

PACOM



PACOM PRESENTATION



Pacom in brief

Pacom Systems 1983

- What we do
 - Designs, develops, manufactures industry leading security platforms (*GMS/EMCS*)
 - Integrating hardware & software to a single solution
- Represented in 50 countries
- 150.000 installations

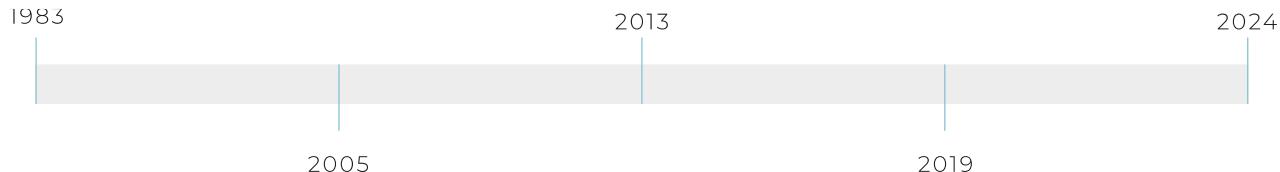
Pacom Nordics 2010

- What we do
 - Designs, develops, manufactures industry leading security platforms (*Unison*)
 - Integrating hardware & software to a single solution
- Pacom Market 40%
- Unison Market 90%





Milestones



- 1983 Pacom Systems founded
- 1987 GMS (*GTM)
- 2010 Pacom Nordics founded
- 2011 Unison (*GTM)
- 2012 Sentriion S3 (*GTM)
- 2016 Sentriion S4 (*GTM)
- 2021 The development of Unison to Sweden
- 2024 Vigil Core (*GTM)

*Go To Market





Integration partners



Integrations with well-established partners



Ongoing development



Shared Roadmaps



Joint marketing activities



Joint education programs



Ongoing audit:
-collaboration
-development
-integrations

◆ milestone

Panasonic

Schindler

alab
Innovative Security

ASSA

command

SIEMENS

BOSCH





Value added resellers



Well-qualified VAR network



Certification requirements



Ongoing training



Continuous follow up meetings



Consultants (indirect)



O2

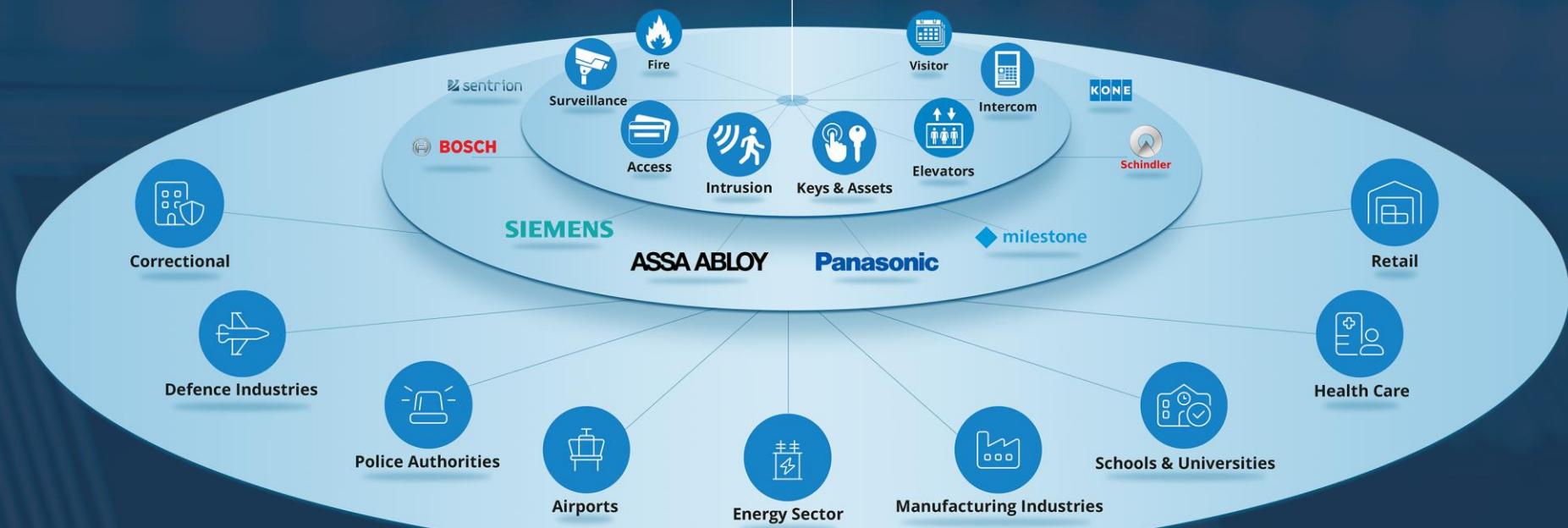
unison

Overall management system



**UNISON**

In a nutshell

**PACOM
UNISON****United Security Monitoring
Business Optimization****Business Catalyst
Business Ratio 1:10+**

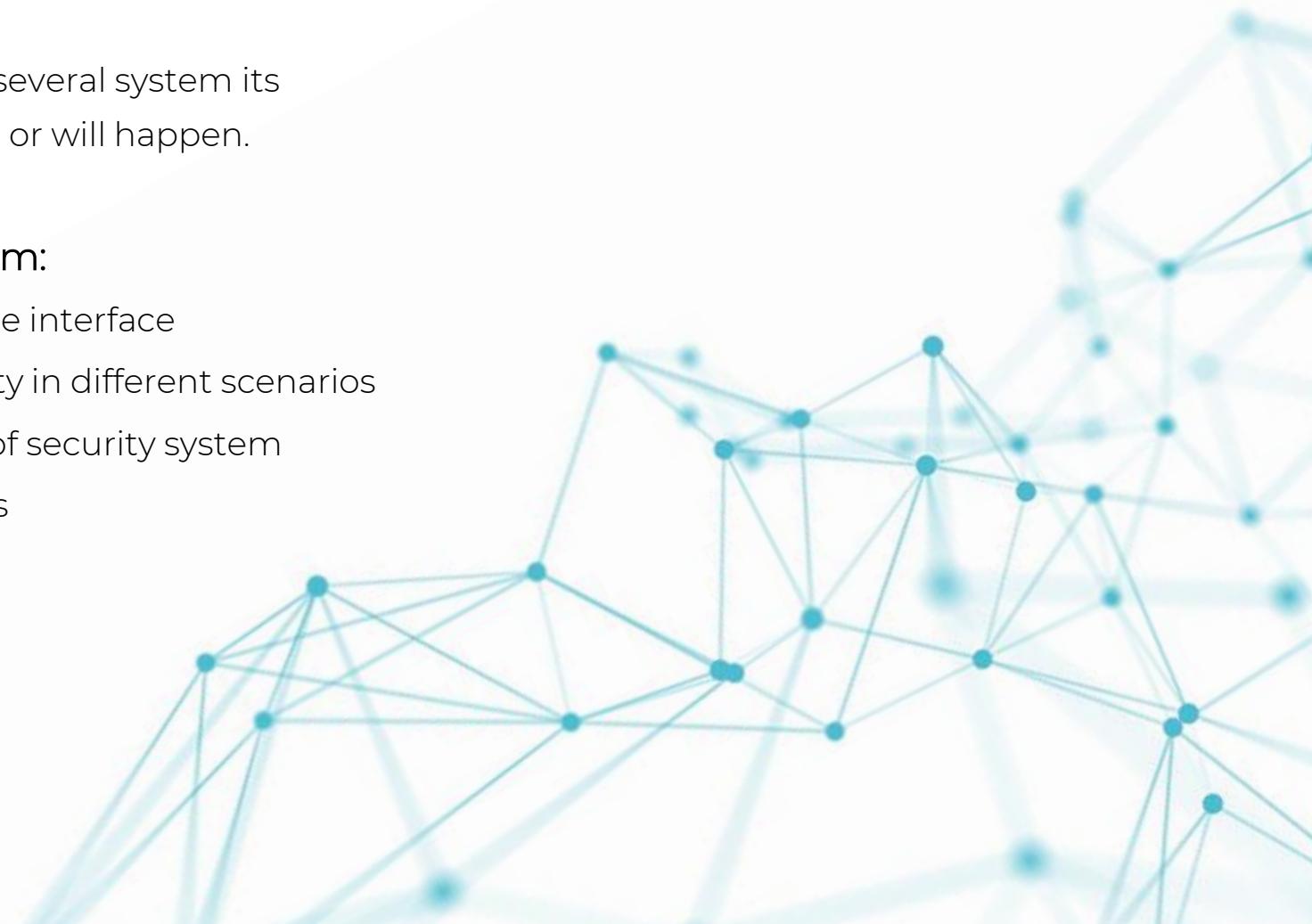


Overall management system

With large amounts of data separated between several system its hard to get an overall picture on what happened or will happen.

