

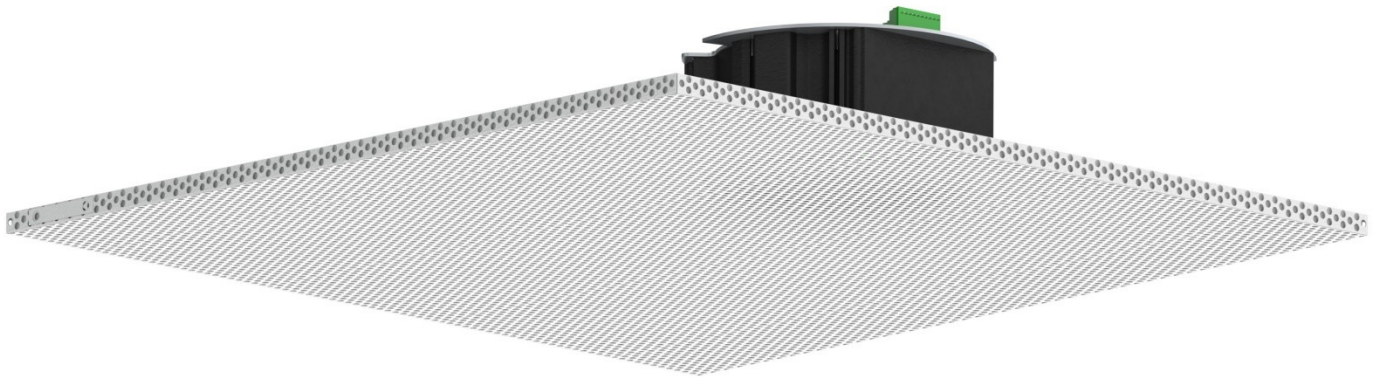


wahsega
labs

**Wahsega Speaker
with InformaCast® and SIP**

Application Note

Activating Relays through InformaCast



This application note will help you set up and activate relays in the Wahsega Labs speaker with InformaCast®.

