SIEMENS
Ingenuity for life

Cerberus® DMS Planning Tool

Making building protection smarter, easier, and more flexible

usa.siemens.com/cerberus-dms

Cerberus DMS architecture

Northbound gateways

| OPC DA (Data access) | E-mail, pager, text message (Third-party) | Web Services | Web via DMZ | Mobile app (Smartphones and tablets) |

Management level

- **Servers** — Server with installed client for full operation and engineering functionality
- **Installed client** — Full operation and engineering functionality
- **Front-end processor (FEP)** — Provides additional resources to connect systems; installed client for full operation and engineering functionality
- **Windows app client** — Downloadable Windows app client with full operation and engineering functionality
- **Web via DMZ**
- **Web clients** — Full operation and engineering functionality

Southbound gateways
Scalable from small to large systems

Fire | Video | SNMP | BACnet | OPC DA | Modbus

Fire safety and security					Third-party integration			
Type and version*								
Cerberus PRO FC922/924	Cerberus PRO Modular	FireFinder XLS	Siemens MXL 35.06J		Agents monitoring v1.0 and v2.0	B-AWS Rev. 1.13 (2013 standards)	DA 3.0 server DA 2.05a server	Modbus IP

Topologies

- Fire safety and security:
  - Cerberus PRO FC922/924: • Individual panel on Ethernet • C-WEB/SAFEDLINK • C-WEB/LAN backbone • Multiple networks supported
  - Cerberus PRO Modular: • XNET Fire Network — Multiple XNET networks supported (4 per server/FEP; 24 total – 1 server & 5 FEPs) — Up to 64 combined panels and management stations per XNET network • NCC-2F or SNF card in server/FEPs necessary
- Video: • Milestone XProtect Essential+, Express+, Professional+, Expert, Corporate • Siemens Siveillance VMS 50, 100, 200, 200 embedded, and 300

License data point

XLS Cards

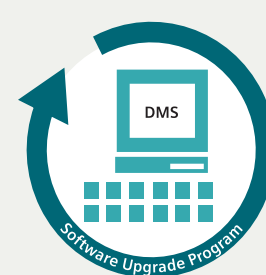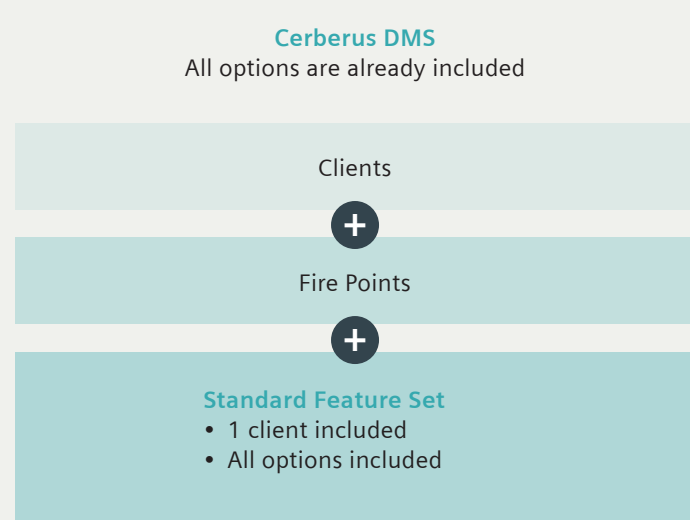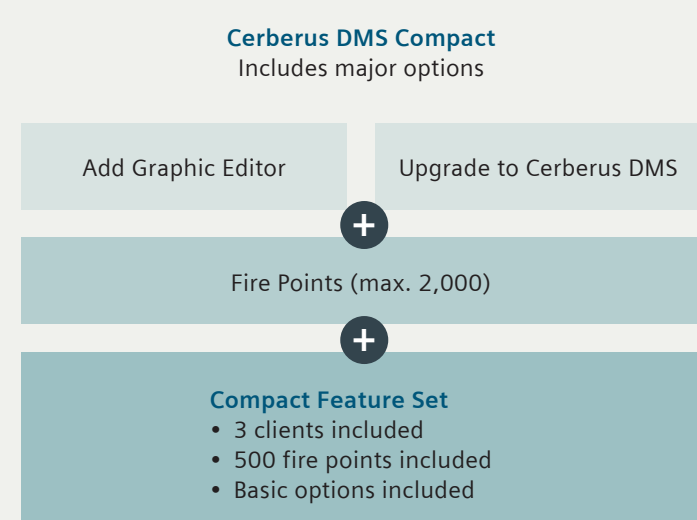| Cerberus PRO FC922/924	Cerberus PRO Modular		FireFinder XLS	Video	Agents monitoring	BACnet	OPC DA	Modbus
1 I/O device	1 I/O device	16 SIM-16 / 1 HCP	1 I/O device	1 Camera	1 SNMP object (e.g. printer, router, UPS)	1 BACnet object	1 OPC tag	1 Modbus property
1 Automatic detector	1 Automatic detector including VESDA	8 SCM-8 / 1 ZAM	1 Automatic detector	1 Monitor				
1 Manual pull station	1 Manual pull station	6 FCM-6 / 1 ZAC	1 Manual pull station					
		7 LVM						

