

Honeywell Vindicator

Device Driver Specification. DYNAMICALLY GENERATED; DO NOT MODIFY.

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1 Document Versions

Version	Date	Name	Change
1.0	2020-02-10	JR	Document Created.

2 Referenced Documents

Document	Version	Description
Driver Project Requirements (DDK-PR)	1.0	The Honeywell Vindicator driver must conform to all the requirements detailed in this document.
Driver Connection and Online States Requirements (DDK-DC)	1.0	The Honeywell Vindicator driver must conform to all requirements in this document detailed in the section: Device Connection and Online States

3 Manufacturer

Name Honeywell

The Honeywell logo is displayed in a large, bold, red font. The letters are thick and have a slight shadow effect, giving it a three-dimensional appearance. The 'H' and 'W' are particularly prominent.

Website <https://www.security.honeywell.com/>

Description Honeywell is a leading global manufacturer of security and automation solutions for residential and commercial applications.

4 IPSecurityCenter Versions

The driver must be compatible with the following IPSecurityCenter versions:

IPSecurityCenter Version	Supported
4.7	<input checked="" type="checkbox"/>

5 Operating Systems

5.1 Client Side Functionality

Operating Systems	Supported
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5.2 Server Side Functionality

Operating Systems	Supported
Windows Server 2008 R2	<input checked="" type="checkbox"/>
Windows Server 2012	<input checked="" type="checkbox"/>

6 Models / Firmware Versions

Model

Versions

SDK

7 Hardware Configurations

TODO

**Build configuration diagram
linking servers together.**

(ConfigurationDiagram.png)

8 Driver Package

The driver package is named: CNL.IPSecurityCenter.Driver.Honeywell.Vindicator.Version.[BUILD-VERSION].ipscdriver

9 Driver Features

9.1 Vindicator

9.1.1 Device Connection and Online States

The full requirements for these features can be found in the [Device Connection and Online States Requirements](#)

Feature	
DC1.0 Device Online Status	None
DC2.0 Authentication	None

9.1.2 Video

This device does not support video.

9.1.3 Properties

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

Name	Type	Description	Default Value & Ranges
Destination Identification	string	Destination Identification	Default: 1:249 Min: Max:
Source Identification	string	Source Identification	Default: Min: Max:
Status	string	This is the status string	Default: Min: Max:
Minimum Alarm	int	The minimum alarm value to be reported back.	Default: 1 Min: Max:
Maximum Alarm	int	The maximum alarm number that will be reported back to the server from Vindicator.	Default: 1000 Min: Max:

9.1.4 Methods

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

9.1.4.1 Query Alarm Points

An example of a method.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
------	------	-------------	--------------------------

9.1.4.2 AddSensorPanel

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
	int		Default: Min: Max:
	int		Default: Min: Max:

9.1.4.3 Add Backup Server

This will add failover connections.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
DID	string	Destination Identification	Default: Min: Max:
SID	string	Source Identificaiton	Default: Min: Max:
IPAddress	string	The address of the vindicator	Default: Min: Max:
Port Mandu	int	The port number of the vindicator	Default: 0 Min: Max:
Username	string	The username login for the vindicator	Default: Min: Max:
Password	string	The password for the vindicator login	Default: Min: Max:
FailoverOrder	int	This is the failover order. Lowest number is used first. Device Server is always 0.	Default: 1 Min: 1 Max:

9.1.4.4 Add Relay

This will add failover connections.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
NetAddr	int	Destination Identification	Default: Min: Max:
DevAddr	int	Source Identificaiton	Default: Min: Max:

RelayMod	int	The address of the vindicator	Default: Min: Max:
RelayNumber	int	The port number of the vindicator	Default: Min: Max:

9.1.5 Events

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

9.1.5.1 Example Event

An example of an event.

Performance

The driver must be able to handle 4000 events per hour.

Event Properties

Name	Type	Description
Example Property	string	An example property on the event.

9.2 Vindicator Backup Server

9.2.1 Device Connection and Online States

The full requirements for these features can be found in the [Device Connection and Online States Requirements](#)

Feature	
DC1.0 Device Online Status	None
DC2.0 Authentication	None

9.2.2 Video

This device does not support video.

