Cerberus® DMS
Danger Management Station
(*version* 3.0)

Architect & Engineer Specifications

☐ **Industry-leading, pane-based management station that provides critical data in a single view**
- Constant display of all active events
- Highest priority events are highlighted
- User Interface (UI) can be configured to support basic-to-advanced needs
- User profiles can be created, based on various end-user needs

☐ **Built on a robust Siemens platform that is used worldwide in critical installations**

☐ **Full integration of video surveillance and fire-safety systems**
- One (1) platform to learn and maintain

☐ **Smart system that anticipates needed data and provides the information automatically**
- Enables faster, more accurate response to critical events

☐ **Integrates multiple networks for FireFinder®, MXL, Cerberus 252 / 504-point addressable and Cerberus PRO Modular systems**

☐ **Monitors and controls up to 63 XLS / Modular FACPs; 32 Cerberus PRO FACPs per network, and up to 66,000 addressable detection devices**
- Supports CO detection with ASA*technology*™

☐ **Automatic or manual Remote Notification (ReNo) of events via email | text message | page**

☐ **Supports leading open standards: BACnet, OPC, Modbus and SNMP**

☐ **Agency-listed for remote access (monitoring only) via a Virtual Private Network (VPN) connection**

☐ **UL Listed to 864 9th Edition Standard** *for Control Units & Accessories* (for `Command & Control')

☐ **ULC Listed to ULC-S527 Standard for** *Control Units and Fire Alarm systems 2nd& 3rd Edition* (for `Command and Control') and ULC-S559 for *Equipment for Fire Signal Receiving Centre and Systems – 3rd Edition*

☐ **UL and ULC recognized as an ancillary annunciator when used with a non-UL864 / ULC-S537-11 Listed computer that is connected to a Cerberus 252 / 504-point addressable, FireFinder or Cerberus PRO Modular FACP:**
- MOSA used for monitoring-only connection with Siemens Modular, FireFinder, and MXL FACPs
- Model SCALANCE X204-2 /-2LD switch for connection with Cerberus PRO FACPs, offering a cost-effective, monitoring-only solution

☐ **CSFM (#7165-0067:0267) for** *Fire Alarm Control Unit Accessories*

Introduction

The Cerberus Danger Management Station (DMS) from Siemens – Fire Safety provides an integrated, useful approach to managing and controlling facilities from a flexible, easy-to-use interface. Cerberus DMS also provides facility-wide efficiencies, cost-effective data sharing, faster event management, and better decision-making.

Cerberus DMS software operates on UL / ULC Listed hardware that has passed rigorous performance and environmental tests.

Cerberus DMS, which is ideally suited for monitoring and controlling FireFinder XLS, MXL and Cerberus PRO Modular FACPs, also serves as the management station for Cerberus PRO 252 / 504-point addressable systems.

Server | Client Design

Cerberus DMS has a flexible, full-system design that integrates and enables customized workflow configurations. Cerberus DMS can be installed on a single computer, providing complete client / server system compatibility.

The server hosts all data for the management station. Full control of a Cerberus DMS can be transferred from the server to a client. A front-end processor (FEP) communicates data from a given MXL **|** FireFinder XLS **|** Cerberus PRO Modular **|** Cerberus PRO 252/504-point addressable FACPs.

User Interface

A Cerberus DMS User Interface (UI) displays all critical data in a single view, therefore providing faster, more accurate response to events. Additionally, it makes Cerberus DMS easy-to-use, learn. The following components comprise an UI:

Summary Bar

The Summary Bar serves as an important source of data for Cerberus DMS event management, and highlights current system status with clear indication of current-event priorities. Event lamps for `Alarm' **|** `Trouble' **|** `Supervisory' events are highlighted with different colors when events occur. The top two (2) priority events in the system that are currently active are displayed in the Summary Bar. The Summary Bar is visible at all times.

Event Bar

The Event-Bar feature of a Cerberus DMS User Interface displays a lamp for all active events currently in the system, and is visible on the User Interface at all times.

Pane-Based Workflow

The User Interface has well-defined, pane-based workflow that keeps essential data in front of each end-user with no overlapping windows. End users can navigate the system through Systems Manager or via graphical interface. Panes can be tailored to the user-specified requirements for a specific commercial facility.

Pane-based workflow provides the following features:

System Manager – used for navigating Cerberus DMS to view and control conditions; to analyze historical operation, as well as to configure Cerberus DMS.

The System Manager uses a common, consistent workflow for all system navigation.

Additionally, the System Manager allows the end user to either select from traditional applications in `Applications View', or permits user-specified navigation in `Management View', guiding the end-user to the most relevant data (*e.g. – selecting a certain part of the commercial complex for further detail, analysis*).

Primary Pane – The Primary Pane is used to show data that is critical to event response. This includes device data; key graphics of a part of an edifice (*e.g. – campus layout*) and floor-layout plans that show the location of selected devices or those that are in `Alarm' mode.

Secondary Pane – The Secondary Pane is used to display additional critical data, including:

- A Reaction Processor that can be used for defining simple, time-based activities that include:
  - scheduling backups, trend collections and reports

Related-Items Pane – Items such as operating procedures and other information that has been linked to specific devices are listed in this pane.

When a device is selected – either by the operator or by Cerberus DMS (based upon an active event in the management station), all of the data that has been linked to that device is displayed and made available in the Related Items pane.