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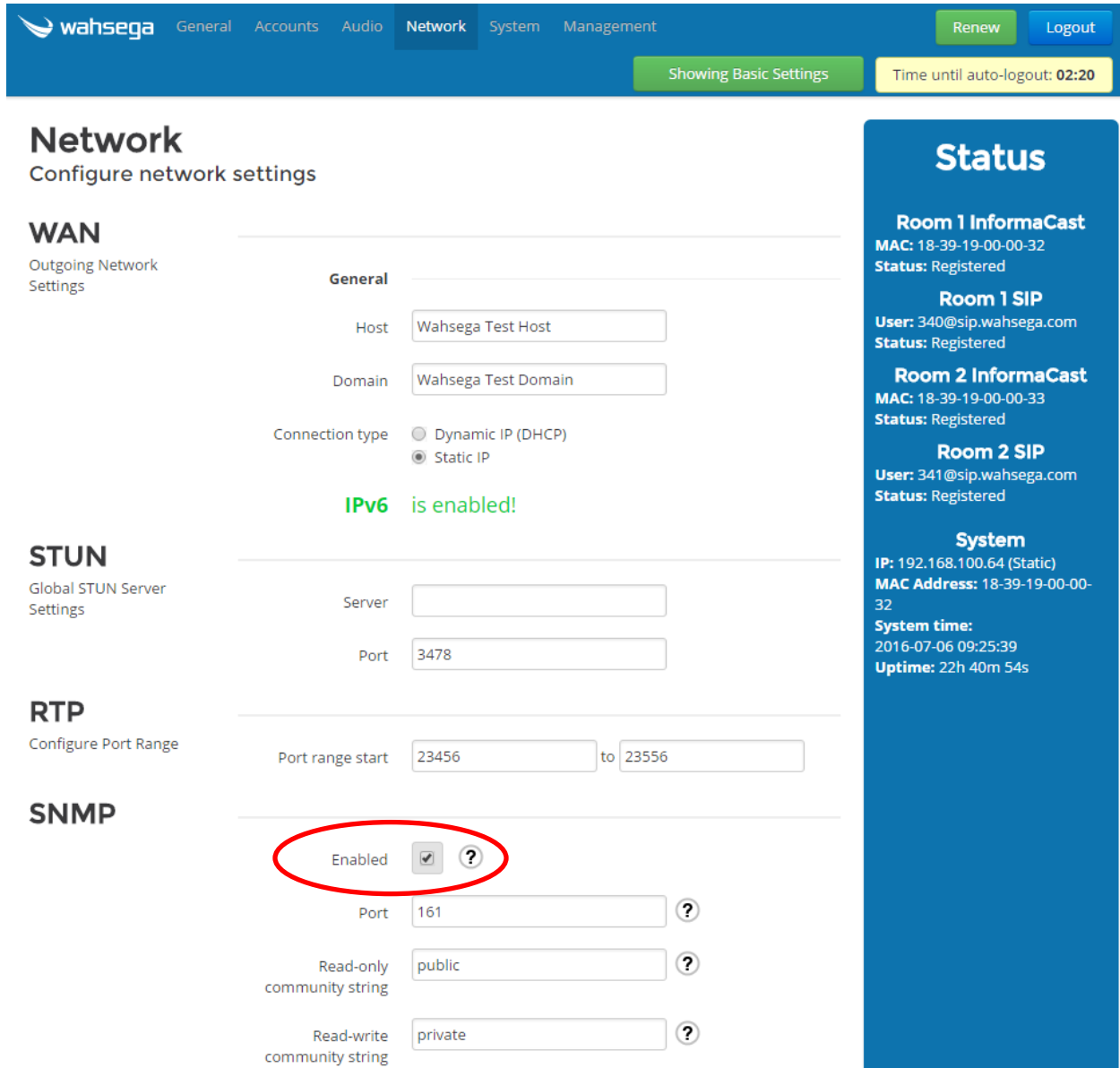
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1. Enable SNMP on your Wahsega device.

First, enable SNMP in your Wahsega device's configuration webpages. You can find this setting at the bottom of the Network page, under SNMP. The default setting is *SNMP enabled*, so just make sure the "Enabled" box is checked.



The screenshot shows the Wahsega Labs configuration webpages. The top navigation bar includes "General", "Accounts", "Audio", "Network" (selected), "System", and "Management". There are "Renew" and "Logout" buttons on the right. A green button says "Showing Basic Settings" and a yellow box shows "Time until auto-logout: 02:20".

Network

Configure network settings

WAN

Outgoing Network Settings

General

Host: Wahsega Test Host

Domain: Wahsega Test Domain

Connection type: Dynamic IP (DHCP) Static IP

IPv6 is enabled!

STUN

Global STUN Server Settings

Server: []

Port: 3478

RTP

Configure Port Range

Port range start: 23456 to 23556

SNMP

Enabled ?

Port: 161 ?

Read-only community string: public ?

Read-write community string: private ?