9.2.3 Properties

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

Name	Type	Description	Default Value & Ranges
Destination Identification	string	Destination Identification	Default: 1:250 Min: Max:
Source Identification	string	Source Identification	Default: Min: Max:
Status	string	This is the Status String.	Default: Min: Max:
IPAddress	string	The ip address of the Vindicator Connection.	Default: Min: Max:
Port	int	The port number that goes with the address.	Default: 1 Min: Max:
Username	string	the username to log in with to the vindicator.	Default: Min: Max:
Password	string	The password to log into the vindicator with.	Default: Min: Max:
Failover Order	int	This is the order backups will be failed over to. Lower number is used first. Minimum value is 1, the Device Server this belongs to is always 0.	Default: 1 Min: Max:

9.2.4 Methods

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

9.2.5 Events

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

9.3 Vindicator Alarm Point

9.3.1 Device Connection and Online States

The full requirements for these features can be found in the [Device Connection and Online States Requirements](#)

Feature	
DC1.0 Device Online Status	None
DC2.0 Authentication	None

9.3.2 Video

This device does not support video.

9.3.3 Properties

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

Name	Type	Description	Default Value & Ranges
ID	int	Alarm Point Identifier	Default: Min: Max:
Descriptor	string		Default: Min: Max:
Status String	string	The String version of the status	Default: Min: Max:
	string		Default: Min: Max:
Location	string	Location of the AlarmPoint	Default: Min: Max:

Status Int	int	The integer version of the status that is returned from vindicator.	Default: -1 Min: Max:
RelayCommands	string	This is the list of commands for the relays	Default: Min: Max:
AvailableTags	string	These are the tags that are available for use by this alarmpoint.	Default: Min: Max:
Present Tag	string	This is the present tag on the Alarm	Default: Min: Max:

9.3.4 Methods

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

9.3.4.1 Acknowledge

Send the Acknowledge message

This method is exposed as an operator action.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
------	------	-------------	--------------------------

9.3.4.2 Secure Device

Secure the device after being tagged

This method is exposed as an operator action.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
------	------	-------------	--------------------------

9.3.4.3 *Access*

Toggle the Alarm Points Access State

This method is exposed as an operator action.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
------	------	-------------	--------------------------

9.3.4.4 *Relay*

Send Relay Command

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
Command	string	The Relay command	Default: Min: Max:

9.3.4.5 *Tag Alarm Point*

This will set the AlarmPoint tag to the argument value.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
------	------	-------------	--------------------------

Tag	string	This is the value of the tag to be placed on the alarm. The tag must be one of the available tags listed by AvailableTags	Default: Actual Min: Max:
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9.3.4.6 *Tag ERT*

This will set the AlarmPoint tag to Actual

This method is exposed as an operator action.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
------	------	-------------	--------------------------

9.3.4.7 *Tag Wild Life*

This will set the AlarmPoint tag to False

This method is exposed as an operator action.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
------	------	-------------	--------------------------

9.3.4.8 *Tag VD*

This will set the AlarmPoint tag to Maint

This method is exposed as an operator action.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
------	------	-------------	--------------------------

9.3.4.9 *Tag NPS*

This will set the AlarmPoint tag to Nuisance

This method is exposed as an operator action.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
------	------	-------------	--------------------------

9.3.4.10 *Tag Zone Check Negative*

This will set the AlarmPoint tag to Actual

This method is exposed as an operator action.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
------	------	-------------	--------------------------

9.3.4.11 *Tag TSD*

This will set the AlarmPoint tag to Actual

This method is exposed as an operator action.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
------	------	-------------	--------------------------

9.3.4.12 Tag GSA

This will set the AlarmPoint tag to Actual

This method is exposed as an operator action.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
------	------	-------------	--------------------------

9.3.4.13 Tag Pass Holder

This will set the AlarmPoint tag to Actual

This method is exposed as an operator action.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
------	------	-------------	--------------------------

9.3.4.14 Tag PPD

This will set the AlarmPoint tag to Actual

This method is exposed as an operator action.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
------	------	-------------	--------------------------

9.3.4.15 Tag Power Section

This will set the AlarmPoint tag to Actual

This method is exposed as an operator action.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
------	------	-------------	--------------------------

9.3.4.16 Tag VPD

This will set the AlarmPoint tag to Actual

This method is exposed as an operator action.

