

 **BURTON**
SECURITY

SYNGUARD
General presentation



What is Synguard access management?

Who



Where

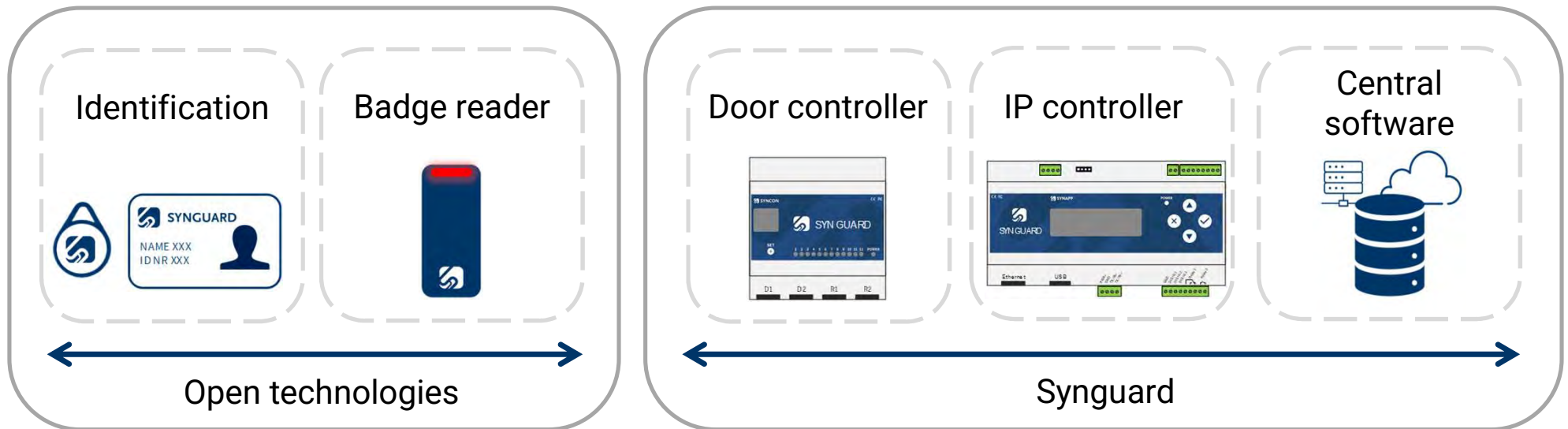


When



- Synguard: much more than access control
 - Visitor registration
 - Parking management
 - Building management
 - ...
- Open Management Platform
 - Total solution
 - For small and large systems

Software & Intelligent Hardware Synguard



- 100% own developments
- 8 in-house developers

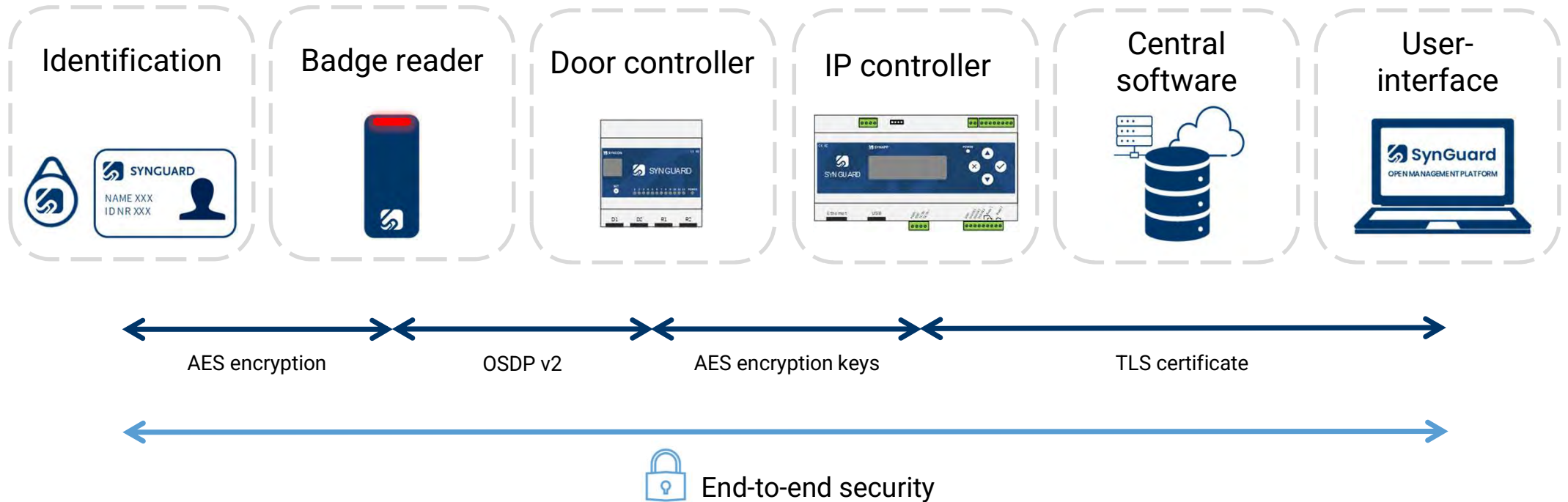
Why choose Synguard?

Uniform user interface



- 100% web-based without plug-ins, with your favourite web browser
- Full configuration, management and use of access management through the same user interface

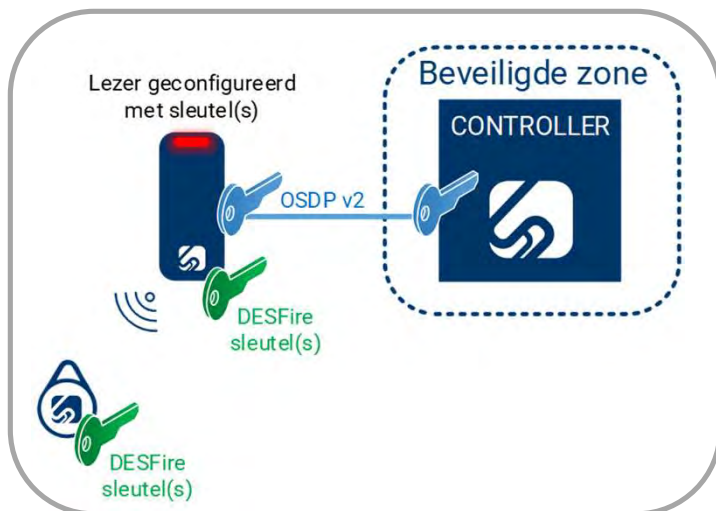
End-to-end security



Security: Secure Access Module (SAM)

Mifare DESFire keys & OSDP keys

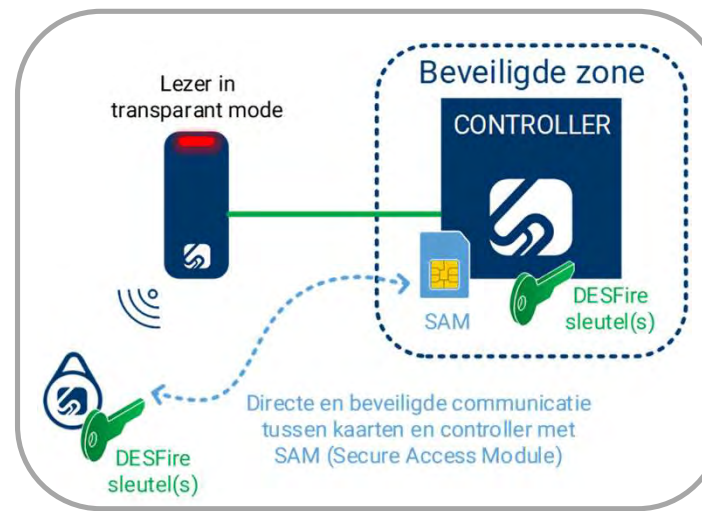
- Readers must be configured
- Encryption keys in unsecured area (reader)



