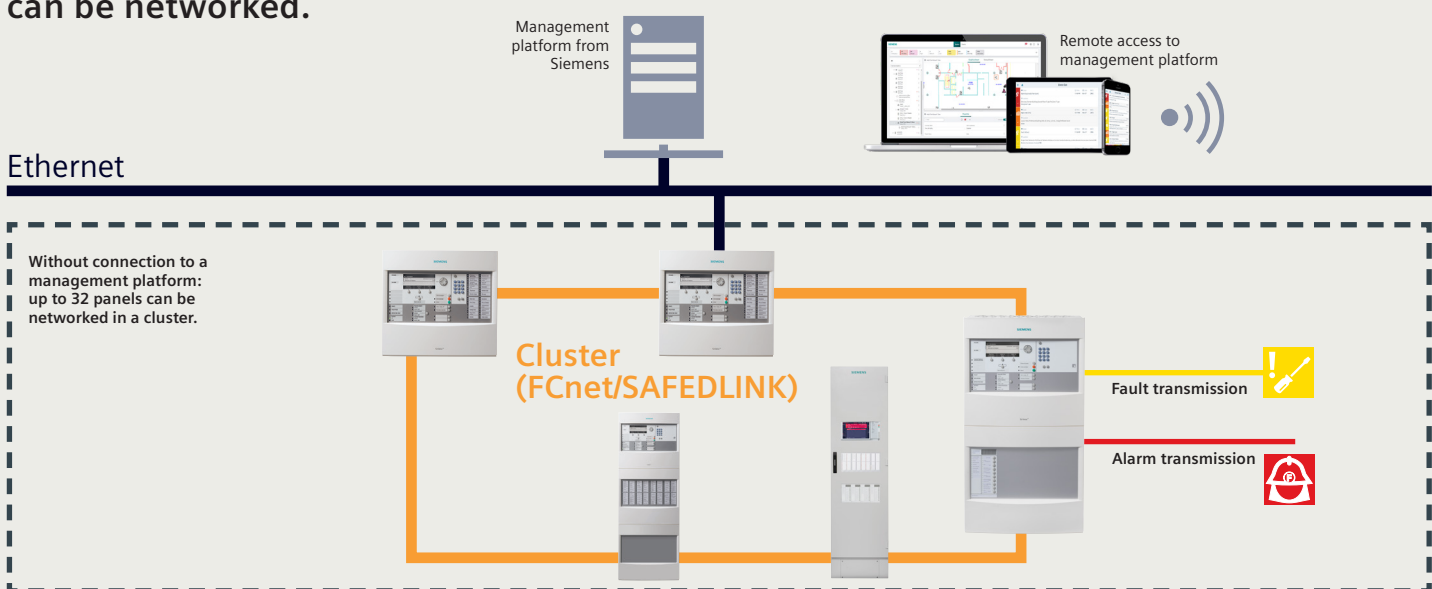
- 9 Extinguishing terminal 0 to 2x**
- Extinguishing terminal (4 sectors) XCM2003-A2 0 to 2x
- Order no.: S54392-84-A1

- Extinguishing terminal (1 sector) XCM2002-A2 0 to 2x**
- Order no.: S54392-83-A1

- * Number of units to be installed
- ** if 3 or 4; split into two housings
- *** max. 120 LED groups per operating unit

Topology 1

Up to 16 panels can be networked in a cluster (FCnet/SAFEDLINK) – if connected to a management platform. Without a management platform, even up to 32 panels can be networked.



Characteristics of topology example

- Easy networking of panels
- Operation of panels as standalone solution or networked with a total length of up to 1,280 km
- Existing cable infrastructure can be used