Status

Room 1 InformaCast
MAC: 18-39-19-00-00-32
Status: Registered

Room 1 SIP
User: 340@sip.wahsega.com
Status: Registered

Room 2 InformaCast
MAC: 18-39-19-00-00-33
Status: Registered

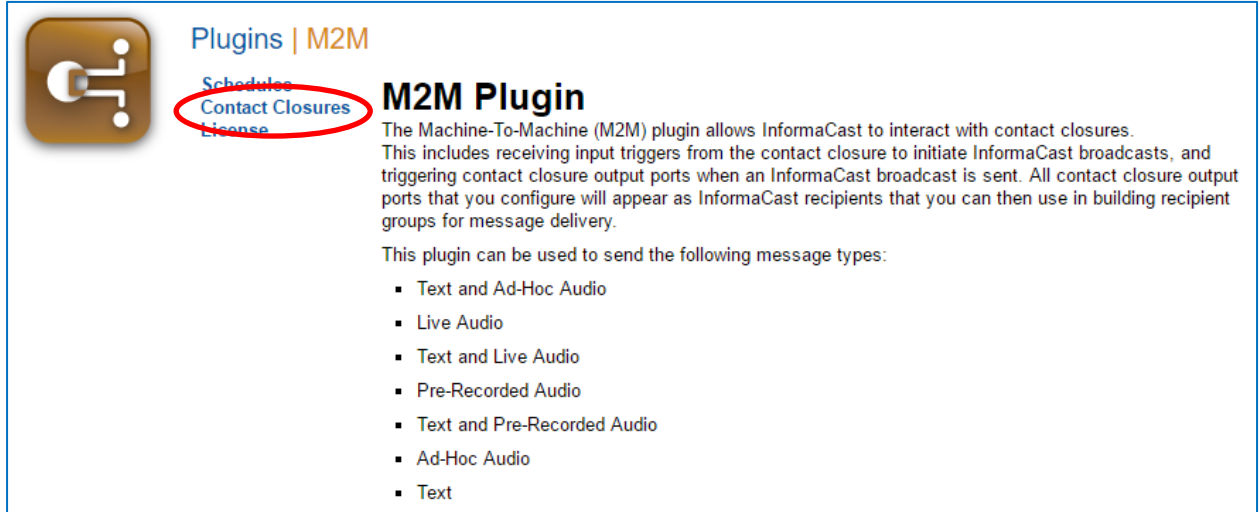
Room 2 SIP
User: 341@sip.wahsega.com
Status: Registered

System
IP: 192.168.100.64 (Static)
MAC Address: 18-39-19-00-00-32
System time: 2016-07-06 09:25:39
Uptime: 22h 40m 54s

2. Log in to your InformaCast configuration webpages.

- Under the *Plugins* dropdown menu, select *M2M*.

- Click *Contact Closures*.



Plugins | M2M


- Schedules
- Contact Closures**
- License

M2M Plugin

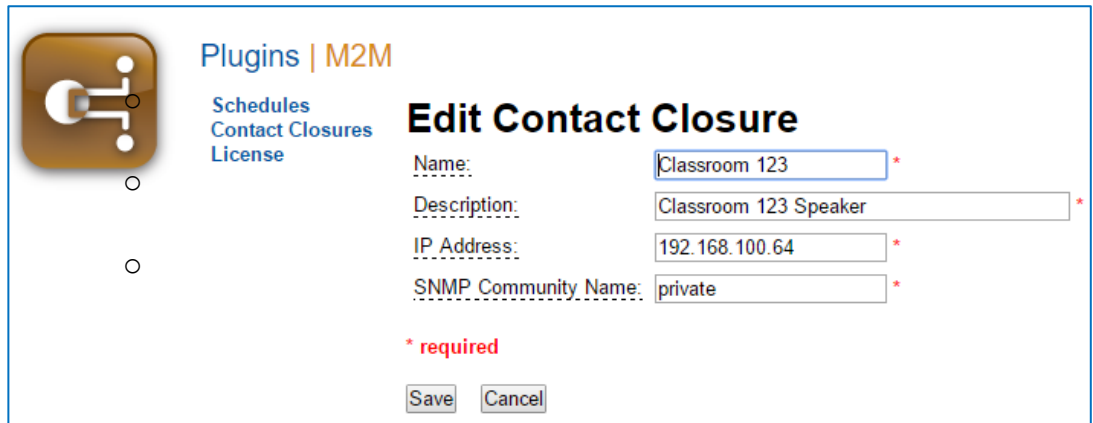
The Machine-To-Machine (M2M) plugin allows InformaCast to interact with contact closures. This includes receiving input triggers from the contact closure to initiate InformaCast broadcasts, and triggering contact closure output ports when an InformaCast broadcast is sent. All contact closure output ports that you configure will appear as InformaCast recipients that you can then use in building recipient groups for message delivery.