End-to-end security with DESFire and OSDP keys

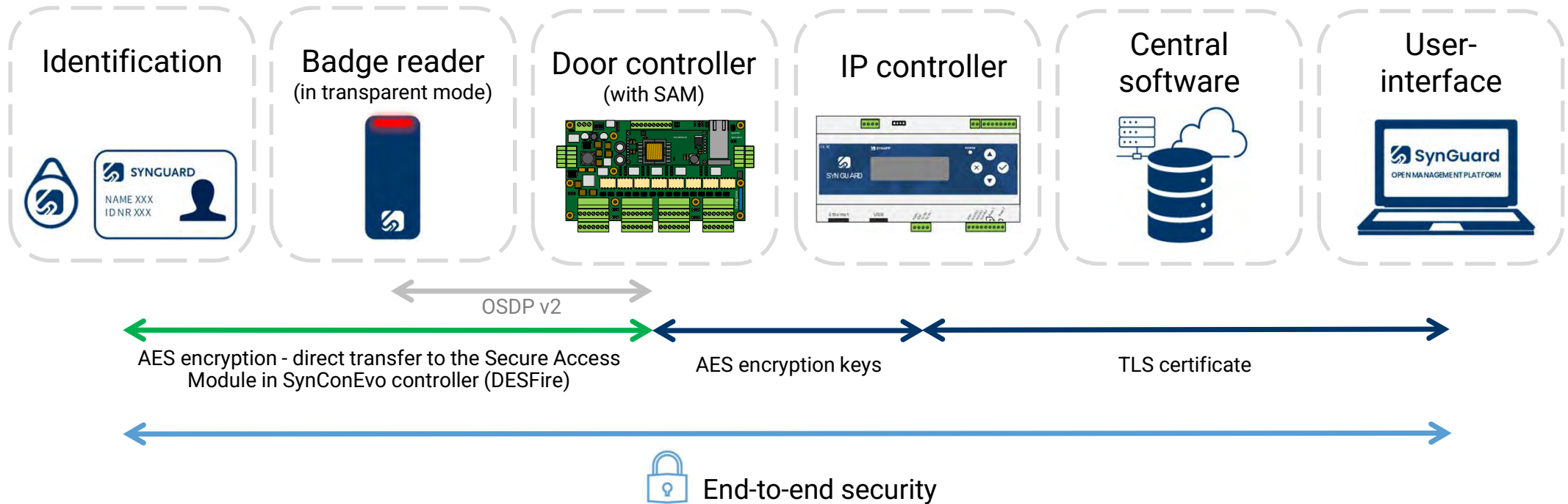
Mifare DESFire keys - SAM

- Customer manages encryption key
- Encryption keys in secured area (SynConEvo)



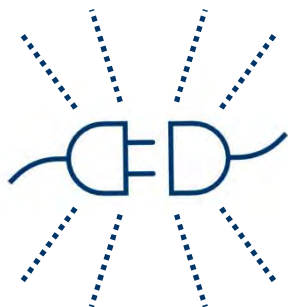
End-to-end security with DESFire key, reader in transparent mode and SAM card in the controller

End-to-end security - version with SAM



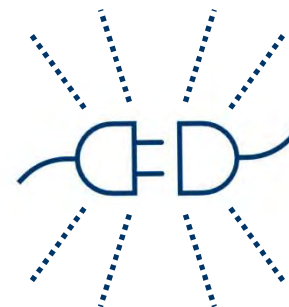
Reliability

Local door
controller



Local fallback

Local
IP controller



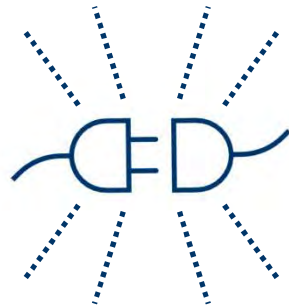
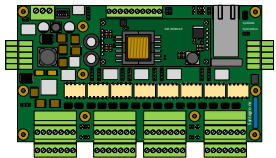
100% fallback

Central
software



Reliability

Local door
controller



Local fallback

Local
IP controller



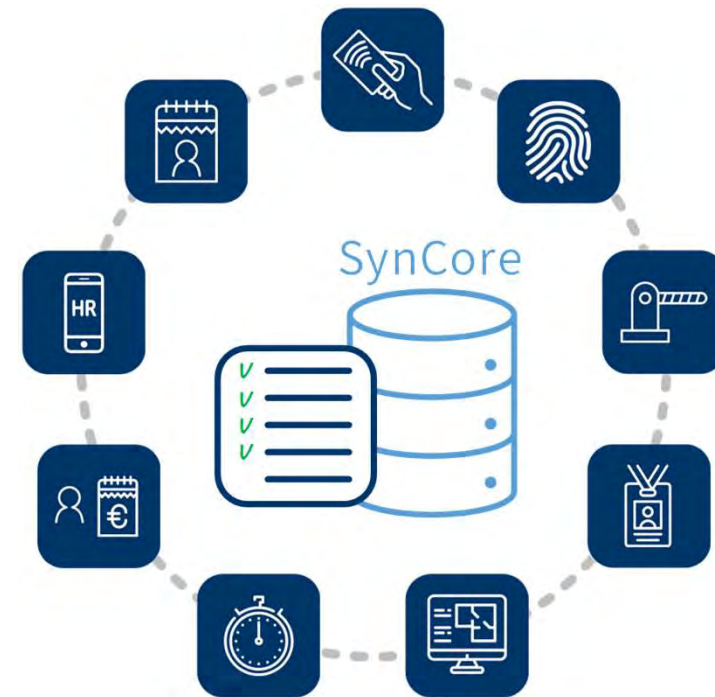
100% fallback

Central
software



All-in-one

- Access control
- Biometrics
- Parking management
- Visitor registration
- Building management
- Time recording
- Staff costs
- Employee self-service
- Staff planning



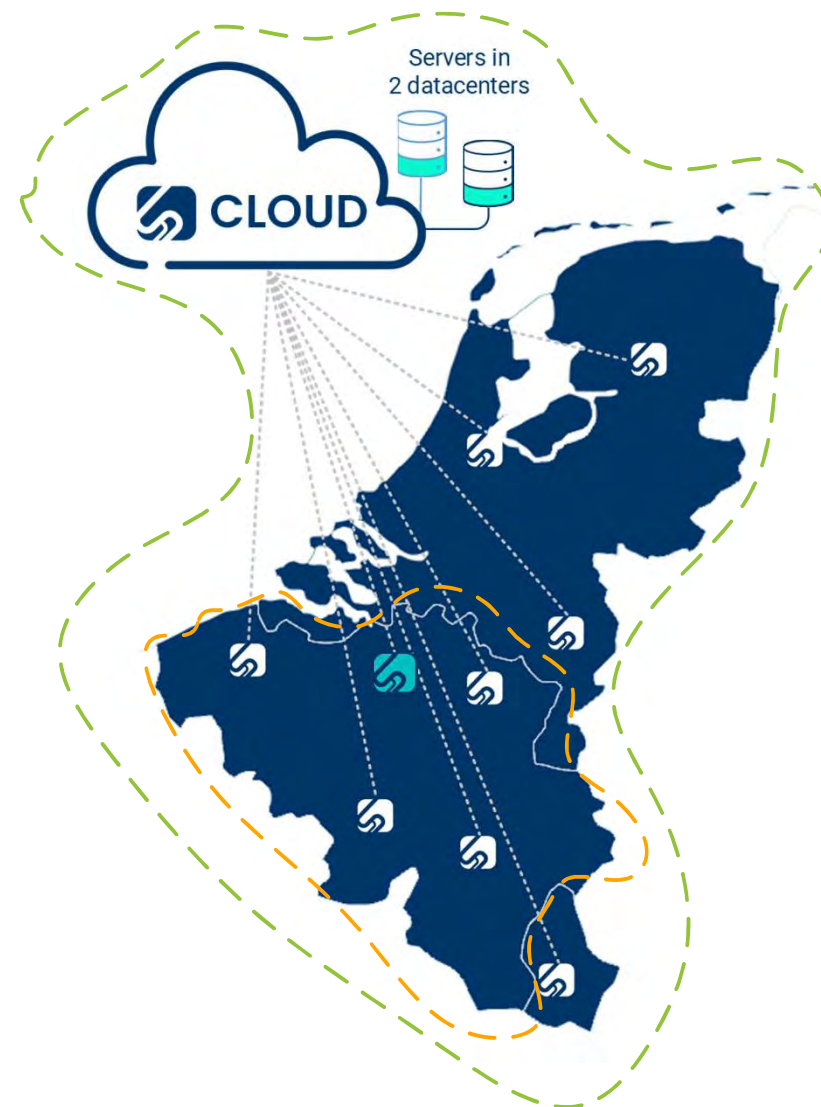


Future proof

- Own in-house developers
- Open standards & open source development tools
- Tracking and integrating new, reliable & technological trends

