

Access control hardware portfolio

Synergis™ is an IP Access Control Solution that integrates a growing and versatile selection of access control hardware from leading manufacturers. With a wide range of supported door controllers, interface modules, electronic locks, and PoE-enabled edge devices, Synergis offers a complete portfolio of intelligent door control hardware.





Move away from proprietary hardware

Access control systems have traditionally relied on proprietary software and hardware, resulting in limited long-term flexibility. The Synergis™ IP access control system breaks away from this paradigm and establishes a fresh approach to access control, one that gives organizations the flexibility to choose the hardware that best meets their security needs. Choosing the Synergis system will guarantee the long-term viability of your access control investment.

A powerful ecosystem of technology partners

Genetec[™] actively partners with the security industry's leading manufacturers of access control equipment to bring its vision of open and IP-ready access control to life. As the list of integrated hardware grows over time, rest assured that you will have access to the latest technology that the physical security industry has to offer.



Hardware that fits your everday access control needs

Choose your controller

In addition to Synergis Cloud Link, Synergis supports some of the most popular controllers on the market including the HID EDGE and VertX EVO controllers, and the full line of Mercury Security LP & EP panels.

Wireless electronic locks

For hard to reach locations, leverage wireless locks and unify wired and wireless systems with Synergis. Supported lock brands include SALTO SALLIS, and ASSA ABLOY (Aperio, Sargent, Corbin Russwin), Allegion Schlage, and SimonsVoss SmartIntego.

PoE to the door

To speed up deployments and reduce installation costs, deploy Power-over-Ethernet (PoE) enabled devices such as Synergis Cloud Link, HID EDGE EVO, ASSA ABLOY PoE locks, or the Axis A1601 controller.

An appliance that offers you hardware freedom

Synergis Cloud Link is an intelligent and PoE-enabled gateway appliance that supports a mix of non-proprietary access control modules from HID Global, Mercury Security and Axis along with electronic locks from ASSA ABLOY, Allegion, SimonsVoss and SALTO. Modernize your access control environment by deploying Synergis Cloud Link over your network and establish real-time connectivity to your doors.

Genetec Synergis Cloud Link appliance

- IP-ready and PoE-enabled intelligent appliance
- Up to 32 downstream RS-485 devices
- Up to 64 readers (with V100)1
- Up to 256 locks1
- Up to 250,000 cardholders and 150,000 offline events
- Multi-vendor device support
- Supported RS-485 modules: VertX V100, V200, V300
- Supported locks: ASSA ABLOY Aperio/Sargent/Corbin Russwin, SALTO SALLIS, Allegion Schlage² and SimonsVoss SmartIntego³
- Supported controllers: Mercury LP & EP panels, Axis A1601

Optional expansion module for more RS-485 ports and Secure Access Module card slots

- 8 additional RS-485 ports (representing 12 total ports supported)
- 3 Secure Access Module (SAM) card slots



Synergis Cloud Link with optional expansion module shown.

¹ Number of locks and/or readers supported will depend on downstream device manufacturer and models deployed.

² Via Synergis Cloud Link or Mercury LP or EP intelligent controller.

Via a Mercury LP or EP intelligent controller.

A complete line of IP-ready door controllers & modules

Synergis brings a revolutionary and open approach to the world of access control. With a broad range of supported hardware at your disposal, the Synergis system lets you choose non-proprietary panels manufactured by the industry's leading vendors. More importantly, you choose the hardware that matches your unique installation environment and your organization's security goals.



HID Edge EVO

- PoE-enabled intelligent single-door controller
- Expandable to 2 readers, 16 inputs, and 6 outputs
- Up to 65,000 cardholders and 99,999 offline events
- Models: EH400-K, EHR40-K, EHRP40-K



Mercury Security LP2500

- IP-ready intelligent controller
- Up to 64 downstream panels³
- Up to 64 readers
- Up to 250,000 offline cardholders and 50,000 offline events
- Supported RS-485 modules: Mercury MR52, MR50, MR16in, MR16out
- Supported IP/PoE modules: Mercury MR62e
- Managed by Synergis Cloud Link or the Streamvault Series 300 Unified Security Appliance



HID VertX EVO V1000

- IP-ready intelligent controller
- Up to 20 downstream RS-485 devices
- Up to 40 readers with VertX V100
- Up to 65,000 cardholders
- Up to 99,999 offline events
- Supported RS-485 modules: VertX V100, V200, V300



Mercury Security LP1501 (PoE)

