



VANDERBILT

Integrated security solution

Security Management System (SMS) enterprise with AD Series electronic locks



Overview

Are you looking for a high security access control solution that is both flexible and scalable? Vanderbilt Industries SMS Enterprise system paired with Schlage's AD Series electronic locks is the right solution for you.

SMS delivers a fully integrated access control solution including alarm monitoring, photo ID badging and video surveillance. It's perfect for large, multi-site or global organizations and provides you with an unparalleled level of flexibility by supporting an unlimited number of users, readers, credentials and other devices. We make it affordable by including multiple modules such as badging, visitor management and reporting in a single software package. Further accelerate your ROI by combining SMS with Schlage's AD Series electronic locks.

Schlage AD Series integrated locks combine all of the components typically found around the door, such as the reader, door position switch and the request to exit switch into one device which simplifies installation and saves money. Schlage AD Series integrated locks are available in hardwired and wireless configurations which can be outfitted with seven (7) credential reader options. Designed to be modular, Schlage AD Series locks can easily be upgraded in the future to meet your changing security and technology requirements.

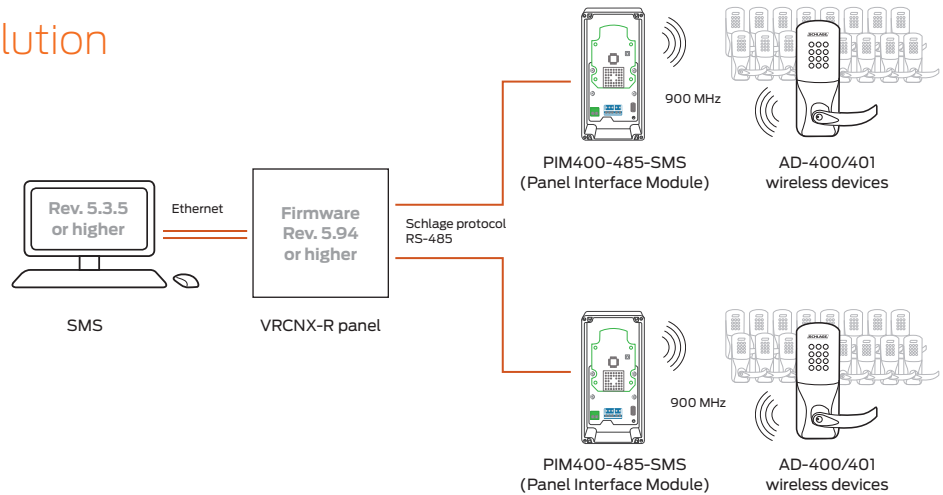
AD-301 and AD-401 are FIPS 201-1 compliant solutions available using FMK reader. Existing AD-300 and AD-400 locks can be upgraded to FIPS Compliant solutions by replacing the existing reader with new FMK reader.

System Capabilities Summary

- Security Management System
 - Fully integrated access control, video surveillance, alarm monitoring, visitor management and photo ID badging
 - Supports offline, AD-200 and online, AD-300 and AD-400 devices within the same environment
 - Manage multi-site facilities either centrally or individually
 - One and five client packages
- For AD-400 wireless applications:
 - Communicates to the controller (VSRC or VRCNX-R) via PIM400-485-SMS (RS-485); supports up to 16 devices per PIM400
 - 900 MHz communication between AD-400 and PIM400 for secure, encrypted transmission
 - Patent-pending wireless lockdown/unlock feature (10 seconds or less) preserves 2 year battery life
- For AD-300 hardwired applications:
 - Communicates to the controller (VSRC or VRCNX-R) via direct RS-485 connection; VSRC supports up to 8 AD-300 devices while VRCNX-R can support any combination of up to 16 devices
- Additional details on readers supported and chassis types available on page 3 and 4
- AD Series: ANSI/BHMA A156.25, ANSI/BHMA Grade 1, UL 294, UL 10C