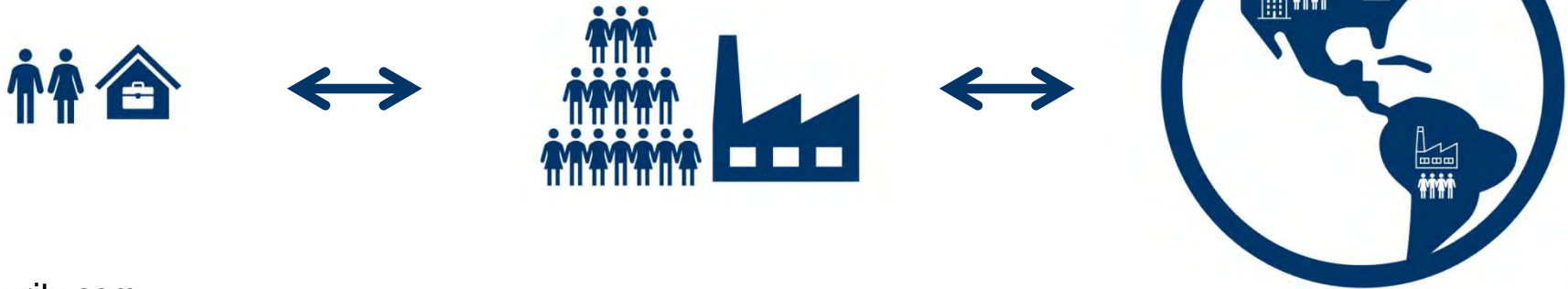
Multisite

- 1 common interface and database for all branches
- Determine per user role who gets to see which information/screens and can make changes
- Central & decentralised management
 - Overarching
 - Region, country or group
 - By site
 - ...



Scalability

- Unlimited scalability
- Simply adjust to current needs:
 - 1 building <-> multisite
 - 1 door <-> unlimited number of doors
 - 1 person <-> unlimited number of persons



Flexible solutions

Software

One solution for different markets



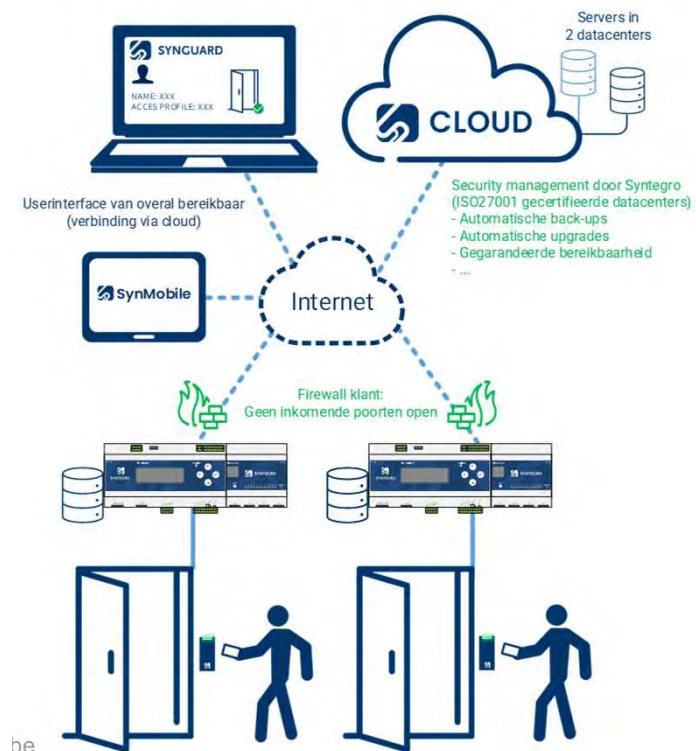
New off-the-shelf product

	Embedded	On-premise	Cloud solution
Synguard packs			(max. 16 doors)
Small & medium sized projects			
Large projects			
	<ul style="list-style-type: none"> Up to 128 readers/doors (mix between wireless and wired) Up to 32 Synguard door controllers Access control only 	<ul style="list-style-type: none"> Unlimited scalability (management of multiple IP controllers) All Synguard modules available All integrations available Easy deployment of multisite projects Open management platform 	<ul style="list-style-type: none"> Guaranteed availability and connectivity Automatic upgrades Automatic backups Redundant arrangement
With certified partners			

Software flexibility

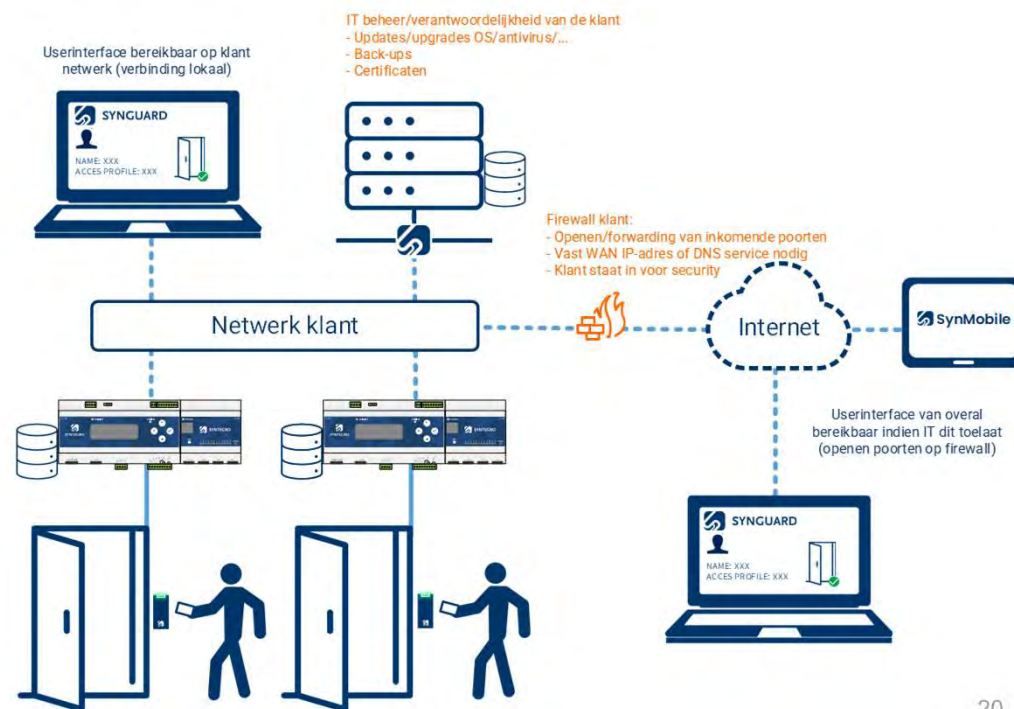
Software as a Service (SaaS)

Software & database in Synguard cloud and local IP controller(s)



On-premise

Software & database on local server and local IP controller(s)



Advantages of the Synguard cloud

- Improved **accessibility of support**
- Automatic **upgrades & daily backups**
- Unburdening your own **server security**
- **No need for your own IT equipment** (and power consumption)
- Easier **links** to other systems
- Fully **redundant**
- **Grows with** the size of the environment
- **Tier 4 data centre:** highest level of security and business continuity
- **100% GDPR proof** according to **ISO27001**



Cloud vs. On-premise



	On premise	Cloud
Operational reliability	Depending on own environment, hardware and services	Guaranteed (Redundant arrangement)
Software upgrades - compatibility	Not included	Included
Own local IT infrastructure	Own environment and services needed	Limited
Power consumption	Own cost	Included
Own IT hardware and services	High own cost	Limited
IT maintenance cost	High own cost	Included
Right environment for IT infrastructure	Own responsibility and cost	Included - ISO 27001 certified data centre
Data Security	Own responsibility and cost	Included
Ease of use	Depends on own IT settings (DNS, port forward)	Included
Budget	Variable and unreliable (IT hardware failures)	Fixed and known
Investment cost	High	Bearing
Software / Licences	One-time purchase	Rental agreement

