MyController.org

The Open Source Controller

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1.0 Introduction

MyController.org is a controller for MySensors.org. Only focusing for MySensors.org. MyController.org is a light weight Open Source controller.

You can control/monitor various MySensors.org sensors with this controller. As this controller is a web application you can access from mars also if you have internet connection. It has various features like, firmware control for nodes, alarms, timers., etc. For further details dig into each section.

1.1 Technology

MyController.org is Java based web application server.

- Web Server   : [TJWS](#)
- REST-API   : [Jboss RestEasy](#)
- Database   : [H2DB](#)
- Front-end   : [AngularJS](#)

2.0 Installation

2.1 System Requirements

MyController.org server is very lightweight, It required very less resource, considered system resources in mind on development. Even you can run it on Raspberry PI (256 MB RAM) very first model.

Required,

- Disk   : 30 MB
- RAM   : 40 MB
- Java SE   : 1.8 or later

NOTE: Test done up to 5 nodes and 20 sensors with the above configuration.

2.2 Supported Platforms

We can run it in any platform which supports Java. So far it has been tested in the following platforms, Kindly share your success stories on other platforms we can add it here.

- Linux
- Windows
- Raspberry PI (Oracle Java recommend)

2.3 Download

Executable download is available in two formats, zip and tar.gz. You can download suitable compressed flavor for you.

Kindly visit releases page of MyController.org to get latest version.

Releases Page

2.4 Configuration

Extract downloaded bundle where exactly do you want to run. Configuration file is located in mycontroller/conf
File name: mycontroller.properties

2.4.1 Select your gateway

Three type of gateway supported by MyController.org.

- Serial Gateway
- Ethernet Gateway
- MQTT Gateway (Limited Support)

Available Options: `serial, ethernet, mqtt`

Select your preferred gateway by changing the line '`mcc.ethernet.gateway.type=serial`'

2.4.2 Serial Gateway Configuration

```
mcc.serialport.driver.type=auto
mcc.serialport.name=/dev/ttyUSB0
mcc.serialport.baud.rate=115200
```

- **mcc.serialport.driver.type:** Available driver types: pi4j, jssc, jserialcomm, auto. It is recommended to keep in auto. For now jssc driver is not stable with MyController.org
- **mcc.serialport.name :** will vary based on platform and number of ports. Find it on your computer and update
- **mcc.serialport.baud.rate :** by default Serial Gateway uses 115200. If you changed on your setup you have to update your custom value here.

2.4.3 Ethernet Gateway

```
mcc.ethernet.gateway.host=192.168.178.6
mcc.ethernet.gateway.port=5003
mcc.ethernet.gateway.keep.alive.frequency=60
```

- **mcc.ethernet.gateway.host:** Host name/ip of your Ethernet Gateway
- **mcc.ethernet.gateway.port:** Ethernet Gateway port
- **mcc.ethernet.gateway.keep.alive.frequency:** This field is used to monitor Ethernet Gateway. If Connection goes try to reconnect automatically. Value in seconds.

2.4.4 MQTT Gateway

```
mcc.mqtt.gateway.broker.host=192.168.178.6
mcc.mqtt.gateway.broker.port=1883
mcc.mqtt.gateway.broker.root.topic=MyMQTT
```

- **mcc.mqtt.gateway.broker.host:** MQTT Gateway Hostname/IP
- **mcc.mqtt.gateway.broker.port:** MQTT Gateway port
- **mcc.mqtt.gateway.broker.root.topic:** Topic name, Should be same name that we used in MQTT Gateway(MQTT_BROKER_PREFIX)

2.4.5 Database Configuration

```
mcc.h2db.location=../conf/mycontroller
```

You can change default location and file name. File will be stored with the file extension .h2.db. Do not add file extension.