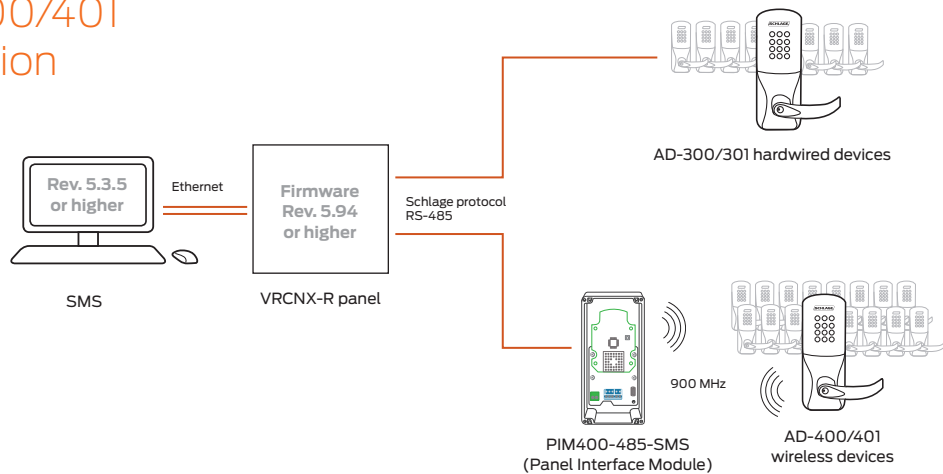
AD-400/401 RS-485 solution

- SMS Rev. 5.3.5 or higher. For IPB functionality, Rev 5.3.9 or higher.
- VRCNX-R panel firmware 5.94 or higher. For IPB functionality, firmware 6.30 or higher.
- 2 available RS-485 channels on each SMS VRCNX-R controller for AD locks.
- VSRC supports up to 16 AD-400/401 total per VSRC Panel.
- Wireless range up to 200' in building construction. Up to 1000' line of sight.



AD-300/301 and AD-400/401 combined RS-485 solution

- SMS Rev. 5.3.5 or higher. For IPB functionality, Rev 5.3.9 or higher.
- VRCNX-R panel firmware 5.94 or higher. For IPB functionality, firmware 6.30 or higher.
- 2 available RS-485 channels on each SMS VRCNX-R controller for AD locks.
- VSRC supports up to 8 AD-300/301 or 16 AD-400/401 total per VSRC Panel.



AD-200 standalone solution

- Manage access rights, time zones and holidays with SMS Enterprise software.
- Utilize HHD handheld device to configure locks and transfer updates and audits between software and locks.



Note:

Although not specifically shown, both AD-300/301s and AD-400/401s can be managed on a common RS-485 channel.

Please refer to AD-200, AD-300, AD-301, AD-400, AD-401, PIM400-485, WPR400, WRI400 data sheets for complete AD Series specifications

SMS Enterprise system capabilities:

| | AD-400/401 PIM400-485 | AD-300/301 Direct RS-485 | AD-200 Standalone |
|---|--------------------------------|--------------------------------|--------------------------------|
| Features | | | |
| Maximum number of readers supported by controller/PIM | 16/16 | 16 | N/A |
| Maximum number of readers per PIM400 | 16 | N/A | N/A |
| Maximum number of PIM400s and/or AD-300s per RS-485 Port | Up to 8 | 8 | N/A |
| Access control decision made by host or by lock database | Host | Host | Lock |
| Remote Linking capability via Host | No | N/A | N/A |
| Readers - see supported card formats below | | | |
| Keypad only | Yes | Yes | Yes |
| Magnetic stripe card | Yes | Yes | Yes |
| Multi-technology - 125 khz proximity and 13.56 MHz smart card | Yes (smart card up to 32 bits) | Yes (smart card up to 32 bits) | Yes (smart card up to 32 bits) |
| PIV & PIV-I card compatible ¹ | Yes | Yes | Yes |
| Card + PIN | Up to 4 digit PIN | Up to 4 digit PIN | 3 to 6 digit PIN |
| Status monitors | | | |
| Request to exit | Yes | Yes | N/A |
| Door position | Yes | Yes | N/A |
| Mechanical key override | Yes ² | Yes ² | Yes |
| Request to enter | No | Yes | N/A |
| Low battery status | Yes | N/A | Yes |
| Communication status: RF/RS485 | Yes /Yes | Yes/Yes | N/A |
| Remote lockdown/unlock ³ | Yes (<10 sec) ² | Yes | N/A |
| Deadbolt position | Yes | Yes | Yes |
| Interior push button | Yes (version 5.3.9) | Yes (version 5.3.9) | Yes |
| Lock functions | | | |
| Classroom/storeroom | Yes | Yes | Yes |
| Office/toggle | Yes | Yes | Yes |
| Privacy | Yes | Yes | Yes |
| Apartment | Yes | Yes | Yes |