Flexible solutions

Hardware

Central vs decentralised

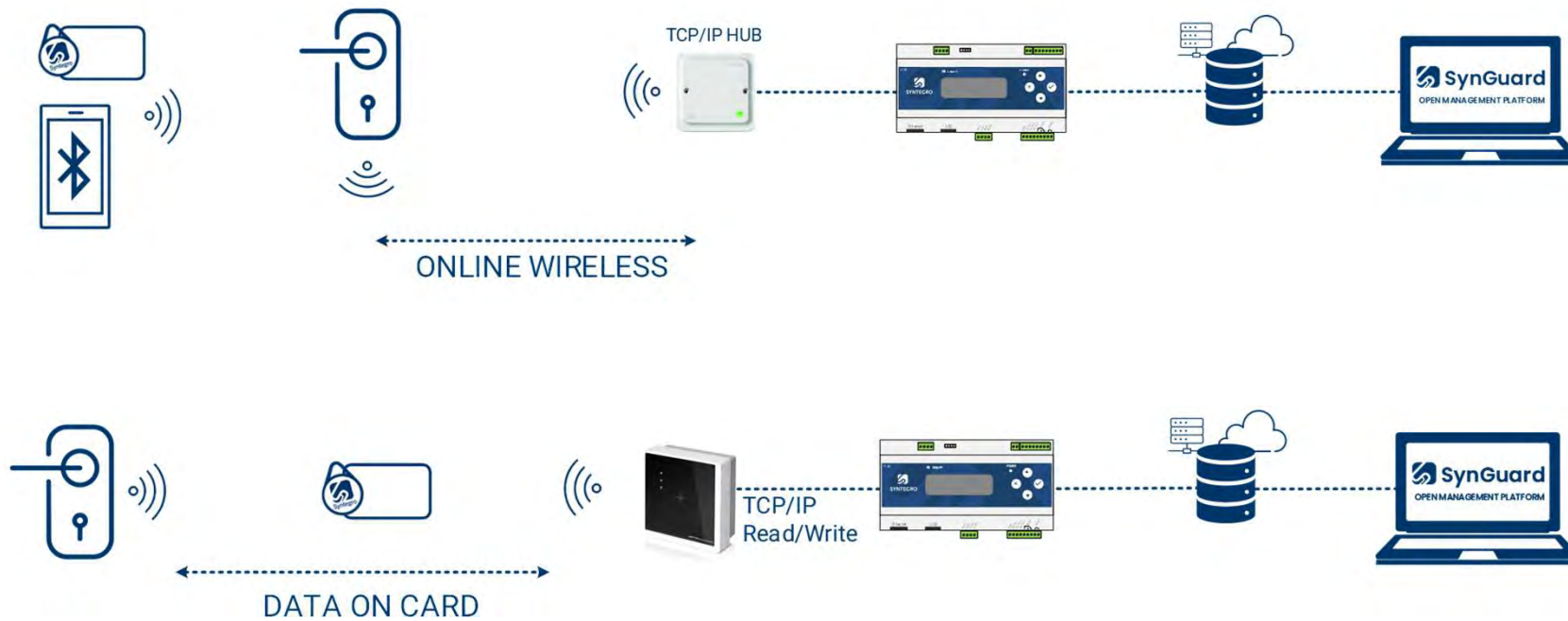
- **Central:** all cabling comes to 1 central point
Easier set-up, connections to external systems & maintenance. Often used in new builds.
- **Decentralised:** working with local components
Saving in cabling. Often in existing buildings.
- **Combination** of both systems is always possible, depending on the site.

Wireless vs wired

- **Wireless:** in addition to quick installation, this is usually very aesthetic and flexible
- **Wired:** always real-time reliable information, greater variety of identification options & less maintenance intensive



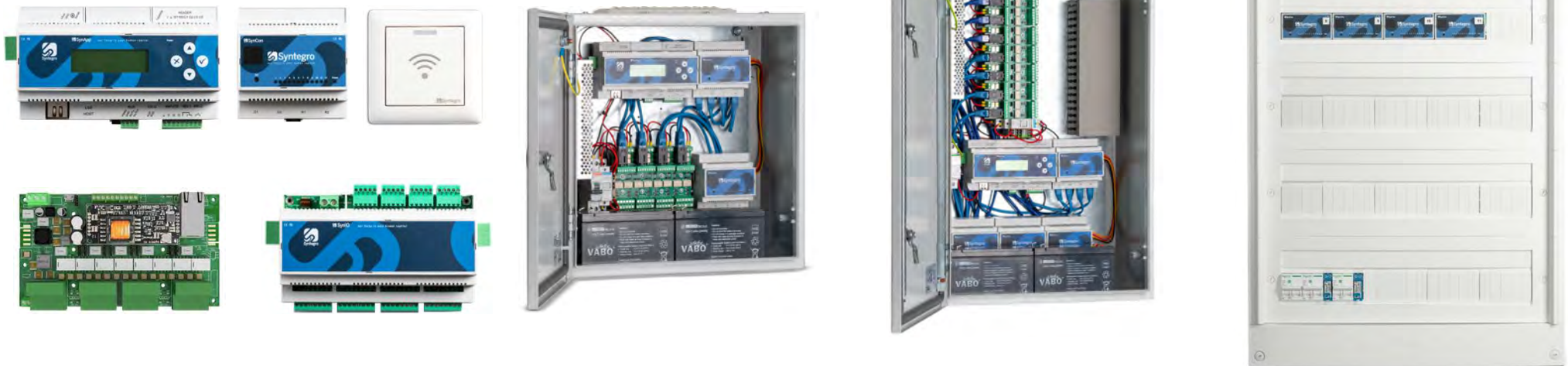
Online vs offline



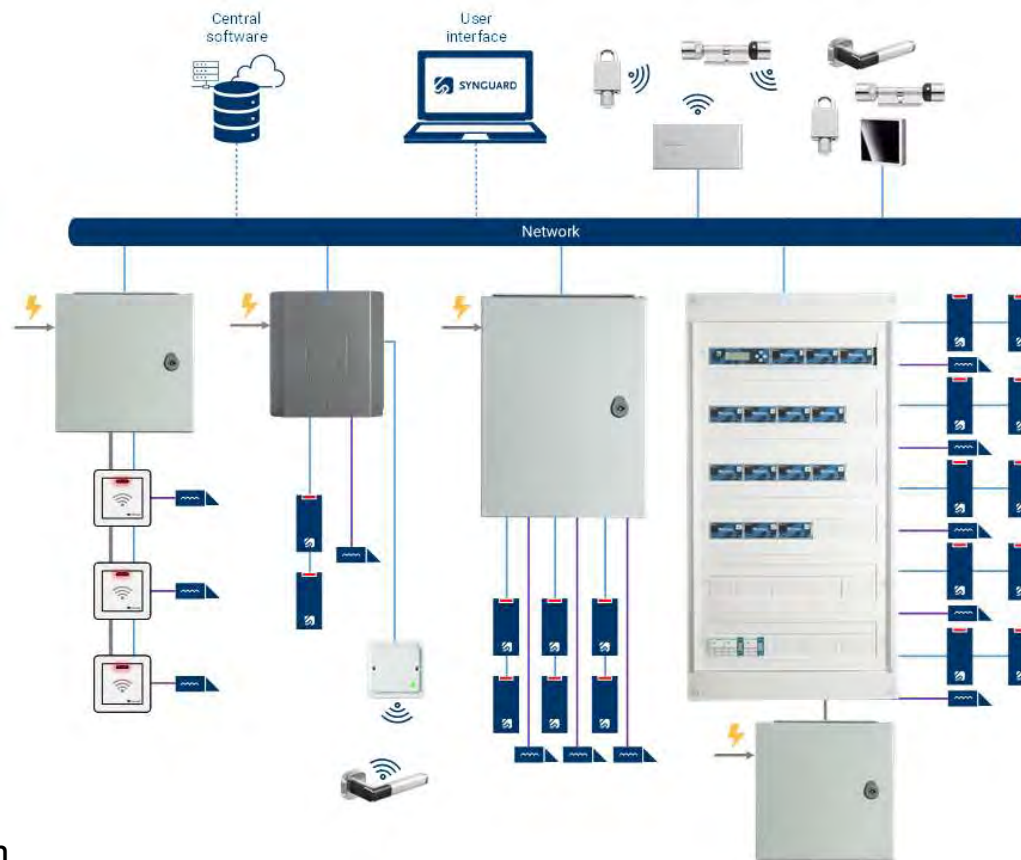
A focused and complete offer...