2.4.6 Web server configuration

```
enable.https=true
http.port=8443
ssl.keystore.file=../conf/keystore.jks
ssl.keystore.password=password
ssl.keystore.type=JKS
```

- **enable.https:** Enable/disable https. Only one protocol supported at a time.
- **http.port:** Port number you want to access MyController.org server
- **ssl.keystore.file, ssl.keystore.password, ssl.keystore.type:** If https is enabled these fields are mandatory.

Default URL: https://<ip>:8443 (ex: https://localhost:8443)
Note: *Default username/password:* admin/admin

Important: Change default ssl.keystore.file and ssl.keystore.password and https protocol is recommended

2.4.7 Logger configuration

Configuration File Name: `logback.xml`
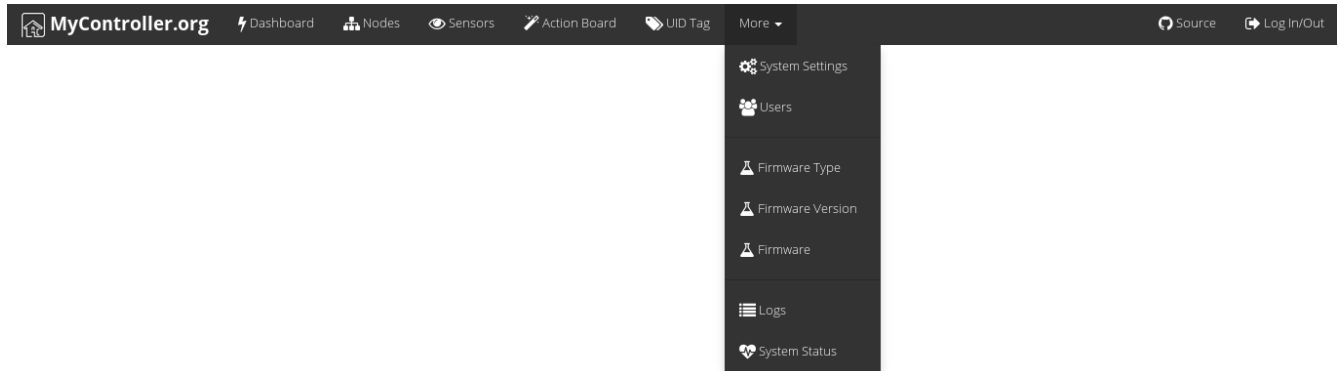Default log file location: `logs/mycontroller.log`

2.4.8 Start/Stop Server

Executable scripts are located in mycontroller/bin/

- Linux
  - Start   : `./start.sh`
  - Stop   : `./stop.sh`

- Windows

- Start : Double click on start.bat
- Stop : Ctrl+C

- Other Platforms
  - navigate to 'mycontroller/bin/'
  - java -Xms8m -Xmx40m -Dlogback.configurationFile=../conf/logback.xml
    -Dmc.conf.file=../conf/mycontroller.properties -jar
    ../lib/mycontroller-standalone-0.0.1-single.jar

2.5 Menus

3.0 Nodes and Sensors

3.1 Nodes

Nodes

Node Id	Name	Type	Version	MySensors Version	Battery Level (%)	Firmware	
3	Water Level Sensor Node	S_ARDUINO_REPEATER_NODE	0.0.2	1.5	-		

First ‹ 1 › Last

Under this page you can see node information's like, Node Id, Node Name, Node Type, Firmware Version, MySensors Version, Battery Level, Assigned firmware.

3.1.1 Auto Discover

Nodes will be added in to MyController.org when you restart your nodes. Also created an entry for node when we receive a sensor data from any node.

3.1.2 Add Manually

Navigate to node page, by clicking ⊕ icon on top of right side corner of the node table you can add new node.

3.1.3 Reboot

Click on the icon ⟲ Then confirm Reboot. Selected node will be rebooted.

3.1.4 Erase EEPROM

Click on the icon ◢ and confirm. Selected node configuration will be erased.

NOTE: 'Erase EEPROM' supports only if your node running with MYSBootloader

3.1.5 Edit

If you thing you want to change node name, type, version etc., click on the icon ☑ and follow the pop-up screen.