Text Pane – The Text Pane provides a summary of the current value and status of any selected object without any prior system configuration. This is a convenient feature for obtaining an overview of system and / or device status.

Investigative Treatment for Event Management – Cerberus DMS provides rapid response to system events through Investigative Treatment. When a system event occurs, Cerberus DMS will find the device that is the event source in System Manager, and will populate data associated with that device, including graphics and specific information about the device.

Operating & Engineering Modes

The Cerberus DMS Manager provides two (2) separate modes for system use: Operation and Engineering.

Operating & Engineering Modes

In Operating Mode, the end-user has the ability to monitor and control the system; address events, and analyze current and historical data. Configuration changes, on the other hand, are possible via Engineering Mode.

Additionally, every user who is granted access privileges for system configuration can toggle Cerberus DMS into Engineering Mode, where system parameters can be set and user accounts can be managed. This is a powerful feature that should be limited to only a few advanced users.

Event List

The Event List provides a full, easy-to-filter list of all active events in the system. The Event List gives clear indication of each event's source and current status. Custom messages and suggested action steps are displayed to the end-user, via the use of text, color and icon representations.

System events can be `Acknowledged' **|** `Silenced' **|** `Reset', via the Event List.

Node Map

The Node Map feature provides operators immediate and clear situational awareness of the status of the fire system.

A large panel icon is displayed for each fire panel configured and connected to a Cerberus DMS. Additionally, each panel icon provides a visual indication of the active panel events, panel-connection status as well as a detailed count of each type of event active on the panel.

Control buttons are provided to obtain control of the panels, disconnect/connect panels, create/edit panel groups, and more. The Node Map panel icons are automatically added to the node map when the panel configuration file is imported into a Cerberus DMS.

Schedules

Schedules are automatically associated to systems they operate, in order for the end-user to quickly navigate to schedules related to any selected object.

Graphics

The use of smart objects allows the end user to create graphics by simply dragging and dropping objects onto a page – without manually binding the object to graphical symbols.

Cerberus DMS also provides a powerful AutoCAD importing tool that allows the user to select and maneuver layers of AutoCAD drawings during (and after) the import process.

The following file types are supported:

•DWG **|** •DXF **|** •PNG **|** •BMP **|** •GIF **|** •JPG **|** •JPEG **|** •TIF **|** •TIFF **|** •RLE **|** •ICO.

Remote Notification (ReNo)

A Cerberus DMS can be configured to automatically or manually send email, SMS, messages, or pages to first-level responders with Remote Notification.

Escalated notification – when necessary – can also be sent to second-tier responders.

Mobile App

The Cerberus DMS Mobile App is designed for the Android and iOS operating systems enabling the user to remotely view events and object status based on user privileges. Users receive event notifications when new events are available.

The Mobile App can optionally provide commanding of events and objects based on user privileges. The commanding capabilities of the Mobile App are not Agency listed or approved for commanding fire systems. The use of event commanding must be reviewed with and permitted by the local authority having jurisdiction (AHJ) or equivalent.

Video

The Video (surveillance-integration) feature supports the workflows of System Manager and Event Treatment – as well as enhances these workflows with video-specific workflows and video support that are fully integrated into the Cerberus DMS UI experience.

Live streams and recordings can be displayed in the primary and secondary pane. In the contextual pane video operations (*e.g. – Pan-Tilt-Zoom | Start / Stop recording*) can be executed from both the video control and operations tabs. Other Cerberus DMS applications are able to execute video events and actions on events of video device supervision. The video integration is based on Siveillance® VMS or Milestone XProtect.

Remote Access

A Cerberus DMS User Interface can be accessed from remote, non-UL / ULC computers solely for monitoring, via the available Web Client. This Remote Access feature enables up to 20 key stakeholders to have the same view of the User Interface as those operating the system from a remote computer – provided Cerberus DMS is installed on an *intra*net site – therefore enabling faster sharing of critical data over a wide area.

Assisted Treatment

Assisted Treatment provides the ability to pre-define a sequence of steps or actions, allowing the end-user to optionally implement when responding to a system event. Each Assisted Treatment step provides instructions and operation tools (*e.g. – view the graphic of the object in `Alarm'; view a related live video stream; fill-in a treatment form, or automatically print out system-event information*).

End-User Profiles

To ensure proper level of event-management support by Cerberus DMS for any system-event situation, pre-defined profiles can be established for each end-user or workstation that provide the correct level of event management for that user or workstation.

Macros

Macros are pre-defined lists of events that enable a user to send out a group of events to specified devices with a single action. Macros can be started manually or automatically based on schedules defined for time-based functions or automatic reactions.

Macro Viewer

The Macro Viewer provides simplified execution of Cerberus DMS macros and fire-panel pseudo point commands by displaying one big icon button for each macro and pseudo point. Access to macros and pseudo point commands can be controlled with user privileges.

Reports

The Cerberus DMS reporting tool includes standard reporting templates. The Reports feature also allows the development of fully configurable reports with custom logos **|** headers **|** footers and layouts that include tabular and graphical system data.

Reports can be scheduled and saved in •CSV or •PDF file extensions for future use.

Reaction Processor

The Reaction Processor option allows Cerberus DMS to automatically execute given actions when some conditions are verified. Conditions can be any of the following: time-based (*e.g. – every Monday at 7:00 a.m.*); event-based (*e.g. – when technical equipment is in fault*); a change of values (*e.g. – when the temperature of a room is higher than a predefined value*), or on a variation of any or all of the above. When conditions are met, the Reaction Processor executes a pre-configured list of events (*e.g. – switch on the lights*).

