

SPC series – Application and Product Overview

SPC protects businesses, properties and assets. It is an intrusion detection system that offers versatile and comprehensive alarm management functionality.

Through the use of cloud services, end user apps and a dedicated software suite, SPC is at the forefront of modern intrusion detection.

SPC is a professional security solution that provides an infrastructure that can easily be adapted to changing requirements, offering wired or wireless options.



SPC Tools

Installer

Commissioning:

Embedded web server

SPC Connect Pro

- SPC configuration tool
- multi comms path support
- USB/Ethernet/Serial
- SPC Connect Cloud integration
- Remote access capability

Maintenance:

Embedded web server

SPC Connect

www.spconnect.com

Management platform for security companies to perform remote configuration, automated tasks, manage users via a secure and encrypted communication to complete tasks.



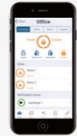
User

Remote Operation:

- SPC Connect web portal
- Mobile App
- SMS

SPCS610 SPC Manager

User management tool to perform user administration on one or multiple SPC panels.



CMS/ARC

Monitoring:

SPCS510 SPC Com XT

- EDP/FlexC alarm receiver
- Self hosted IP alarm receiver
- Sur-Guard interface (IP/serial)
- EDP /FlexC support

Professional Alarm Management Manufactures:

- AZUR SOFT
- ESI
- ENAI
- ADVANCIS
- ALEC

Technology Partners

More than 200 integrations:

- | | |
|-------------|------------|
| • ESI | • SARATEC |
| • GENETEC | • ADVANCIS |
| • AZUR SOFT | • ENTELEC |
| • LUNDIX | • SIEMENS |
| • MILESTONE | • ACTpro |
| • QOGNIFY | • LENEL |
| • PRYSM | • AMAG |

SPC Control Panels

SPC4320
8 - 32 zones
4 doors



SPC5320
SPC5330
SPC5350
8/16 - 128 zones
16 doors



SPC6330
SPC6350
8/16 - 512 zones
64 doors



SPCW120
Wireless module



SPCN340 (4G) /
SPCN320 (3G)
GSM/GPRS module



SPCN110
PSTN module



IP (GPRS)
IP (Ethernet)
PSTN
X-BUS
USB

Operation

- Keypads
- Indication Expander
- Keyswitch Expander

SPCK420
SPCK421



SPCK520
SPCK521



SPCK620
SPCK623



SPCE120 **SPCE110**



FIELDBUS

1

1

2

1

2

X-BUS 1 Max. 400m

Door Control

- 2 Door Expander
- Card Readers

SPCA210



Verification

- Video
- Audio

SPCV340



SPCK623



X-BUS 2 (only on SPC5000 / 6000)

Detection (I/O expanders)

- Wired
- Wireless
- Fire Warning



SPCE452



SPCE652



Power Supplies

- Smart PSU (with I/O Expander)
- Smart PSU (with 2 door Expander)

SPCP332
8 in/2 out, 7 Ah

SPCP333
8 in/2 out, 17 Ah

SPCP355
8 in/6 out, 2 x 27 Ah

SPCP432
2-door expander, 7 Ah

SPCP433
2-door expander, 17 Ah

Loop

Small sized applications with stand-alone intrusion system connected to a Central Monitoring Station (CMS) – small convenience store or residential

Intrusion products for this example:

- PDM-I12:** Passive infrared motion detector
- AGB800:** Glass break detector
- SPCK521:** LCD keypad with card reader
- 3rd party IP camera:** IP camera supporting snapshot images
- SPC4000:** Intrusion control panel (wired and wireless) for small applications



Medium sized applications with multi-area intrusion system and connection to own control room – large supermarket with warehouse

Intrusion products for this example:

- PDM-I12:** Passive infrared motion detector
- PDM-I18T:** Passive infrared motion detector with real-time antimask surveillance
- AGB800:** Glass break detector
- GM730:** Seismic detector
- SPCK620:** LCD comfort keypad with large display
- SPC5000:** Intrusion control panel (wired and wireless) for medium till large applications



Large and/or high-risk applications with multi-site intrusion system and central/remote monitoring – commercial bank

Intrusion products for this example:

- PDM-I18T:** Passive infrared motion detector with real-time antimask surveillance
- PDM-IXD18T Dual AM:** Microwave and passive infrared motion detector with antimask
- GM775:** Seismic detector
- SPCK623:** LCD comfort keypad with audio and card reader
- SPC6000:** Intrusion control panel (wired and wireless) for large and/or high-risk applications