3.1.6 Delete

By clicking the icon 🗑 of selected node, you can delete that node from MyController.org.

Note: Deletion node will delete all the data relevance to that node. We cannot recover it back.

3.1.7 Mapping Firmware

Update Node

Node Id:	1
Name:	Dining Hall
Node Type:	S_ARDUINO_REPEATER_NODE ▼
Version:	0.0.1
MySensors Version:	1.5
Firmware:	DiningHall:0.0.1 ▼

-- Choose Firmware --
Water Level Sensor Node:0.0.2
On First Run:0.0.1
Motor Controller:0.0.1
DiningHall:0.0.1

Note: Node data will b ____ *ned above*

te ✖ Cancel

Before doing this action, firmware should be added in MyController.org. Refer **6.0 Firmware**

3.1.5 Edit and set firmware. To update in to selected node perform **3.1.3 Reboot**

3.2 Sensors

Navigate to sensors Page. In this page you see sensor details like Node Id, Sensor Id, Name, Type, Variable Type, Last seen. You can add, edit and delete sensors from here.

3.2.1 Add Sensor

We can add sensors in two methods, via node and manually. If node sends any data related to sensors and if the sensor detail is not available in MyController.org new sensor will added automatically.

To add new sensor manually click on the icon ⊞ follow pop-up screen.

Note: If MyController.org receives any data related to sensor that you have added already will be overwritten.

3.2.2 Edit Sensor

You can edit sensor details by clicking icon you 📝 can update sensor Name, Type and variable type.

3.2.3 Delete Sensor

By clicking the icon 🗑 of selected sensor will be deleted permanently.

Note: Deletion sensor will delete all the data relevance to that sensor. We cannot recover it back.

3.2.4 Filter

Two types of filters are available.

1. Filter by Node, Select particular node to filter by node. 2. Filter by text, on left top of table sensors will be filtered.

4.0 Action Board

Water Level Sensor Node:Tank

Node: 3, Sensor: 1, Type: S_WATER / V_VOLUME
Last seen: Sep 14, 2015 3:20:52 PM   **76.0 %**
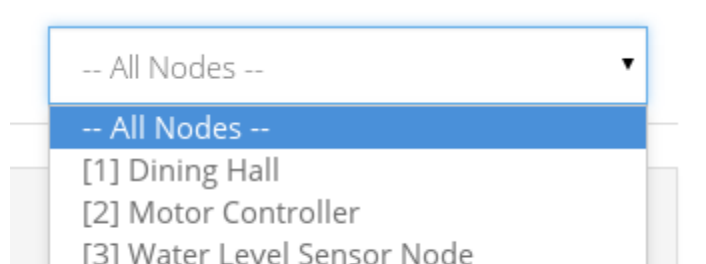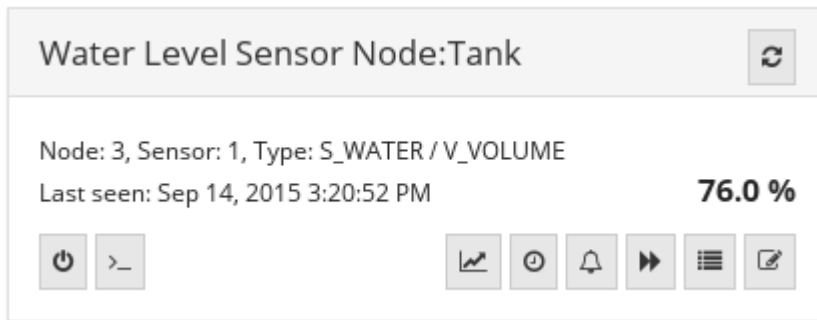
Action board is a very important page of MyController.org. After your initial setup you will spend most of the time here. All the sensor related actions and monitoring will be performed on this page.