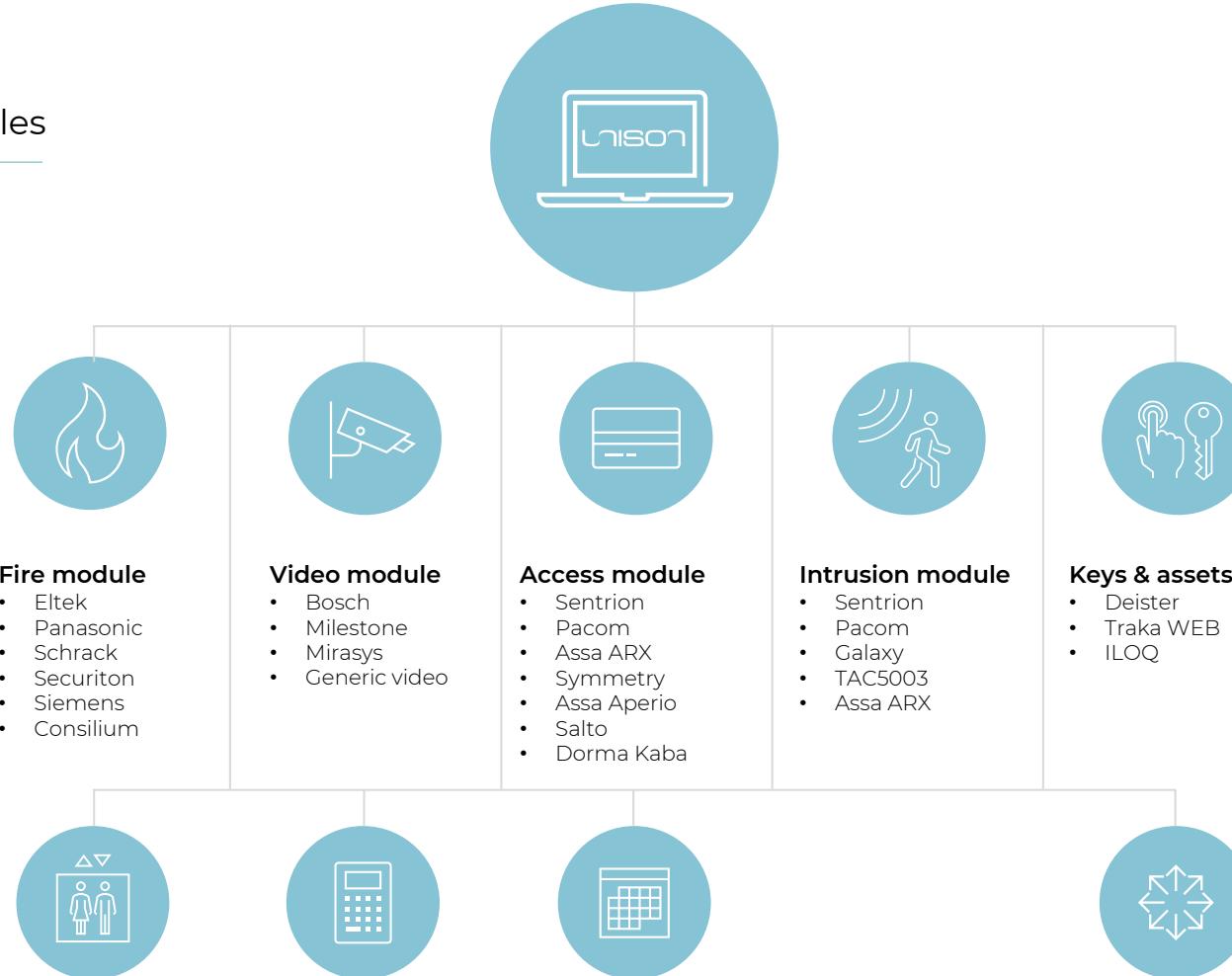
With one smart Overall Management System:

- All information gathered and presented in one interface
- Ability to act quickly and with greater certainty in different scenarios
- Automatically perform actions independent of security system
- Easy to compile detailed reports and statistics
- Proactive maintenance and actions





Integration platform & modules



Fire module

- Eltek
- Panasonic
- Schrack
- Securiton
- Siemens
- Consilium

Video module

- Bosch
- Milestone
- Mirasys
- Generic video

Access module

- Sentrion
- Pacom
- Assa ARX
- Symmetry
- Assa Aperio
- Salto
- Dorma Kaba

Intrusion module

- Sentrion
- Pacom
- Galaxy
- TAC5003
- Assa ARX

Keys & assets module

- Deister
- Traka WEB
- ILOQ

Elevators module

- Schindler
- Kone

Intercom module

- Command
- Stentofon
- Alphone

Visitor module

- PartnerSec CaVisit
- Seriline Visitor

Other protocols

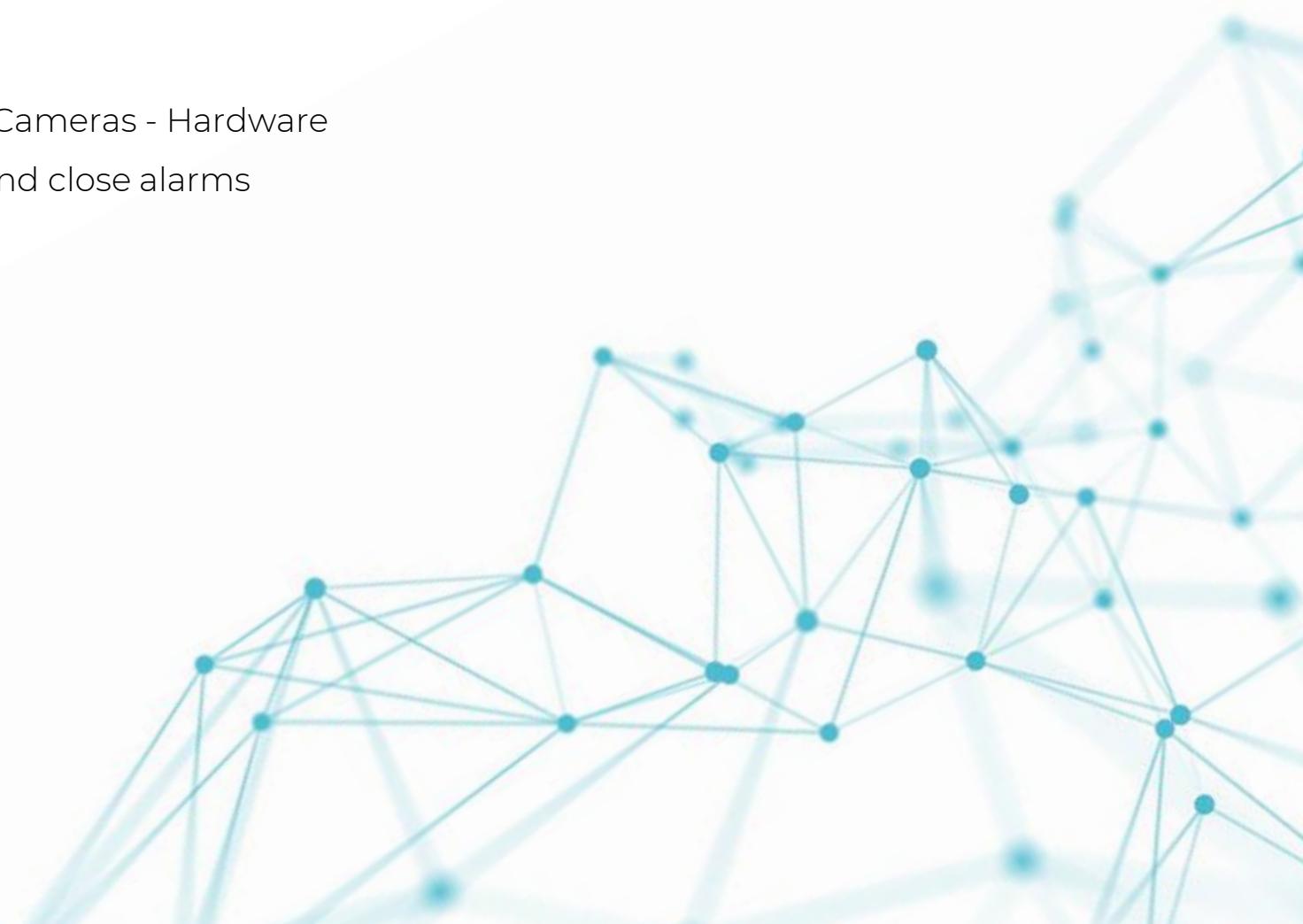
- | | | |
|----------------------------|--------------|--------------------|
| • Unison Acces Service API | • ESPA444 | • VAPIX |
| • Unison Alarm API | • CardExport | • SMS |
| • AlarmText | • CardImport | • SNMP |
| • Siemens DESIGO | • OPC | • Idavall FRI |
| • Ascom | • Modbus | • Argentum Booking |
| | • ONVIF | |