Refer to the System Description document for a full list of subsystem versions supported by Cerberus DMS v3.0.

Licensing: Understanding your options

Cerberus DMS v3.0 is available in the Cerberus DMS Compact version that features select options or as the full Cerberus DMS suite with all options included.

Cerberus DMS Compact
Includes major options

| Add Graphic Editor | Upgrade to Cerberus DMS |

+

Fire Points (max. 2,000)

+

Compact Feature Set
- 3 clients included
- 500 fire points included
- Basic options included

Cerberus DMS
All options are already included

Clients

+

Fire Points

+

Standard Feature Set
- 1 client included
- All options included

Software upgrades: Annual Subscription or One-time Upgrade

Your Cerberus DMS comes with a one-year Software Upgrade Service (SUS) program with options to renew. You are encouraged to keep Cerberus DMS software up-to-date with the latest software version through the Software Upgrade Service program:

1. Maintain an Annual Subscription
2. Purchase a One-time Upgrade

Annual Subscription

- Latest version of software free of charge
- State-of-the-art features
- Best performance
- IT security updates
- Support of latest version of operating system

Every new Cerberus DMS installation includes free 12 month Software Upgrade Service subscription, which entitles the site to optionally install any new version within the first 12 months after the software is activated.

Annual Subscriptions are renewed for 12 months at a time by purchasing Service Upgrade Renewal (SUR) licenses that match each license installed on the Cerberus DMS.

Renew during the active subscription period or within 12 months of the subscription expiration (grace period) to receive the latest version of software and maintain your Software Upgrade Service subscription.

After the expiration of the grace period, the subscription is inactive and upgrades can only be obtained by purchasing One-time Upgrade licenses.

One-time Upgrade

- Remain on current version and upgrade at your convenience
- Continuously receive high level of maintenance and support of existing software version
- Best performance
- IT security updates
- Upgrade your software and receive support of the latest version of operating system

Every new Cerberus DMS installation includes free 12 month Software Upgrade Service subscription, which entitles the site to optionally install any new version within the first 12 months after the software is activated.

A Cerberus DMS with an inactive Software Upgrade Service subscription, where the subscription period and the grace period have expired, can purchase a One-time Upgrade.

Purchase the Software Upgrade and Subscription (SUS) licenses that match each license installed on the Cerberus DMS to receive the latest version of software and start a new 12 month Software Upgrade Service subscription.

Example: Site with active subscription for Software Upgrade Service
A site with a valid subscription automatically gets all new software releases without any additional charge. The subscription stays valid as long as it is purchased within the 12 month grace period. The site has all the new versions (V2.1, V3.0 and V3.1).

Example: Site with inactive subscription for Software Upgrade Service
The initial subscription for the software upgrade service was not renewed within the grace period and V3.0 was not automatically delivered at the time of the release. With the purchase of a software upgrade and subscription, the upgrade service gets reactivated and versions V3.0 and V3.1 become available for the site.

