



Security Center Synergis.™

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 everyday 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 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 A1001 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 EP panels, Axis A1001



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

² Via a Mercury EP2500 or EP1501 intelligent controller.

³ Via a Mercury EP2500, EP1501 or EP1502 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



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



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 EP2500

- 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 MR51e
- Managed by Synergis Cloud Link or the Streamvault Series 300 Unified Security Appliance



Mercury Security EP1501 (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 MR51e
- Managed by Synergis Cloud Link or the Streamvault Series 300 Unified Security Appliance



Mercury Security EP1502 and EP4502

- 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 MR51e
- Managed by Synergis Cloud Link or the Streamvault Series 300 Unified Security Appliance



Axis A1001 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 15,000 offline cardholders and 30,000 offline events

³ Up to 64 MR50 panels or up to 32 MR52 panels.

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	A1001	Mercury EP2500	Mercury EP1502	Mercury EP1501	Mercury EP4502

General specifications

IP ready	●	●	●	●	●	●	●	●	●
PoE-enabled	●	●	-	-	●	-	-	●	-
Electronic/wireless lock support	●	-	-	-	-	-	-	-	-
Supported lock vendors	<ul style="list-style-type: none"> ● SALTO SALLIS ● ASSA ABLOY Aperio, Sargent, Corbin Russwin ● Allegion Schlage AD-Series, NDE & LE locks¹ ● SimonsVoss SmartIntego locks¹ 	-	-	-	-	Allegion Schlage locks, SimonsVoss SmartIntego	SimonsVoss SmartIntego	Allegion Schlage locks, SimonsVoss SmartIntego	-
Supported downstream devices	<ul style="list-style-type: none"> ● HID V100, V200, V300 ● SALTO SALLIS RS-485 router ● SALTO SALLIS IP router ● ASSA ABLOY Aperio hub ● Assa Abloy IP locks ● Allegion Schlage PIM-400¹ ● Allegion Schlage ENGAGE Gateway¹ ● SimonsVoss SmartIntego GatewayNode¹ ● Mercury EP panels ● Axis A1001 	HID EDGE add-ons	HID VertX V100, V200, V300	-	-	Mercury MR50, MR52, MR51e MR16in, MR16out			

Cardholder and event database

Max offline cardholders	250,000	65,000	65,000	65,000	15,000	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

¹ Via Mercury 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	A1001	Mercury EP2500	Mercury EP1502	Mercury EP1501	Mercury EP4502

Downstream module, reader, and lock counts

Onboard reader ports	-	1	-	2	2	-	2	2	2
Max readers (incl. onboard readers)	256	2	40	2	2	64	64	17	64
Max downstream modules	<ul style="list-style-type: none"> • 32 VertX V100, V200, V300 • 8 ASSA ABLOY Aperio hubs • 8 SALTO SALLIS RS-485 routers • 8 SALLIS IP routers • 32 Mercury EP panels • 32 Axis A1001 	-	20	-	-	64	32	8	32
Max locks supported	<ul style="list-style-type: none"> • 64 ASSA ABLOY Aperio locks • 64 SALTO SALLIS locks • 128 ASSA ABLOY IP locks • 256 Allegion Schlage AD-Series, NDE and LE locks¹ • 256 SimonsVoss SmartIntego locks 	-	-	-	-	<ul style="list-style-type: none"> - 16 Allegion Schlage AD-300 locks - 64 Allegion Schlage AD-400, NDE or LE locks - 64 SimonsVoss SmartIntego locks 	<ul style="list-style-type: none"> - 64 SimonsVoss SmartIntego locks 	<ul style="list-style-type: none"> - 8 Allegion Schlage AD-300 - 16 Allegion Schlage AD-400, NDE or LE locks - 16 SimonsVoss SmartIntego locks 	-

¹ Via Mercury EP

Interface modules

Reader modules				Input and output modules			
Mercury MR52	Mercury MR50	Mercury MR51e	HID VertX® V100	Mercury MR16IN	Mercury MR16OUT	HID VertX V200	HID VertX V300
							
Dual-reader panel <ul style="list-style-type: none"> Connects to Mercury EP controllers 	Single-reader panel <ul style="list-style-type: none"> Connects to Mercury EP controllers 	Dual-reader PoE panel <ul style="list-style-type: none"> Connects to Mercury EP controllers 	Dual-reader interface <ul style="list-style-type: none"> Connects to Genetec Synergis Cloud Link or HID V1000 EVO controllers 	16-input panel <ul style="list-style-type: none"> Connects to Mercury EP controllers 	16-output panel <ul style="list-style-type: none"> Connects to Mercury EP controllers 	16-input interface <ul style="list-style-type: none"> Connects to Genetec Synergis Cloud Link or HID V1000 EVO 	12-output interface <ul style="list-style-type: none"> Connects to Genetec Synergis Cloud Link or HID V1000 EVO