Functions in brief

Alarm:

- Fire - Intrusion - Personal - Assets and Keys - Cameras - Hardware
- Handle alarm - Reset, silence, acknowledge and close alarms
- Realtime overview
- Support all types
- Different queues and categorizing
- SOP
- Areas and Segments - Arm-/Disarm Manage
- Link to graphics
- Video verification





Functions in brief

Access Management:

- Presence Zones
- Doors
- Areas
- Keys & Assets
- Interlocking
- Schedules – Doors, Access
- Identify people in a certain area, at a certain time
- Design card layouts, print cards
- Video verification events
- Integrations to PIAM



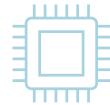


Functions in brief

User Management:

- Permissions Access
- Groups
- User_Areas
- Import/Export
- Integrations – HR, PIAM, Azure AD





Functions in brief

Automation:

- Raise alarm in sub-system
- Reports
- Emails & SMS
- Print
- Actions
- Panels





Functions in brief

Operators:

- Roles
- Groups
- Partitions
- Areas Of Responsibility





Functions in brief

Graphical interface:

- Dynamic interface
- Building overview
- Floorplans
- Control panels
- Hardware
- Indicate event/Statuses
- Interactive & intuitively
- CAD Import
- Automatically link nodes to graphics





Functions in brief

Logging & Reports:

- Logging events
- Logging operator actions
- Templates & Customized Reports
- Report Events
- Node Reports
- User report





UNISON Users – WHO



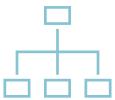
Large sites



Complex environments



High demand on
functionality and
operational safety



Wide range and
sub-systems

FÖRSVARSMAKTEN

Kriminalvården

Polisen





So – Why Unison?



1 Dedicated drivers



2 Development
in Sweden



3 Live on-going
development



4 Experienced and
well established



5 High demand
reference cases



6 High knowledge
multiple resellers



03

Case study

Karolinska University Hospital



UNISON as integrated platform

Integrated systems, via drivers, full redundancy

- Alarm/Access Control
- Fire
- Intercom
- Video
- Elevators
- AGV robots
- Real estate systems
- HR/LDAP
- Key cabinets
- Visitor systems

UNISON as management system

- 20 000 fire alarm detectors
- 12 000 alarm points
- 5 000 doorways
- 550 cameras
- 30 AGV robots



KAROLINSKA UNIVERSITY HOSPITAL

Northern Europe's largest hospital



AGV ROBOTS

- 1 500 drives/trips per day
- 6 door passages in average per drive/trip

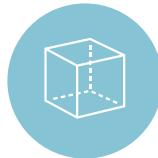
UNISON handles approx. 9 000 door passages/day



AUTOMATIC DATA LOADING

- Automatic upload when third-party panels and systems are added without manually programming extra data

Estimated savings in the NKS project: 4 MSEK



AUTOCAD IMPORT

- Ability to import and automatically link graphical points with alarms and actions.

Added value: Time- and cost efficiency



ELEVATORS

- Access to elevator cage
- Controls floor access
- Stop floors permissions
- Direction of travel - precedence to use the elevator
- Instant emergency access
- Priority access (beds etc)

UNISON handles 45-50 elevators



SECURE PASSAGE LOCKS

- Control of doors and gates to labs
- Special function for emergency room locks with three different modes (day, night and threat)
- Gamma knife areas (alarm class III, different lock functions adapted to different alarm modes - A, B, C)
- Customized functions for freight reception

UNISON handles approx. 45 door passage locks



04/union

License model & SUA



UNISON standard license

MODULES	CLIENT	ALARM-MODUL	ACCESS-MODUL	FIRE MODUL	VIDEO-MODUL	INTERCOM MODUL	KEYS & ASSETS
UNITS	CLIENTS	ALARM NODES	DOORS	ALARM NODES	CAMERAS	INTERCOMS	KEYS & ASSETS
INCLUDED	1	50	10	250	25	25	25
SIZE PACKAGE	1	50	10	250	25	25	25
MAX AMOUT	-	1500	100	2500	100	50	500



UNISON enterprise license

MODULES	CLIENT	ALARM-MODUL	ACCESS-MODUL	FIRE-MODUL	VIDEO-MODUL	INTERCOM-MODUL	KEYS & ASSETS	API-MODUL
UNITS	CLIENTS	ALARM NODES	DOORS	ALARM NODES	CAMERAS	INTERCOMS	KEYS & ASSETS	TBD
INCLUDED	1	50	10	250	25	25	25	-
SIZE PACKAGE	1	50	10	250	25	25	25	-
MAX AMOUT	-	-	-	-	-	-	-	-

- Support API-Module
- Unlimited amount
- Pacom Unison Enterprise supports Windows Failover Cluster, Virtual machines and server replication.



Software upgrade agreement

- SUA (Software Upgrade Agreement).
- A 3-year software agreement is signed with Unison
- The first year is included in the license price
- This gives the holder the right to upgrade their software to the latest version of Pacom Unison free of charge
- The agreement provides long-term security
- Updating drivers
- Access to new functionality that becomes available with new releases
- Support of latest Microsoft updates, server, client and SQL versions
- The agreement provides access to support
- Higher returns on ROI





Software upgrade agreement

- Software update The agreement constitutes an annual cost of 18% of the value of the software (list price)
- There is no requirement to update immediately to the latest software version, however this is recommended to ensure access to support