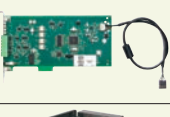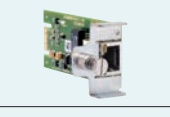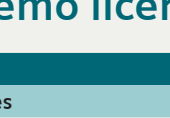Please note that software upgrade programs are managed using specific part numbers.

Building your Cerberus DMS Management Station

Addressing your immediate system needs & accommodating for the future

Included	Option/feature included		
—	Option not available/orderable seperately		
+	Option available as orderable license		

BUILDING STEP SUMMARY	Part number	Cerberus DMS Compact	Cerberus DMS Standard
1. Select feature set & options	**Feature set & options**		
	Compact feature set (CCA-CMPT-DMS)	P55802-Y110-A100	Included	—
	Standard feature set (CCA-STD-FSET)	P55802-Y114-A100	—	Included
	Summary Bar & Event List, Journaling, Macros, Time-based Reactions, Scheduler, Long-Term Storage, Reports, Standard Drivers (BACnet, OPC DA, Modbus, SNMP)	—	Included	Included
	Graphic Viewer	—	Included	Included
	Graphics Editor (CCA-OP-GRAPH-ED)	P55802-Y127-A300	+	Included
	Remote Notification (E-mail, pager, text message)	—	Included	Included
	Assisted Treatment	—	Included	Included
	Mobile App and Web Service Connections	—	Included (max. 5)	Included
	Scripting Engine and Event/value-based Reactions	—	—	Included
	Log Viewer	—	—	Included
	Distributed Systems	—	—	Included
	OPC DA Server	—	—	Included
2. Add additional clients	**Clients**		
	Clients Included	—	3 (max. 3)	1
	Add 1 client (CCA-1-CL)	P55802-Y119-A200	—	+
	Add unlimited clients (CCA-MAX-CL)	P55802-Y120-A200	—	+
3. Add the right disciplines	**Fire**		
	Included fire points	—	500 (max. 2,000)	None
	Add 100 fire points (CCA-100-FIRE)	P55802-Y158-A412	+	+
	Add 500 fire points (CCA-500-FIRE)	P55802-Y158-A452	+	+
	Add 5,000 fire points (CCA-5000-FIRE)	P55802-Y158-A453	—	+
	Add 10,000 fire points (CCA-10000-FIRE)	P55802-Y158-A414	—	+
	Video			
	Included video cameras	—	None (max. 128)	None
	Video option for external VMS integration	—	Included	Included
	Video option for embedded VMS (CCA-V-PLUS) [includes Siveillance VMS 200 embedded, 8 monitors, & 8 embedded camera]	P55802-Y159-A300	+	+
	Add 16 external cameras (CCA-V-16EXTC)	P55802-Y161-A401	+	+
	Add 128 external cameras (CCA-V-128EXTC)	P55802-Y161-A412	+	+
	Add 16 embedded cameras (CCA-V-16EMBC)	P55802-Y162-A401	+	+
	Add 16 monitors (CCA-V-16MON)	P55802-Y160-A401	+	+
	Add 128 monitors (CCA-V-128MON)	P55802-Y160-A412	+	+

4. Select a UL/ULC computer	**Step 4a: Computer packages**		**Selection guide**
	UL/ULC HW category B computer, 22" LCD monitor, SNC card, Software DVD, (no software licenses included) – (DMS-CATB-PKG-SM)	S54465-C76-A2	Medium server (up to 19,000 points), Client, Large FEP (max. 4 SNC cards)
	UL/ULC HW category B computer, 42" LCD monitor, SNC card, Software DVD, (no software licenses included) – (DMS-CATB-PKG-LM)	S54465-C77-A1	
	Step 4b: Build your own package		
	Select a computer		**Selection guide**
	UL/ULC HW category A computer, Windows 10, SNC card, Management Station Utility, (No Monitor, Software DVD, or software licenses included) – (UHW-CATA-01)	S54465-C73-A1	Client, Small server (up to 8,000 points), Small FEP (max. 2 SNC cards) *Not recommended as Video Surveillance Client
	UL/ULC HW category B computer, Windows 10, SNC card, Management Station Utility, (No Monitor, Software DVD, or software licenses included) – (UHW-CATB-01)	S54465-C73-A2	Medium server (up to 19,000 points), Client, Large FEP (max. 4 SNC cards)
	UL/ULC HW category C computer, Windows Server 2012 R2, SNC card, Management Station Utility, (No Monitor, Software DVD, or software licenses included) – (UHW-CATC-01)	S54465-C74-A1	Large server (up to 42,000 points)
	UL/ULC HW category D computer, Windows Server 2012 R2, SNC card, Management Station Utility, (No Monitor, Software DVD, or software licenses included) – (UHW-CATD-01)	S54465-C74-A2	Extra large server (up to 66,000 points)
	Select a monitor		
	UL/ULC 22" LCD Monitor, desktop mount – (UHW-0000-22L-L)	S54465-C8-A2	
	UL/ULC 42" LCD Monitor, wall mount – (UHW-0000-42L-L)	S54465-C9-A2	
	Add the Cerberus DMS DVD		
	Cerberus DMS Installation DVD & Instructions – (DMS-SW-PKG-3P0)	S54465-C77-A2	