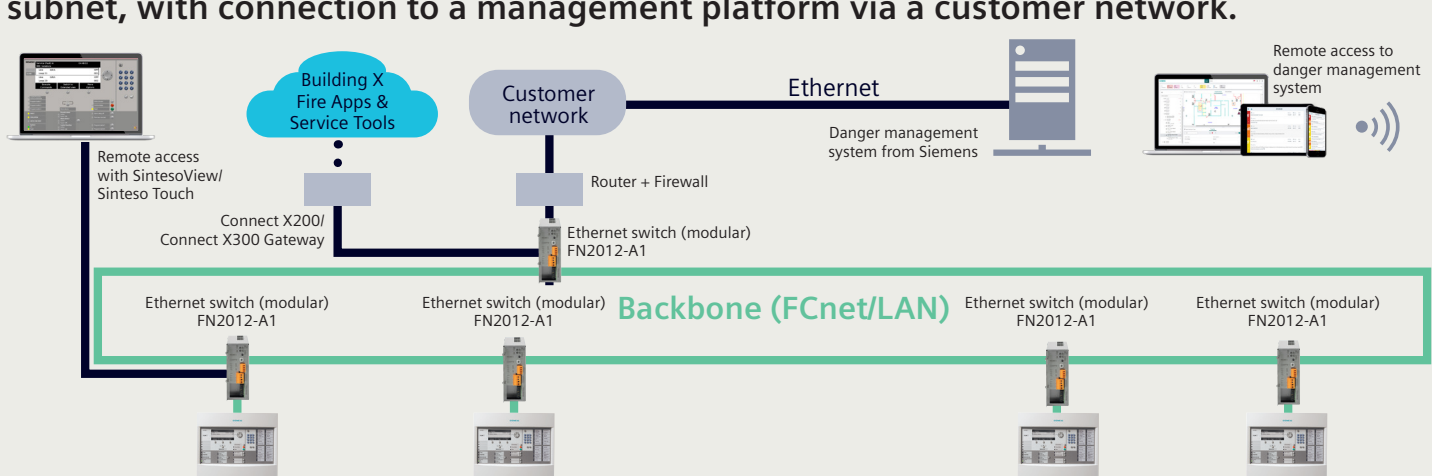
Key data

- Max. number of networkable panels: 32
- Max. number of networkable panels if connected to a danger management system: 16
- Max. distance between panels with copper cable:
 - without repeater: 1 km
 - with repeater (FN2002-A1): 2 km
- Max. distance between panels with fiber-optic cable:
 - multi mode (FN2007-A1): 40 km
 - single mode (FN2006-A1): 40 km
- Max. number of panels with system-wide view: 5

Important notice: Simplified drawing without additional network hardware and safety components. Allowed configurations are described in the document "Network Security Guidelines", Doc. ID A6V101039125. Contact your Siemens IT Security expert for details.

Topology 2

Up to 64 panels in one EN 54-compliant system using a backbone (FCnet/LAN) without subnet, with connection to a management platform via a customer network.



Characteristics of topology example

- EN 54-compliant networking of up to 64 panels via backbone
- Redundant transmission thanks to circular wiring
- Forwarding of degrade alarm over the FCnet/LAN is with MoNet module implemented
- Increased EMC protection thanks to fiber-optic cabling
- Configurable view of each panel
- Common remote transmission to the fire brigade
- Optional danger management system
- Remote access with Building X Fire Apps
- Better performance on BACnet communication from stations to Management platform

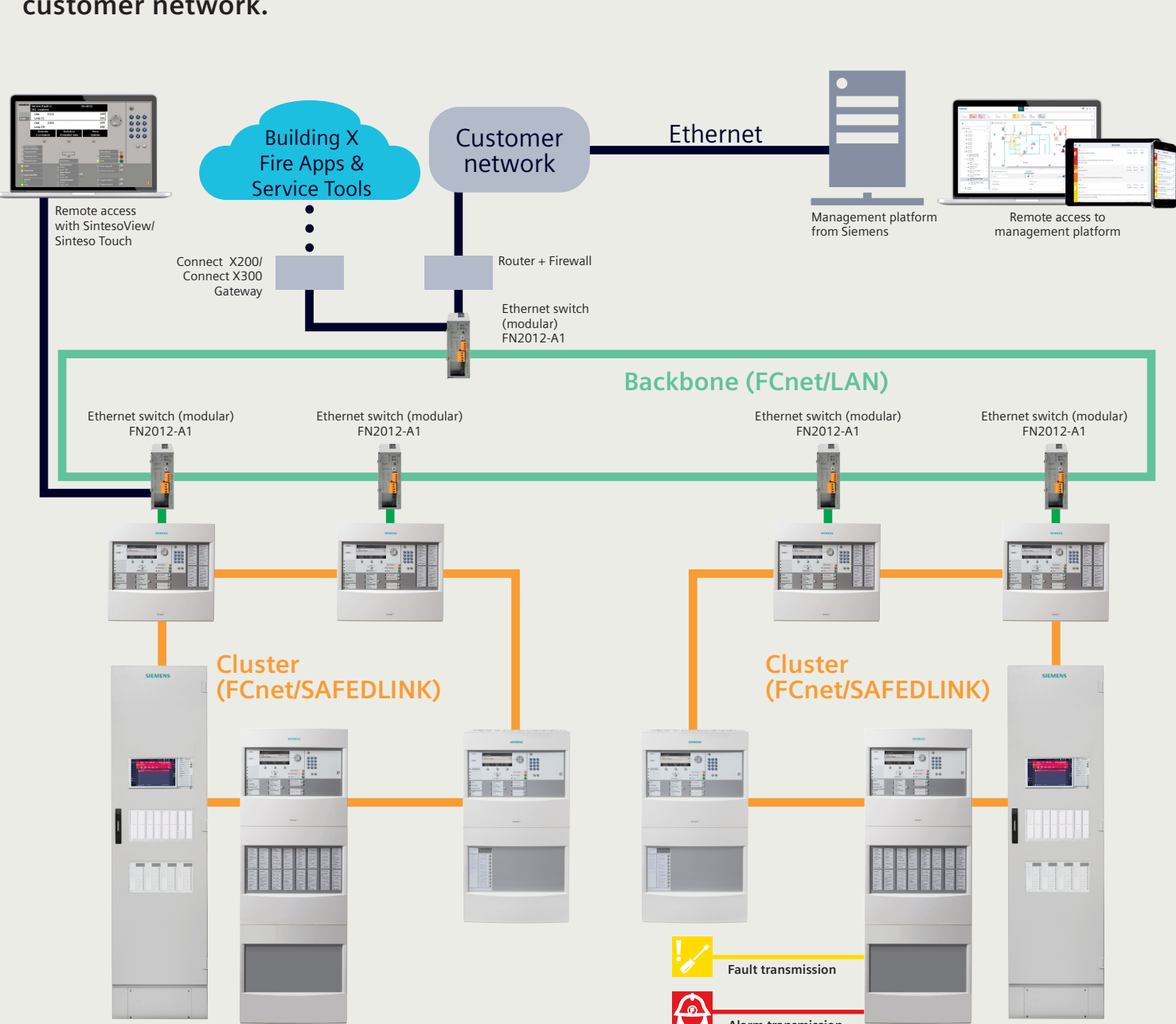
The FC2080 fire control panel and the FG2020 gateway can't be integrated into "FCnet/LAN without Subnetwork"