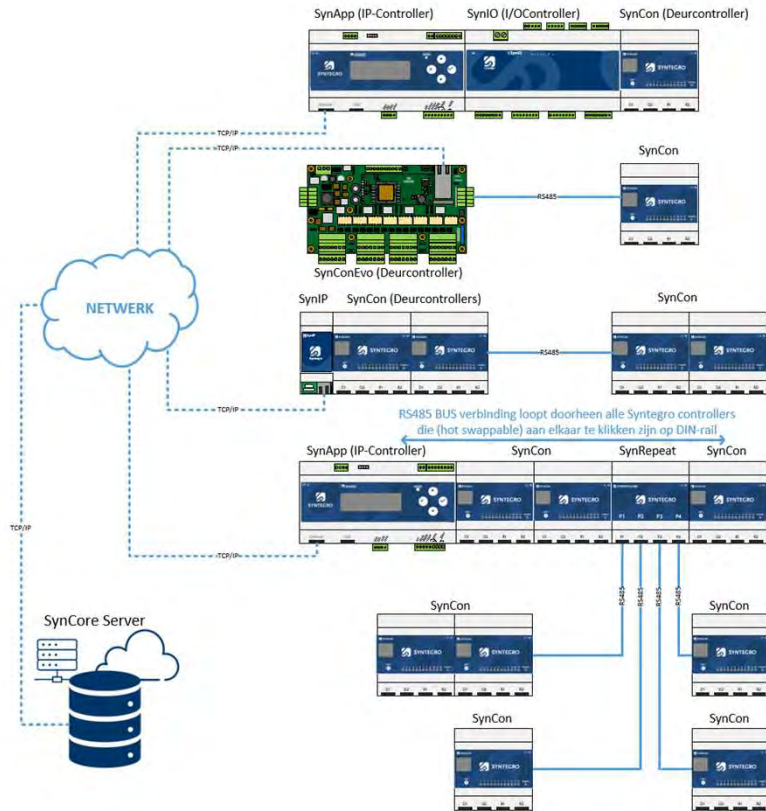
Synguard hardware (controllers)

- Different controllers to suit every cabling model
- All controllers are backwards compatible
- Cabinets prepared and wired by Synguard



... allow for a flexible topology





Connections

Hardware

IP-Controller: SynApp

- DIN housing or PCB
- For the management of up to 15,000 people
- Power supply 12VDC or 24VDC
- Communication with the network via TCP/IP
- 100% fallback
- Management of up to 32 SynCon door controllers
- Version also available for management up to 200,000 persons and 64 SynCon door controllers



Door controllers

SynCon



- For management of 2 to 4 doors
- Power supply 12VDC or 24VDC
- Connecting to the SynApp RS485 bus
- Limited fallback mode
- 4 RJ45 sockets for connection to SynDuo
- 4 relays of 30VA

SynConEvo



- For managing up to 8 doors and 16 OSDP readers
- Power supply 12VDC or 24VDC - optionally with PoE
- Communication with SynApp via TCP/IP or RS485 bus
- Extended fallback mode
- Secure-Access-Module (SAM) built-in
- 8 relays of max. 30VA

Housing cabinets

- Metal housing IP66
- 2 Formats
- Power supply (155 W) available
- 12 or 24VDC
- Space for emergency batteries
- Fire relay & fuse present
- Membrane gland plate at the top
- Tailor made for the customer
- Assembly by Synguard



medium



Large

DIN mounting boxes

- Plastic housing with DIN rails
- Different sizes
- Separate supply cabinets required
- For centralised installations
- Tailor made for the customer
- Assembly by Synguard



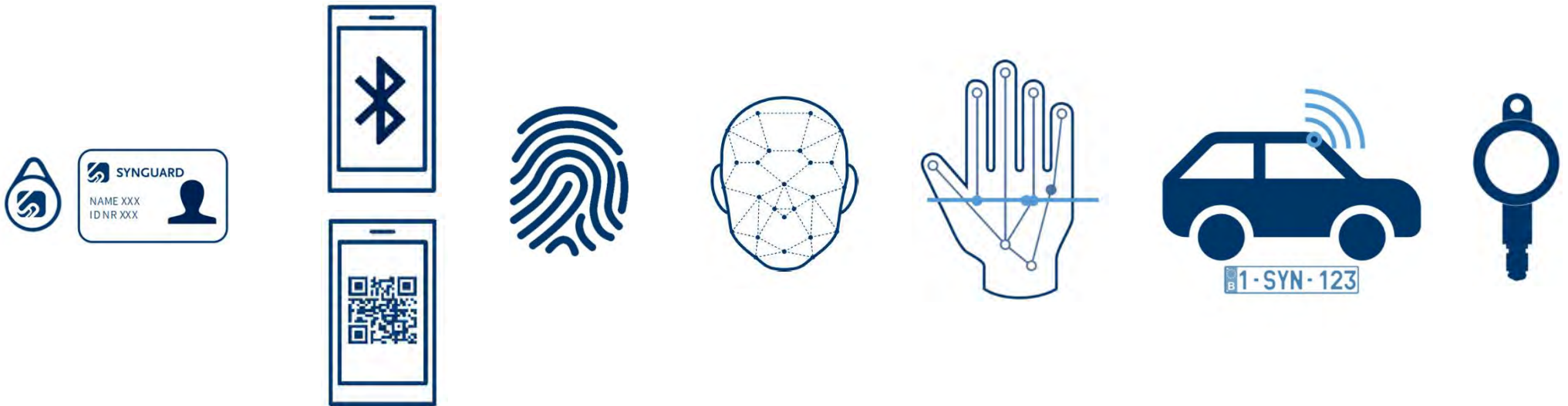
Solution for small systems



- All-in packs
- 1, 4 or 8 doors
- Full end-to-end security
- 20 - 50 users
- 12 or 24 VDC
- Choice of badge/pin readers
- Mobile ready
- Emergency batteries included

Identification

Identification options



Bath readers



 **IDESCO**



 **HID**



 **STid
ARCHITECT**



 **nedap** | identification systems

Wiegand vs. OSDP

	Wiegand		OSDP - RS485	
Accepted by SIA in	1995		2011	
Type of communication	One-way		Bidirectional	
Communication encrypted (OSDP v2)	No		128 bit AES encryption	
Supervision readers	No (eavesdropping possible)		Constant supervision	
Checking the functioning of readers	No		Constant polling	
Maximum distance between reader and controller	30 to 70 metres		1200 metres	
Number of wires required	7 wires		4 wires	
Twisted pair required	No		Yes	
Maximum number of readers per SynCon	2		4	
Maximum number of readers directly on SynApp	1		2	
Readers are addressable on bus line	No	Yes		

IP reader

- 100% IP reader (TCP/IP)
- Can also be used as an updater
- Easy installation on existing network
- PoE



Biometrics – face recognition

- Fast, accurate and secure face recognition
- Scanner can recognise your face between 0 lumens (in moonlight) to 25,000 lumens (in bright sunlight)
- With built-in badge reader



Suprema

Biometrics – fingerprint

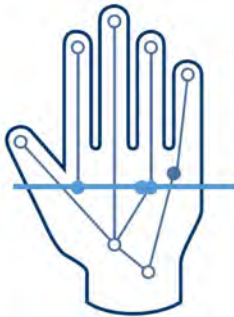
- Suitable for indoor and outdoor installation
- With built-in badge reader (and code keyboard)



suprema

Biometrics – palm reader

- Installation: surface-mounted or recessed
- Material: front plate stainless steel with Palmki logo or optionally personalised