Multiple Installed Clients

Cerberus DMS can support up to 10 installed clients. Control of the fire-safety system can also be transferred to these clients – provided the clients' accounts been configured to assume control.

Document Viewer

The Document Viewer displays object-related data sheets, operating manuals or other information contained in document file (*e.g. – a data sheet for a detector or sensor or web page*).

Log Viewer

Log Viewer provides a log / history of system events and end-user programming for further analysis.

The Detailed Log within the Contextual Pane provides a log of the most recent user and system events and activities, relative to an individually selected object. For example, the system logs user intervention to a set point with `Previous' **|** `New Value' **|** `Timestamp' and `Username'. Data displayed within the `Detailed Log' can be further analyzed, via sorting and filtering functionality – similar to that of the Log Viewer.

Cerberus DMS is a full, flexible client / server architecture for fire-safety applications,
offering configurations from small, single-seat to large, multi-user installations.

Cerberus DMS can be installed completely on one (1) computer, with full server and client functionality.
Additional clients (*e.g. – dedicated, browser, and Windows desktop application*) can be also be added.
Additional system connections can be made through systems installed with a Cerberus DMS Front End
Process (FEP) configuration.

A Cerberus DMS can also be configured with multiple servers in a distributed system configuration.
Distributed servers can be used to distribute processing power, to segregate systems geographically
or departmental boundaries, or to separate servers used for different disciplines – most frequently to
isolate UL/ULC Listed fire systems from other system applications.

Servers are connected to one another in order for an end-user to seamlessly navigate the objects in the
system independently. This means the client computer is not reliant of any specific server to which it is connected.

Microsoft IIS server for Browser Clients and Desktop Application
downloads can be installed on the server or on a separate installation.

The server hosts all the data for the system, while the clients are only for the visualization and the user interaction.
The clients provide a high-resolution interface to all the relevant server data needed for monitoring and commanding
the system. Control of the fire-safety system can be transferred from one client to another client if desired.

Operating Systems

Cerberus DMS Server, FEP, and Installed Clients run on the following Microsoft operating systems and editions:

- Microsoft Windows 7 64-bit
  (Professional **|** Ultimate **|** Enterprise)
- Microsoft Windows 10 64-bit
  (Professional **|** Ultimate **|** Enterprise)
- Microsoft Windows Server, 2012 R2 64-bit
- Microsoft Windows Server, 2016 64-bit

Web Clients and Windows App Clients run on the following Microsoft operating systems and editions:

- Microsoft Windows 7 64-bit
  (Professional **|** Ultimate **|** Enterprise)
- Microsoft Windows 10 64-bit
  (Professional **|** Ultimate **|** Enterprise)
- Microsoft Internet Explorer 11

Microsoft SQL Server Database

Microsoft SQL Server 2014 R2 Express is free and included on the product DVD.
Additional supported SQL Server version and editions are:

- Microsoft Windows Server, 2012 (R2)
  (Express and Standard)
- Microsoft Windows Server, 2014 (R2)
  (Express and Standard)
- Microsoft Windows Server, 2016
  (Standard **|** Express **|** Enterprise)

Microsoft Office

The following versions and editions
of Microsoft Office are supported:

- Microsoft Office 2016
  (Standard **|** Small Business **|** Professional **|** Enterprise)
- Microsoft Office 2013
  (Standard **|** Small Business **|** Professional **|** Enterprise)
- Microsoft Office 2010
  (Standard **|** Small Business **|** Professional **|** Enterprise)
- Microsoft Office 2007
  (Standard **|** Small Business **|** Professional **|** Enterprise)

Microsoft SQL Server Database

Microsoft SQL Server 2014 R2 Express is free and included on the product DVD.
Additional supported SQL Server version and editions are:

- Microsoft Windows Server, 2012 (R2)
  (Express and Standard)
- Microsoft Windows Server, 2014 (R2)
  (Express and Standard)
- Microsoft Windows Server, 2016
  (Standard **|** Express **|** Enterprise)

Microsoft Office

The following versions and editions
of Microsoft Office are supported:

- Microsoft Office 2016
  (Standard **|** Small Business **|** Professional **|** Enterprise)
- Microsoft Office 2013
  (Standard **|** Small Business **|** Professional **|** Enterprise)
- Microsoft Office 2010
  (Standard **|** Small Business **|** Professional **|** Enterprise)
- Microsoft Office 2007
  (Standard **|** Small Business **|** Professional **|** Enterprise)

Virus Scanners

Cerberus DMS Server, FEP, and Installed Clients are compatible with the following Virus Scanners:

- Kaspersky (© 1997-2017 Kaspersky Lab)

- Avira (© 2017 Avira Operations
           GmbH &Co. KG.)

- McAfee   (© 2003-2017 McAfe, LLC)

- Bitdefender (© 1997-2017 Bitdefender)

- Kaspersky   (© 1997-2017 Kaspersky Lab)

- Trend Micro Office Scan
  (© 1997-2017 AVG(©2017 Avast)

Firewalls

Cerberus DMS Server, FEP, and Installed Clients are compatible with the following Firewalls:

- Norton Security (© 1995-2017
                    Symantec Corporation)

- Comodo Firewall (© 2017 Comodo Group, Inc.)

- Kaspersky TOTAL Security (© 1997-2017 Kaspersky Lab)

- Bitdefender TOTAL Security
              (© 1997-2017 Bitdefender)

- McAfee   (© 2017 McAfee, Inc.)

