

# Schlage SMS

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Device Driver Specification

04/09/2012



A Whole World of Integration



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## Document Versions

Version	Date	Name	Change
1.0	2012-09-04	AH	Document Created.

## Referenced Documents

The following documents provide further detail about the requirements in this driver specification:

Document	Version	Description
<b>Driver Project Requirements (DDK-120622-PR1.0)</b>	1.0	The [Manufacturer] [Device] driver must conform to all the requirements detailed in this document.
<b>Driver Connection and Online States Requirements (DDK-120623-DC1.0)</b>	1.0	The [Manufacturer] [Device] driver must conform to all requirements in this document detailed in the section: <a href="#">Device Connection and Online States</a>

## Manufacturer

**Name** Schlage



**Website** <http://www.schlage.com/>

**Description** Real Security Sets You Free

## IPSecurityCenter Versions

The driver must be compatible with the following IPSecurityCenter versions:

IPSecurityCenter Version	Supported
4.2.0	<input type="checkbox"/>
4.2.1	<input checked="" type="checkbox"/>
4.7.0 (Ariel)	<input type="checkbox"/>

## Operating Systems

### 1.1 Client Side Functionality

Operating Systems		Supported
Windows XP Professional x32	SP3	<input type="checkbox"/>
Windows 7 Professional x32	None	<input type="checkbox"/>
Windows 7 Professional x32	SP1	<input type="checkbox"/>
Windows 7 Professional x64	None	<input type="checkbox"/>
Windows 7 Professional x64	SP1	<input type="checkbox"/>

### 1.2 Server Side Functionality

Operating Systems		Supported
Windows Server 2008 Enterprise x32	None	<input type="checkbox"/>
Windows Server 2008 Enterprise x32	SP1	<input type="checkbox"/>
Windows Server 2008 R2 Enterprise x64	None	<input type="checkbox"/>
Windows Server 2008 R2 Enterprise x64	SP1	<input type="checkbox"/>

## Models / Firmware Versions

Model	Versions	SDK
<b>1.3 Schlage SMS Enterprise</b>	5.3.9	SDK API Version 1.3.5

## Hardware Configurations

[Physical Diagram]

## Driver Package

The driver package is named: `cnl_ipsc_schlage_sms_[BUILD-VERSION].ipsc`

## Schlage SMS Features

### Device Connection and Online States

The full requirements for these features can be found in the [Driver and Connections States Requirements](#)

Feature	
<b>DC1.0 Device Online Status</b>	Query Device / SDK
<b>DC2.0 Authentication</b>	Basic



## 2.0 Properties

General requirements for properties can be found in [Driver Project Requirements](#).

Name	Type	Description	Default Value & Ranges
<b>2.1 IP</b>	string	IP Address of the SMS device	Valid IP address or hostname
<b>2.2 Database IP</b>	string	IP Address of the SMS database server	Valid IP address or hostname
<b>2.3 Database Name</b>	int	Name of the SMS database	
<b>2.4 Data Directory</b>	int	Shared folder used for badge photos	
<b>2.5 Port</b>	int	Not supported	Default: 0 Min: 0 Max: 0
<b>2.6 Username</b>	int	Username used for both device and database login	
<b>2.7 Password</b>	int	Password used for both device and database login	

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## 3.0 Methods

General requirements for methods can be found in [Driver Project Requirements](#).

### *3.1 List Cardholders*

Causes the device to raise one [Cardholder Listed](#) event for each card holder registered in the device.

#### **Parameters**

This method takes no parameters.

### 3.2 Get Cardholder Details

Causes the device to raise one [Cardholder Listed](#) event if a cardholder exists with the provided CardholderId

#### Parameters

Name	Type	Description	Default Value and Ranges
<b>Cardholder ID</b>	int	ID of the card	Default: 0 Min: 0 Max: 2147483647

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### ***3.3 List Devices***

Causes the device to raise one [Device Listed](#) event for each device (card reader, door open sensor and client computer etc) connected to the access control server.

#### **Parameters**

This method takes no parameters.

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### ***3.4 List Transaction Codes***

Causes the device to raise one TransactionCodeListed event for each TransactionCode registered in the device.

#### **Performance**

The method must complete within [n] seconds.

#### **Parameters**

This method takes no parameters.

## Events

General requirements for events can be found in [Driver Project Requirements](#).

### 4.1 Alarm Raised

This event is raised when a transaction occurs that triggers an Alarm Criteria configured on the access control server.

#### Event Properties

Name	Type	Description
<b>Alarm Criteria ID</b>	int	ID number of the alarm criteria that triggered the alarm.
<b>Alarm DateTime</b>	DateTime	Date and time that the alarm occurred.
<b>Alarm ID</b>	int	ID number of the alarm.
<b>Credential ID</b>	int	ID number of the card associated with the alarm. -1 indicates no card was involved.
<b>Device ID</b>	int	ID number of the device associated with the alarm.
<b>Transaction Code ID</b>	int	Transaction code ID number of the transaction that triggered the alarm.