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
------	------	-------------	--------------------------

9.3.5 Events

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

9.3.5.1 Warning Event

Raised when an Alarmpoint is in a warning state.

Performance

The driver must be able to handle 4000 events per hour.

Event Properties

Name	Type	Description
Status Code	int	Vindicator Status Code
AlarmPointID	int	Vindicator Alarm Point ID

9.3.5.2 Alarm

Raised when an alarm occurs on the device.

Performance

The driver must be able to handle 4000 events per hour.

Event Properties

Name	Type	Description
Status Code	int	Vindicator Status Code
Alarm Point ID	int	Vindicator Alarm Point ID

9.3.5.3 State

Raised when the State changes on the device

Performance

The driver must be able to handle 4000 events per hour.

Event Properties

Name	Type	Description
Status Code	int	Vindicator Status Code
Alarm Point ID	int	Vindicator Alarm Point ID

9.3.5.4 Communication

Raised when an communication error occurs

Performance

The driver must be able to handle 4000 events per hour.

Event Properties

Name	Type	Description
StatusCode	int	

9.3.5.5 Trouble

Raised when a trouble event occurs on the Alarm Point

Performance

The driver must be able to handle 4000 events per hour.

Event Properties

Name	Type	Description
Status Code	int	Vindicator Status Code

Alarm Point ID	int	Vindicator Alarm Point ID
-----------------------	-----	---------------------------

9.3.5.6 *Tamper*

Raised when a tamper occurs on the Alarm Point

Performance

The driver must be able to handle 4000 events per hour.

Event Properties

Name	Type	Description
Status Code	int	Vindicator Status Code
Alarm Point ID	int	Vindicator Alarm Point ID

9.4 Vindicator Sensor Panel

9.4.1 Device Connection and Online States

The full requirements for these features can be found in the [Device Connection and Online States Requirements](#)

Feature	
DC1.0 Device Online Status	None
DC2.0 Authentication	None

9.4.2 Video

This device does not support video.

9.4.3 Properties

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

Name	Type	Description	Default Value & Ranges
NetAddr	int		Default: 1 Min: Max:
DevAddr	int		Default: 1 Min: Max:

9.4.4 Methods

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

9.4.4.1 *AddAlarmPoint*

Returns void.

Performance

The method must complete within 2 seconds.

Parameters

Name	Type	Description	Default Value and Ranges
ID	int	The alarmpoint id	Default: Min: Max:

9.4.5 Events

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

9.4.5.1 *Communication*

Raised when an communication error occurs

Performance

The driver must be able to handle 4000 events per hour.

Event Properties

Name	Type	Description
StatusCode	int	

9.5 Vindicator Relay

9.5.1 Device Connection and Online States

The full requirements for these features can be found in the [Device Connection and Online States Requirements](#)

Feature	
DC1.0 Device Online Status	None
DC2.0 Authentication	None

9.5.2 Video

This device does not support video.

9.5.3 Properties

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

Name	Type	Description	Default Value & Ranges
NetAddr	int		Default: Min: Max:
DevAddr	int		Default: Min: Max:
RelayNumber	int		Default: Min: Max:
RelayMod	int		Default: Min: Max:
Status	string		Default: Min: Max:
StatusInt	int		Default: Min: Max:

9.5.4 Methods

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

9.5.5 Events

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

10 Installation

10.1 Prerequisites

Install the SDK on all machines running the following services / software:

- Connection Manager

10.2 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 Honeywell Vindicator Driver Package in the Open file dialog
- Wait for the driver to be uploaded

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

Additional Installation Details

10.2.1 Device Configuration

- Right click in a folder (e.g. Devices) in the System Configuration: **New** → **Device On** → **Server**
- Click **Next** on the introduction
- Select **Honeywell** in the **Device Manufacturer** list
- Select **Vindicator** in the Available Devices list
- Click **Next** to enter the device details: Enter the Honeywell Vindicator hostname or IP address, the port (use 0 to use the default port), and user name and password if integrated security is not being used.
- Click **Next** and **Finish** to add the device.
- Enable the device to bring it online.

Additional Configuration Details

10.2.2 Driver Compatibility

The following devices are known to be incompatible with the Honeywell Vindicator.

Model