- ZoneAlarm (ZoneAlarm 2017 Extreme Security)

- Dell SonicWALL security
  (© 2017 SonicWALL L.L.C.)

- Check Point Next Generation Firewalls
         (© 2017 Check Point
         Software Technologies Ltd.)

- Cisco PIX Firewall Software

System and Device Capabilities

Cerberus DMS provides full monitoring and control of multiple systems for up to ~66,000 addressable fire points[^]:

- FireFinder XLS | MXL | Cerberus PRO Modular
  - Up to five (5) X-NET networks (four [4] via Front End Processors {FEP})
  - Up to 63 panels per X-NET network

- Cerberus PRO 252 / 504-point addressable systems
  - Up to four (4) C-WEB or CV-WEB
  - Up to 16 panels per SafeDLINK or 32 panels per C-WEB

- Simatic® S7 PLCs

- Siveillance® VMS 100 | 200 | 300
  - Up to 128 cameras for UL / ULC applications
  - Up to 512 cameras for non-UL / ULC applications
  - Up to 16 independent video streams per client

- Milestone XProtect Expert / Corporate
  - Up to 128 cameras for UL / ULC applications
  - Up to 512 cameras for non-UL / ULC applications
  - Up to 16 independent video streams per client
    [^]: Refer to the Cerberus DMS System Dimensioning Guide to verify the mix of fire and video are supported.

Sub-System and Device Compatibilities

- FireFinder XLS, via X-NET
  (FireFinder XLS *v*8 | *v*10.4 and *v*11)

- FireFinder XLS | MXL | Cerberus PRO
  Modular via X-NET (35.06J)

- Cerberus PRO 252/504-point addressable panels, via C-WEB (MP1.*x* | MP2.0 | MP2.1)

- Cerberus PRO Intelligent Voice Communication System,
  via CV-WEB (MP2.0 | MP2.1)

- BACnet IP server devices
  (BTL listed as B-BC typical)

- OPC Client software solutions
  (e.g. – SCADA solutions)
  compliant with OPC DA2.0

- OPC Server devices and software solutions (e.g. – PLCs) compliant with OPC DA *v*2.05 / *v*3.00

- Modbus TCP server devices

- SNMP Manager for monitoring
  SNMP Agents (*v*1 and *v*2)

- Simatic S7- 300/400(-H) / 1200 *v*3

- Siveillance VMS 100, 200, and 300 2014 (*v*7.0c, *v*7.0d) and 2016 (10.1a)

- Milestone XProtect Expert / Corporate 2014 (*v*7.0c, *v*7.0d) and XProtect Expert/Corporate 2016 R2

Cerberus PRO provides full control and monitoring of commercial-buildings' systems for up to ~66,000 addressable fire points[^]:

Fire Safety
- Cerberus PRO Modular
  - MP1.0
  - Up to four (4) X-NET networks per server or FEP
    - Up to five (5) Front End Processors (FEP) for a maximum of 24 X-NET networks per system
  - Up to 63 panels per X-NET network

- Cerberus PRO 252/504-point addressable systems (FC92-series / FV92-series)
  - MP1.*x* | MP2.0 | MP2.1 | MP2.2
  - Up to four (4) fire or voice networks
  - Up to 16 panels per SafeDLINK or 32 panels per C-WEB

- FireFinder XLS
  - MP8 | MP10 | MP11 | MP12
  - Up to four (4) X-NET networks per server or FEP
    - Up to five (5) Front End Processors (FEP) for a maximum of 24 X-NET networks per system
  - Up to 63 panels per X-NET network

- MXL /V
  - MXL system with Model MMB-3 running firmware 35.06J and CSGM 18
  - Up to four (4) X-NET networks per server or FEP
    - Up to five (5) Front End Processors (FEP) for a maximum of 24 X-NET networks per system
  - Up to 63 panels per X-NET network

Security
- Video
  - Siveillance VMS50 | VMS100 | VMS200 | VMS200 (embedded), and VMS300
  - Milestone XProtect Essential+ | Express+ | Professional+ | Expert, and Corporate
    - Supported versions: 2014 (7.0d) | 2016 R3 SP1 (10.2b) | 2017 R1 (11.1a) | 2017 R2 (11.2a)
  - Up to 128 cameras for UL / ULC applications
  - Up to 1000 cameras for non-UL / ULC applications
  - Up to 16 independent video streams per client

Open System Standard Protocols
- Third-party BACnet (BTL B-AWS)
  - Certified by BACnet Testing Laboratory as BACnet Advanced Workstation Software (BTL B-AWS), including support for Life Safety Points and Life Safety Zones.
- Third-party OPC Client compliant with OPC DA2.0
- Third-party OPC Server compliant with OPC DA V2.05 / V3.00
- Modbus TCP
- IEC 61850

I.T. Standards
- SNMP Manager (*v*1 and *v*2)
- WMI
- PO3, IMAP, SMTP with SSL / TSL
- HTTPS
- TAP, ESPA 4.4.4

[^] Refer to the Cerberus DMS System Dimensioning Guide to verify the mix of fire and video control-point counts is supported.