This plugin can be used to send the following message types:

- Text and Ad-Hoc Audio
- Live Audio
- Text and Live Audio
- Pre-Recorded Audio
- Text and Pre-Recorded Audio
- Ad-Hoc Audio
- Text

- Add a Wahsega speaker. If you are using a two-room speaker configuration, add only the primary speaker.
- Click  .

- Fill in all required categories.



Plugins | M2M

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Edit Contact Closure

Name: Classroom 123 *

Description: Classroom 123 Speaker *


IP Address: 192.168.100.64 *


SNMP Community Name: private *

* required

Save Cancel

- **Name** – Name you wish to associate with this Wahsega device. This is the name that will appear when you are building InformaCast recipient groups , along with its output port name(s).
 - **Description** – The description of this speaker (could include model, location, etc.).
 - **IP Address** – The IP address of your Wahsega primary speaker.
 - **SNMP Community Name** – This is the “Read-write community string” found on the Wahsega speaker’s *Network* configuration page under *SNMP*. The Wahsega speaker’s default SNMP community name is “private”.
- Click *Save*.
 - Repeat for each speaker (or speaker pair, in the case of a 2-room speaker configuration) you would like to add.
 - Your newly-added speaker should now appear under *Maintain Contact Closures* on the *M2M Plugins* page, along with its description and IP address.

- Next, add Output Ports for each speaker.
 - Input Ports and Output Ports will both initially read 0.
 - Click the 0 under *Output Ports*.
 - Click  .



Plugins | M2M

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Edit Contact Closure Output Port

Contact Closure: Classroom 123

Name: *

Monitoring Status: *

Time Schedule: *

Manufacturer MIB 

Port Identifier (OID): *

Field Type: *

Port Switch On/Off (OID value): *


* required

- Fill in all required categories.
 - **Name** – The name you’d like to give this contact closure’s output port. This name will appear as an InformaCast recipient along with its contact closure name (e. g., Classroom One: Relay 1 – ON).
 - **Monitoring Status** – Current monitoring status. This is a way to configure the port but not currently use it.
 - Choose *ACTIVE* to use this contact closure.
 - **Time Schedule** – The time schedule (if any) that this port should adhere to.
 - Choose *Always Available* to enable time schedules.

- **Port Identifier** – The manufacturer port identifier (OID) that corresponds to the output port on the device you wish to contact.
 - See table below for values.
- **Field Type** – Type of field that represents the OID value.
 - Choose *Integer*.
- **Port Switch On/Off (OID value)** – The port identifier that indicates if the output port should be switched ON or OFF.
 - 1 = ON
 - 2 = OFF

Port	Port Identifier (OID)	Field Type	OID Value for ON	OID Value for OFF
Speaker 1 Relay 1	1.3.6.1.4.1.47315.1.2.1.3.1.2.1.1	Integer	1	2
Speaker 1 Relay 2	1.3.6.1.4.1.47315.1.2.1.3.1.2.1.2	Integer	1	2
Speaker 2 (if installed/configured) Relay 1	1.3.6.1.4.1.47315.1.2.1.3.1.2.2.1	Integer	1	2
Speaker 2 (if installed/configured) Relay 2	1.3.6.1.4.1.47315.1.2.1.3.1.2.2.2	Integer	1	2

- Finished example for two-room, two-speaker configuration, using all relays:



Plugins | M2M

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Maintain Contact Closure Output Ports


