

# Honeywell Radar Video Surveillance Server

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Device Driver Specification. DYNAMICALLY GENERATED; DO NOT MODIFY.

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## HR1.0 Document Versions

Version	Date	Name	Change
<b>1.0</b>	2013-04-02	JB	Document Created.

## HR2.0 Referenced Documents

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

Document	Version	Description
<b>Driver Project Requirements (DDK-PR)</b>	1.0	The Honeywell Radar Video Surveillance Server driver must conform to all the requirements detailed in this document.
<b>Driver Connection and Online States Requirements (DDK-DC)</b>	1.0	The Honeywell Radar Video Surveillance Server driver must conform to all requirements in this document detailed in the section: <a href="#">Device Connection and Online States</a>

## HR3.0 Manufacturer

**Name** Honeywell



**Website** <https://honeywell.com/>

**Description** Honeywell is a Fortune 100 company that invents and manufactures technologies to address tough challenges linked to global macrotrends such as safety, security, and energy. With approximately 132,000 employees worldwide, including more than 19,000 engineers and scientists, we have an unrelenting focus on quality, delivery, value, and technology in everything we make and do.

## HR4.0 IPSecurityCenter Versions

The driver must be compatible with the following IPSecurityCenter versions:

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

## HR5.0 Operating Systems

### HR5.1 Client Side Functionality

Operating Systems	Supported
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### HR5.2 Server Side Functionality

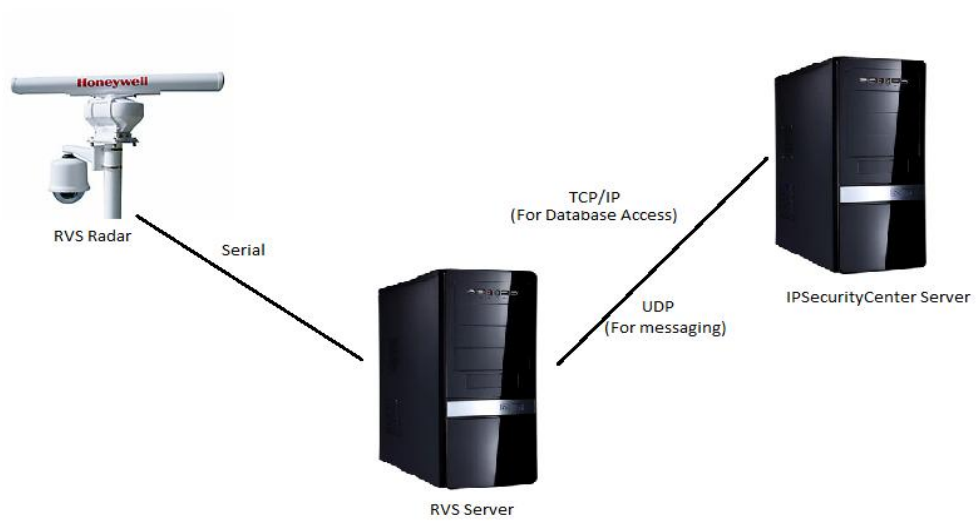
Operating Systems	Supported
Windows Server 2008 32 bit	<input checked="" type="checkbox"/>
Windows Server 2008 64 bit	<input checked="" type="checkbox"/>
Windows Server 2008 R2	<input checked="" type="checkbox"/>
Windows Server 2012	<input checked="" type="checkbox"/>



## HR6.0 Models / Firmware Versions

Model	Versions	SDK
<b>RVS Server</b>	None	None

## HR7.0 Hardware Configurations



## HR8.0 Driver Package

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

## HR9.0 Radar Video Surveillance Server Features

### HR9.1 Device Connection and Online States

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

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

## HR10.1 Video

This device does not support video.

## HR9.2 Properties

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

Name	Type	Description	Default Value & Ranges
<b>HR2.1 XML Port</b>	int	The local UDP port to use to receive XML data on, which is broadcast from the RVS server. This is configured on the RVS server under the Socket table in the SQL database. See the documentation for more information.	Default: 10190 Min: 0 Max: 65536
<b>HR2.2 Database Name</b>	string	The name of the database that the RVS system is deployed to on the RVS server.	Default: RVS Min: Max:
<b>HR2.3 Database Instance</b>	string	The name of the optional database instance that the RVS server connects to.	Default: Min: Max:
<b>HR2.4 Local IP Address</b>	string	The local IP address of the server, to use for incoming messages from the RVS server.	Default: Min: Max:

## HR9.3 Methods

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

### HR9.3.1 Activate Schedule

Activates a schedule configuration on the RVS server.

Returns void.

#### Performance

The method must complete within 2 seconds.

#### Parameters

Name	Type	Description	Default Value and Ranges
Name	string	The name of the schedule to execute.	Default: Min: Max:

### HR9.3.2 List Cameras

Causes the Camera Received event to be raised once, for every camera known to the system.