Technical Data

UL / ULC Listed Workstation
– Hardware Category A –

MODEL NUMBER:	UHW-CATA-01
RECOMMENDED USE:	Client, Small FEP ▌ Small Server ▌ Not recommended as Video Surveillance Client
APPROX. MAX. # OF FIRE DETECTION POINTS: *+	8,000
OPERATING SYSTEM:	Microsoft Windows 10 IoT Enterprise ▌ 64-bit
POWER SUPPLY:	120-240VAC Input; 24VDC output-power brick
RECOVERY SOLUTION:	Recovery Digital Video Disk (DVD)
PROCESSOR:	Intel Core i7-4700QE 2.4 GHz., (four [4] cores w/ eight [8] threads); Maximum turbo frequency 3.4GHz
CHIPSET:	Intel QM87 chipset
MEMORY:	16GB (2 –x- 204-pin DDR3 1333/1600 MHz / SODIMM ▌ up to 16GB, w / o ECC support)
GRAPHICS CARD:	• Onboard Intel HD Graphics 4600 • Shared Video Memory, up to 1.7GB Max. • DVI Resolution: 1920 -x- 1200 Max. • HDMI Resolution: 4096 -x- 2160 Max.
PRIMARY DISK DRIVE:	1x 240GB SSD, SATA III
SECONDARY DISK DRIVE:	None
OPTICAL DISK DRIVE:	DVD-RW
AUDIO INTERFACE:	Audio Line In / Out, Mic. In
ETHERNET INTERFACE:	2x - Intel i82574L GigaLAN
MONITORING CARD:	Fan Monitoring & Watchdog card
VIDEO INTERFACES:	1x - VGA Port ▌ 1x - HDMI Port ▌ 1x - DVI–D Port
X-NET INTERFACE CARD:	1x – Siemens Model SNC; up to two (2), max. of SNC
PARALLEL PORTS:	None
SERIAL PORTS:	2x – RS-232 ports
USB PORTS:	2x – USB 2.0 Ports; 4x – USB 3.0 Ports
KEYBOARD:	USB reduced footprint keyboard, **black**
MOUSE:	USB optical mouse, **black**
CHASSIS:	Compact Form Factor ▌ Aluminum ▌ Semi-gloss ▌ **black**
CHASSIS MOUNT OPTIONS:	Vertical wall mount or under mount with Four (4) mounting screws (#8) Desktop mount not recommend due to fan location
DIMENSIONS:	13.1" (34 cm.) {H} –x- 8.5" (21.6 cm.) {D} 4.2" (10.7 cm.) {D}
WEIGHT:	8.5 Lbs. (3.9 kg.)
CERTIFICATIONS:	UL864 9th Edition ▌ ULC-S527-11 ▌ UL 2572, FCC Class A, RoHS, CE

UL / ULC Listed Workstation
– Hardware Category B –

MODEL NUMBERS:	• UHW-CATB-01 • DMS-CATB-PKG-SM • DMS-CATB-PKG-LM
RECOMMENDED USE:	Medium Server ▌ Client Server ▌ Large FEP
APPROX. MAX. # OF FIRE DETECTION POINTS: *+	19,000
OPERATING SYSTEM:	Microsoft Windows 10 IoT Enterprise ▌ 64-bit
POWER SUPPLY:	650 Watts; 100-240V @ 50 - 60 Hz
RECOVERY:	Recovery Digital Video Disk (DVD)
PROCESSOR:	Intel Core i7-4700QE, 2.4 GHz., (four [4] cores w/ eight [8] threads); Maximum turbo frequency 3.4GHz
CHIPSET:	Intel QM87 chipset
GRAPHICS CARD:	• Matrox C680 PCIe x16, 2GB RAM • Display Outputs: Six (6) 6" (15.2 cm.) Mini Display Ports • Two (2) mini Display Port to DVI adapters (included) • Resolution: 4096 -x- 2160 Max. @ 30Hz (Display Port) • Resolution: 4096 -x- 2160 Max. @ 60Hz (Display Port, three [3] max.) • Onboard Intel HD Graphics: 4600 • Shared Video Memory: up to 1.7GB • DVI Resolution: 1920 -x- 1200 Max. • HDMI Resolution: 4096 -x- 2160 Max.
CHASSIS:	• All-metal Enclosure • Lockable front-door protects: Power switch ▌ Reset switch ▌ 2x USB 2.0 Ports ▌ DVD-RW drive
CHASSIS MOUNT OPTIONS:	Desktop (horizontal or vertical); Rack Mount shelf available
MEMORY:	32GB (four [4] DDR3L 1333 / 1600 DIMMs)
PRIMARY DISK DRIVE:	1x 240GB SSD, SATA III
SECONDARY DISK DRIVE:	1x 2TB HDD, SATA III
OPTICAL DISK DRIVE:	DVD-RW
AUDIO INTERFACE:	Audio Line In / Out, Mic. In
ETHERNET INTERFACE:	• 2x - Intel 82574L GigaLAN
MONITORING CARD:	Fan Monitoring & Watchdog card
VIDEO INTERFACES:	• Six (6) 6" (15.2 cm.) Mini Display Ports • Two (2) DVI adapters • One (1) VGA Port
X-NET INTERFACE CARD:	1x – Siemens SNC; up to four (4) of Model SNC
PARALLEL PORTS:	2x
SERIAL PORTS:	2x – RS-232, serial; 2x – PS/2
USB PORTS:	2x – USB 3.0; 4x – USB 2.0 **Note**: 2x are behind the door
KEYBOARD:	USB keyboard; 104 key, **black**
MOUSE:	USB optical mouse, **black**
DIMENSIONS:	16.8" (42.7 cm.) {W} –x- 7" (17.8 cm.) {H} 17.6" (44.7 cm.) {D}
WEIGHT:	39 Lbs. (17.5 kg.)
CERTIFICATIONS:	UL864 9th Edition ▌ ULC-S527-11 ▌ UL 2572, FCC Class A, RoHS, CE