- PoE-enabled controller
- Up to 2 embedded readers
- Up to 17 readers
- Up to 250,000 offline cardholders and 50,000 offline events
- Supported RS-485 modules: MR52, MR50, MR16in, MR16out
- Supported IP/PoE modules: Mercury MR62e
- Managed by Synergis Cloud Link or the Streamvault Series 300 Unified Security Appliance



HID VertX EVO V2000

- IP-ready intelligent controller
- Up to 2 readers
- Up to 65,000 cardholders
- Up to 99.999 offline events



Mercury Security LP1502 and LP4502

- IP-ready controller
- Up to 2 embedded readers
- Up to 64 readers
- Up to 250,000 offline cardholders and 50,000 offline events
- Supported RS-485 modules: MR52, MR50, MR16in, MR16out
- Supported IP/PoE modules: Mercury MR62e
- Managed by Synergis Cloud Link or the Streamvault Series 300 Unified Security Appliance



Axis A1601 network door controller

- PoE+ enabled controller
- Up to 2 readers
- Managed by Synergis Cloud Link or the Streamvault Series 300 Unified Security Appliance
- Up to 70,000 offline cardholders and 30,000 offline events



Intelligent controller features and specifications

The following table presents an overview of the capabilities for supported controllers with respect to how they integrated by the Genetec[™] Synergis[™] IP Access Control solution.

Synergis-Compatible IP Controllers									
Manufacturer	Genetec		HID		Axis		Mercury	Security	
Model name	Synergis Cloud Link	Edge EVO	VertX V1000 EVO	VertX V2000 EVO	A1601	Mercury LP2500 & EP2500	Mercury LP1502 & EP1502	Mercury LP1501 & EP1501	Mercury LP4502 & EP4502
eneral specifications									
IP ready	•	•	•	•	•	•	•	•	•
PoE-enabled	•	•	-	-	•	-	-	•	-
Electronic/wireless lock support	•	-	-	-	-	-	-	-	-
Supported lock vendors	 SALTO SALLIS ASSA ABLOY Aperio, Sargent, Corbin Russwin Allegion Schlage AD-Series¹, NDE, LE² and Control locks SimonsVoss SmartIntego locks¹ 	-	-	-	-	Allegion Schlage locks, SimonsVoss SmartIntego	Allegion Schlage locks, SimonsVoss SmartIntego	Allegion Schlage locks, SimonsVoss SmartIntego	Allegion Schlage loc SimonsVos SmartInteg
Supported downstream devices	 HID V100, V200, V300 SALTO SALLIS router (IP and RS-485) ASSA ABLOY Aperio hub (IP and RS-485) ASSA ABLOY IP locks Allegion Schlage PIM-400¹ Allegion Schlage IP ENGAGE Gateway Allegion Schlage RS-485 ENGAGE Gateway¹ SimonsVoss SmartIntego GatewayNode¹ Mercury LP & EP panels Axis A1601 	HID EDGE add-ons	HID VertX V100, V200, V300	-	-		Mercury MR50 MR16in,	, MR52, MR62e MR16out	
ardholder and event datab	ase								
Max offline cardholders	250,000	65,000	65,000	65,000	70,000	250,000	250,000	250,000	250,000
Max event buffer	150,000	99,999	99,999	99,999	30,000	50,000	50,000	50,000	50,000

¹Via Mercury LP/EP

Supported Access Control Hardware 5

² With Bluetooth: via Synergis Cloud Link. Without Bluetooth: via Synergis Cloud Link or Mercury LP or EP.

Intelligent controller features and specifications

Continued

Synergis-Compatible IP Controllers									
Manufacturer	Genetec	HID			Axis	Mercury Security			
Model name	Synergis Cloud Link	Edge EVO	VertX V1000 EVO	VertX V2000 EVO	A1601	Mercury LP2500 & EP2500	Mercury LP1502 & EP1502	Mercury LP1501 & EP1501	Mercury LP4502 & EP4502
Downstream module, rea	ader, and lock counts								
Onboard reader ports	40 ¹	1	-	2	2	-	2	2	2
Max readers (incl. onboard readers)	256	2	40	2	2	64	64	17	64
Max downstream modules	 32 VertX V100, V200, V300 64 ASSA ABLOY Aperio IP hubs 32 ASSA ABLOY Aperio RS485 hubs 8 SALTO SALLIS RS-485 routers 8 SALTO SALLIS IP routers 32 Allegion Schlage IP ENGAGE Gateways 32 Mercury LP/EP panels 30 Axis A1601 	-	20	-	-	64	32	8	32
Max locks supported	 64 ASSA ABLOY Aperio locks 64 SALTO SALLIS locks 128 ASSA ABLOY IP locks 200 Schlage NDE, LE and Control Locks 256 Allegion Schlage AD-Series, NDE and LE locks² 256 SimonsVoss SmartIntego locks² 	-	-	-	-	16 Allegion Schlage AD-300 locks 64 Allegion Schlage AD-400, NDE or LE locks 64 SimonsVoss SmartIntego locks	8 Allegion Schlage AD-300 locks 64 Allegion Schlage AD-400, NDE or LE locks 64 SimonsVoss SmartIntego locks	8 Allegion Schlage AD-300 locks 16 Allegion Schlage AD-400, NDE or LE locks 16 SimonsVoss SmartIntego locks	16 Allegion Schlage AD-300 locks 64 Allegion Schlage AD-400, NDE or LE locks 64 SimonsVoss SmartIntego locks