Returns void.

#### Performance

The method must complete within 2 seconds.

#### Parameters

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

### HR9.3.3 List Sensors

Causes the Sensor Received event to be raised once, for every sensor known to the system.

Returns void.

#### Performance

The method must complete within 2 seconds.

#### Parameters

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





## HR9.4 Events

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

### HR9.4.1 Available Config

Raised when the RVS active configuration changes.

#### Performance

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

#### Event Properties

Name	Type	Description
Identifier	string	The identifier of the configuration.
Name	string	The name of the configuration.
Active	bool	Determines if the configuration is active.

### HR9.4.2 Camera Received

Raised once for each available camera in the system, when the List Cameras method is executed.

#### Performance

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

#### Event Properties

Name	Type	Description
Identifier	string	The unique identifier of the camera.
Hardware Identifier	string	The unique identifier of the hardware.
Name	string	The name of the camera.
Enabled	bool	Determines if the camera is currently enabled.
Description	string	A description of the camera.
Type	string	The type of camera.
Latitude	double	The position of the camera.
Longitude	double	The position of the camera.
Height	double	The height of the camera.
Range	double	The visible range of the camera.

<b>Azimuth Adjustment</b>	double	The angle formed between the direction of the camera and a line from the observer to a point of interest projected on the same plane as the reference direction.
<b>Zoom Confidence</b>	double	Unknown.
<b>Zoom Limit</b>	string	The limit of the zoom capacity.
<b>Zoom Minimum</b>	string	The minimum level of zoom available.
<b>Pan Speed</b>	string	The pan speed capacity.
<b>Tilt Speed</b>	string	The tilt speed capacity.
<b>Configuration Identifier</b>	string	The identifier of the configuration loaded within the camera.
<b>Response Identifier</b>	string	Unknown.
<b>Status</b>	string	The current status of the camera.

#### *HR9.4.3 Sensor Received*

Raised once for each available sensor in the system, when the List Sensors method is executed.

#### **Performance**

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

#### **Event Properties**

Name	Type	Description
<b>Name</b>	string	The name of the sensor received from the RVS server.
<b>Description</b>	string	The description of the sensor.
<b>Latitude</b>	double	The position of the sensor.
<b>Longitude</b>	double	The position of the sensor.
<b>Type</b>	string	The type of sensor.
<b>Range</b>	double	The range of the sensor.
<b>Status</b>	string	The current status of the sensor.

#### *HR9.4.4 Target Detected*

Raised when a target is detected by the RVS system.

#### **Performance**

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

### Event Properties

Name	Type	Description
Identifier	string	The unique identifier of the target.
Latitude	double	The position of the target.
Longitude	double	The position of the target.
Distance	double	The distance of the target.
Bearing	double	The bearing of the target.
Speed	double	The speed of the target.
Heading	double	The heading of the target.
State	Enums.TargetState	The current state of the detected target.
Priority	string	The priority of the target detection.
Camera	string	The camera that detected the target.
Sensor Identifier	string	The identifier of the sensor that detected the target.
Rule	string	The name of the rule that caused the target to be detected.
Key	string	Unknown.
Alarmed	bool	Determines if the target detected has caused an alarm.
Clip Identifier	int	Unknown.
Name	string	The name of the target.
Note	string	A note associated with the target.
Max Refresh Interval	int	The maximum interval between the target being refreshed.
Referenced Target	string	The identifier of a different target that this target references or relates to.

#### *HR9.4.5 AIS Target Detected*

Raised when an Automatic Identification System target is detected by the RVS system.

### Performance

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

### Event Properties

Name	Type	Description
Identifier	string	The unique identifier of the target.
Latitude	double	The position of the target.
Longitude	double	The position of the target.
Distance	double	The distance of the target.
Bearing	double	The bearing of the target.
Speed	double	The speed of the target.
Heading	double	The heading of the target.
State	Enums.TargetState	The current state of the detected target.
Priority	string	The priority of the target detection.
Camera	string	The camera that detected the target.
Sensor Identifier	string	The identifier of the sensor that detected the target.
Rule	string	The name of the rule that caused the target to be detected.
Key	string	Unknown.
Alarmed	bool	Determines if the target detected has caused an alarm.
Clip Identifier	int	Unknown.
Name	string	The name of the target.
Note	string	A note associated with the target.
Max Refresh Interval	int	The maximum interval between the target being refreshed.
Referenced Target	string	The identifier of a different target that this target references or relates to.
MMSI	string	The Maritime Mobile Service Identity from the AIS system.
Call Sign	string	The call sign from the AIS system.