* Refer to System Dimensioning Guide if within 1000 pts. of limit, or jump up to the next Hardware Category. Higher number of points is possible for systems that only connect to Cerberus PRO Modular / XLS panels

* Refer to System Dimensioning Guide when using as a multi-discipline server

UL / ULC Listed Workstation
– Hardware Category C –

MODEL NUMBERS:	UHW-CATC-01
RECOMMENDED USE:	LARGE Server
APPROX. MAX. # OF FIRE DETECTION POINTS: *+	42,000
OPERATING SYSTEM:	Microsoft Windows Server 2012 R2 ▌ 64-bit ▌ 5 CAL
POWER SUPPLY:	650 Watts; 100-240V @ 50 - 60 Hz
RECOVERY SOLUTION:	Recovery Digital Video Disk (DVD)
PROCESSOR:	2x Intel Xeon E5-2600-v4; 1.7 GHz (eight [8] cores) per processor
CHIPSET:	Intel C612 chipset
GRAPHICS CARD:	Matrox C680 PCIe x16, 2GB RAM <u>Resolution</u>: 4096 –x- 2160 @ 30Hz (Display Port); 4096 –x- 2160 @ 60Hz (Display Port, max. of three [3])
CHASSIS:	• All-metal, 19" (48.3 cm.) 4U Rack Mount Enclosure • Mounts w/ 24" Locking Slides • Lockable front-door protects Power switch ▌ Reset switch ▌ 2x USB Ports ▌ DVD-RW drive -&- HDD & Power LEDs
CHASSIS MOUNT OPTIONS:	19" (48.3 cm.) rack mount Desktop (horizontal) with provided rubber feet
MEMORY:	32GB (four [4] DDR-4 -2133 DIMMs)
PRIMARY DISK DRIVE:	1x 240GB SSD, SATA III
SECONDARY DISK DRIVE:	1x 1TB HDD, SATA III
OPTICAL DISK DRIVE:	DVD-RW
AUDIO INTERFACE:	None
ETHERNET INTERFACE:	• 2x - Intel i210 Gigabit; • 1x - IPMI LAN
MONITORING CARD:	Fan Monitoring & Watchdog card
VIDEO INTERFACES:	1x - VGA ▌ Six (6) 6" (15.2 cm.) Mini Display Ports ▌ two (2) mini Display Port to DVI adapters (included)
X-NET INTERFACE CARD:	1x – Siemens SNC; up to four (4) of Model SNC
PARALLEL PORTS:	None
SERIAL PORTS:	1x – RS-232 ports
USB PORTS:	2x – USB 3.0; 2x – USB 2.0 on Rear Panel 2x – USB 2.0 on Front Panel
KEYBOARD:	USB keyboard; 104 key, **black**
MOUSE:	USB optical mouse, **black**
DIMENSIONS:	7" (17.8 cm.) {H} –x- 19" (48.3 cm.) {D} 20" (50.8 cm.) {D}
WEIGHT:	45 Lbs. (20.4 kg.)
CERTIFICATIONS:	UL864 9th Edition ▌ ULC-S527-11 ▌ UL 2572 ▌ FCC Class A ▌ RoHS ▌ CE

UL / ULC Listed Workstation
– Computer Hardware Category D –

MODEL NUMBERS:	UHW-CATD-01
RECOMMENDED USE:	EXTRA LARGE Server
APPROX. MAX. # OF FIRE DETECTION POINTS: *+	66,000
OPERATING SYSTEM:	Microsoft Windows Server 2012 R2 ▌ 64-bit ▌ 5 CAL
POWER SUPPLY:	650 Watts; 100-240V @ 50 - 60 Hz
RECOVERY SOLUTION:	Recovery Digital Video Disk (DVD)
PROCESSOR:	2x Intel Xeon E5-2600-v4; 1.7 GHz (eight [8] cores) per processor
CHIPSET:	Intel C612 chipset
GRAPHICS CARD:	Matrox C680 PCIe x16, 2GB RAM <u>Resolution</u>: 4096 –x- 2160 @ 30Hz (Display Port); 4096 –x- 2160 @ 60Hz (Display Port, max. of three [3])
CHASSIS:	• All-metal, 19" (48.3 cm.) 4U Rack Mount Enclosure • Mounts w/ 24" Locking Slides • Lockable front-door protects Power switch ▌ Reset switch ▌ 2x USB Ports ▌ DVD-RW drive -&- HDD & Power LEDs
MEMORY:	64GB (eight [8] DDR-4 -2133 DIMMs)
PRIMARY DISK DRIVE:	1x 240GB SSD, SATA III
SECONDARY DISK DRIVE:	1x 1TB HDD, SATA III
OPTICAL DISK DRIVE:	DVD-RW
AUDIO INTERFACE:	None
ETHERNET INTERFACE:	• 2x - Intel i210 Gigabit; • 1x - IPMI LAN
MONITORING CARD:	Fan Monitoring & Watchdog card
VIDEO INTERFACES:	1x - VGA ▌ Six (6) 6" (15.2 cm.) Mini Display Ports ▌ two (2) mini Display Port to DVI adapters (included)
X-NET INTERFACE CARD:	1x – Siemens SNC; up to three (3) of Model SNC
PARALLEL PORTS:	None
SERIAL PORTS:	1x – RS-232 ports
USB PORTS:	2x – USB 3.0; 2x – USB 2.0 on Rear Panel 2x – USB 2.0 on Front Panel
KEYBOARD:	USB keyboard; 104 key, **black**
MOUSE:	USB optical mouse, **black**
CHASSIS MOUNT OPTIONS:	19" (48.3 cm.) rack mount Desktop (horizontal) with provided rubber feet
DIMENSIONS:	7" (17.8 cm.) {H} –x- 19" (48.3 cm.) {D} 20" (50.8 cm.) {D}
WEIGHT:	45 Lbs. (20.4 kg.)
CERTIFICATIONS:	UL864 9th Edition ▌ ULC-S527-11 ▌ UL 2572 ▌ FCC Class A ▌ RoHS ▌ CE