Key data

- Max. number of panels: 64
- Max. distance between panels:
 - multi-mode: 4 km
 - single mode: 40 km

Topology 3

Up to 64 panels in one EN 54-compliant system with widely varying combinations of clusters and backbone – and with connection to a management platform via a customer network.



Characteristics of topology example

- EN 54-compliant networking of up to 64 panels via backbone and cluster
- Extensive networks spanning long distances
- Highest system availability thanks to system-wide redundancy
- Panels in different clusters can communicate with each other
- Even with these network structures, a system-wide transmission system including firefighting periphery can be implemented at a central contact point
- Distributed building complexes can be ideally protected
- Backbone realized with fiber-optic cable

Key data

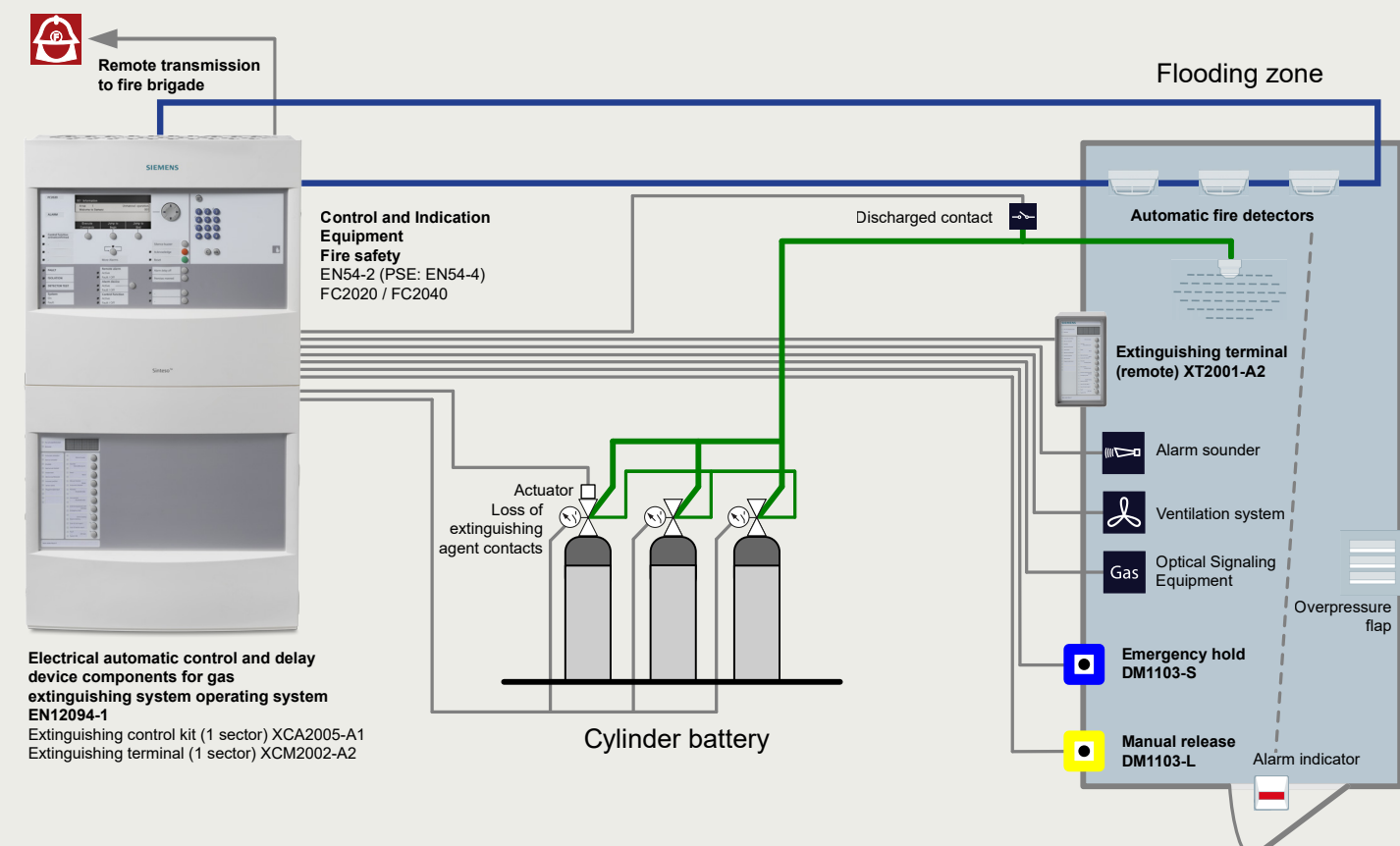
- Max. number of networkable panels incl. clusters (EN 54-compliant): 64
- Max. number of clusters: 14
- Max. number of networkable panels per cluster: 16
- Number of panels with system-wide view: 5