5. Select optional network interfaces	**Network interfaces**		**Selection guide**
	Serial Network Card interface (XNET) between management station and Cerberus PRO Modular, FireFinder XLS, and MXL – (SNC)	S54400-N1-A1	One SNC is provide with each UL/ULC listed computer. Select if multiple XNET fire networks need to be connected to a server/FEP.
	Monitoring Only interface (XNET) between management station and Cerberus PRO Modular, FireFinder XLS, and MXL – (MOSA)	S54400-C62-A1	Select the MOSA for monitoring only applications using non-UL/ULC listed computers.
6. Select network switches	**Network switches**		**Selection guide**
	Multi-mode fiber ethernet switch. UL listed – (Scalance X204-2)	500-650537	For UL applications, select the Scalance X204-2 or Scalance X204-2LD Ethernet switches.
	Single-mode fiber ethernet switch. UL listed – (Scalance X204-2LD)	S54430-A6-A1	
	Ethernet switch (modular) with CAT5, Multi-mode, and Single-Model Ethernet module options. UL & ULC listed – (FN2012-A1)	S54400-B152-A1	For ULC applications, select the Ethernet switch (modular) FN2012-A1 and appropriate Ethernet modules (VN2001-A1, VN2002-A1, VN2003-A1).
	Electric/CAT5 Ethernet module for modular Ethernet switch (FN2012-A1). UL & ULC listed – (VN2001-A1)	S54400-A42-A1	
	Multi-mode fiber Ethernet module for modular Ethernet switch (FN2012-A1). UL & ULC listed – (VN2002-A1)	S54400-A43-A1	**Note:** This switch can be used for UL applications, however, the Scalance X204-2/X204-2LD switches are recommended for UL applications.
	Single-mode fiber Ethernet module for modular Ethernet switch (FN2012-A1). UL & ULC listed – (VN2003-A1)	S54400-A44-A1	

Engineering & demo licenses

License options	Orderable licenses	Part number (SSN)
Option 1 – engineering licenses		
• Time-limited (12 months), renewable licenses • Only available as "dongle-based" • All Cerberus DMS software features for all versions (size and options) are enabled	**CMD.04 LMS Micro Dongle** Physical license key for Cerberus DMS (CMD.04 Micro Dongle)	S55802-Y148
	CCA-ENG CC engineering CC engineering license for 12 months	P55802-Y130-A100
Option 2 – one-shot license		
• Valid for two months – extendable for an additional month • Only available **without dongle** • All option features are enabled excluding the size features; to activate the size features, the customer license is needed	**CCA-STARTUP-BASE**	P55802-Y131-A100
Option 3 – demo license		
• Valid for 12 months • Standard feature set with all options included • Includes 2 clients, 50 fire data points, 100 SCADA data points, 50 security data points, 16 external doors, 8 monitors, 8 external and embedded cameras • External systems such as SiPass and VMS are not included	**CCA-DEMO**	P55802-Y140-A100

Estimating a project

Hospital

Understand customer needs
• Provide maintenance staff a place a central place to Command & Control the fire system in an efficient manner.
• Provide key personal fire system notifications while onsite or at home.
• Site graphics are not needed.