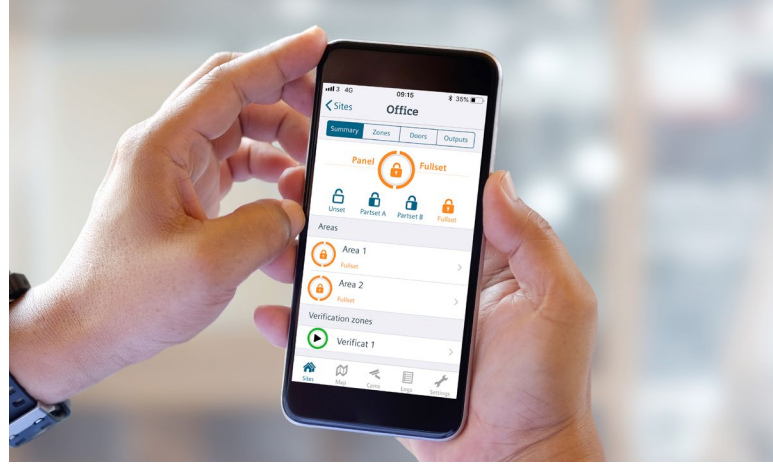
Type	SPC Series 4000	SPC Series 5000	SPC Series 6000
Areas	4	16	60
Keypads	4	16	32
Wired / wireless zones (min. .. max.)	8 .. 32 / 8 .. 32	8 .. 128 / 16 .. 120	8 .. 512 / 16 .. 120
Virtual inputs	4	20	100
Outputs (min. .. max.)	6 .. 30	6 .. 128	6 .. 512
Users (max.)	100	500	2500
X-BUS devices	11	48	128
X-BUS ports / loop capability	1 / -	2 / yes	2 / yes
Doors (entry/entry-exit)	4 / 2	16 / 8	64 / 32
Log events Intrusion / Access	1000 / 1000	10000 / 10000	10000 / 10000
Calendars	4	32	64
SPC Connect panel management platform	supported	supported	supported
Voice assistance and verification	Supported	Supported	Supported
Audio verification zones	4	16	32
Individual language for users	Supported	Supported	Supported
Banking functions	Supported	Supported	Supported
Cabinet (max. battery size)	Plastic/Metal (G2: 7 Ah)	Metal (G2: 7 Ah G3: 17 Ah G5: 2x27 Ah)	Metal (G3: 17 Ah G5: 2x27 Ah)
Certifications	EN50131 (Grade 2 and 3), EN50136 (up to DP4), VdS Class C, NF A2P Grade 3, IMQ Grade 3, INCERT, SBSC SSF114 Klass 3-4, VSO Klasse GS-H, PD 6662:2010.		
Communication / IT Security	FlexC 256 bit AES, EDP 128 bit AES. NF A2P RTC Cyber certified		

SPC Connect

SPC Connect is the cloud Support Portal for the SPC intrusion panel. It provides a real-time status overview of connected systems and a secured connection to SPC intrusion panels on single or multi-panel sites. It provides easy and secure remote access to the panel web interface. Programming, user management, and review of log events are made available on any device with a web browser and from anywhere in the world. SPC Connect is hosted on European Microsoft Azure servers, using the latest standards regarding IT security and privacy protection. It offers a very high system of availability.

In addition, SPC Connect can ensure:

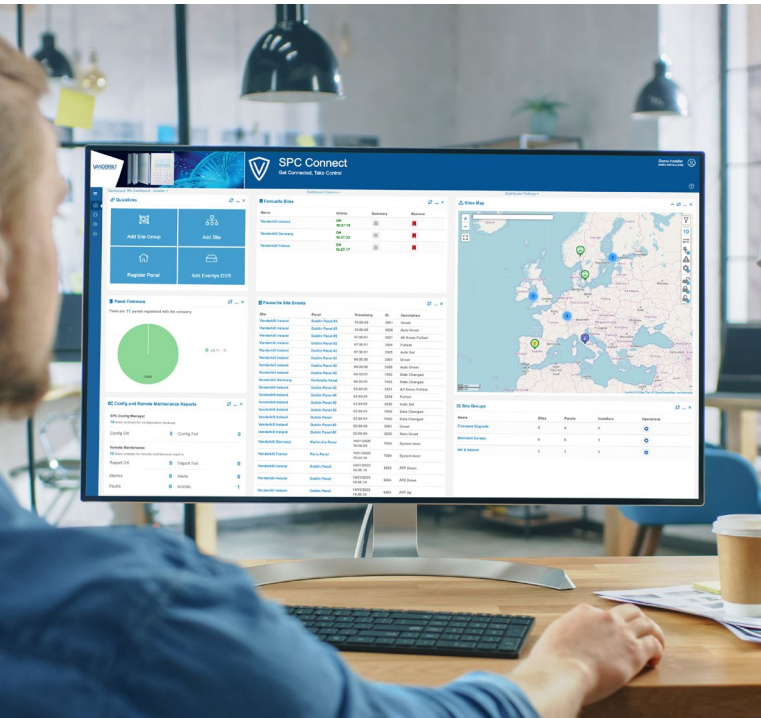
- ✓ the latest configuration files are automatically backed up
- ✓ panel firmware can be remotely upgraded
- ✓ automated maintenance reports being created
- ✓ secondary alarm transmission systems be monitored, and time settings synchronized.