Interface modules features and specifications

Master controller	Synergis Cloud Link or HID V1000			Mercury EP panels				
	HID V100	HID V200	HID V300	Mercury MR50	Mercury MR52	Mercury MR51e	Mercury MR16in	Mercury MR16out
IP- and PoE-enabled	-	-	-	-	-	●	-	-
RS-485 communications	●	●	●	●	●	-	●	●
Max readers	2	-	-	1	2	2	-	-
Max inputs ¹	7	19	5	3	8	4	18	2
Max outputs	4	2	12	2	6	2	2	16
UL 294 recognized	●	●	●	●	●	●	●	●
UL 1076 recognized	●	●	●	-	-	-	-	-

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

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
- ▶ 2,400 cardholders, 10,000 historical event buffer
- ▶ Supported readers¹: Magstripe, HID Prox, HID iCLASS, MIFARE/DesFire/Felica (CSN only)
- ▶ 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
- ▶ 2,400 cardholders, 10,000 historical event buffer
- ▶ Supported readers¹: Magstripe, HID Prox, HID iCLASS, MIFARE/DesFire/Felica (CSN only)
- ▶ Supports CSN reads for other common 13.56 MHz cards (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

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

¹ 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.

Electronic lock features and specifications

	ASSA ABLOY WiFi locks	ASSA ABLOY PoE locks	ASSA ABLOY Aperio	SALTO SALLIS
Lock models	Sargent Passport P1000 P2 Sargent Profile Series v.S2 Corbin Russwin Access 700 Corbin Russwin Access 800	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 (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	2,400	2,400	150,000 ⁴	150,000 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.

³ SALTO SALLIS IP router is 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 EP 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 EP panel
- ▶ AES-128 bit key encryption
- ▶ Supported readers¹: HID Prox, HID Legacy, iCLASS (CSN), MIFARE, DESFire

NDE & LE wireless 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 and Mercury EP 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 EP Panel
- ▶ AES-128 bit key encryption
- ▶ Supported Readers¹: MIFARE and DESFire

¹ 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.

Electronic lock features and specifications

Lock models	Allegion Schlage			SimonsVoss SmartIntego
	AD-Series Hardwired locks	AD-Series Wireless locks	NDE and LE 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	868 MHz
PoE-enabled (wired lock)	-	-	-	-
Connectivity to Synergis Cloud Link	via Mercury EP panel	via Mercury EP panel	via Mercury EP panel	Via Mercury EP panel
Max locks per Synergis Cloud Link	256	256	256	256
Readers per lock	1	1	1	1
Max offline cardholders	-	-	-	-
Max offline event buffer	-	-	-	-

Supported pre-assembled enclosure

To facilitate access control hardware deployments, Genetec enclosures are pre-assembled with a variety of widely-deployed controllers and modules along with the appropriate power supplies.



Enclosure dimensions* (Height x Width x Depth)	Enclosures	Components included
Small enclosures for up to 4 readers 53.3 cm x 58.4 cm x 12.1 cm (21 in. x 23 in. x 4.75 in.)	SY-SCLV200PW-B-KIT Pre-Wired HID Kit designed for up to 16 inputs or alarm points in North America	<ul style="list-style-type: none"> • 1 Synergis Cloud Link • 1 HID V200 interface module • 6A power supply • Fuse assembly
	SY-4RDHIDPW-B-NA-KIT Pre-Wired HID Kit designed for up to 4 readers adapted for North America	<ul style="list-style-type: none"> • 1 Synergis Cloud Link • 2 HID V100 interface modules • 6A power supply • Fuse assembly
	SY-4RDHIDPW-B-EU-KIT Pre-Wired HID Kit designed for up to 4 readers adapted for Europe (EMEA)	<ul style="list-style-type: none"> • 1 Synergis Cloud Link • 2 HID V100 interface modules • 6A power supply • Fuse assembly
Large enclosures for up to 8 readers 73.7 cm x 58.4 cm x 12.1 cm (29 in. x 23 in. x 4.75 in.)	SY-8RDHIDPW-B-NA-KIT Pre-Wired HID Kit designed for up to 8 readers adapted for North America	<ul style="list-style-type: none"> • 1 Synergis Cloud Link • 4 HID V100 interface modules • 6A power supply • Fuse assembly
	SY-8RDHIDPW-B-EU-KIT Pre-Wired HID Kit designed for up to 8 readers adapted for Europe (EMEA)	<ul style="list-style-type: none"> • 1 Synergis Cloud Link • 4 HID V100 interface modules • 6A power supply • Fuse assembly

* 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 x Width x Depth)	Enclosure	Comments
53.3 cm x 58.4 cm x 12.1 cm (21 in. x 23 in. x 4.8 in.)	SY-21X23ENC-KIT	No components 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-PSU2 for EMEA	Room for 1 Synergis Cloud link and 2 interface modules. Power Supply included.
	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.
73.7 cm x 58.4 cm x 12.1 cm (29 in. x 23 in. x 4.8 in.)	SY-29X23ENC-KIT	No components included.

Genetec Inc.
genetec.com/locations
info@genetec.com
[@genetec](#)

© Genetec Inc., 2017. Genetec, Synergis, the Genetec Logo, and the Synergis Logo are trademarks of Genetec Inc., and may be registered or pending registration in several jurisdictions. Other trademarks used in this document may be trademarks of the manufacturers or vendors of the respective products.