Identify systems to integrate & point count
• 6 networked Cerberus PRO modular panels
• Total of 1423 addressable fire points (detectors, pull stations, I/Os)

Determine the hardware and software characteristics
• 1x – Cerberus DMS compact feature set (CCA-CMPT-DMS)
• 2x – License for 500 fire points (CCA-500-FIRE)
• 1x – Cerberus DMS Computer Package with 22" monitor (DMS-CATB-PKG-SM)

University campus

Understand customer needs
• Manage multiple systems in a uniform way across a geographically extended area
• Provide maintenance staff a central place to manage the fire system and monitor several restricted access areas with video feeds.
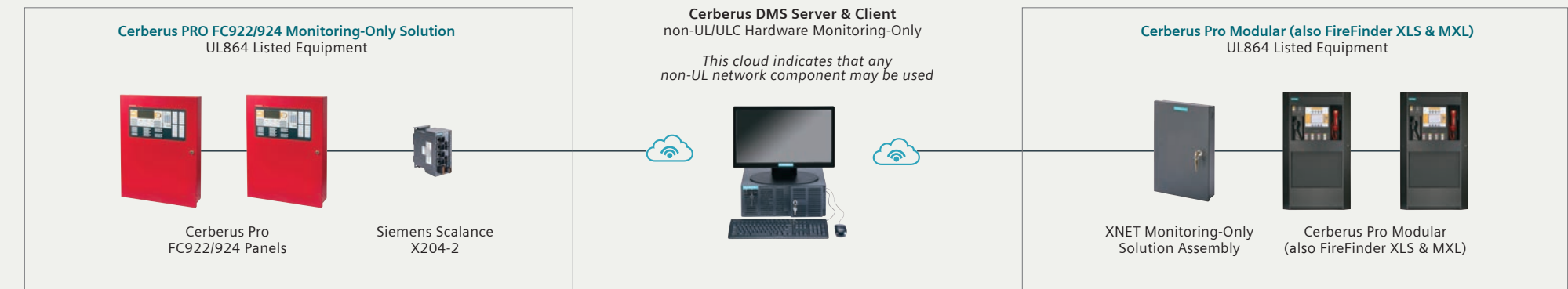• Provide key personal fire system notifications while onsite

Identify systems to integrate & point count
• 10 networked Cerberus PRO Modular panels (Command & Control)
• 4 networked Cerberus PRO panels (Command & Control)
• 1 remote stand-alone Cerberus PRO Modular panel (Monitoring-only)
• Total of 9,130 addressable fire points (detectors, pull stations, I/Os)
• 5 video cameras

Determine the hardware and software characteristics
• 1x – Cerberus DMS feature set (CCA-STD-DMS)
• 1x – License for 10,000 fire points (CCA-10000-FIRE)
• 1x – License for Video Option Plus Includes SiVMS 200 embedded, 8 monitors, and 8 embedded camera licenses (CCA-V-PLUS)
• 1x – Cerberus DMS Computer Package with 22" monitor (DMS-CATB-PKG-SM)
• 1x – XNET Monitoring-only interface (MOSA)
• 1x – UL-listed Ethernet switch, multi-mode fiber (Scalance X204-2)

Monitoring only solutions

Cerberus DMS monitoring-only solutions
• Provide the capability **to monitor one or more fire panels** using the building network infrastructure and commercial-off-the shelf computers
• Reduce the cost entry point while providing site-wide situational awareness capabilities and event notifications
• Provide an entry point to a management station that can grow in size and capability as customer needs expand

More information at: http://www.brainshark.com/siemens/CDMS-Monitoring-Only-Solutions/

Cerberus PRO FC922/924 Monitoring-Only Solution
UL864 Listed Equipment

Cerberus DMS Server & Client
non-UL/ULC Hardware Monitoring-Only
This cloud indicates that any non-UL network component may be used