## 4.2 Cardholder Listed

This event is raised when the [List Cardholders](#) or [Get CardHolder Details](#) methods are called

### Event Properties

Name	Type	Description
<b>Cardholder ID</b>	int	[Event Property Description]
<b>Credentials</b>	List(string)	List of credentials included in this card.
<b>First Name</b>	string	First name of the card holder.
<b>Last Name</b>	string	Last name of the card holder.
<b>Portrait Path</b>	string	Path to an image file.
<b>User Defined Fields</b>	List(string)	Site-specific custom fields

### 4.3 Contact Status Changed

This event is raised when a contact device changes state.

#### Event Properties

Name	Type	Description
<b>Contact Open</b>	bool	Indicates the current status of the contact.
<b>Device ID</b>	int	ID number of the device that changed state.
<b>Fault Reporting Shunted</b>	bool	Faults will not raise additional transactions.
<b>Fault Triggers Shunted</b>	bool	Faults will not trigger alarms.
<b>Tampering Detected</b>	bool	True if the device state is inconsistent (i.e. door contact opens while door is locks)
<b>Transactions Shunted</b>	bool	State change will not raise additional transactions.
<b>Triggers Shunted</b>	bool	State change will not trigger alarms.



#### 4.4 Device Listed

This event is raised when the [List Devices](#) method is called. One event is raised for every device included in the access control system. Device Types include readers, contacts, controller boards and computers. Many devices will be compound devices, for example a Reader may have child devices of type Contact for a tamper switch and door release button.

##### Event Properties

Name	Type	Description
<b>Area ID</b>	int	The ID of area that the device is installed in.
<b>Device ID</b>	int	The ID number of the device.
<b>Device Name</b>	string	The name of the device.
<b>Device Type</b>	string	The type of device (e.g. Workstation, Reader, Relay)
<b>Parent Device ID</b>	int	The ID number of the parent device

## 4.5 Reader Status Changed

This event is raised when the connection status of a reader changes.

### Event Properties

Name	Type	Description
<b>Device Communicating</b>	bool	Current connection state of the device.
<b>Device ID</b>	int	ID number of the device.
<b>Keypad Enabled</b>	bool	Indicates that the device has a keypad, and the keypad is accepting input.
<b>Transactions Shunted</b>	bool	State changes will not trigger additional transactions.
<b>Triggers Shunted</b>	bool	State changes will not trigger alarms.

## 4.6 Transaction Code Listed

This event is raised when the [List Transaction Codes](#) method is called. One event is raised for each transaction code, this may be a large number. The Transaction Code is a 64-bit number, so is split across two properties.

### Event Properties

Name	Type	Description
<b>Transaction Code Caption</b>	string	A description of the transaction type.
<b>Transaction Code High</b>	int	The high 4 bytes of the transaction code.
<b>Transaction Code Low</b>	int	The low 4 bytes of the transaction code.
<b>Transaction Code ID</b>	int	ID number of the transaction code type.

## 4.7 Transaction Raised

This event is raised when a transaction occurs. The event occurs even if the transaction is associated with an alarm. If an alarm is raised, the Transaction ID here will match the Transaction ID on the [Alarm Raised](#) event. Transactions include card swipes, contact state changes

### Event Properties

Name	Type	Description
<b>Credential ID</b>	int	ID number of any card associated with the alarm. Will be -1 if the alarm was not triggered by a card.
<b>Device ID</b>	int	ID number of any device associated with the alarm.
<b>Transaction Code ID</b>	int	ID of the transaction code. This indicates what type of event has been received.
<b>Transaction ID</b>	int	ID number of the transaction.



## Installation

### Prerequisites

No prerequisites are required for this driver.

### Driver Installation

- Start the IPSecurityCenter™ client and any supporting services
- Open the Device Driver Manager from the System Configuration
- Click the ***Install*** button
- Select the Schlage SMS Driver Package in the Open file dialog
- Wait for the driver to be uploaded
- Enable the 'SMS Communication Server'

The driver packages should be listed in the Device Driver Manager.

## Device Configuration

Add a Schlage SMS device:

- Right click in a folder (e.g. Devices) in the System Configuration: **New** → **Device On** → **Server**
- Click **Next** on the introduction
- Select **Schlage** in the **Device Manufacturer** list
- Select **SMS** in the Available Devices list
- Click **Next** to enter the device details: Enter the hostname or IP address, use 0 for the port, and user name and password.
- Click **Next** and **Finish** to add the device.
- In the property grid, complete the [Database IP](#), [Database Name](#), and [Data Directory](#) properties,
- Enable the device to bring it online.