Please contact Vanderbilt Industries for additional details on integrated features and credentials supported.

Supported card formats

Proximity cards (125 kHz):

- AWID®
- GE/CASI®
- HID®
- Schlage®
- XceedID®

Smart cards (13.56 MHz):

- aptiQ™ MIFARE Classic
- aptiQ™ MIFARE DESFire™ EV1
- PIV and PIV-I compatible¹

Smart cards (13.56 MHz) - reads card serial number only:

- HID iCLASS®
- DESFire®
- MIFARE®
- MIFARE DESFire™ EV1
- iClass SE

¹ FIPS-201-1 compliant option available requires FMK reader: The AD Series can be used in applications which require approval by the U.S. Federal Government under HSPD-12 for FIPS 201-1 compliance. Specific components are required, please see the AD-401 and AD-301 data sheet for complete details. Contact Vanderbilt to confirm they are able to support your FIPS 201-1 credential format.

² Enhanced features that are only available in SMS v5.3.5 or higher

³ For greater than 1 device will be <20 sec

Available AD Series reader modules



Multi-technology

- Proximity
- Smart card

KEYPAD

FIPS 201-1 compliant option available (FMK)



Multi-technology

- Proximity
- Smart card



Magnetic stripe (insertion)

KEYPAD



Magnetic stripe (insertion)



Magnetic stripe (swipe)

KEYPAD



Magnetic stripe (swipe)



Keypad



Handheld device (HHD)

Used to initialize, configure, and test AD Series Devices

Compatibility

AD Series electronic locks from Schlage are built from the ground up to provide more options, more functionality and more compatibility than any other solution on the market today. Designed to suite with the most popular lever styles and finishes, Schlage AD Series locks can be configured to accept most major key systems. See lever and cylinder compatibility data sheet (010432).

Mortise Lock (AD-200/300/400)



Cylindrical Lock (AD-200/300/400)



Exit Device Trim (AD-200/300/400-993)



The AD Series exit trims are exclusively compatible with exit devices made by Allegion when using the low current request to exit switch (RX-LC part # 050281 for Von Duprin 98/99 & Von Duprin 22/22F Rim/SVR devices and part number 650359 for Falcon 25 Rim devices).

Lever styles

Standard cylinders shown, SFIC and FSIC also available.



Sparta



Rhodes



Athens



Tubular

Finishes

Warm tone finishes



605
Bright brass



606
Satin brass



612
Satin bronze



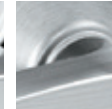
643e
Aged bronze



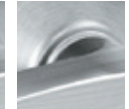
619
Satin nickel



625
Bright chrome



626
Satin chrome



626AM
Satin chrome with antimicrobial

Allegion, the Allegion logo, Schlage, the Schlage logo, Von Duprin, Falcon, and aptiQ are trademarks of Allegion plc, its subsidiaries and/or affiliates in the United States and other countries. All other trademarks are the property of their respective owners.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.

aptiQ ■ LCN ■ SCHLAGE ■ STEELCRAFT ■ VON DUPRIN



© 2015 Allegion
005104, Rev. 08/15
www.allegion.com/us