Important notice: Simplified drawing without additional network hardware and safety components. Allowed configurations are described in the document "Network Security Guidelines", Doc. ID A6V101039125. Contact your Siemens IT Security expert for details.

Integrated Extinguishing control planning

Single-sector extinguishing

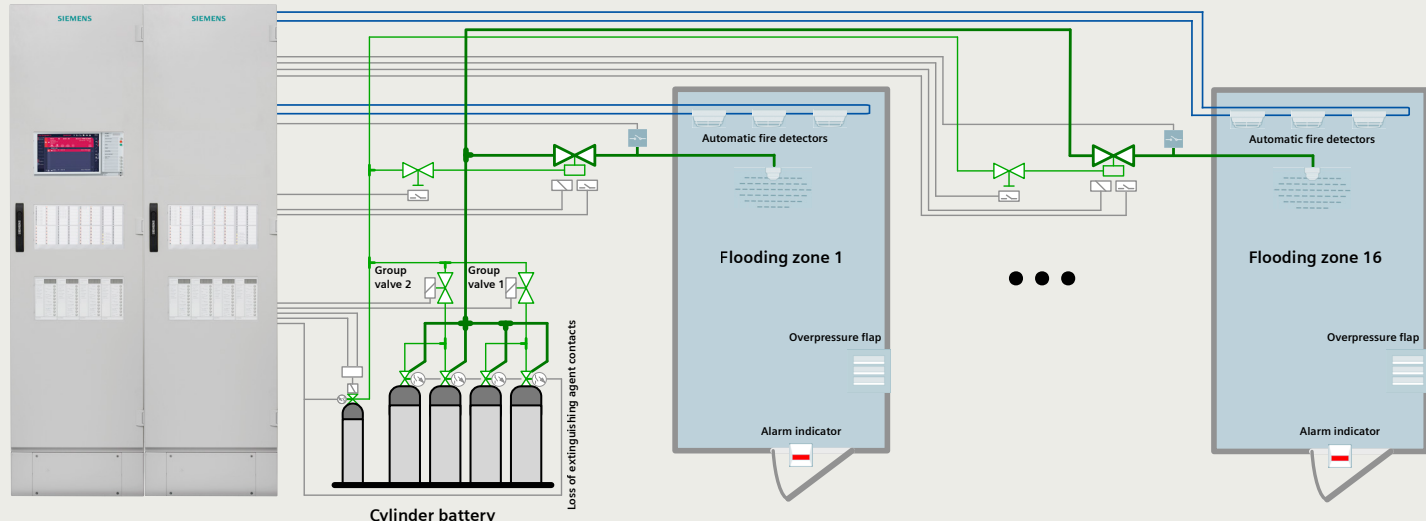
Combined fire detection and extinguishing control panel FC20 operating as a single-sector extinguishing system. FC20 works with most types of extinguishing systems for room or object protection. A single-sector installation consists of a single flooding zone and cylinder bank. In case of a fire, the extinguishing agent flows through the manifolds to the flooding zone and is distributed there by the nozzles. The system can be optionally configured with a reserve cylinder battery.



Caption:
FDnet
Electrical line
Monitors (distribution pipe)
Control pipe

Multi-sector extinguishing

Combined fire detection and extinguishing control panel FC2080 operating as a multi-sector extinguishing system. A multi-sector installation consists of a single cylinder bank shared with multiple flooding zones, via selector valves. In case of a fire in one of the flooding zones, the corresponding selector valve is opened and the necessary groups of cylinders are released. The extinguishing agent flows through the manifolds to the flooding zone. The system can also be optionally configured with a reserve cylinder battery.



