

## Monitor - Feature #579

### Pair Button support

28 Jul 2017 10:05 - Hammel

<b>Status:</b>	Closed	<b>Start date:</b>	28 Jul 2017
<b>Priority:</b>	Immediate	<b>Due date:</b>	
<b>Assignee:</b>	Hammel	<b>% Done:</b>	100%
<b>Category:</b>	Software	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	0.5.0		
<b>Severity:</b>	04 - Low		
<b>Description</b>			
When pressed it toggles the state of pairing with IoT devices. Should also show state (re: mode) via LEDs.			

#### Associated revisions

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##### Revision de2e733f - 29 Jul 2017 14:58 - Hammel

RM #579: Initial import of gpio reader/writer utility.

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##### Revision 37857306 - 29 Jul 2017 19:12 - Hammel

RM #579: Remove extraneous stdout message.

##### Revision 37857306 - 29 Jul 2017 19:12 - Hammel

RM #579: Remove extraneous stdout message.

##### Revision 8a4d06ad - 04 Aug 2017 14:58 - Hammel

RM #579: Bring up AP after dhcp has been started on it when in dual-mode (AP + client).

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RM #579: Bring up AP after dhcp has been started on it when in dual-mode (AP + client).

##### Revision c0b2bdf2 - 04 Aug 2017 14:59 - Hammel

RM #579: Remove "source" line because the directory referenced doesn't exist and isn't used.

##### Revision c0b2bdf2 - 04 Aug 2017 14:59 - Hammel

RM #579: Remove "source" line because the directory referenced doesn't exist and isn't used.

**Revision ba237a5e - 17 Mar 2018 19:37 - Hammel**

RM #579: Use the correct name for the hostapd configuration when pairing.

**Revision ba237a5e - 17 Mar 2018 19:37 - Hammel**

RM #579: Use the correct name for the hostapd configuration when pairing.

**Revision 6628f7a1 - 18 Mar 2018 14:14 - Hammel**

RM #579: Use gpio stamp file instead of querying the GPIO pins manually.

**Revision 6628f7a1 - 18 Mar 2018 14:14 - Hammel**

RM #579: Use gpio stamp file instead of querying the GPIO pins manually.

**Revision 9c78c7c9 - 18 Mar 2018 14:17 - Hammel**

RM #579: Don't source ironman.cfg since we no longer query gpio pins manually.

**Revision 9c78c7c9 - 18 Mar 2018 14:17 - Hammel**

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**Revision 698f359c - 18 Mar 2018 14:38 - Hammel**

RM #579: Remove imnetconfig references in favor of letting imwww deal directly with pair stamp file.

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## History

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**#1 - 28 Jul 2017 13:03 - Hammel**

- Project changed from Sensors to Monitor
- Category deleted (Software)

**#2 - 28 Jul 2017 14:20 - Hammel**

- Category set to Software

**#3 - 29 Jul 2017 15:03 - Hammel**

- Status changed from New to In Progress

- *Priority changed from Normal to Immediate*
- *% Done changed from 0 to 50*
- *Severity changed from 03 - Medium to 04 - Low*

There is now a utility, [imgpio](#) that will read and write to arbitrary GPIO pins using sysfs. This is sufficient to check if a button is pressed or to set/reset an LED if called from a script. It could also be called from a C program via system() or similar.

This utility is built into its own opkg and must be included in the (TBD) new metabuild for IronMan.

This utility still needs to be tested against real hardware, re: a real push button and LEDs.

#### **#4 - 18 Mar 2018 17:04 - Hammel**

- *Status changed from In Progress to Closed*
- *% Done changed from 50 to 100*

This is essentially implemented as a combination of the pair button hardware, the imgpio package that supports the pair button on boot and the imwww package that now includes both a PHP server for configuring the monitor and a REST server (written in nodejs w/restify) that supports both Jarvis voice command and pairing with the IoT devices.

These implementations are still buggy but the basic structure is now in place enough where this issue can be closed. Bugs in the various packages will be tracked separately.