<b>Ship Name</b>	string	The ship name from the AIS system.
<b>Destination</b>	string	The destination from the AIS system.
<b>Navigational Status</b>	string	The navigational status from the AIS system.
<b>Rate Of Turn</b>	double	The rate of turn from the AIS system.
<b>High Accuracy</b>	bool	Determines if this is a high accuracy target, from the AIS system.
<b>Course</b>	double	The course from the AIS system.
<b>Imo Number</b>	string	The International Maritime Organization number from the AIS system.
<b>Type Ship Cargo</b>	string	The type of ship cargo from the AIS system.
<b>Type Of Positive Deviation</b>	string	Unknown from the AIS system.
<b>ETA</b>	DateTime	The estimated time of arrival from the AIS system.
<b>Maximum Draught</b>	double	The maximum draught from the AIS system.
<b>Length A</b>	string	The length A value from the AIS system.
<b>Length B</b>	string	The length B value from the AIS system.
<b>Width C</b>	string	The width C value from the AIS system.
<b>Width D</b>	string	The width D value from the AIS system.

#### *HR9.4.6 TTM Target Detected*

Raised when a TTM target is detected by the RVS system.

#### **Performance**

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

#### **Event Properties**

<b>Name</b>	<b>Type</b>	<b>Description</b>
<b>Identifier</b>	string	The unique identifier of the target.
<b>Latitude</b>	double	The position of the target.
<b>Longitude</b>	double	The position of the target.
<b>Distance</b>	double	The distance of the target.
<b>Bearing</b>	double	The bearing of the target.

<b>Speed</b>	double	The speed of the target.
<b>Heading</b>	double	The heading of the target.
<b>State</b>	Enums.TargetState	The current state of the detected target.
<b>Priority</b>	string	The priority of the target detection.
<b>Camera</b>	string	The camera that detected the target.
<b>Sensor Identifier</b>	string	The identifier of the sensor that detected the target.
<b>Rule</b>	string	The name of the rule that caused the target to be detected.
<b>Key</b>	string	Unknown.
<b>Alarmed</b>	bool	Determines if the target detected has caused an alarm.
<b>Clip Identifier</b>	int	Unknown.
<b>Name</b>	string	The name of the target.
<b>Note</b>	string	A note associated with the target.
<b>Max Refresh Interval</b>	int	The maximum interval between the target being refreshed.
<b>Referenced Target</b>	string	The identifier of a different target that this target references or relates to.
<b>TTM Name</b>	string	The tracked target message name of the target.
<b>Number</b>	string	The TTM number of the target.
<b>Bearing Mode</b>	string	The bearing mode from the TTM system.
<b>Degree Mode</b>	string	The degree mode from the TTM system.
<b>Distance To CPA</b>	double	The distance to the closest point of approach from the TTM system.
<b>Time To CPA</b>	double	The time to the closest point of approach from the TTM system.
<b>Units</b>	string	The units from the TTM system.
<b>Reference Target</b>	string	The reference target from the TTM system.
<b>UTC</b>	string	The UTC from the TTM system.
<b>Type Of Acquisition</b>	string	The type of acquisition from the TTM system.

### *HR9.4.7 Sandia Generic Target Detected*

Raised when a Sandia Generic target is detected by the RVS system.

#### **Performance**

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

#### **Event Properties**

Name	Type	Description
<b>Identifier</b>	string	The unique identifier of the target.
<b>Latitude</b>	double	The position of the target.
<b>Longitude</b>	double	The position of the target.
<b>Distance</b>	double	The distance of the target.
<b>Bearing</b>	double	The bearing of the target.
<b>Speed</b>	double	The speed of the target.
<b>Heading</b>	double	The heading of the target.
<b>State</b>	Enums.TargetState	The current state of the detected target.
<b>Priority</b>	string	The priority of the target detection.
<b>Camera</b>	string	The camera that detected the target.
<b>Sensor Identifier</b>	string	The identifier of the sensor that detected the target.
<b>Rule</b>	string	The name of the rule that caused the target to be detected.
<b>Key</b>	string	Unknown.
<b>Alarmed</b>	bool	Determines if the target detected has caused an alarm.
<b>Clip Identifier</b>	int	Unknown.
<b>Name</b>	string	The name of the target.
<b>Note</b>	string	A note associated with the target.
<b>Max Refresh Interval</b>	int	The maximum interval between the target being refreshed.
<b>Referenced Target</b>	string	The identifier of a different target that this target references or relates to.

<b>Sandia Identifier</b>	string	The Sandia identifier of the target.
<b>Device Name</b>	string	The name of the Sandia device that detected the target.
<b>Altitude</b>	double	The altitude from the Sandia system.
<b>Classification</b>	string	The classification of the target within the Sandia system.

#### *HR9.4.8 GPS Target Detected*

Raised when a GPS target is detected by the RVS system.