* Refer to System Dimensioning Guide if within 1000 points-of-limit, or jump-up to the next Hardware Category.
Higher number of points is possible for systems that only connect to Cerberus PRO Modular / XLS panels

+ Refer to System Dimensioning Guide when using as a multi-discipline server

Details for Ordering

MODEL OR TYPE	PART NUMBER	PRODUCT
Server Hardware / Software Packages		
DMS-CATB-PKG-SM	S54465-C76-A2	**Items relative to Model UHW-CATB-PKG-SM** • UL / ULC Listed Computer • 22" (56 cm.) liquid-crystal display (LCD) Monitor: Model UHW-0000-22L-L) • Cerberus DMS Software & Instructions: Model DMS-SW-PKG-3P0) • one (1) Serial Network Card for X-NET connection: Model SNC
DMS-CATB-PKG-LM	S54465-C77-A1	**Items relative to Model UHW-CATB-PKG-LM** • UL / ULC Listed Computer • 42" (107 cm.) liquid-crystal display (LCD) Monitor: Model UHW-0000-42L-L) • Cerberus DMS Software & Instructions: Model DMS-SW-PKG-3P0) • one (1) Serial Network Card for X-NET connection: Model SNC
Computers Only: Software Licenses must be ordered separately (*see section above*)		
UHW-CATA-01	S54465-C73-A1	**Items relative to Model UHW-CATA-01** • UL / ULC Listed Computer (with Intel i7 | 16 GB RAM) • Windows 10 • one (1) Serial Network Card for X-NET connection: Model SNC • one (1) Management Station Utility • no monitor • no software DVD
UHW-CATB-01	S54465-C73-A2	**Items relative to Model UHW-CATB-01** • UL / ULC Listed Computer (with Intel i7 | 32 GB RAM) • Windows 10 • one (1) Serial Network Card for X-NET connection: Model SNC • one (1) Management Station Utility • no monitor • no software DVD
UHW-CATC-01	S54465-C74-A1	**Items relative to Model UHW-CATC-01** • UL / ULC Listed Computer (with Intel XEON | 32 GB RAM) • Windows Server 2012, R2 • one (1) Serial Network Card for X-NET connection: Model SNC • one (1) Management Station Utility • no monitor • no software DVD
UHW-CATD-01	S54465-C74-A2	**Items relative to Model UHW-CATB-01** • UL / ULC Listed Computer (with Intel Dual XEON | 64 GB RAM) • Windows Server 2012, R2 • one (1) Serial Network Card for X-NET connection: Model SNC • one (1) Management Station Utility • no monitor • no software DVD
Monitors Only		
UHW-0000-22L-L	S54465-C8-A2	UL / ULC Listed 22" (56 cm.) LCD Monitor
UHW-0000-42L-L	S54465-C9-A2	UL / ULC Listed 42" (107 cm.) LCD Monitor
DVD		
DMS-SW-PKG-3P0	S54465-C77-A2	Cerberus DMS Installation DVD and Instructions
X-NET Interfaces		
SNC	S54400-N1-A1	X-NET Interface Card for Cerberus PRO Modular and FireFinder XLS

MOSA	S54465-C62-A1	X-NET Monitoring-Only Solution Assembly: Model MOSA
		Includes:
		• one (1) Serial Network Card for X-NET connection: Model SNC
		• one (1) Exterior enclosure with key-lock: Model ENCL-01
		• one (1) X-NET interface module: Model XND-M
		• one (1) Serial-to-Ethernet Module: Model S2E
		• one (1) up to 5A power supply: Model PS-5A
		• one (1) set of cables: Model CBL-M
		Cables included in each Model CBL-M shipment:
		  ○ Two (2) Model S2E power cables (1 red, 1 **black**)
		  ○ One (1) Model XND-M power cable
		  ○ One (1) Model NIC-C–to–interface (Model XND-M) cable, 10 feet (3m)

Details for Ordering – (continued)

MODEL OR TYPE	PART NUMBER	PRODUCT
Network Switches		
X204-2	500-650537	**Multi-mode (SCALANCE) network switch | Model X204-2** **4 Ethernet ports, 2 sets of multi-mode fiber ports** • UL* Listed • Four (4) Ethernet Ports • Two (2) sets of multi-mode fiber ports
X204-2LD	S54430-A6-A1	**Single-mode (SCALANCE) network switch | Model X204-2LD** • UL* Listed • Four (4) Ethernet Ports • Two (2) sets of multi-mode fiber ports
FN2012-A1	S54400-B152-A1	**Modular Ethernet Switch | Model FN2012-A1 | ULC* Listed**
VN2001-A1	S54400-A42-A1	**– Electric Ethernet Module | Model VN2001-A1** • ULC* Listed
VN2002-A1	S54400-A43-A1	**– Multi-Mode Ethernet Switch | Model VN2002-A1** • ULC* Listed
VN2003-A1	S54400-A44-A1	**– Single-Mode Ethernet Module | Model VN2003-A1** • ULC* Listed
Licenses		
CCA-STD-FSET	P55802-Y114-A100	**Standard Feature License that includes:** • one (1) client license can be extended with Client licenses and point licenses