4.1 Filter

We can filter sensors by two options. By node and by text

4.1.1 By Node

-- All Nodes --

-- All Nodes --
[1] Dining Hall
[2] Motor Controller
[3] Water Level Sensor Node
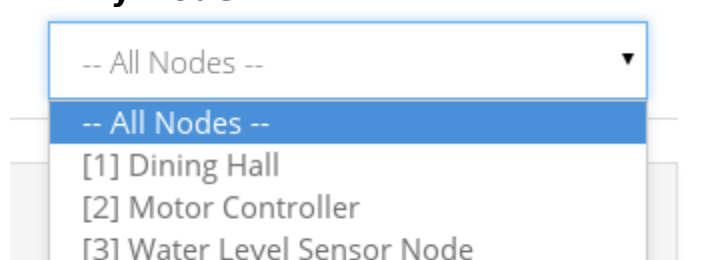
Click on "-- All Nodes --" drop down and select your favorite node. Sensors will be displayed only on that node.

4.1.2 By Text

Suppose you want to filter only switch type sensors, type status on filter box.

4.2 Refresh

Particular Sensor data will be refreshed by clicking refresh icon ⟳ on right side top corner of the action board.

4.3 ON/OFF

⏻ ON will send payload '1' and OFF will send payload '0'. Check the current status and proceed.

4.4 Send Payload

You may want to send payload other than 1 and 0. in that case you have to use send payload option. Click on the icon >_ you will get pop-up.

Send Payload to Water Level Sensor Node:Tank

Payload:

76

Slider:

☁ Send   ✖ Cancel

You can specify any number, string or anything then click on "Send" button. That's it you data will be sent to your sensor.

If you want use slider check on "Slider" check box it will allow you send only 0 to 100 number. This is mainly used for dimmers. When you release slider tracking button data will be sent immediately.

4.5 Graphical Report

MyController.org supports four type of duration's in graph.
1. Last 1 hour
2. Last 24 hours
3. Last 30 days
4. All available data

For switch type sensors there is no aggregation performed hence data will be shown as is. But other than switch type data (example: temperature, voltage, current, etc.,) will be aggregated stored. For last 1 hour data - 1 minutes interval, last 24 hours – 5 minutes interval, last 30 days – 1 hour interval, and all available data – 1 day interval.
Clicking on the icon 📈 you see graphical report of the sensor.

4.5.1 Last 1 hour report

Last one hour (1 minute interval)

| | ●Minimum ●Average ●Maximum |

76.76
76.50

15:08
■ Minimum 76.00
■ Average 76.00
■ Maximum 76.00

76.00
75.50
75.24

15:08   15:16   15:25   15:33   15:41   15:50   15:58

4.5.2 Last 24 hours

Last 24 hours (5 minutes interval)

07:24
Minimum 80.00
Average 80.80
Maximum 81.00

4.5.3 Last 30 days

Last 30 days (1 hour interval)

07-Sep 10:00
Minimum 44.00
Average 44.91
Maximum 45.00

4.5.4 All available data

All available data (1 day interval)