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are binding only when they are expressly agreed upon in the concluded contract.
course of further development of the products. The requested performance features
specifically reflect those described, or which may undergo modification in the
contains general descriptions and/or performance features which may not always
subject to changes and errors. The information given in this document only
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Smart infrastructure intelligently connects energy systems,
buildings and industries to adapt and evolve the way we live
and work.
We work together with customers and partners to create
an ecosystem that intuitively responds to the needs of
people and helps customers to better use resources.
It helps our customers to thrive, communities to progress
and supports sustainable development.
Creating environments that care.
siemens.com/smart-infrastructure

Sinteso Planning Tool

Panels, network and accessories

SintesoView/Sinteso Touch

For remote operation using SintesoView and Sinteso Touch, a Windows-enabled device is either connected to the Internet or customer network via LAN, WLAN, or mobile network operator. The signals are then transmitted to an Ethernet switch that connects to the backbone. This connection is protected against unauthorized access by a firewall. A license key provides access to the fire protection system. The device serves as a virtual terminal, offering the same user interface as the operating station or panel (FT2080, FT2040, FC20xx) in the fire detection network.

Backbone (FCnet/LAN)

Clusters can be networked via an Ethernet backbone, using industrial LAN technology. Siemens is the first manufacturer who offers this as EN 54-approved solution. With standard IT architecture, building structures and organizational processes can be ideally represented.

Characteristics of networking via backbone

- Ethernet switch to connect a cluster (FCnet/SAFEDLINK) to the backbone (FCnet/LAN)
- Redundant transmission thanks to circular wiring
- Redundant connection possible due to two Ethernet switches
- Increased EMC protection thanks to fiber-optic cabling
- Easily programmable, EN 54-compliant system-wide control
- Configurable view of each panel
- Each panel can be used as a router panel (please read separate documentation).

Key data

- Max. number of panels in EN 54 system: 64
- Max. number of panels in a cluster: 16
- Max. number of networkable clusters: 14
- Number of panels placed directly on backbone: 4*
- Number of panels with system-wide view: 5*
- Max. distance between clusters

Fiber optic multi mode (FN2012-A1) with Ethernet module (MM) VN2002-A1): 4,000 m
Fiber optic single mode (FN2012-A1) with Ethernet module (SM) VN2003-A1): 40,000 m

* more with appropriate system topology

The following guidelines must be considered

- To fulfill the EN 54 norm, only 1 Ethernet switch is required to connect control panels with less than 512 fire detectors to the backbone.

Cluster (FCnet/SAFEDLINK)

Via the powerful FCnet/SAFEDLINK, up to 32 panels can be networked (fire control panels and fire terminals).

Characteristics of networking via the system bus

- Wiring with two-wire lines
- Redundant transmission thanks to circular wiring
- Increased safety due to degrade mode using a second network module
- No additional cabling necessary for degrade mode; even for systems with more than 512 fire detectors

Key data

- Max. number of panels in a cluster: 32
- Max. number of panels in a cluster if connected to a management platform: 16
- Max. distance between panels with copper cable: 1 km
- With repeater: 2 km
- Max. distance between panels with fiber-optic cable: 4 km
- Single mode (FN2006-A1): 40 km
- Max. number of panels with system-wide view: 5

FDnet

The FDnet (Field Device network) is a modern, multipurpose bus system. It allows rapid, fail-safe communication between the Sinteso™ bus elements and the fire control panel.

Characteristics of networking via the detector bus

- Use of all cable types (with/without shielding)
- Integration of radial cable networks without modifications to cable network
- No shielding necessary
- Turbo isolators for uninterrupted detection and alarming
- 2-wire loop
- Power supply to all bus elements via the FDnet (except input/output module FDCIO221, zone module FDCI223, "transponder" FDCIO223, extinguishing control unit XC10, aspirating smoke detectors FDA221/FDA241)

Key data

- Up to 40 T-taps
- Max. 252 bus elements per loop
- Cable lengths up to 3.3 km with up to 252 bus elements

Detailed planning information

Detailed information for planning of the system are available in the planning document, Doc. ID 008843.

Legend for the interfaces:

- Serial interfaces**
 - One each optional RS232 and/or RS485 interface (can also be freely combined)
 - Network to connect clusters
 - Network to connect Sinteso devices
- Backbone (FCnet/LAN)**
- Cluster (FCnet/SAFEDLINK)**
- FDnet**

- Extinguishing terminal (1 sector) XCM2002-A2**
 - Consisting of:
 - 1 extinguishing terminal
 - 4 extinguishing leds and push buttons
 - 4-digit display to show countdown pre-warning time
 - Order no.: S54392-83-A1

- Extinguishing terminal (4 sectors) XCM2003-A2**
 - For FC2080 only.
 - Consisting of:
 - 4 extinguishing terminals
 - Configurable leds and push buttons
 - 4-digit display to show countdown pre-warning time
 - Order no.: S54392-84-A1

- Operating add-on (2xLED incl.) XCM2038-A2**
 - This contains 48 display groups each with one green/led and one yellow LED. Any events can be allocated to the LEDs; 427x200x25 mm (WxHxD).
 - Optional: event printer FT02001-A1
 - Order no.: S54400-8146-A1