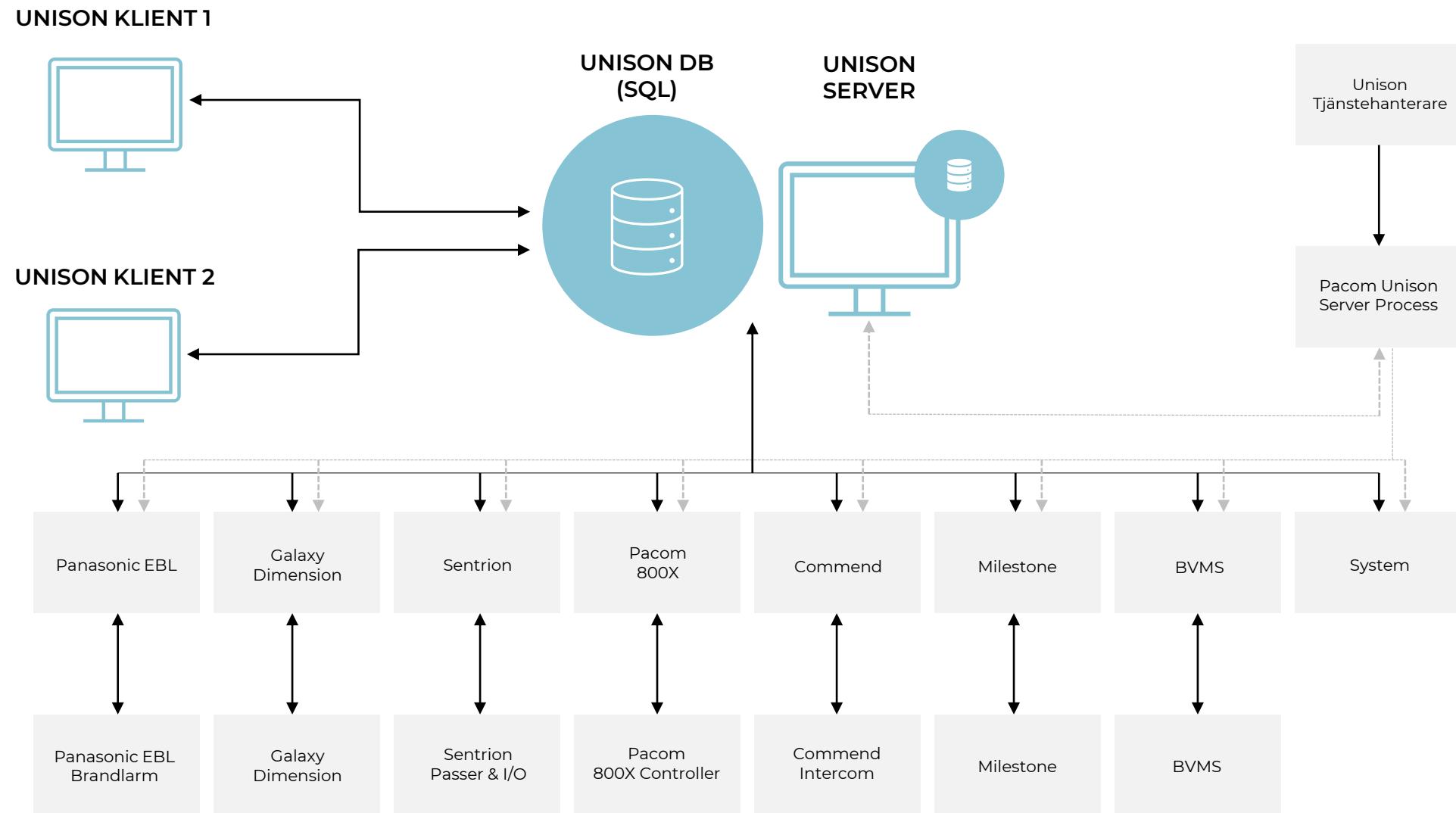
05

unison

Systemuppbyggnad



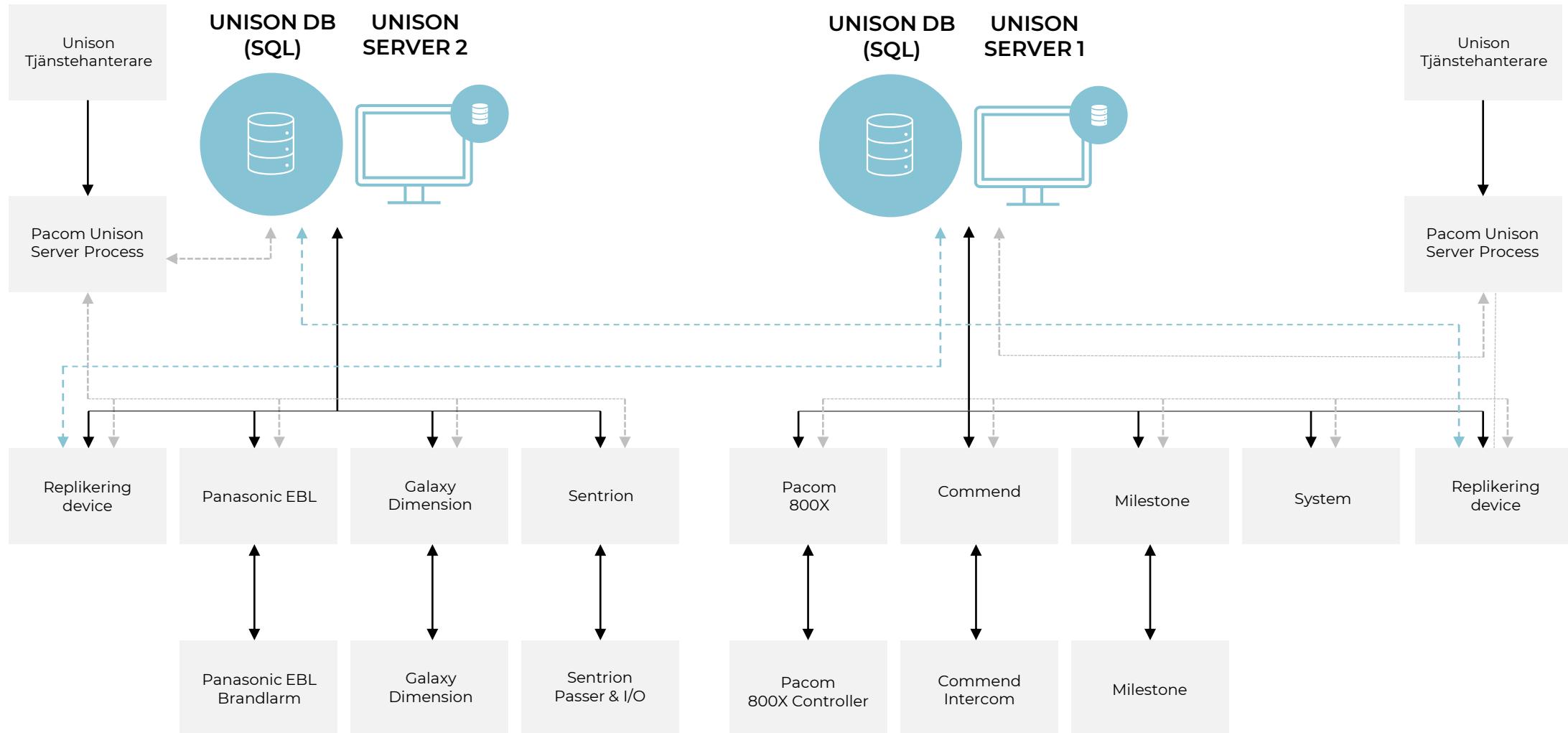
Systemuppbyggnad





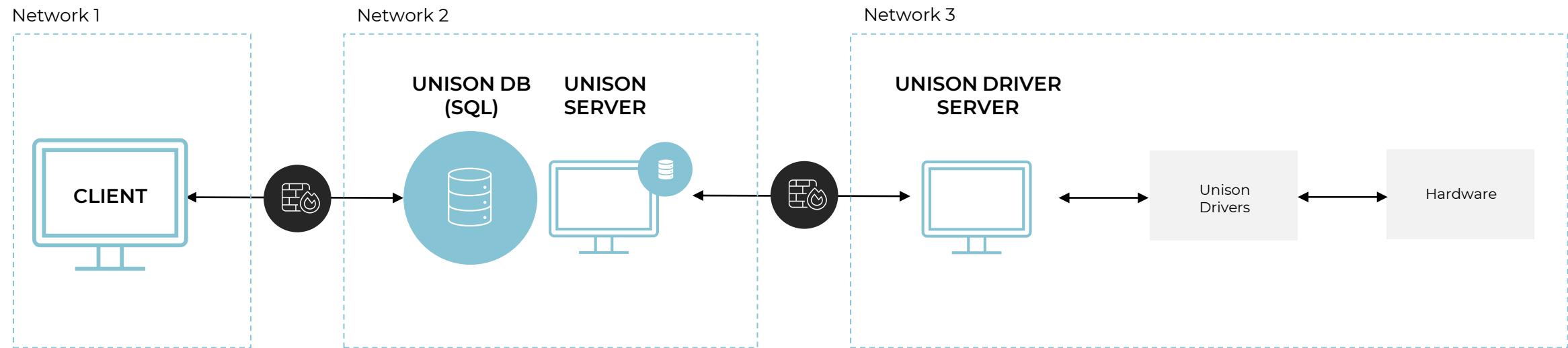
Systemuppbyggnad Replikering

Main server





System Structure



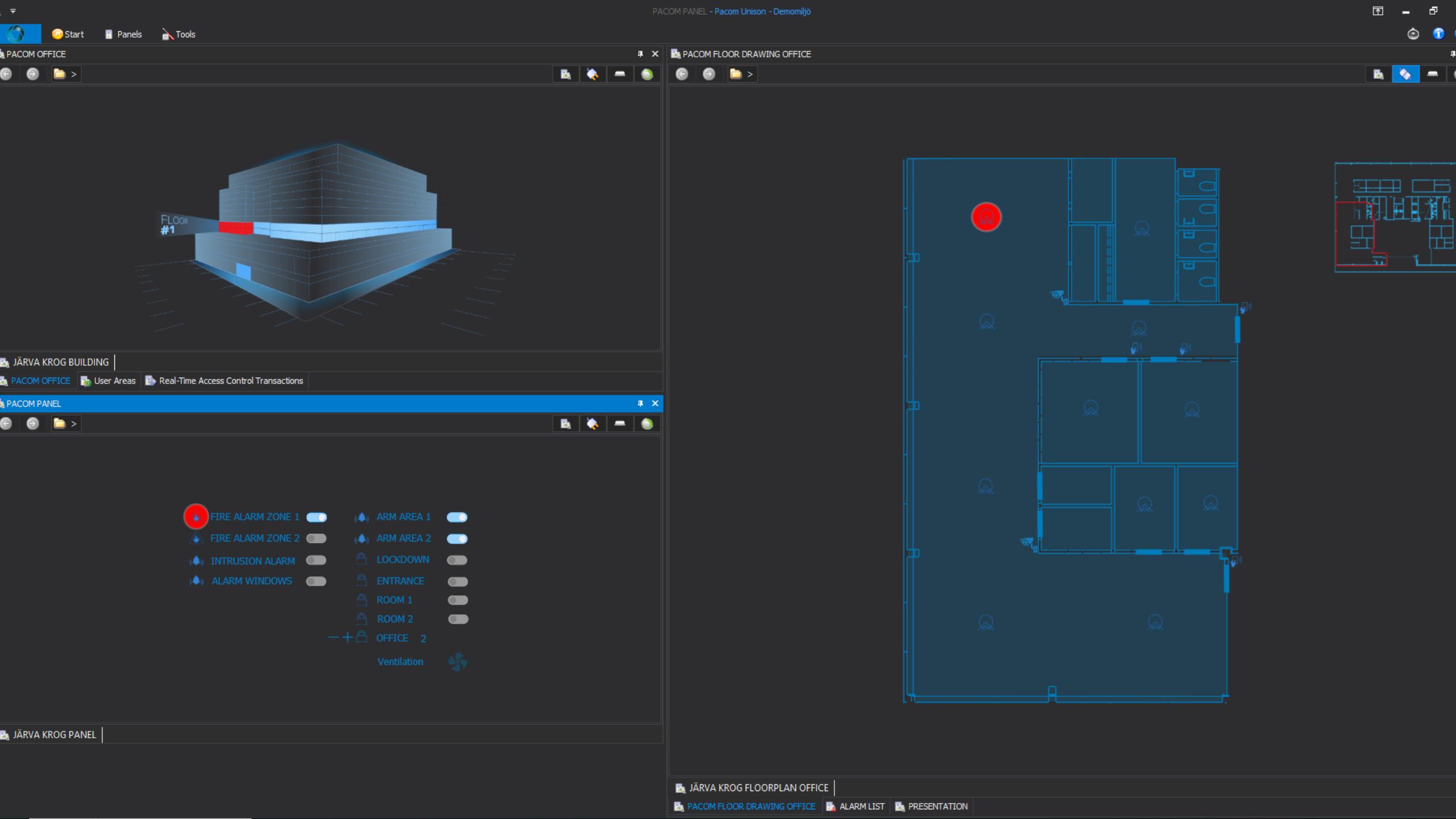


06

unison

Demo användargränssnitt





Graphics - Pacom Unison - Dämromiljö

Start Panels Tools

PACOM OFFICE

Brandalarm

New

Alarm Information Notes Alarm Notes

Activated By

Name: Pacom Fire Alarm Activated: 28/02/2024 12:21:14

Event: Nod aktiverad Status: On (1)

Label:

Description:

Path: DEMO NODE

Person: admin

Message: Activate Node

Node Tags:

Folder Path:

Time History

Alarm On: 28/02/2024 12:21:14 Restored:

Alarm Off: Closed:

Acknowledged:

Other Alarm Properties

Alarm Queue: 2.Brandalarm Alarm Occurrences: 1 Active: Yes

Acknowledged By: Acknowledged From: Priority: 2

Restored By: Restored From: Test Mode: No

Closed By: Closed From:

Actions

Bortkoppla Pacom Fire Alarm Show

Acknowledge Cancel

JÄRVA KROG

PACOM FLOOR DRAWING OFFICE

Graphics

CAMERA 1

JÄRVA KROG FLOORPLAN OFFICE

PACOM FLOOR DRAWING OFFICE ALARM LIST PRESENTATION

The screenshot shows a software interface for managing security alarms and monitoring video feeds. On the left, a 'Brandalarm' (Fire Alarm) window is open, showing details like 'Name: Pacom Fire Alarm' activated at '28/02/2024 12:21:14' by 'admin'. It includes sections for 'Time History' and 'Other Alarm Properties'. At the bottom right of this window are 'Acknowledge' and 'Cancel' buttons. On the right side of the screen, there's a 'Graphics' panel displaying a video feed from 'CAMERA 1'. The camera view shows a person walking through an office hallway towards a glass door. Below the camera view is a floor plan of the 'JÄRVA KROG FLOORPLAN OFFICE' with a blue outline indicating the camera's field of view. The top of the screen has a navigation bar with tabs for 'PACOM OFFICE', 'PACOM FLOOR DRAWING OFFICE', 'ALARM LIST', and 'PRESENTATION'. The bottom has a toolbar with icons for 'Commands', 'Print', 'Open', 'Show in Graphics', and 'Transactions'.