Wireless locks



Simons Voss
technologies




ASSA ABLOY



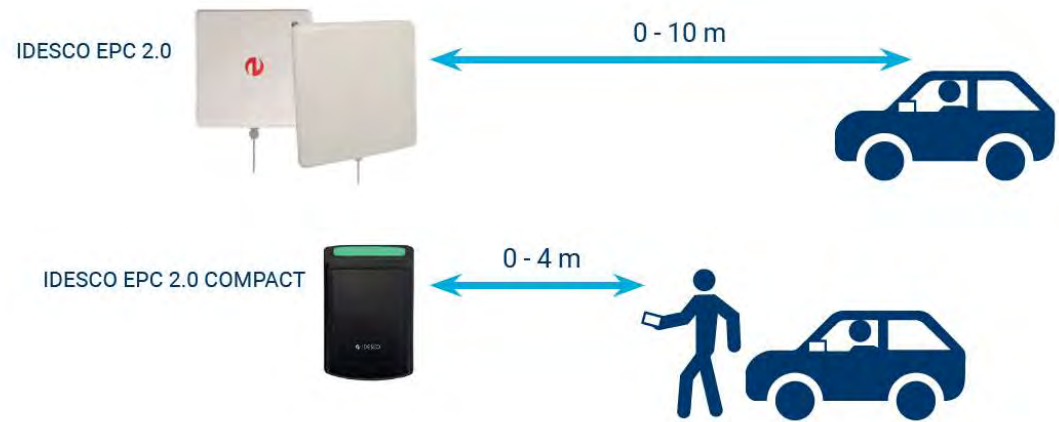
Attention!
For the offline version, separate software is required

SALTO
inspiredaccess

Vehicle identification



ANPR camera



Long-distance readers

Electronic key management



traka
intelligent access management



deister 
electronic

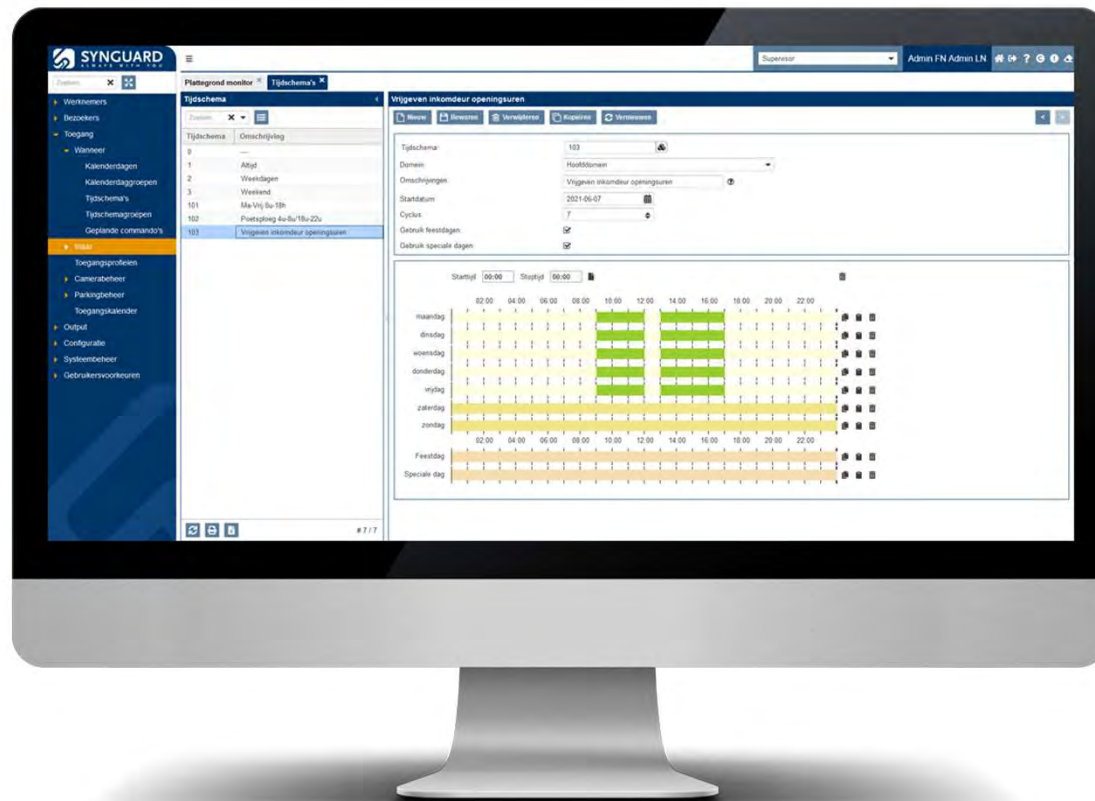


CLIQ™
ASSA ABLOY

Software

Own developments

Synguard uniform web interface



Synguard - who

The screenshot displays the Synguard web application interface. On the left is a navigation menu with options like 'Werknemers', 'Afdelingen', and 'Badge zoeken'. The main area is divided into three sections:

- Hierarchie:** A tree view showing organizational structure with folders for 'Bezoekers', 'Contractors', and 'Sales Toegangscntrole'.
- Werknemer:** A table listing employees. The selected employee is Thomas Gielen.
- Thomas Gielen (E26WZP5VB):** A detailed profile view with a form for personal and professional information.

Werknemer Table:

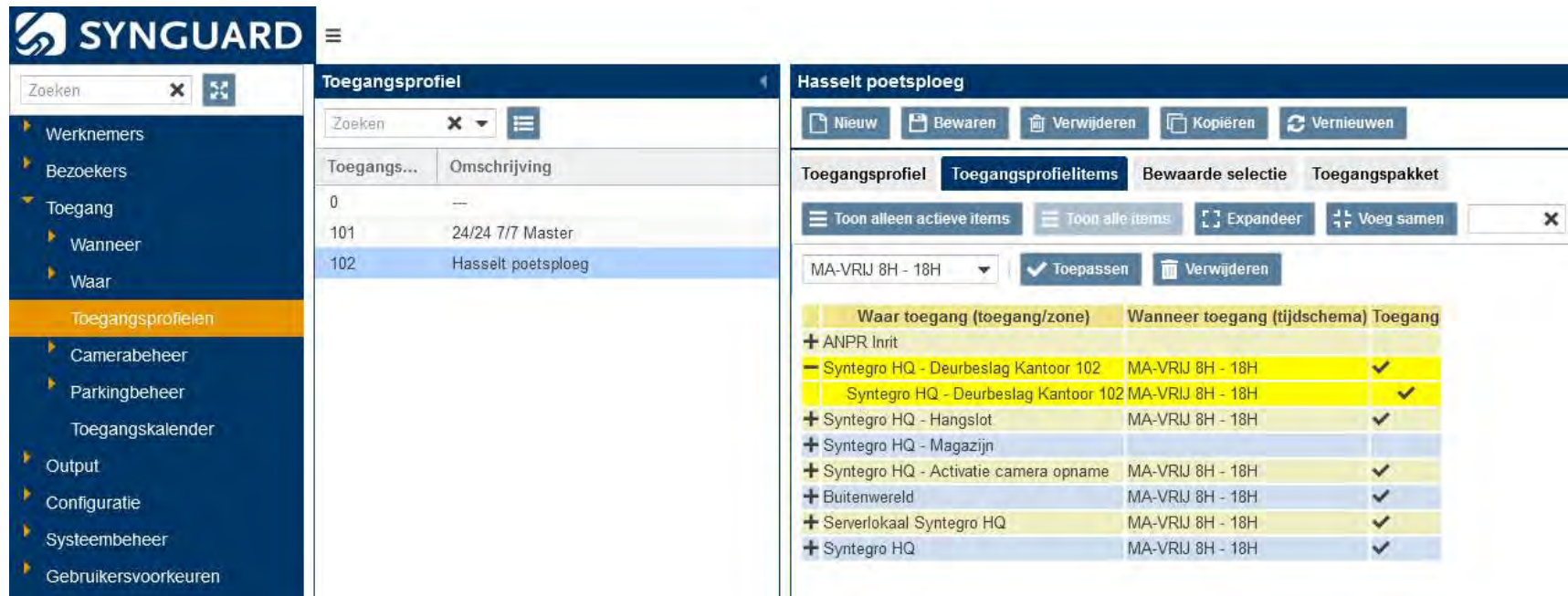
Werknemer	Voornaam	Achternaam	Personeel.
1	Admin FN	Admin LN	ADMIN
2	Bert	Meert	E26KM94T
3	Thomas	Gielen	E26WZP5V

Thomas Gielen (E26WZP5VB) Profile Form:

- Werknemer: 3
- Personeelsnummer *: E26WZP5VB
- Contractnummer *: 1
- Titel: Dhr.
- Voornaam *: Thomas
- Achternaam *: Gielen
- Naamsuffix: (empty)

A photo placeholder labeled 'Foto' is visible on the right side of the profile view.