- ✓ remote arming/disarming¹ of areas or the full system
- ✓ viewing of the system event logs
- ✓ a live map with interactive component icons
- ✓ remote control of doors and outputs
- ✓ live viewing of up to 32 cameras²
- ✓ remote bypass and isolates of zone inputs.

In case of an alarm, a push notification, including audio and video for alarm verification, can be sent to the mobile device(s).

The SPC Connect app is available on Google Play Store and App Store and includes a demo function.



Bus communication

The SPC panel uses a high-speed 4-wire X-BUS in either a 2-spur or in a ring topology. When using a ring topology, a break in the communication cable is automatically detected, and the X-BUS will be reconfigured, providing an additional secure fallback option. Every SPC bus component (keypads, expanders, etc.) reconstructs the X-BUS, allowing a total bus length of more than 50 kilometers³. The high communication speed of the X-BUS ensures that even with large cable distances, responses are fast and reliable.

Network communication

The SPC panel has an integrated ethernet interface and primarily uses TCP/IP for communications. In addition to the onboard ethernet, two communication slots are available for GPRS/3G or 3G/4G modems, PSTN modem, or the 2-way wireless transceiver.

The SPC panel uses the FlexC communication protocol for connections to monitoring stations⁴, SPC Connect, or to a host of third-party applications, such as access control systems, video management platforms, or Physical Security Information Systems (PSIMs). It provides a secure, 256-bit AES with CBC encrypted interface to up to 10 fully independent receivers, each with multiple backups paths using ethernet, mobile, or PSTN communication.

Installer's access can be limited by setting up profiles, and an audit trail registers every action made on SPC Connect.

SPC Connect app

The SPC Connect app for iOS and Android is an end-user application for mobile devices, establishing a secured connection through the SPC Connect cloud portal. It is a PIN code and account protected app for multiple SPC panels. It offers:

SPC 2-Way wireless

For projects up to EN Grade 2 (or local equivalent), a full range of stylish wireless motion detectors, magnetic contacts, smoke detectors, remote control, and a panic alarm is available. In addition, full wireless indoor and outdoor sirens/strobes are available. The 2-way communication over a secured 868MHz band allows for fast installation and remote programming of LED control and sensitivity. The lithium batteries and low-power consumption components provide a battery lifespan of 5 years or more with typical use.



Banking features

The SPC panels are used in many bank projects and offer many features specific to the banking market. These can also be used in other fields, like retail or high-profile targets. Special ATM/Safe areas with interlocked or timed functions can be defined, and hold-up safewords can be programmed, which are sent to a monitoring station in the event of a hold-up. Specific 'all-okay' zones can be defined to ensure staff walking in when opening up are indeed okay and not forced to disarm an area. If this 'all-okay' zone is not actuated, a silent alarm will be sent to the monitoring station.

Access Control

The SPC system incorporates very capable access control features for systems up to 64 card readers and 2,500 users. Two-door controllers can be connected to the X-BUS and integrate access control with intrusion detection. Many features make SPC ideal for small to medium-sized sites with combined intrusion and access control requirements. These include:

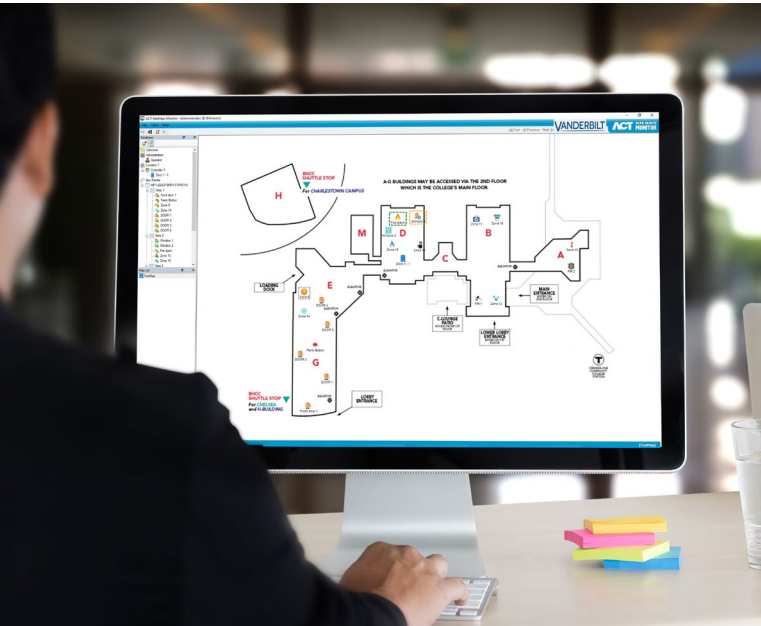
- ✔ anti-passback
- ✔ 4-eyes-only access for high-secure areas
- ✔ escort functions
- ✔ a separated 10,000 events access log.