¹ Via OSDP over RS-485 with expansion module

Supported Access Control Hardware

² Via Mercury LP/EP

Interface modules

Reader modules Mercury Mercury Mercury HID VertX® Mercury Mercury HID VertX HID VertX MR52 MR50 MR62E V100 MR16IN MR16OUT V200 V300

Dual-reader panel

Connects to Mercury LP & EP controllers

Single-reader panel Four-reader/two-

Connects to Mercury LP & EP controllers

door PoE+ panel

 Connects to Mercury LP & EP controllers

Dual-reader interface

Cloud Link or HID V1000 EVO controllers

 Connects to Genetec Synergis

16-input panel

Connects to Mercury LP & EP controllers

16-output panel

Connects to Mercury LP & EP controllers

16-input interface

 Connects to Genetec Synergis Cloud Link or HID V1000 EVO

 Connects to Genetec Synergis Cloud Link or HID V1000 EVO

12-output interface

Interface modules features and specifications

Master controller	Synergis Cloud Link or HID V1000			Mercury panels				
Feature	HID V100	HID V200	HID V300	Mercury MR50	Mercury MR52	Mercury MR62E	Mercury MR16in	Mercury MR16out
IP- and PoE-enabled	-	-	-	-	-	•	-	-
RS-485 communications	•	•	•	•	•	-	•	•
Max readers	2	-	-	1	2	4 ²	-	-
Max inputs ¹	7	19	5	3	8	6	18	2
Max outputs	4	2	12	2	6	4	2	16
UL 294 recognized	•	•	•	•	•	•	•	•
UL 1076 recognized	•	•	•	-	-	-	-	-

¹Total number of inputs includes dedicated inputs (eg. power monitor, tamper or other). Check manufacturer specifications.

² With OSDP readers only

Electronic locks (Wireless, WiFi, and PoE)

The following electronic locks are directly integrated by Synergis Cloud Link, which also can support all lock models on a single appliance.

ASSA ABLOY

WiFi Locks

- ▶ Brands: Sargent / Corbin Russwin
- ▶ Wireless/WiFi intelligent lock
- Operates regardless of connectivity with Synergis Cloud Link
- ▶ 10,000 cardholders, 10,000 historical event buffer
- ▶ Supported readers¹: Magstripe, HID Prox, HID iCLASS, SEOS, MIFARE/DesFire/Felica
- ▶ Uses standard IEEE 802.11 b/g/n WiFi technology

PoE Locks

- ▶ Brands: Sargent / Corbin Russwin
- ▶ PoE-enabled, intelligent lock
- Operates regardless of connectivity with Synergis Cloud Link
- ▶ 10,000 cardholders, 10,000 historical event buffer
- ▶ Supported readers¹: Magstripe, HID Prox, HID iCLASS, SEOS, MIFARE/DesFire/Felica

Aperio-Enabled Locks

- Wireless (802.15.4), online (non-intelligent) lock
- Real-time communications with all access decisions made by Synergis Cloud Link
- Supported readers¹: HID Prox, HID 13.56 MHz iCLASS, SEOS, MIFARE

SALTO

SALLIS Locks

- Wireless (802.15.4), online (non-intelligent) lock
- ▶ Real-time communications with all access decisions made by Synergis Cloud Link
- Supported readers¹: HID Prox, HID iCLASS (CSN), MIFARE, DESFire