- Operating add-on (4xLED incl.) FCM2036-A2**
 - This contains 96 display groups each with one green/led and one yellow LED. Any events can be allocated to the LEDs; 427x200x25 mm (WxHxD).
 - Order no.: S54400-8147-A1

- Key switch Kaba FT02006-C1**
 - Kaba lock cylinder with installation accessories and keys Kaba 8 #100. Usable optionally for enabling operation.
 - Order no.: ASQ00010113

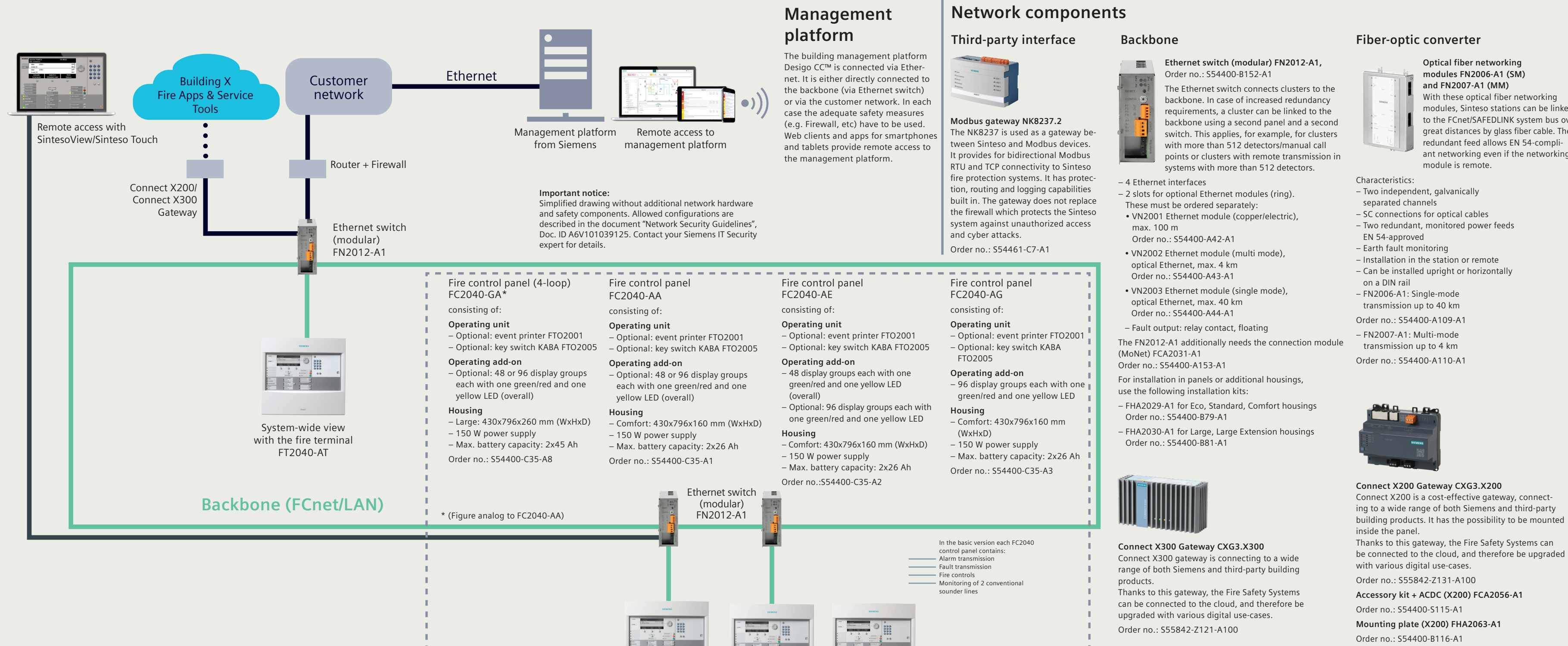
- Key switch Nordic FT02006-B1**
 - Key set with mounting accessories. Optionally applicable for operation clearance.
 - Order no.: ASQ00010129

- Extinguishing key switch Nordic XT02002-C1**
 - Order no.: S54392-812-A1

- Event printer FT02001-A1**
 - The event printer FT02001-A1 is installed directly in the control panel or in the terminal. It is a thermal printer which logs all events.
 - An RS232 module (isolated) FCA2001-A1 is required for operating the event printer. This is not contained in the printer set and must be ordered separately.
 - Order no.: ASQ00010126
- Event printer DL3750+**
 - Monitored external event printer for serial connection or via Ethernet.
 - Optional: RS232 module (isolated) FCA2001-A1
 - Order no.: ASQ00023962

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SIEMENS



Management platform

The building management platform Design CCM™ is connected via Ethernet. It is either directly connected to the backbone (via Ethernet switch) or via the customer network. In each case the adequate safety measures (e.g. Firewall, etc.) have to be taken. Web clients and apps for smartphones and tablets provide remote access to the management platform.

Important notice:
Simplified drawing without additional network hardware and safety components. Allowed configurations are described in the document "Network Security Guidelines", Doc. ID A6V101039125. Contact your Siemens IT Security expert for details.