Start Paneler Verktyg

Driftalarm A

Nytt

Larminformation Anteckningar Larmantedningar

Aktiverad av

Namn: VIDEOSRV01 Aktiverad: 2023-05-05 10:46:09

Händelse: CPU-användning hög Status: Från (0)

Etikett:

Beskrivning:

Sökväg: Videoserver/Inspelningsserver

Meddelande:

Nodtaggar:

Mappsväg:

Tidshistorik

Larm till: 2023-05-05 10:46:10 Återställd:

Larm från: 2023-05-05 10:46:12 Avslutad:

Kvitterad:

Övriga larmegenskaper

Larmkö: Driftalarm Larmtillfället: 1 Aktiv: Nej

Kvitterad av: Kvitterad från: Prioritet: 0

Återställd av: Återställd från: Testläge: Nej

Avslutad av: Avslutad från:

Ätgärder

Kvittera Avbryt

Kommandon Skriv ut Öppna Visa i grafik Historik

PACOM ! 2 ✓ 4 ✓ 2 🔍 2 🔍 2 admin

PACOM WORLD

Overview Devices Services Ports Health Alerts 14 Unison Global Search

localhost Unknown Storage Usage Memory Usage Processor Usage

Overview Graphs Health Ports Inventory Logs Alerts Alert Stats Latency Notes

Linux librem5 5.4.0-65-generic #73-Ubuntu SMP Mon Jan 18 17:25:17 UTC 2021 x86_64

System Name	librem5
Resolved IP	127.0.0.1
Hardware	Microsoft Corporation Virtual Machine
Operating System	Linux 5.4.0-65-generic (Ubuntu 20.04)
Object ID	.1.3.6.1.4.1.8072.3.2.10
Contact	root
Device Added	2 years 75 days 5 hours 48 seconds ago
Last Discovered	11 minutes 49 seconds ago
Uptime	10 minutes 24 seconds
Location	Unknown
Lat / Lng	N/A

Memory

Physical memory 196% 249%

Virtual memory 122%

Memory buffers 7%

Cached memory 47%

Shared memory 2%

Swap space 0%

192.168.1.142/device/device=1/tab=health/metric=mempool/

NMS PACOM WORLD PACOM FLOOR DRAWING ALARM LIST

Kontrollera licens PACOM GRAPHIC admin



unison

Integration | Native hardware



What is Sentrion

Sentrion offers an SSF certified solution for intrusion alarms which also has advanced features for access control, all seamlessly integrated.