Electronic lock features and specifications

			_	
	ASSA ABLOY WiFi locks	ASSA ABLOY PoE locks	ASSA ABLOY Aperio	SALTO SALLIS
Lock models	Sargent & Corbin Russwin IN120 Sargent Passport P1000 P2 Sargent Profile Series v.S2 Corbin Russwin Access 700 Corbin Russwin Access 800	Sargent & Corbin Russwin IN220 Sargent Passport P1000 P1 Sargent Profile Series v.S1 Corbin Russwin Access 700 Corbin Russwin Access 800	Aperio-enabled locks	SALLIS-enabled locks
Intelligent (access managed by lock)	•	•	-	-
Wireless	•	-	•	•
Wireless standard (IEEE/ISM band)	WiFi (802.11 b/g) ²	-	802.15.4	802.15.4
PoE-enabled (wired lock)	-	•	- -	3 -
Connectivity to Synergis Cloud Link	Direct over IP (WiFi)	Direct over IP (PoE)	Direct from Aperio hub (IP or RS-485)	Direct from SALLIS router (IP or RS-485)
Max locks per Synergis Cloud Link	128	128	64	64
Readers per lock	1	1	1	1
Max offline cardholders	10,000	10,000	250,000 ⁴	250,000 ⁴
Max offline event buffer	10,000	10,000	150,000 4	150,000 4

² Some locks support 802.11 n as well. Refer to manufacturer specifications.

Some readers not supported. Will depend on lock brand and model. Refer to manufacturer specifications for specific details on supported reader types, models, card formats, and bit lengths.

³ SALTO SALLIS and ASSO ABLOY Aperio IP routers are PoE-enabled. The locks are not PoE enabled.

⁴ Lock does not have any onboard database and is an online lock fully controlled by Synergis Cloud Link. Offline cardholder and event counts represent the count supported by Synergis Cloud Link.

Electronic locks (Wireless, WiFi, and PoE)

The following electronic locks are directly integrated by Synergis Cloud Link, which also can support all lock models on a single appliance.



AD-Series Hardwired Locks

- ► Wired RS-485 (non-intelligent) lock
- Real-time communications with all access decisions made by Synergis Cloud Link and Mercury LP panel
- Supported readers¹: HID Prox, HID Legacy iCLASS (CSN), MIFARE, DESFire

AD-Series Wireless Locks

- Wireless online (non-intelligent) lock
- ▶ PIM-400 can support up to 16 locks
- Real-time communications with all access decisions made by Synergis Cloud Link and Mercury LP panel
- ▶ AES-128 bit key encryption
- ▶ Supported readers¹: HID Prox, HID Legacy iCLASS (CSN), MIFARE, DESFire

NDE, LE and Control locks

- ▶ Wireless online (non-intelligent) lock
- ▶ ENGAGE Gateway can support up to 10 locks
- Real-time communications with all access decisions made by Synergis Cloud Link or Mercury LP panel
- ▶ AES-256 bit key encryption
- Supported readers (1): HID Prox, HID Legacy, iCLASS (CSN), MIFARE, DESFire



SmartIntego Locks

- Includes Digital Locking Cylinder, SmartHandle and Padlock
- ▶ Wireless online (non-intelligent) locks
- SmartIntego GatewayNode can support up to 16 locks
- Real-time communications with all access decisions made by Synergis Cloud Link and Mercury LP Panel
- ▶ AES-128 bit key encryption
- ▶ Supported Readers¹: MIFARE and DESFire

Electronic lock features and specifications

		Allegion Schlage			SimonsVoss SmartIntego
Lock models	AD-Series Hardwired locks	AD-Series Wireless locks	NDE and LE locks	NDE, LE & Control IP Locks	SmartIntego Digital Locking Cylinder, SmartHandle and Padlock
Intelligent (access managed by lock)	-	-	-	•	-
Wireless	-	•	•	•	•
Wireless standard (IEEE/ISM band)	-	902-928 MHz	2.4 GHz BLE	2.4 GHz BLE	868 MHz
PoE-enabled (wired lock)	-	-	-	-	-
Connectivity to Synergis Cloud Link	via Mercury LP panel	via Mercury LP panel	via Mercury LP panel	Wireless IP	Via Mercury LP panel
Max locks per Synergis Cloud Link	256	256	256	200	256
Readers per lock	1	1	1	1	1
Max offline cardholders	-	-	-	NDE & LE : 5000 Control : 200	-
Max offline event buffer	-	-	-	NDE & LE : 2000 Control : 1000	-

Life safety power enclosure also available

Some readers not supported. Will depend on lock brand and model. Refer to manufacturer specifications for specific details on supported reader types, models, card formats, and bit lengths.

Supported ProWired powered enclosure

To facilitate access control hardware deployments, Genetec enclosures are pre-wired with the appropriate power supplies and connectors, so that they're immediately ready for mounting.