Synguard - where



The screenshot displays the SYNGUARD web interface. On the left is a navigation menu with categories like 'Werknemers', 'Bezoekers', 'Toegang', and 'Toegangsprofielen'. The main area is split into two panels. The left panel, titled 'Toegangsprofiel', shows a table of access profiles with columns 'Toegangs...' and 'Omschrijving'. The right panel, titled 'Hasselt poetsploeg', shows a table of access profile items with columns 'Waar toegang (toegang/zone)', 'Wanneer toegang (tijdschema)', and 'Toegang'.

Toegangsprofiel

Toegangs...	Omschrijving
0	--
101	24/24 7/7 Master
102	Hasselt poetsploeg

Hasselt poetsploeg

MA-VRIJ 8H - 18H

Waar toegang (toegang/zone)	Wanneer toegang (tijdschema)	Toegang
+ ANPR Inrit		
- Syntegro HQ - Deurbeslag Kantoor 102	MA-VRIJ 8H - 18H	✓
Syntegro HQ - Deurbeslag Kantoor 102	MA-VRIJ 8H - 18H	✓
+ Syntegro HQ - Hangslot	MA-VRIJ 8H - 18H	✓
+ Syntegro HQ - Magazijn		
+ Syntegro HQ - Activatie camera opname	MA-VRIJ 8H - 18H	✓
+ Buitenwereld	MA-VRIJ 8H - 18H	✓
+ Serverlokaal Syntegro HQ	MA-VRIJ 8H - 18H	✓
+ Syntegro HQ	MA-VRIJ 8H - 18H	✓

Synguard - when

The screenshot displays the SYNGUARD web application interface. On the left is a dark blue sidebar menu with options like 'Werknemers', 'Bezoekers', 'Toegang', 'Wanneer', 'Kalenderdagen', 'Kalenderdaggroepen', 'Tijdschema's', 'Tijdschemagroepen', 'Geplande commando's', 'Waar', 'Toegangsprofielen', 'Camerabeheer', 'Parkingbeheer', 'Toegangskalender', 'Output', 'Configuratie', 'Systeembeheer', and 'Gebruikersvoorkeuren'. The 'Tijdschema's' option is highlighted.

The main content area is titled 'Vrijgeven inkomdeur openingsuren' and includes a search bar, a list of time schemes, and a detailed configuration form for scheme 103. The configuration form contains the following fields:

- Tijdschema: 103
- Omschrijvingen:
 - Vrijgeven inkomdeur openingsuren (NL)
 - Release entrance door opening hours (EN)
 - Libérer les heures d'ouverture de la porte d'entrée (FR)
- Startdatum: 2021-06-07
- Cyclus: 7
- Gebruik feestdagen:
- Gebruik speciale dagen:

Below the form is a calendar view showing the schedule for the week of June 7, 2021. The x-axis represents time from 02:00 to 22:00. The y-axis lists the days of the week. The schedule shows green bars for Monday through Friday from 10:00 to 18:00, and yellow bars for Saturday and Sunday from 00:00 to 22:00. There are also sections for 'Feestdag' (Public Holiday) and 'Speciale dag' (Special Day) at the bottom.

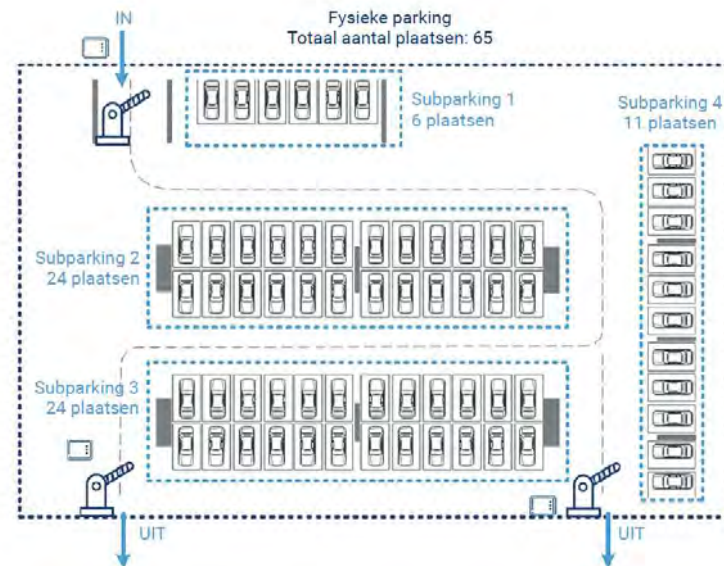
Synguard-Visitor

- For announced and unannounced visitors
- Invitation e-mail with instructions
- Corporate identity customer
- Ideal in combination with ANPR & QR
- Check visitors in and out yourself on tablet, kiosk, ...
- Possibility to integrate safety test



Synguard-Parking

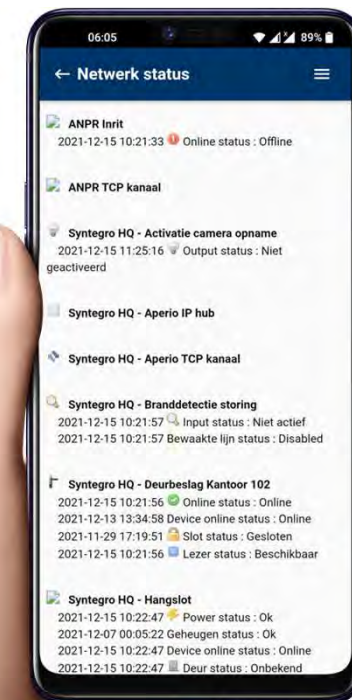
- Car park management
- 100% integrated in access management
- Subdivision of sub-parks possible (e.g. multi-tenant)
- Real-time graphical display of number of free/occupied seats



SynMobile

- Own app
- Steering doors/barriers open
- Viewing statuses & (de)activating elements

Roadmap 2023: Completely new Synguard app with focus on access management



Synguard Open Management Platform



Import & authentication
Easy to connect others by our Employee-webservice

PSIM / Building management systems
Easy to connect others by our Synguard-Webservice

SYNGUARD
OPEN MANAGEMENT PLATFORM
"BEST-OF-BREED"