Network components

Third-party interface

Modbus gateway NK8237.2
The NK8237 is used as a gateway between Sinteso and Modbus devices. It provides for bidirectional Modbus RTU and TCP connectivity to Sinteso fire protection systems. It has protection, routing and logging capabilities built in. The gateway does not replace the firewall which protects the Sinteso system against unauthorized access and cyber attacks.

Order no.: S54461-C7-A1

Backbone

Ethernet switch (modular) FN2012-A1, Order no.: S54400-8152-A1
The Ethernet switch connects clusters to the backbone. In case of increased redundancy requirements, a cluster can be linked to the backbone using a second panel and a second switch. This applies, for example, for clusters with more than 512 detectors/manual call points or clusters with remote transmission in systems with more than 512 detectors.

- 4 Ethernet interfaces
- 2 slots for optional Ethernet modules (ring).
- These must be ordered separately:
 - VN2001 Ethernet module (copper/electric), max. 100 m
 - VN2002 Ethernet module (multi mode), optical Ethernet, max. 4 km
 - VN2003 Ethernet module (single mode), optical Ethernet, max. 40 km
- Order no.: S54400-879-A1
- Fault output: relay contact, floating

The FN2012-A1 additionally needs the connection module (MoNet) FCA2031-A1
Order no.: S54400-A153-A1
For installation in panels or additional housings, use the following installation kits:

- FHA2029-A1 for Eco, Standard, Comfort housings
- FHA2030-A1 for Eco, Standard, Comfort housings
- FHA2030-A1 for Large, Large Extension housings

Order no.: S54400-881-A1

Order no.: S54400-879-A1

Order no.: S54400-879-A1

Order no.: S54400-879-A1

Order no.: S54400-879-A1

Order no.: S54400-879-A1

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Order no.: S54400-879-A1

Fiber-optic converter

Optical fiber networking modules FN2006-A1 (SM) and FN2007-A1 (MM)
With these optical fiber networking modules, Sinteso stations can be linked to the FCnet/SAFEDLINK system bus over great distances by glass fiber cable. The redundant feed allows EN 54-compliant networking even if the networking module is remote.

- Characteristics:
 - Two independent, galvanically separated channels
 - SC connections for optical cables
 - Two redundant, monitored power feeds
 - EN 54-approved
 - Earth fault monitoring
 - Installation in the station or remote
 - Can be installed upright or horizontally on a DIN rail
- FN2006-A1: Single-mode transmission up to 40 km
- FN2007-A1: Multi-mode transmission up to 4 km

Order no.: S54400-A109-A1

Order no.: S54400-A110-A1

Order no.: S54400-A110-A1

Order no.: S54400-A110-A1

Order no.: S54400-A110-A1

Order no.: S54400-A110-A1

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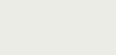
Order no.: S54400-A110-A1

Extension and networking options

Panels Slide-in/card options

	Line card (FDnet, P) FCL2000-A1 For 252 FDnet devices on max. 4 loops or 8 stubs. Order no.: S4400-A182-A1	Line card (collective) FCL2002-A1 To connect collective Siemens standard detectors on 8 stubs (MS79, MS24, DS11/Signaconi) SynoLINE600, FDOOT241-9 and FDOOT241-A9). Order no.: ASQ00010502	Line card (MS9) FCL2003-A1 For 2 MS9 addressable lines (max. 100 addresses). Order no.: ASQ00010044	Line card (AnalogPLUS) FCL2005-A1 For 4 addressable AnalogPLUS lines (max. 126 addresses per line). Order no.: S54400-A107-A1	Line card (interactive) FCL2006-A1 For 1 addressable interactive line (max. 126 addresses). Order no.: S54400-A108-A1	Line card (interactive Ex) FCL2007-A1 For 1 addressable interactive Ex line (max. 32 addresses). Order no.: S54400-A134-A1	IO card (FUE) FCI2007-A1 For alarm and fault transmission. Order no.: S54400-A20-A1	IO card (programmable) FCI2008-A1 For alarm and fault inputs/outputs with selectable behavior in degrade mode. Order no.: S54400-A6-A1	IO card (sounder/monitored) FCI2009-A1 For 8 monitored sounder lines or monitored outputs. Order no.: S54400-A21-A1
FC2020	✓	✓	✓	✓	✓	✓	✓	✓	✓
FC2030	✓	✓	✓	✓	✓	✓	✓	✓	✓
FC2040	✓	✓	✓	✓	✓	✓	✓	✓	✓
FC2060	✓	✓	✓	✓	✓	✓	✓	✓	✓
FC2080	✓	✓	✓	✓	✓	✓	✓	✓	✓