#### **Performance**

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

#### **Event Properties**

<b>Name</b>	<b>Type</b>	<b>Description</b>
<b>Identifier</b>	string	The unique identifier of the target.
<b>Latitude</b>	double	The position of the target.
<b>Longitude</b>	double	The position of the target.
<b>Distance</b>	double	The distance of the target.
<b>Bearing</b>	double	The bearing of the target.
<b>Speed</b>	double	The speed of the target.
<b>Heading</b>	double	The heading of the target.
<b>State</b>	Enums.TargetState	The current state of the detected target.
<b>Priority</b>	string	The priority of the target detection.
<b>Camera</b>	string	The camera that detected the target.
<b>Sensor Identifier</b>	string	The identifier of the sensor that detected the target.
<b>Rule</b>	string	The name of the rule that caused the target to be detected.
<b>Key</b>	string	Unknown.
<b>Alarmed</b>	bool	Determines if the target detected has caused an alarm.
<b>Clip Identifier</b>	int	Unknown.



<b>Name</b>	string	The name of the target.
<b>Note</b>	string	A note associated with the target.
<b>Max Refresh Interval</b>	int	The maximum interval between the target being refreshed.
<b>Referenced Target</b>	string	The identifier of a different target that this target references or relates to.
<b>Track Identifier</b>	string	The track identifier from the GPS system.
<b>Altitude</b>	double	The altitude of the target from the GPS system.
<b>GPS Time</b>	string	The time based on the GPS value from the GPS system.
<b>Satellites Used</b>	int	The number of satellites currently used for the positioning from the GPS system.
<b>Temperature</b>	double	The temperature from the GPS system.
<b>Pressure</b>	double	The pressure from the GPS system.
<b>Battery</b>	double	The battery from the GPS system.

#### *HR9.4.9 CAMS3 Target Detected*

Raised when a CAMS3 target is detected by the RVS system.

#### **Performance**

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

#### **Event Properties**

<b>Name</b>	<b>Type</b>	<b>Description</b>
<b>Identifier</b>	string	The unique identifier of the target.
<b>Latitude</b>	double	The position of the target.
<b>Longitude</b>	double	The position of the target.
<b>Distance</b>	double	The distance of the target.
<b>Bearing</b>	double	The bearing of the target.
<b>Speed</b>	double	The speed of the target.
<b>Heading</b>	double	The heading of the target.
<b>State</b>	Enums.TargetState	The current state of the detected target.

<b>Priority</b>	string	The priority of the target detection.
<b>Camera</b>	string	The camera that detected the target.
<b>Sensor Identifier</b>	string	The identifier of the sensor that detected the target.
<b>Rule</b>	string	The name of the rule that caused the target to be detected.
<b>Key</b>	string	Unknown.
<b>Alarmed</b>	bool	Determines if the target detected has caused an alarm.
<b>Clip Identifier</b>	int	Unknown.
<b>Name</b>	string	The name of the target.
<b>Note</b>	string	A note associated with the target.
<b>Max Refresh Interval</b>	int	The maximum interval between the target being refreshed.
<b>Referenced Target</b>	string	The identifier of a different target that this target references or relates to.
<b>Zone Name</b>	string	The CAMS3 zone that the target was detected within.
<b>Zone Identifier</b>	int	The identifier of the CAMS3 zone that the target was detected in.
<b>Sensor Name</b>	string	The name of the CAMS3 sensor that the target was detected by.
<b>Alarm Identifier</b>	string	The identifier of the alarm within the CAMS3 system.
<b>Zone Description</b>	string	The name of the CAMS3 zone that the target was detected in.
<b>Alarm Type</b>	string	The type of alarm in the CAMS3 system.

## **HR10.0 Installation**

### **HR10.1 Prerequisites**

There is no SDK to install for this integration.

## HR10.2 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 Radar Video Surveillance Server Driver Package in the Open file dialog
- Wait for the driver to be uploaded
- Enable the 'Honeywell Radar Video Surveillance Server Communication Server'

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

### Additional Installation Details

- Whenever the RVS database is updated, the RVS service needs to be restarted before the update can take effect.

## HR10.3 Device Configuration

Add a Honeywell Radar Video Surveillance Server device:

- 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 **Radar Video Surveillance Server** in the Available Devices list
- Click **Next** to enter the device details: Enter the Honeywell Radar Video Surveillance Server 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.

After bringing the RVS object online within the system configuration for the first time, the 'Local IP' property will be written to the RVS database.

The RVS service on the RVS server machine will require a restart before messages will be received by the IPSecurityCenter RVS device.

If you wish to activate schedules on the RVS server, then the RVSActivateConfig.exe application must be located under the following location on the IPSC server:

%program files(x86)%\Honeywell\RVS\RVSActivateConfig.exe

## HR10.4 Driver Compatibility

The following devices are known to be incompatible with the Honeywell Radar Video Surveillance Server.

Model
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