05-Sep-2015
Minimum 47.00
Average 56.87
Maximum 63.00
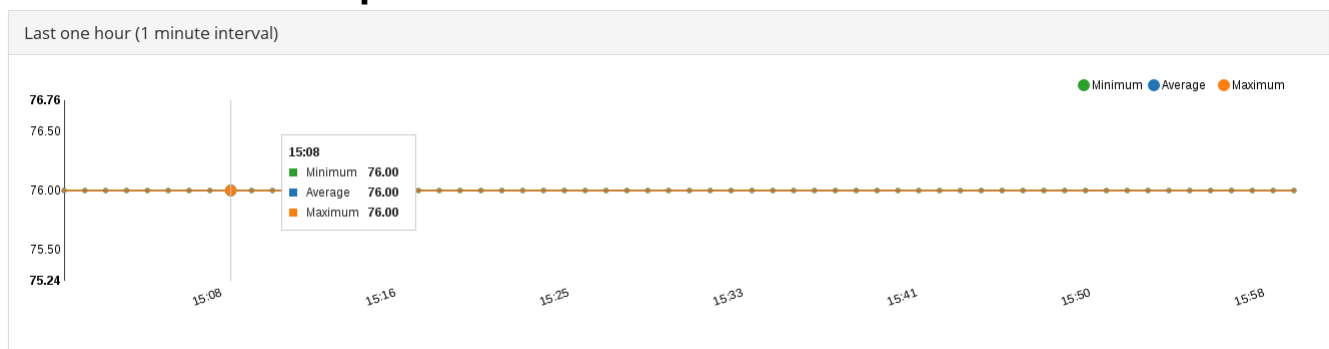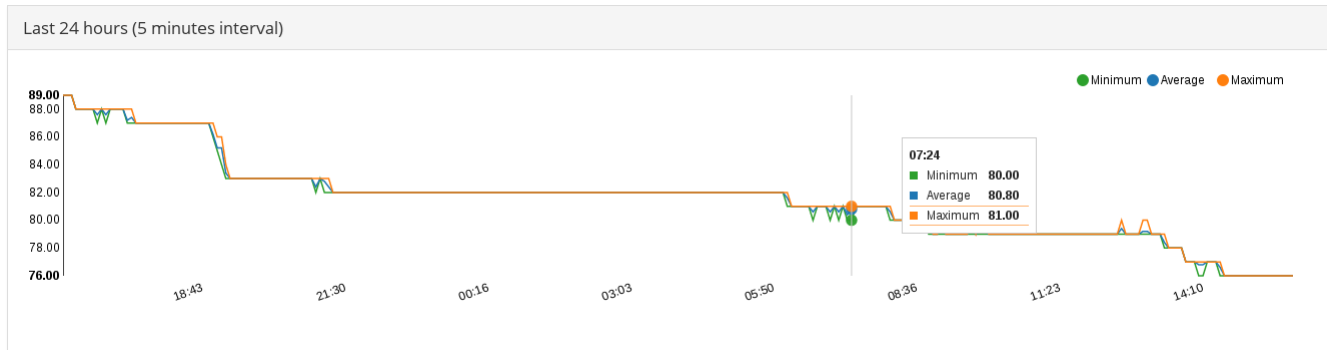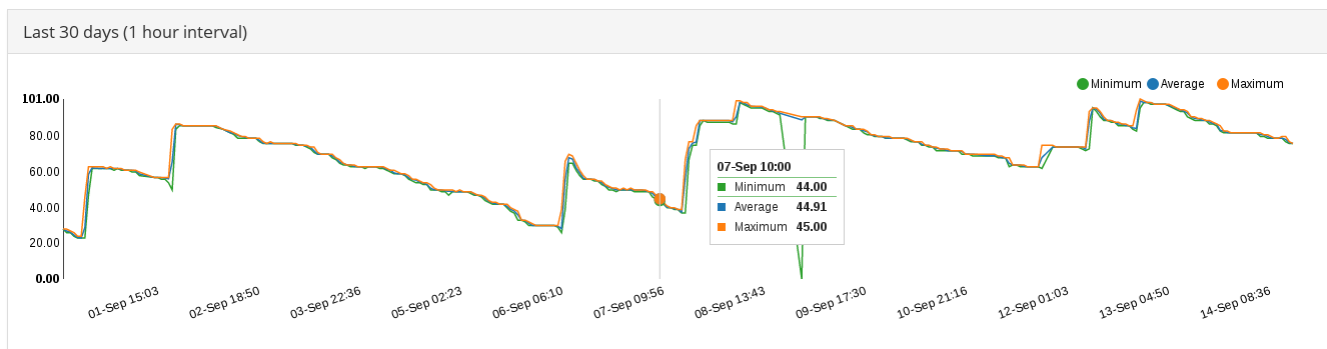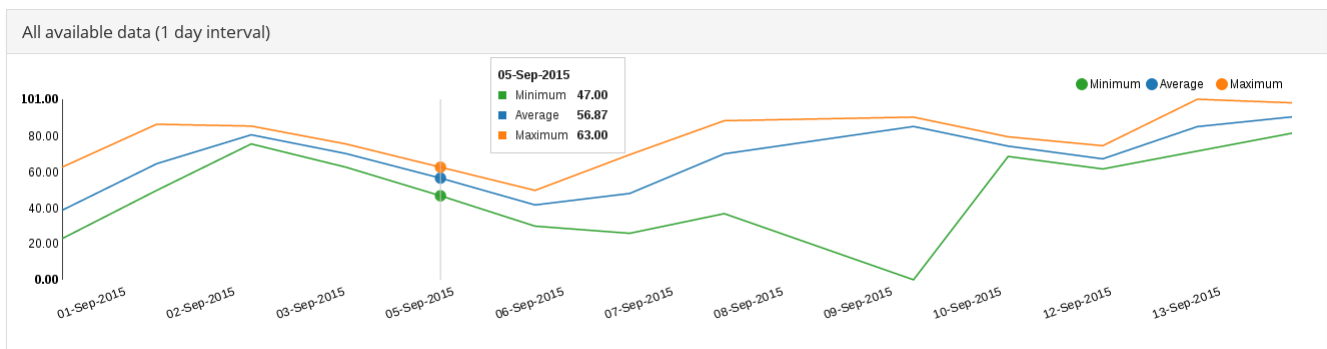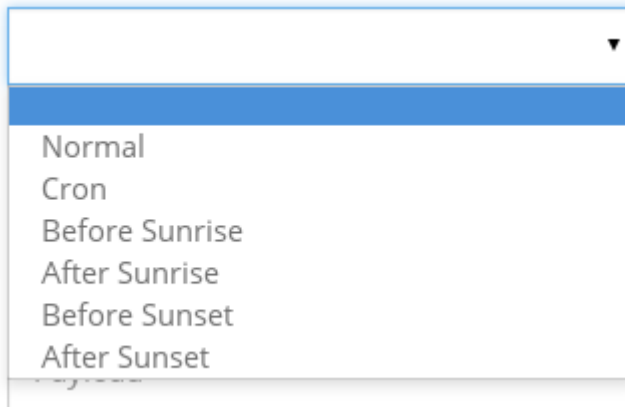
4.6 Timer