Panels Slide-in/card options

						
Network module (SAFEDLINK) FN2001-A1 With this module, the station can be networked via the cluster. For this purpose it is necessary to install a network module. In case of additional requirements in terms of the degrade mode function, 2 network modules can be installed. For example for: – Networked panels with more than 512 Dinet devices – Networked panel with connection to remote transmission and with more than 512 Fdnet devices Order no.: ASQ00012851	CPU card FCM2004-A1 For redundant CPU operation. Order no.: S54400-A18-A1	RS232 module (isolated) FCA2001-A1 This module is needed, for example, for operating an event printer. It is plugged into the PMI mainboard. The RS232 module is not contained in the set for the event printer. Order no.: ASQ0005327	RS485 module (isolated) FCA2002-A1 This is needed, for example, for operating the following modules: – Fire brigade display panel (FAT) [DE] – Fire brigade display panel with integrated fire brigade operating panel (FAT and F8) [DE & CZ] – EVAC module [NL] – UGA 20 [FR] The RS485 module (isolated) is plugged into the PMI mainboard. Order no.: ASQ0009923	Loop extension (FDnet, P) FCL2025-A1 The loop extension makes it possible to double the number of loops (e.g. from 2 loops to 4 loops or from 4 loops to 8 loops) while retaining a constant total number of addresses on the periphery board (e.g. 2 loops with 126 addresses each or 4 loops with 63 addresses each). Order no.: S54400-A185-A1	Sounder module FCA2005-A1 The sounder module has connections for 4 conventional sounder lines (primary lines; 4x up to 1 A, max. 2 A total). The sounder module is screwed to the assembly plate FFA2007-A1. Order no.: ASQ00014866	Extinguishing card XCI2005-A1 Consisting of: – Module for one extinguishing sector – 10 configurable monitored outputs (actuators, alarm and peripheral devices) – 10 configurable monitored inputs (monitoring of extinguishing devices) – 6 driver outputs – Connection for remote terminal Order no.: S54392-A7-A1 Card cage (1 sector exting.) FCA2046-A1 Consisting of: – Card holder for one extinguishing card Order no.: S54392-88-A1
FC2020	✓	–	✓	✓	✓	✓
FC2030	✓	–	✓	✓	✓	✓
FC2040	✓	–	✓	✓	✓	✓
FC2060	✓	–	✓	✓	✓	✓
FC2080	✓	–	✓	✓	✓	✓

1) Only usable on periphery board

License key	Without license key	S1 (FCA2033-A1)	S2 (FCA2034-A1)	S3 (FCA2035-A1)	S4 (FCA2036-A1)
Management platform from Siemens	✓	Order no.: S54400-P154-A1	Order no.: S54400-P155-A1	Order no.: S54400-P156-A1	Order no.: S54400-P157-A1

SintesoView, Sinteso Touch and BA/Cnet 3 rd -party provider (supervision)	✓	✓	✓	✓	✓
BA/Cnet 3 rd -party provider (supervision and basic commands)	✓	✓	✓	✓	✓
BA/Cnet 3 rd -party provider (supervision and basic commands)	✓	✓	✓	✓	✓
BA/Cnet 3 rd -party provider (activation and deactivation commands)	✓	✓	✓	✓	✓

Housings

Housing (Eco) FH2001-A1	Housing (Large extension) FH2004-A1	Housing (Large) FH2005-A1
– Max. battery capacity: 2x7 Ah	– Max. battery capacity: 2x65 Ah	– Max. battery capacity: 2x65 Ah
– 430x398x80 mm (WxHxD)	– 430x398x260 mm (WxHxD)	– 430x398x260 mm (WxHxD)
Optional: power supply kit (70 W) FP2003-A1	Optional: power supply kit (70 W) FP2003-A1 or	Optional: power supply kit (70 W) FP2003-A1 or
– Optional: event printer FT02001-A1	– Optional: 48 or 96 display groups each with one green/led and one yellow LED (overall)	– Optional: 48 or 96 display groups each with one green/led and one yellow LED (overall)
Order no.: ASQ00016865	Order no.: ASQ00018931	Order no.: ASQ00019543
Housing (Standard) FH2002-A1 <ul style="list-style-type: none">– Max. battery capacity: 2x12 Ah– 430x398x160 mm (WxHxD)Optional: power supply kit (70 W) FP2003-A1 or– Optional: power supply kit (150 W) FP2005-A1– Optional: event printer FT02001-A1– Optional: 48 or 96 display groups each with one green/led and one yellow LED (overall) Order no.: ASQ00018931	Housing (Comfort) FH2003-A1 <ul style="list-style-type: none">– Max. battery capacity: 2x26 Ah– 430x398x160 mm (WxHxD)Optional: power supply kit (70 W) FP2003-A1 or– Optional: power supply kit (150 W) FP2005-A1– Optional: event printer FT02001-A1– Optional: 48 or 96 display groups each with one green/led and one yellow LED (overall) Order no.: ASQ00020179	19" mounting kit FFA2016-A1 <ul style="list-style-type: none">Enables all fire control panels and operator terminals to be mounted in a 19" frame; 430x100x324 mm (WxHxD) Order no.: ASQ00020179