Cerberus Pro Modular (also FireFinder XLS & MXL)
UL864 Listed Equipment

Start with monitoring only and move to full command & control when customer needs expand!
1. Upgrade to UL/ULC server (and clients).
2. Cerberus PRO FC922/924 – add additional switch and use dedicated fiber between switches.
3. Cerberus PRO Modular – use dedicated copper or fiber with fiber interface modules between server interface card and NIC-C card.
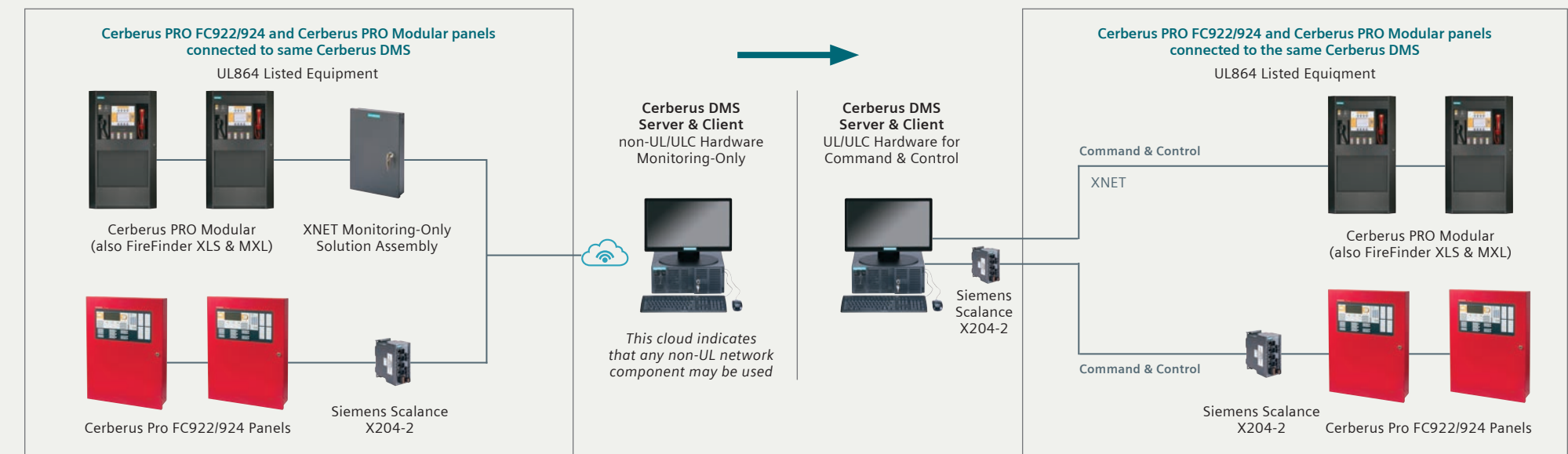
Cerberus DMS migration for NCC and MM8000

Smooth migration with NCC and MM8000 conversion tools
Migration of NCC and MM8000 projects to Cerberus DMS is simple. Cerberus DMS v3.0 provides conversion tools from where it is possible to import MM8000 Composer projects or NCC exported graphics.

Migration tools available from:

• NCC v8.x and earlier – If migrating NCC graphics, older versions have to be first upgraded to NCC v8.0.
• MM8000 MP4.50 onward – Older versions have to be first upgraded to MM8000 MP4.50 or newer in order to be modernized to Cerberus DMS v3.0.

Enhanced operational capability with Cerberus DMS
• Remote notification (email, SMS, mobile app) for enhanced awareness
• Remote access for offsite diagnostics
• Monitor, command & control multiple fire networks with one system
  – Cerberus PRO FC922/924
  – Cerberus Pro Modular
  – FireFinder XLS
  – MXL
• Extended site monitoring with multiple XNET connections and monitoring only solutions
• Assisted treatment to step operators through the procedure to handle an event