CCA-CMPT-DMS	P55802-Y110-A100	**Danger Management Compact Feature Set license:**
		• Includes three (3) client licenses and 5000 Fire Point licenses
		  can be extended to support up to 2000 Fire Points;
		  no additional clients can be added
		• Graphics Editor is the only option that can be added

Feature Options for Danger Management Compact Feature Set		
CCA-OP-GRAPH-ED	P55802-Y127-A300	**Graphics Editor Option:** • allows users to edit graphics (without this option, graphics must be edited using an Engineering License)
CCA-CMPT-DMS-U	P55802-Y110-A500	**Upsell license:** • for converting DMS Compact Feature Set into a Standard Feature Set no additional clients can be added
Clients (Installed | Web | Windows App)		
CCA-1-CL	P55802-Y119-A200	**License for one (1) additional client:** • valid for all client types
CCA-MAX-CL	P55802-Y120-A200	**License to allow an unlimited number of clients:** • valid for any type of clients
Fire Points		
CCA-100-FIRE	P55802-Y158-A412	Add 100 fire-detection data points
CCA-500-FIRE	P55802-Y158-A452	Add 500 fire-detection data points
CCA-5000-FIRE	P55802-Y158-A453	Add 5000 fire-detection data points
CCA-10000-FIRE	P55802-Y158-A414	Add 10000 fire-detection data points
Video Monitors and Cameras		
CCA-V-PLUS	P55802-Y159-A300	Video option Plus for embedded VMS. Includes ``SiVMS 200 embedded", eight (8) monitors and eight (8) embedded cameras Includes: • SiVMS 200 embedded • eight (8) monitors • eight (8) cameras
CCA-V-16MON	P55802-Y160-A401	Add 16 monitors
CCA-V-16EXTC	P55802-Y161-A401	Add 16 external cameras
CCA-V-16EMBC	P55802-Y162-A401	Add 16 embedded cameras
CCA-V-128MON	P55802-Y160-A412	Add 128 monitors
CCA-V-128EXTC	P55802-Y161-A412	Add 128 external cameras

*For **UL Listed** applications, it is advised to order either the Scalance (**X204-2**) Multi-Mode and / or the Scalance (**X204-2LD**) Single-Mode Ethernet Switch.

*For **ULC Listed** applications, the Ethernet Switch (**FN2012-A1** *shown in the ordering chart above*), along with the appropriate pairing of one (1) of the following:
Electric Ethernet Module (**VN2001-A1**) **\|** Multi-Mode Ethernet Module (**VN2002-A1**) **\|** Single-Mode Ethernet Module (**VN2003-A1**) are required for purchase.

Details for Ordering – (continued)

MODEL OR TYPE	PART NUMBER	PRODUCT
Validation		
CCA-100-VALID	P55802-Y154-A412	Add 100 validated objects
Long-term storage and archiving		
CCA-1-ARCHGRP	P55802-Y155-A410	Add 1 custom archive group. The Standard Feature Set includes 4 archive groups.
Supplementary Licenses		
CCA-DEMO	P55802-Y140-A100	Demo license (12 months)
CCA-STARTUP-BASE	P55802-Y131-A100	Startup license (2 months)
CCA-ENG	P55802-Y130-A100	Engineering license (12 months); required CMD.04 dongle
CMD.04	S55802-Y148	Universal Serial Port (USB) License Hardware key (dongle)

Product Compatibilities

MODEL OR TYPE	DATA SHEET	PANEL
MXL	**5000**	MXL (fire-system overview)
MXLV	**5035**	MXLV (fire w/ voice system overview)
XLS	**6300**	FireFinder (fire-system overview)
XLSV	**6340**	FireFinder (fire w/ voice system overview)
CERBERUS PRO MODULAR	**8300**	Cerberus PRO Modular (overview)
FC901	**9813**	Cerberus PRO 50-point addressable
FC922	**9815**	Cerberus PRO 252-point addressable (fire)
FC924		Cerberus PRO 504-point addressable (fire)
FV922	**9821**	Cerberus PRO 252-point addressable (fire w/ Intelligent Voice Communication [IVC])
FV924		Cerberus PRO 504-point addressable (fire w/ Intelligent Voice Communication [IVC])

See: **www.siemens.com/fire** to view any of the data sheets in the chart above.

NOTICE – The information contained in this data-sheet document is intended only as a summary, and is subject to change without notice. The product(s) described here has/have a specific instruction sheet(s) that cover various technical, limitation and liability information.

Copies of install-type, instruction sheets – as well as the *General Product Warning and Limitations* document, which also contains important data, are provided with the product, and are available from the Manufacturer.

Data contained in the aforesaid type of documentation should be consulted with a fire-safety professional before specifying or using the product.

Any further questions or assistance concerning particular problems that might arise, relative to the proper functioning of the equipment, please contact the Manufacturer.

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