With the timer you can schedule your sensors task and you can forget about that sensors. Different types of timers are supported by MyController.org. **You can schedule a timer till seconds.** *Means you can schedule a task for time 21:45:23 like that.*

By Clicking ⊙ icon you will be taken to timer page for that particular sensor. Once you have entered in to timer page you can add any number of new timers by clicking ⊞ on icon

Type: [_____ ▼]

Normal
Cron
Before Sunrise
After Sunrise
Before Sunset
After Sunset

4.6.1 Normal

Normal is a very basic and classic timer. You can select "Normal" in the type drop down.

4.6.2 Cron

Cron is for advanced configuration. It is simple and easy. After selected "Cron" if you put cursor on cron expression text box, you will get pop-up with detailed tips. Here we are using quartz-scheduler cron tab, visit [Quartz-Scheduler](#) page for further detailed configuration

Note: *Quartz-Scheduler* cron supports from seconds.

4.6.2 Before Sunrise, After Sunrise, Before Sunset and After Sunset

If your task based on Sunrise and Sunset you have to go with this option. Say you want to control your garden light based on your sun rise and sun set time. You can use this option.

4.6.3 Frequency

3 types of frequencies supported by MyController.org

1. Daily – you can select all the 7 days or day(s) only you want to run
2. Weekly – Select a day in week
3. Monthly – Select a day in month

4.6.4 Time

```
Time format: HH:mm:ss
HH – hour in 24 hours format (0~23)
mm – minutes (0~59)
ss – seconds (0~59)
```
Note: *For sunrise and sunset options "Time" will react differently. If you select After Sunrise and After Sunset time will be added with "Time" mentioned in task + "Sunrise" or "Sunset" time. If you select "Before Sunrise or Before Sunset" "Time" mentioned in task will be subtracted from actual "Sunrise or Sunset" time.*

4.6.5 Payload

Set payload for that timer. When your timer triggers payload entered here will sent to selected sensor.

