

## HWg-Juno and Genetec Omnicast

Remote input mode – RIM and Inputs simulation mode – ISM

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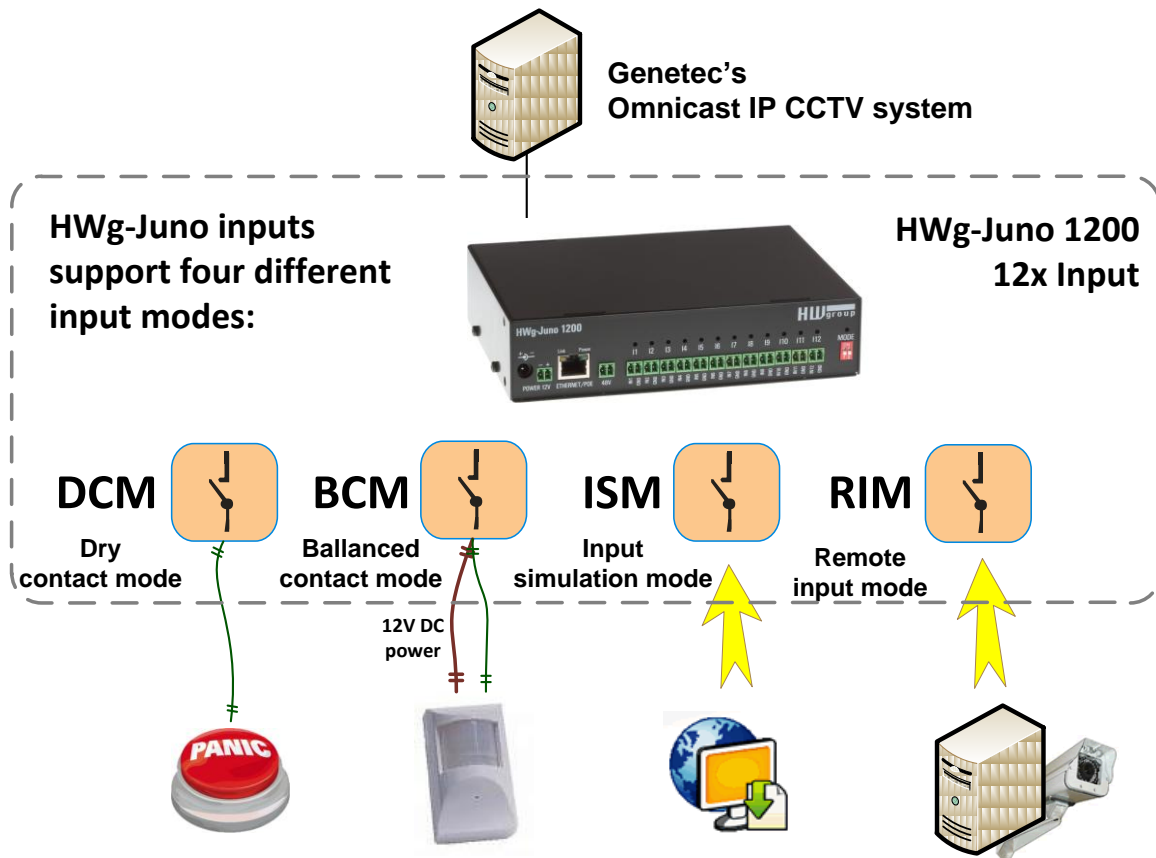
## HWg-Juno input modes

**Dry contact mode – DCM** is basic input mode. It supports logic levels **High** and **Low**.

**Balanced input mode – BCM** is used for connection intrusion detection sensors where tampering with sensor needs to be detected. Cabling to sensor is monitored also. Supported signals are **Low – Secured**, **High – Alarm** and **Tamper – Alarm**. *BCM mode is available only on HWg-Juno 1200.*

**Input simulation mode – ISM** is feature for testing Genetec integration with dry contacts and balanced inputs. When you switch port into simulation mode you are able to get remote control over the input state from web browser. Control buttons on HWg-Juno web interface are used to control tested inputs. Feature is used mostly for integration and site acceptance testing. ISM is also basis of scenario based simulation systems used for performance testing of security operators.

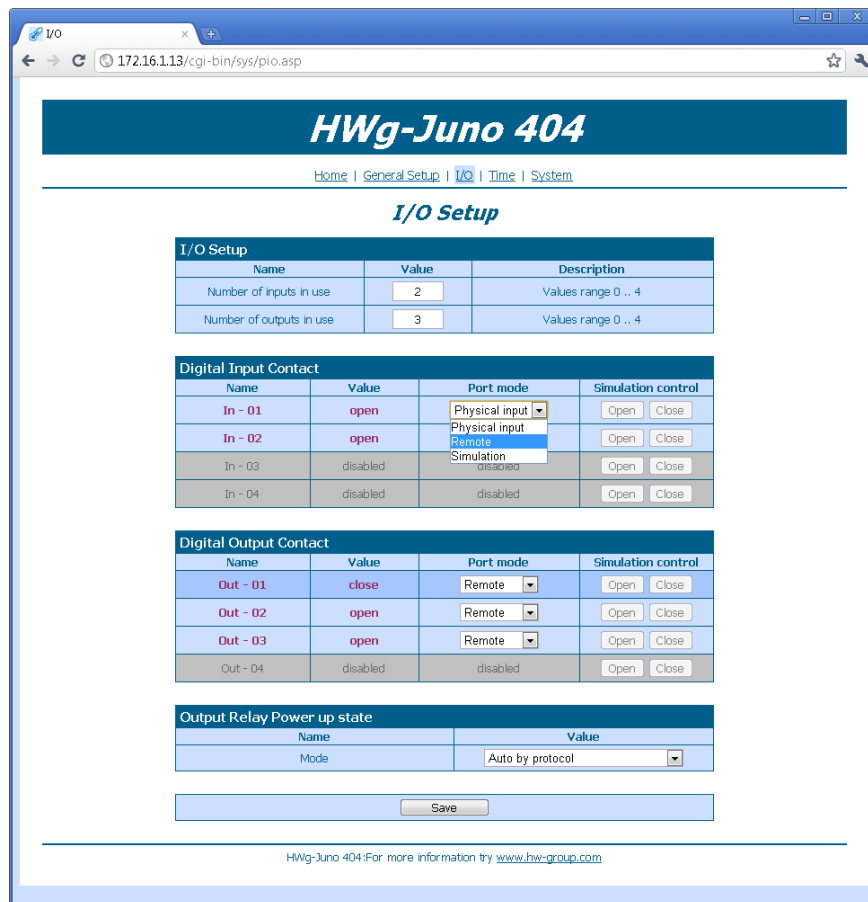
**Remote input mode – RIM** is HWg-Juno feature which allow using HWg-Juno as event gateway for Genetec’s Omnicast system. This simple to use feature allow third-party system to send events into processing in Genetec’s Events management system. HWg-Juno inputs could be configured for remote input mode – RIM on port by port basis. HWg-Juno support mix or remote and physical port on unit.