Contact Closure: Classroom 123

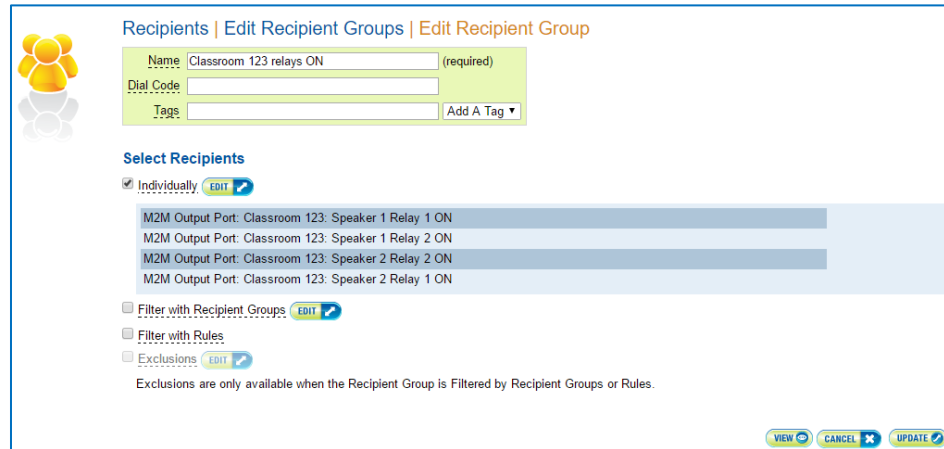
Each output port listed below will appear as an InformaCast recipient. Please name the output ports accordingly. The recipient will appear as follows: [Contact Closure Name: Output Port Name].

⏪ ⏩ ⏴ ⏵ ⏶ ⏷ | [15] | ADD

Name	Status	Action
Speaker 1 Relay 1 OFF	ACTIVE	DELETE 🔄
Speaker 1 Relay 1 ON	ACTIVE	DELETE 🔄
Speaker 1 Relay 2 ON	ACTIVE	DELETE 🔄
Speaker 1 Relay 2 OFF	ACTIVE	DELETE 🔄
Speaker 2 Relay 1 ON	ACTIVE	DELETE 🔄
Speaker 2 Relay 1 OFF	ACTIVE	DELETE 🔄
Speaker 2 Relay 2 ON	ACTIVE	DELETE 🔄
Speaker 2 Relay 2 OFF	ACTIVE	DELETE 🔄

Results 1 - 8 of 8.

- Add a Recipient Group
 - Under *Recipients*, select *Edit Recipient Groups*.
 - Click  to add relays individually or as groups.




Recipients | Edit Recipient Groups | Edit Recipient Group


Name: Classroom 123 relays ON (required)

Dial Code: _____


Tags: _____ Add A Tag ▾

Select Recipients

Individually 



Filter with Recipient Groups 

Filter with Rules


Exclusions 

Exclusions are only available when the Recipient Group is Filtered by Recipient Groups or Rules.

VIEW CANCEL UPDATE

- **Name** – Only *Name* is required. Name your recipient group.
- **Select Recipients** – Choose how and which recipients will be included in this group.
 - Individually
 - Add recipients by checking box and then clicking  .
 - Filter with Recipient Groups
 - Add recipients by checking box and then clicking  .
 - Filter within Rules
 - Add recipients by checking box and then creating a rule.
 - Exclusions
 - Add exclusions if to rules or group if necessary.

○ Click  .





- **Be sure to add both *ON* and *OFF* for each relay or relay group.** If you do not add two, separate states (*on* and *off*) for each relay, you will have no way to change the relay state once it has been activated.
- Repeat  for each relay or relay group desired.

3. Activate Relays

- Activate a relay by adding it to any existing message under *Messages*, or create a separate message for relay activation only. Relay messages can be any of the following types:
 - Text and Ad-Hoc Audio
 - Live Audio
 - Text and Live Audio
 - Pre-Recorded Audio
 - Text and Pre-Recorded Audio
 - Ad-Hoc Audio
 - Text
- If you activate a relay, you must have a way to deactivate it (and vice versa). Be sure to add messages for each relay state.
 - Be sure to add each relay state in a *separate* message. If you add both “open” and “closed” states of the same relay to the same message, you will get inconsistent results.

Messages | [Send or Edit Messages](#) Message " Classroom 123 Relays OFF" added.

RELAYS Page 1 of 1 [NEXT](#) Jump to page: Show 50 results per page Filter:

Description	Short Text	Message Type	Action
Classroom 123 Relays OFF	ALL RELAYS OFF	Text	   
Classroom 123 Relays ON	ALL RELAYS ON	Text	