4.6.6 Validity

You may feel you do not want to run this job all the time and want to run only on particular window period. In that case you can select validity. You can select "Validity From" and "Validity To" or only either or nothing. If you do not select any validity that job will be treating like never end. If you select only "Validity From" job will run from that date and never end. If you select only "Validity To" that job will start immediately and will end on the specified date.

4.6.7 Delete

You can delete your timer at anytime by clicking on 🗑 icon.

Note: There is no option to edit your timer, if you thing you want to edit delete your timer first and recreate newly with your changes.

4.7 Alarm

To get alarm page click on the icon 🔔 . With alarm feature you can control your sensors or you can get notified. Once you have entered in to alarm page you can add any number of new alarms by clicking on icon ⊞

4.7.1 Conditions

Alarm supported for >, >=, <, <=, = and != you can select one of option from drop down. Threshold value will be anything integer, string or double.

Note: for ON/OFF device 0 and 1 should be a threshold value. If you enter ON or OFF will treat as string and it never fire.

Ignore Duplicate: By default Ignore Duplicate will be enabled. It means if you receive same data again and again do not trigger alarm again and again. But for some cases which is required, in that case you have to uncheck "Ignore Duplicate".

Dampening: With dampening you can control your alarm, Three modes are available in dampening.

1. None
2. Consecutive
3. Last N Evaluations

None: If you select "None", alarm will triggers on first occurrence.
Consecutive: On this mode threshold data should receive continuously on X time(s), if it happens alarm will triggers.
Last N Evaluations: On this mode you can specify number of evaluations and number of hits. Based on this alarm will triggers.

4.7.2 Notifications

Three types of notifications are supported by MyController.org alarm.

- SMS
- Email
- Send Payload

SMS: For SMS MyController.org is using [Plivo SMS API](). When you create trail account you will get some credit. To use SMS notifications you should configured Plivo SMS API settings under "System Settings". Give destination numbers with '+' with country code then mobile number without any space. If you want to give more than one number use comma(,)

Email: You can specify email address(s) with comma separated.

Send Payload: this is powerful mode. Using this mode you can control self/other sensor directly by send payload when specified alarm triggers.

4.7.2 Edit

You can edit alarm details by clicking icon 📝 then you can update.

4.7.3 Delete

By clicking the icon 🗑 of selected alarm will be deleted permanently.

4.8 Forward Payload

By clicking icon ⏩ you will get in to forward payload page.

You can forward the data received by this sensor to another sensor directly without any condition. This will be useful when you want to send your sensor date to multiple sensors. No need to do any code change on sensor side. Simply add an entry in MyController.org and be happy MyController.org will take care.

4.9 Logs

By clicking icon you will get in to logs page.
In this page you can understand whats going on about a particular sensor.

4.10 Edit

By clicking icon you will get in to Edit pop-up.
You can add/modify sensors unit here.

5.0 UID Tag

Do you want to control all the sensors from one sensor? for this you have to remember each node id and sensor id and you have to add tones of Arduino code in a control sensor which is very difficult for you? To make life easier MyController.org has UID Tag support. *Unique Identification Tag* for each sensor. With this UID Tag you can assign unique ID for each sensor and you can forget actual node and sensor id :)

Click on the icon ⊞ you can add new UID for a sensor. You will get a pop-up to enter sensor and UID details. You can assign any number, but should be unique. Only one number per sensor.

5.1 Arduino code structure

To use this UID Tag feature you should do some minimal code in MySensors node. From a node you can control all other sensors with UID.

Use case: You can assign unique id's all the switches in your home and from a node you can control either remote control or key pad.