For larger sites or more access control features, SPC can be connected to Vanderbilt's ACTpro access control system.



Triggers, Mapping Gates, and Virtual Zones

SPC provides a very flexible way to enhance functions based on project-specific requirements. These include Triggers based on specific system status, events, time, calendars, and timers. These can be combined and used as ways to control physical or virtual outputs, doors, areas, and even virtual zone inputs. Each of these can be another trigger for the next action, allowing for unique system scenarios.



GDPR

Both SPC and SPC Connect fully comply with GDPR and can be used on GDPR compliant sites. A full overview of the personal data that is being stored and processed, and how this can be deleted, as well as the complete Data Protection policies and Data Processing Agreement for SPC Connect, can be found at vanderbiltindustries.com/gdpr-compliance.



Technology Partners

The FlexC communication protocol was developed with third-party integrations in mind. The FlexC SDK is used to integrate the SPC systems with many products of Vanderbilt's technology partners, like **Siemens SiPass** and **Desigo CC**, **Milestone XProtect VMS**, **Genetec Security Center**, **LenelS2 OnGuard**, **Entelec Sky-Walker**, **Advancis Winguard**, **Prysm APPvision**, **Qognify NICE Vision** and **Seetec Cayuga**, and many more. For home automation and industrial interfaces, multiple technology partners developed FlexC gateways to communicate with KNX, Modbus, OPC, and BACnet systems.





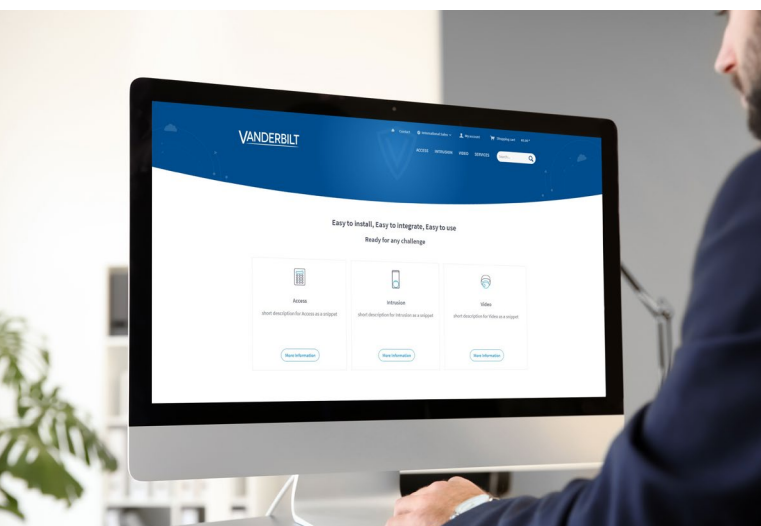
Today, Vanderbilt intrusion alarm systems are used by a great variety of customers in Europe and beyond, ranging from private homes to the world's most famous museums and from local shops and offices to the highest security military sites.

- 1 Remote system arming/disarming may not be allowed for specific security grades. Please consult the installation company and/or insurance company for more information.
- 2 Up to 4 IP cameras can be programmed to the SPC panel. In addition, up to 32 IP cameras can be linked and viewed in the app using an Eventys or Hikvision NVR.

About Vanderbilt

Vanderbilt Industries was formed in 2012 out of the spin-off of Schlage Electronic Security from Ingersoll Rand. In 2015, Europe-based Siemens' Security Products was acquired and incorporated into Vanderbilt. Vanderbilt can draw its lineage to the late 1970s and the very beginning of electronic security systems with the foundations of later, large regional players like Bewator, Cotag, ACT, Alarmcom, and Europlex in Europe and Geoffrey Industries in the United States.

As part of the ACRE brand, Vanderbilt serves in 82 countries worldwide from 13 offices. Its European headquarters is based in Wiesbaden, Germany.



- 3 The maximum distance between two X-BUS components is 400 meters. Full X-BUS length of 51.2 km can be reached using the maximum number of 128 X-BUS components.
- 4 FlexC is now SPC's most commonly used communication protocol for alarm transmissions to monitoring stations. Older protocols EDP (TCP/IP) and SIA (PSTN/GSM) and Contact ID (PSTN/GSM) remain available.

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