Geographical trees and graphics after migration
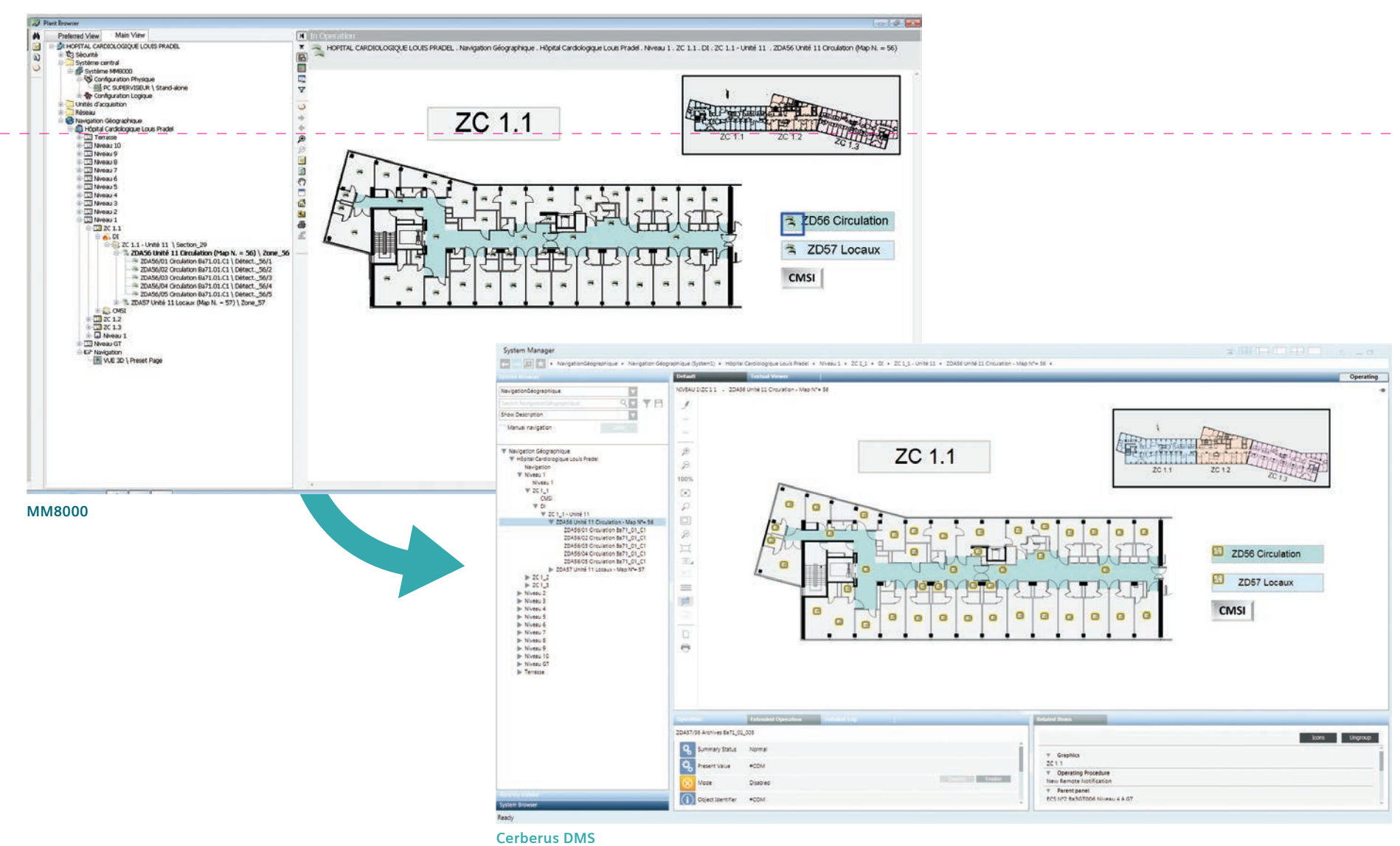
1	Import configuration file of subsystems into Cerberus DMS	2	NCC: Export graphics from NCC	3	NCC: Import the graphics into Cerberus DMS
		2	MM8000: Import MM8000 Composer backup file into Cerberus DMS	3	MM8000: Select the geographical trees and graphics to be converted

License model to support migration

The migration program gives customers the option to move a site from an older management station from Siemens to Cerberus DMS at an attractive discount rate. There are two discount policies that can be applied based on the type and version of the legacy system to be migrated.

Product/service	Available for		
Privileged Software Migration (PSM)	NCC v8.0 and higher	MM8000 v4.80 and higher	MM8000 project with umbrella contract
Standard Software Migration (SSM)	Any older version of NCC	Any older version of MM8000	LMS modular (all versions)