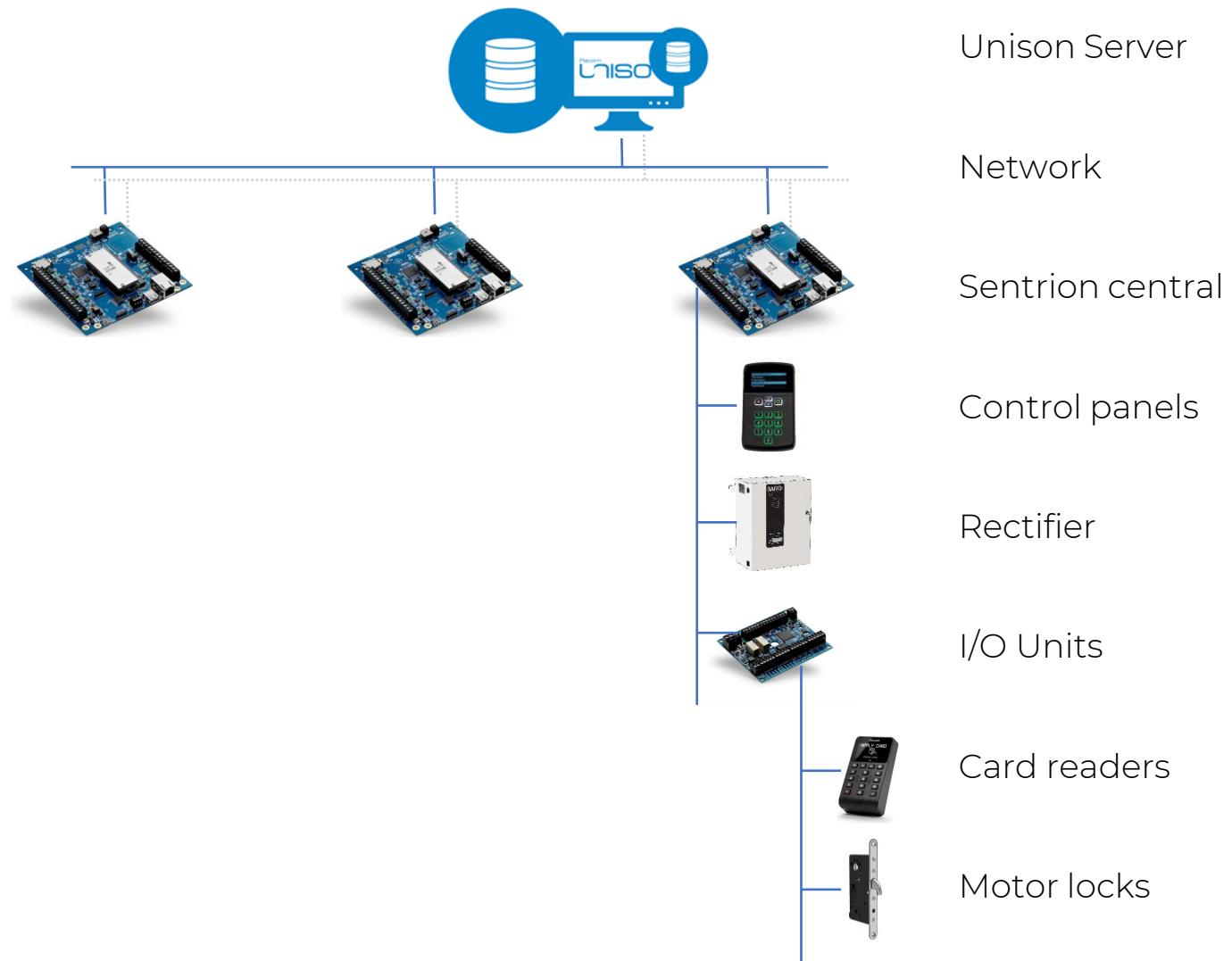
With Sentrion as a subsystem to Unison, the following is offered:

- A fully integrated solution for both alarm and access control
- Flexible and easily installed system for up to Alarm Class 4
- Integration with third-party products such as rectifiers, alarm transmitters, motor locks and card readers.
- Performance for the absolute largest facilities
- Security and functionality for the most demanding customers