Enclosure dimensions* (height × width × depth)	Enclosures	Features
Small dual-voltage HID power systems for up to 4 readers 50.8cm x 40.6cm x 11.4cm	SY-DV4RD-E2V-WTG ProWire HID enclosure designed for up to 4 readers adapted for North America	Pre-wired with tie wrap and connectors 12V/2A and 24V/2A Power distribution board included
(20in. x 16in. x 4.5in.)	SY-DV4RD-E2V-WTG-E ProWire HID enclosure designed for up to 4 readers adapted for Europe (EMEA)	Fits: - 1 Cloud Link - 2 VertX boards
Large dual-voltage HID power systems for up to 8 readers	SY-DV8RD-E4V1-WTG ProWire HID enclosure designed for up to 8 readers with Cloud Link adapted for North America	Pre-wired with tie wrap and connectors 12V/4A and 24V/4A Power distribution board included
61cm x 50.8cm x 16.5cm (24in. x 20in. x 6.5in.)	SY-DV8RD-E4V1-WTG-E ProWire HID enclosure designed for up to 8 readers with Cloud Link adapted for Europe (EMEA)	Door mount Fits: - 1 Cloud Link - 4 VertX boards
Small single-voltage Mercury power systems for up to	SY-DV4RD-E2M-WPG ProWire Mercury enclosure designed for up to 4 readers adapted for North America	Pre-wired with panduit and connectors 12V/2A and 24V/2A Power distribution board included
4 readers 50.8cm x 40.6cm x 11.4cm (20in. x 16in. x 4.5in.)	SY-DV4RD-E2M-WPG-E ProWire Mercury enclosure designed for up to 4 readers adapted for Europe (EMEA)	Two Mercury panels must be doublestacked, hinged standoff supplied Fits: - 1 Cloud Link - 2 Mercury boards
Large single-voltage Mercury power systems for up to	SY-DV8RD-E4M-WPG ProWire Mercury enclosure designed for up to 8 readers adapted for North America	Pre-wired with panduit and connectors 12V/4A and 24V/4A Power distribution board included
8 readers 61cm x 50.8cm x 16.5cm (24in. x 20in. x 6.5in.)	SY-DV8RD-E4M-WPG-E ProWire Mercury enclosure designed for up to 8 readers adapted for Europe (EMEA)	Two Mercury panels must be doublestacked, hinged standoff supplied Fits: - 1 Cloud Link - 4 Mercury boards

^{*} Dimensions do not take into account the enclosure door. The door slightly protrudes the overall size of the enclosure by a very small percentage.

Supported empty enclosures

Empty enclosures are also available offering customers more customization.



Enclosure dimensions* (height × width × depth)	Enclosure	Comments		
50.8cm x 40.6cm x 11.4cm	SY-SV4RD-E2VM-P	Power supply, distribution board and panduit included 120VAC/60HZ Fits up to 2 Mercury or VertX boards and 1 Synergis Cloud Link		
(20in. x 16in. x 4.5in.)	SY-SV4RD-E2VM-P-E	Power supply, distribution board and panduit included 230VAC/50HZ Fits up to 2 Mercury or VertX boards and 1 Synergis Cloud Link		
	Sy-Multi-Access-PSU2 for EMEA	Room for 1 Synergis Cloud Link and 2 interface modules. Power supply included.		
51.4 cm x 47.8 cm x 14.6 cm (20.2 in. x 18.8 in. x 5.7 in.)	Sy-Multi-Access-PSU4 for EMEA	Room for 1 Synergis Cloud Link and 4 interface modules. Power supply included.		
	Sy-Multi-Access-PSU6 for EMEA	Room for 1 Synergis Cloud Link and 6 interface modules. Power supply included.		
33 cm x 35.5 cm x 8 cm (13 in. x 14 in. x 3.2 in.)	Sy-Access-PSU1 for EMEA	Power supply included.		
50 cm x 40 cm x 8 cm (19.7 in. x 15.7 in. x 3.2 in.)	Sy-Access-PSU2 for EMEA	Power supply included.		
61cm x 50.8cm x 16.5cm	SY-SV8RD-E4VM-P	Power supply, distribution board and panduit included 120VAC/60HZ Fits up to 4 Mercury or VertX boards and 1 Synergis Cloud Link		
(24in. x 20in. x 6.5in.)	SY-SV8RD-E4VM-P-E	Power supply, distribution board and panduit included 230 VAC/50HZ Fits up to 4 Mercury or VertX boards and 1 Synergis Cloud Link		

LifeSafety Power enclosure also available

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