SYNGUARD



SYNGUARD-BIO



SYNGUARD-PARKING

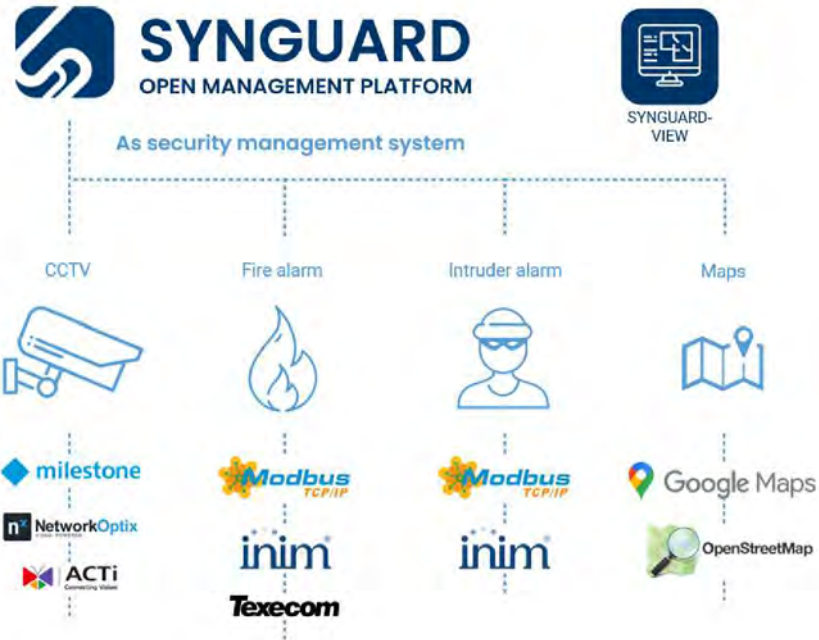


SYNGUARD-VIEW



SYNGUARD-VISITOR



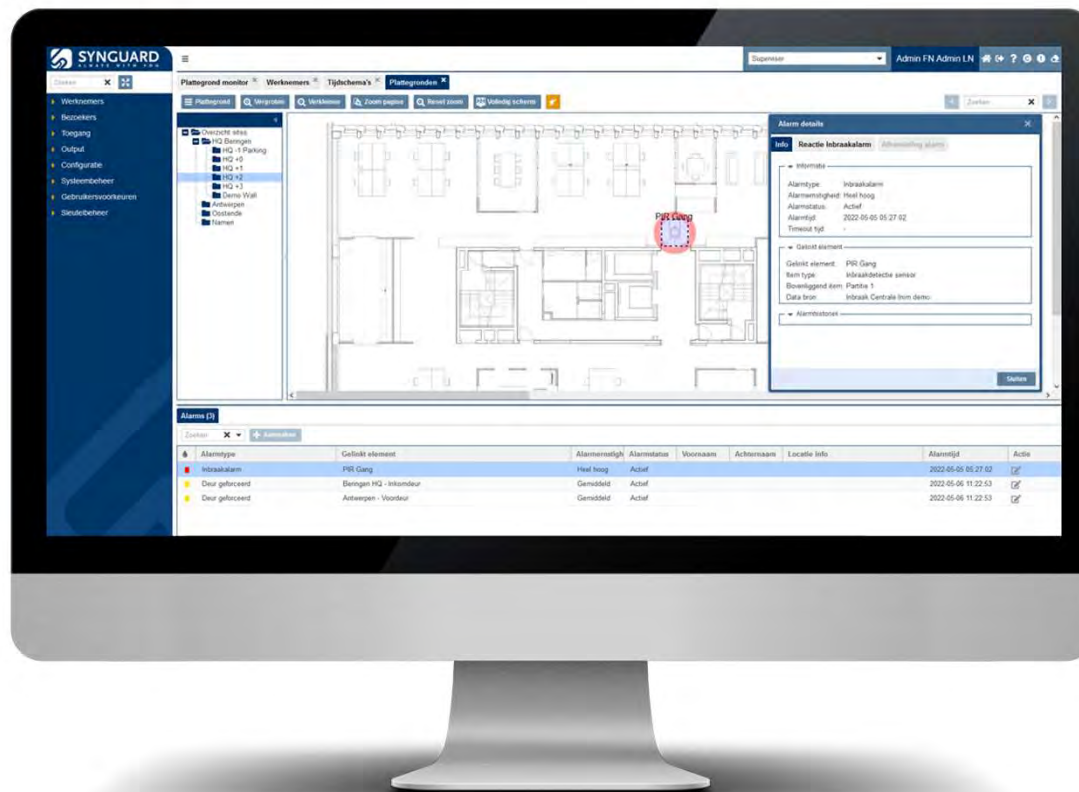


Synguard web services

- For connections with other systems there are standard APIs (XML SOAP/REST)
 - Synguard: manage **access control**
e.g. open certain doors
 - Employee: manage **employees**
e.g. create new employee
 - Employee group: manage **employee groups** (departments)
e.g. update department profile
 - Visitor: **visitors**
e.g. create visits
 - Parking: **parking events**
e.g. occupancy rate received



Synguard Open Management Platform



Software

Links & integrations

Camera integration

- Milestone VMS Xprotect integration
- Possible:
 - Importing cameras
 - Viewing live images
 - Create bookmarks
 - Start playback stream from specified time or event (e.g. invalidated badge)



Location determination



- BlooLoc: partner specialised in indoor positioning, location determination and asset tracking.
- Application: unlocking or locking doors by means of Bluetooth, depending on the people in the vicinity (e.g. wander prevention).



BLOO—
— **LOC**

Import and authentication

- Automatic synchronisation of employee data
 - Avoid double entries
 - Always correct & up-to-date data
- Login to SynCore with the same (Windows) user name and password
- When logged into the Windows environment, immediately start in SynCore (Single Sign On)



Call systems

- Transferring identifications and alarms to the nurse call system
- Send events to alarm server for notification to one or more DECTs
 - Opening of emergency doors
 - Unlawful opening of doors
 - Door open too long
 -



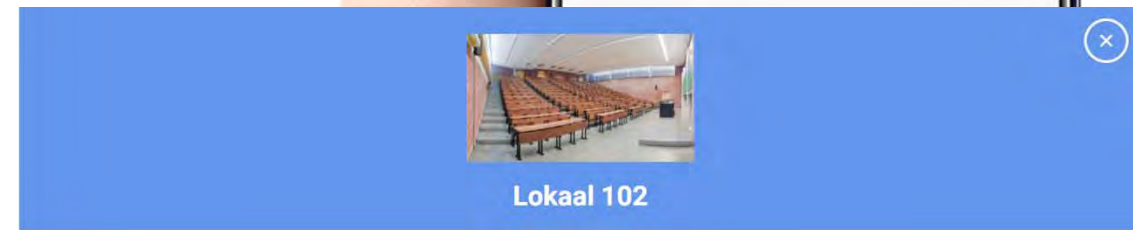
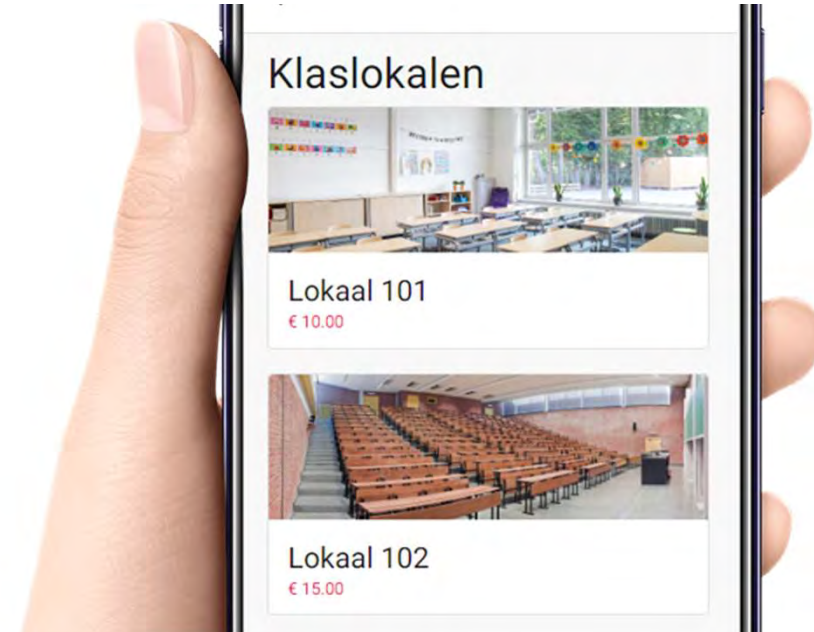
Building & Safety Management

- Winguard: Advancis PSIM software platform that has more than 400 different interfaces.
- Entelec: Sky-walker open integration platform



Reservation management

- Renting or reserving spaces, infrastructure, vehicles & car parks.
- Access to by means of QR code
- Link with reservation management system and online payments
- Saving time through automation
- Customised web page and/or mobile app



Lokaal 102

Selecteer datum en tijd waarop u wil reserveren.

Start

Datum: 2021-12-22 Tijd: 12:00

Einde

Datum: 2021-12-22 Tijd: 13:00

VANDAAG < >

december 2021