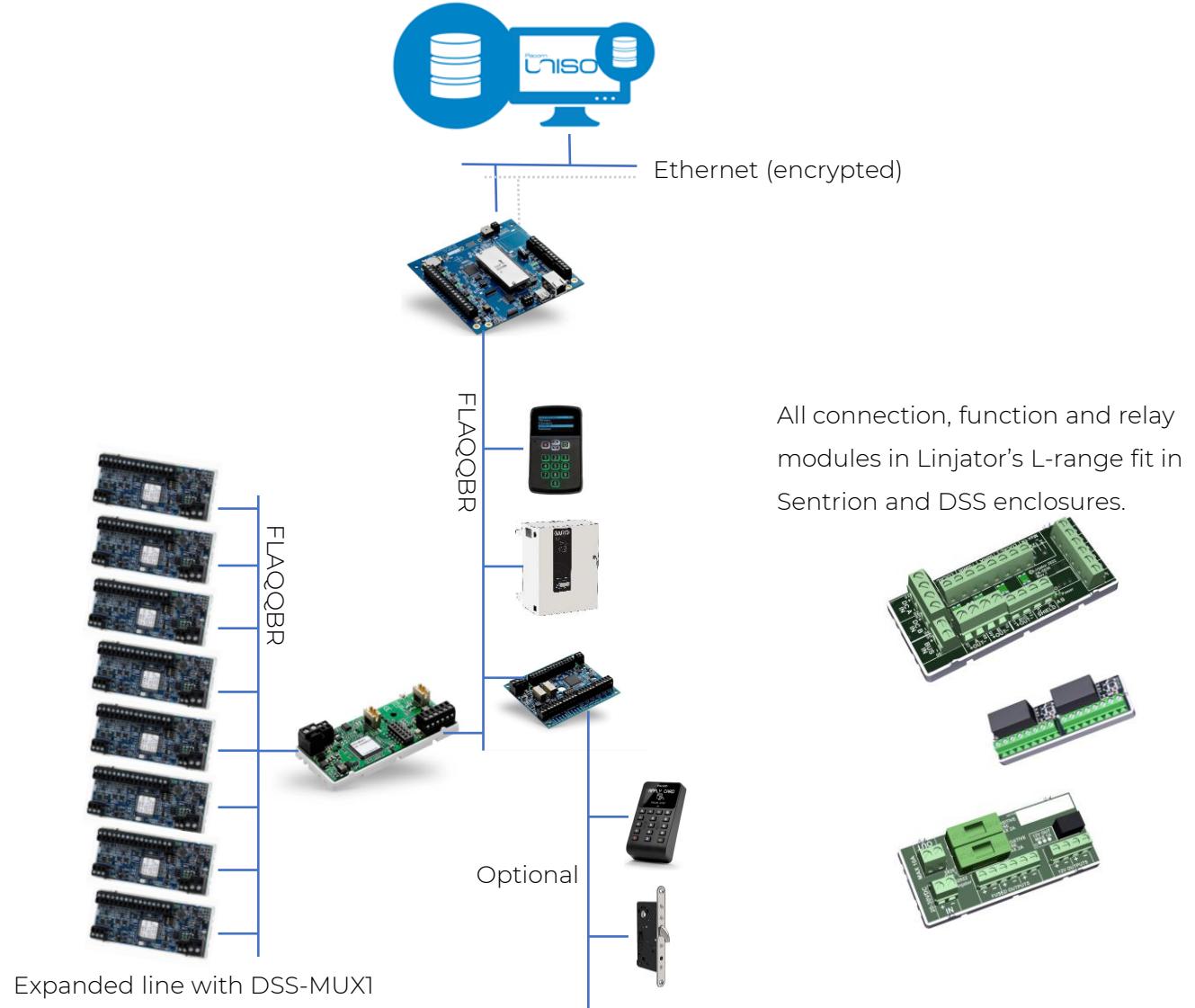


System structure

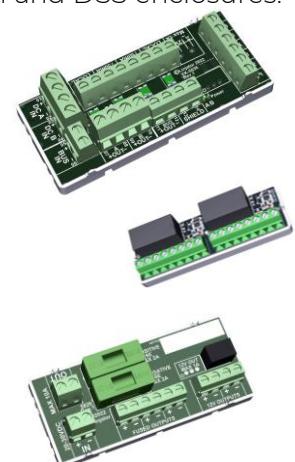




Easy installation

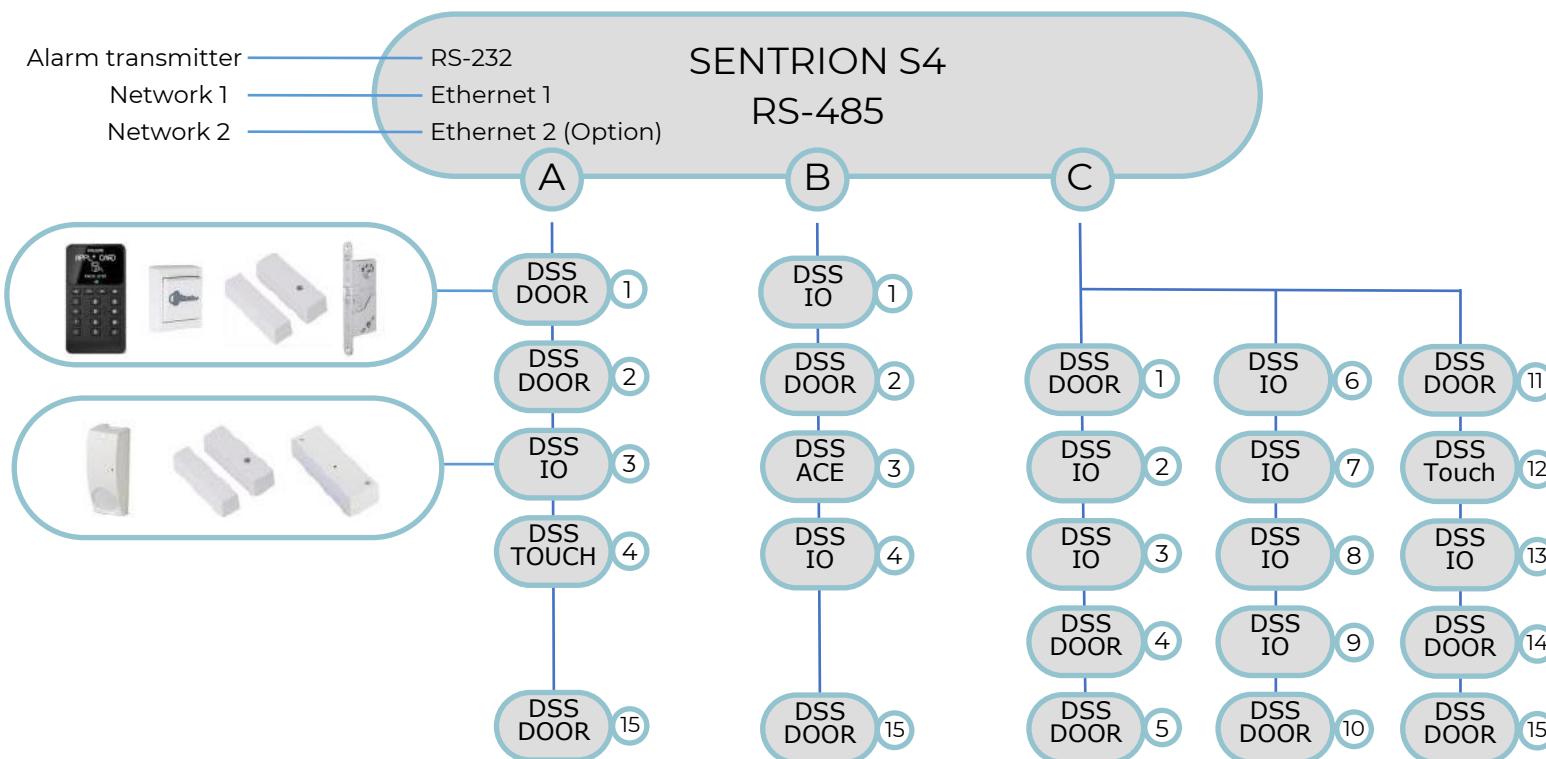


All connection, function and relay modules in Linjator's L-range fit in Sentrion and DSS enclosures.





Technical structure

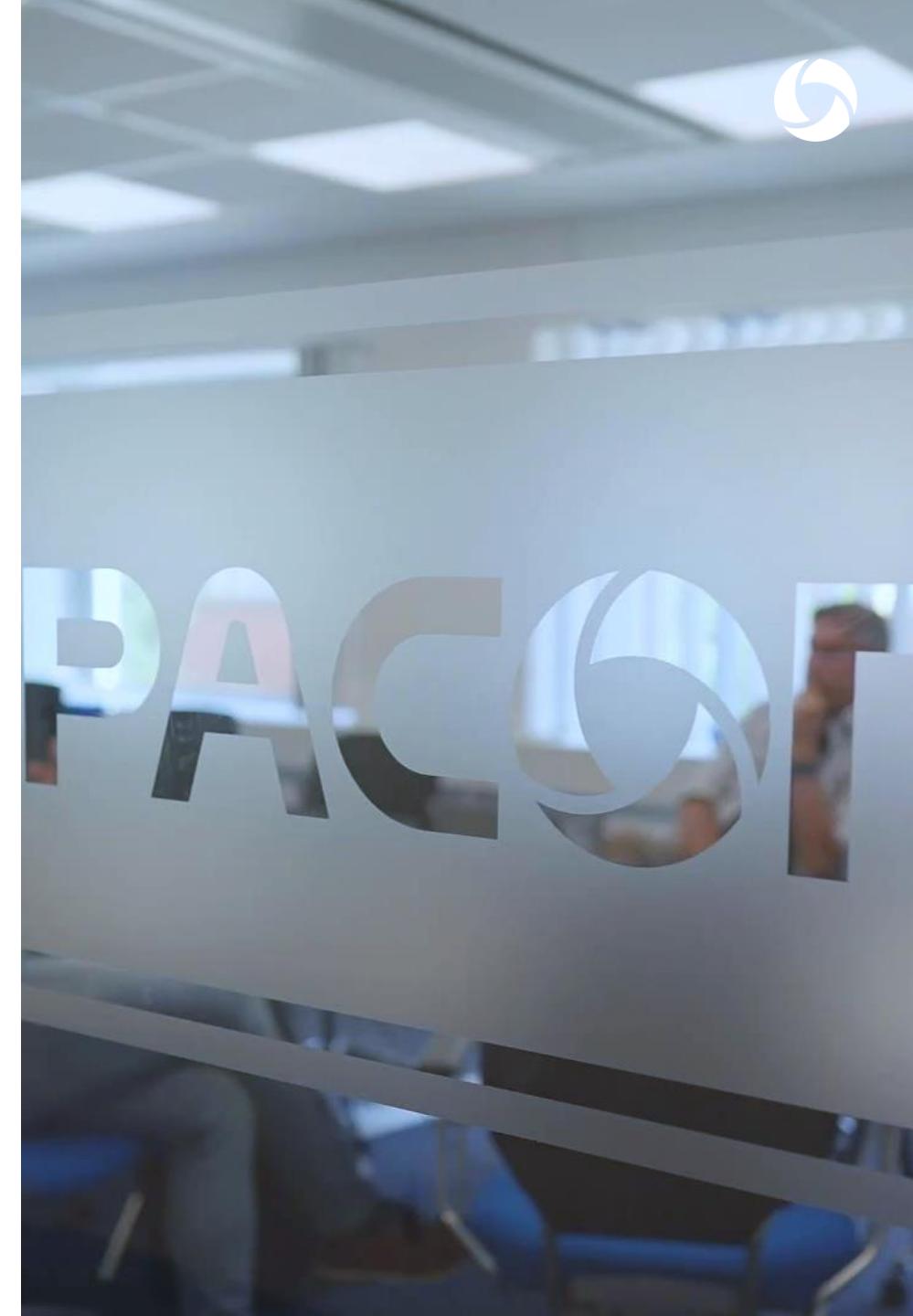


RS-485 Lines:

- Maximal length 1200m per line
- May be starcoupled
- Max 15 units per line
- No special cable requirements but FLAQQBR is preferred
- No termination needed
- All units on same line (inclusive central) should have same OV/-

Units on line:

- Unique address on each line
- Freely selectable types
- Units mixed freely





Overview - units

Central units



Sentriion S4

- 3 lines
- Up to 45 subunits (213 with DSS-MUX1)
- Option for redundant network
- Connection for alarm transmitter



Sentriion S4-DUO

- 1 line
- Up to 10 subunits
- Inbyggd I/O enhet
- Connection for alarm transmitter

I/O enheter



DSS-Door2

- 6 inputs
- 4 outlets (2 relä, 2 OC)
- 2 card readers (Wie/OSDP)
- 12V converter



DSS-IO82

- 8 inputs
- 2 outlets (OC)
- 12V converter



DSS-IO28

- 2 inputs
- 8 outlets (4 relä, 4OC)



DSS-MUX1

- Line expander
- Takes 1 address, gives 15



Overview - units

Card readers



DSS-ACE

- Built-in card reader
- Physical buttons
- RGB illumination
- Approved bypass switch



DSS-TOUCH

- Control panel with graphic 4.3" display
- Resistive touch screen
- SSF, SBSC approved alarm class 4
- Environmental class II
- Addressable 15 positions
- Built-in card reader (MiFare)
- Support for multiple languages
- 10-30VDC supply



PACOM TOUCH 8705

- Card reader with 3.2" touch display
- Clear interface with text and symbols
- Support for multiple MiFare technologies
- Configurable logotype
- RS485, OSDP v1 and v2
- IP54 rated
- Tamper proof
- 10-30VDC supply



PACOM DISPLAY 8707

- Card reader with OLED display
- Clear interface with text, symbols and LED
- Support for multiple MiFare technologies
- IP-54 rated
- RS485, OSDP v1 and v2, Wiegand Summer
- Shows free texts from Unison
- Illuminated keypad
- Download multiple encryption keys for card reading
- Tamper proof
- 10-30VDC supply
- Does not require a heating element for outdoor use



PACOM SLIM 8704

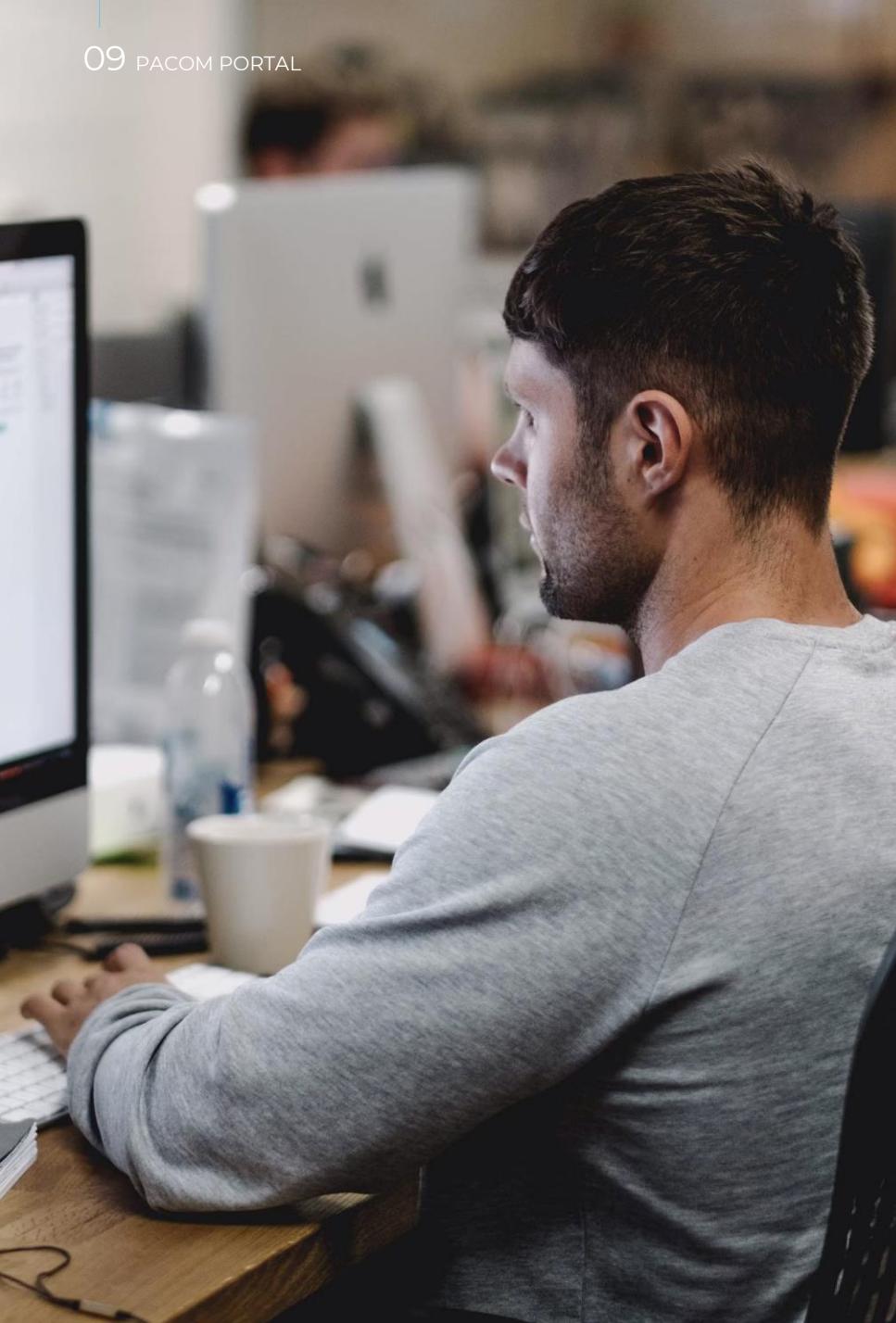
- Easy installation in limited spaces
- Only 37mm wide
- Support for multiple MiFare technologies
- Illuminated keypad
- RS485, OSDP v1 and v2
- Vandal protection available as an accessory
- Tamper proof
- 10-30VDC



08

SALES & BUSINESS SUPPORT

Pacom Portal



Pacom Portal

- Product Catalogue
- Product & Data sheets
- Marketing & News
- Support
- Education
- FAQ
- Contacts



09

SALES & BUSINESS SUPPORT

Unison Training



Technician



Users and operators



Commercial



GRUNDUTBILDNING UNISON

3 dagar

GRUNDUTBILDNING & FORTSÄTTNING UNISON

4 dagar

FORTSÄTTNINGS- UTBILDNING UNISON

2 dagar

KUNDUTBILDNING UNISON

1 dag

(Larmhantering,
Passeradministration
och loghantering)

TEMAUTBILDNING

4 timmar



A hand is shown from the side, palm facing forward, holding a complex network graph. The graph consists of numerous small, glowing teal and white circular nodes connected by thin, translucent blue lines. The network is dense and organic, resembling a neural network or a social network. The background is a dark, blurred blue, suggesting a futuristic or technological environment.

THANK YOU!