## Configuration of input ports for RIM and ISM

**Remote input control – RIP** mode has to be enabled on port by port basis in I/O tab of HWg-Juno admin interface. RIP is inputs specific feature. To configure **Remote mode** for selected port:

- Open the admin interface of HWg-Juno unit
- Go to **I/O tab** of admin interface
- Go to **input port** selected port and from Port mode drop down menu select Remote
- You have to **Save** the new settings to apply new configuration.



The screenshot shows the HWg-Juno 404 I/O Setup configuration page. The page is titled "I/O Setup" and contains several sections:

- I/O Setup:** A table with columns Name, Value, and Description.
 

Name	Value	Description
Number of inputs in use	2	Values range 0.. 4
Number of outputs in use	3	Values range 0.. 4
- Digital Input Contact:** A table with columns Name, Value, Port mode, and Simulation control.
 

Name	Value	Port mode	Simulation control
In - 01	open	Physical input	Open Close
In - 02	open	Remote	Open Close
In - 03	disabled	disabled	Open Close
In - 04	disabled	disabled	Open Close
- Digital Output Contact:** A table with columns Name, Value, Port mode, and Simulation control.
 

Name	Value	Port mode	Simulation control
Out - 01	close	Remote	Open Close
Out - 02	open	Remote	Open Close
Out - 03	open	Remote	Open Close
Out - 04	disabled	disabled	Open Close
- Output Relay Power up state:** A table with columns Name and Value.
 

Name	Value
Mode	Auto by protocol

A "Save" button is located at the bottom of the configuration area.

**Input simulation mode – ISM** mode has to be enabled on port by port basis in I/O tab of HWg-Juno admin interface. ISM could be used for all inputs and outputs. To configure **Simulation mode** for selected port:

- Open the admin interface of HWg-Juno unit
- Go to **I/O tab** of admin interface
- Select the port for testing. Both Inputs and outputs could be selected
- From Port mode drop down menu select Simulation
- You have to **Save** the new settings to apply new configuration.
- After new setting is applied **Simulation buttons** become available for testing.

## Remote input control API

The remote control input feature has simple WEB based API. To control the HWg-Juno input port you have to set port into remote mode.

State of the input is control by sending HTTP command to device:

### Single port control:

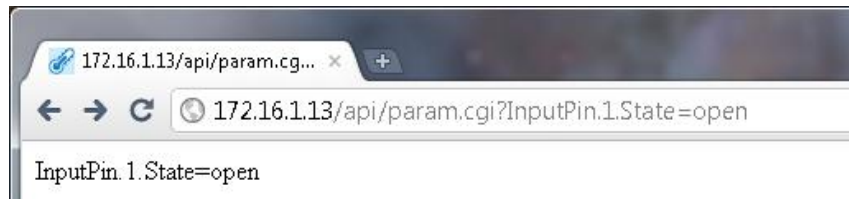
To set port to **CLOSED** send request to the unit:

<http://device IP address/api/param.cgi?InputPin.1.State=close>

To set port to **OPEN** send request to the unit:

<http://device IP address/api/param.cgi?InputPin.1.State=open>

Unit will answer with real state of the input:



If the port is not set to remote mode, units will answer:

404 Non existing page

### Multiple port control:

Commands to multiple ports could be sent all in once:

Example: <http://192.168.10.20/api/param.cgi?InputPin.1.State=open&InputPin.2.State=close>



## RIM Security

Remote input mode support unit security features. HWg-Juno unit supports Basic authentication. Access to unit is protected with user name and password.

To configure protected access for RIM

- Enter user name and password in units admin interface **HWg-Juno > General setup**
- Reboot the unit to apply the security settings.

All access to unit will now require authentication with user name and password.

Remote input port control HTTP API commands must be used with integrated authentication.

### Single port control:

To **set port to CLOSED** send request to the unit:

<http://user name:password@device IP address/api/param.cgi?InputPin.1.State=close>

To **set port to OPEN** send request to the unit:

<http://user name:password@device IP address/api/param.cgi?InputPin.1.State=open>

Unit will answer with real state of the input:



Wrong or missing authentication will provide answer:



Note: Microsoft Internet Explorer does not support integrated authentication from version 8 and newer. For testing and development you have to use Firefox or Google Chrome web browsers.