UID tags struct in MySensor (Arduino) code.

```
typedef struct {
    uint16_t uid;
    uint16_t status;
    uint16_t payload;
} UID_STRUCT;
```

uid   : unique id that you created in MyController.org
status   : whether you want to query or you want to send payload?
Payload : set payload

5.1.1 Query Payload

To query a sensor status with UID, "status" should be 0.

```
gw.present(SEN_UID_ID, S_CUSTOM , "UID Sensor");
MyMessage msg(SEN_UID_ID, V_VAR5);
UID_STRUCT uid;

uid.uid = 100;
uid.status = 0; //Query
uid.payload = 0;

gw.send(msg.set(&uid, sizeof(UID_STRUCT))); //Query status from MyController.org

//Receive response from MyController.org
void incomingMessage(const MyMessage &message) {
   if (message.sensor == SEN_UID_ID) {
      uint8_t bvalue[sizeof(UID_STRUCT)];
      setHexValue(bvalue, message.getString());
      memcpy(&uid, &bvalue, sizeof(UID_STRUCT));
   }
}
```

```
//-------------- Other methods in above reference code -----------------
void setHexValue(uint8_t bvalue[], const char *stringHex) {
    uint8_t blen = 0;
    uint8_t val;
    while (*stringHex) {
        val = h2i(*stringHex++) << 4;
        val += h2i(*stringHex++);
        bvalue[blen] = val;
        blen++;
    }
}

uint8_t h2i(char c) {
    uint8_t i = 0;
    if (c <= '9')
        i += c - '0';
    else if (c >= 'a')
        i += c - 'a' + 10;
    else
        i += c - 'A' + 10;
    return i;
}
//----------------------------------------------------------------------
```

5.1.2 Send Payload

To send payload you have to follow the same code mentioned in Query Payload, only one modification you have to do is

uid.status = 1; // Send Payload

and you have to set Payload

uid.payload = 20;

uid.status = 0
- When you send from node it will be considered query mode.
- When you receive from MyController.org which means specified uid is not available in MyController.org.

uid.status = 1
- When you send from node it will be considered set payload mode
- When you receive from MyController.org, specified uid is available in MyController.org and *uid.payload* is sent successfully to the specified UID.

6.0 Firmware

You can control node firmware with the help of MYSBootloader

What you can do?
- Upload new firmware
- Change existing firmware to new latest
- Maintain nodes firmware up to date

6.1 Adding Firmware

By clicking More ▾ on top menu you can see list of options for firmware.

6.1.1 Add Firmware Type

Id ━	Type Name ━	
1	Water Level Sensor Node	✎ 🗑
2	On First Run	✎ 🗑
3	Motor Controller	✎ 🗑
4	DiningHall	✎ 🗑

Click on 🧪 Firmware Type you will get firmware type page. Clicking ⊞ you can add new firmware type.

Note: *Id for the firmware type will be generated automatically. If you leave blank 'Type Id' field.*

6.1.2 Add Firmware Version

Id ━	Version ━	
1	0.0.1	✎ 🗑
2	0.0.2	✎ 🗑

Click on 🧪 Firmware Version you will get firmware version page. Clicking ⊞ you can add new firmware version. While adding firmware version you can leave 'Version Id' as blank. Id will generated automatically. If you have any requirement for specified id add it.

Note: *Id for the firmware version will be generated automatically. If you leave blank 'Version Id' field.*

6.1.3 Add Firmware

Type ━	Version ━	Blocks ━	CRC ━	Uploaded On ━	
Water Level Sensor Node	0.0.2	776	2422	Sep 11, 2015 12:54:25 PM	✎ 🗑
On First Run	0.0.1	640	8748	Sep 3, 2015 10:35:02 AM	✎ 🗑
Motor Controller	0.0.1	1520	16357	Sep 12, 2015 7:09:41 AM	✎ 🗑
DiningHall	0.0.1	1200	49255	Sep 12, 2015 10:51:43 AM	✎ 🗑

Click on 🧪 Firmware you will get firmware page. Clicking ⊞ you can add new firmware. Select Firmware type and version from the pop-up and select .hex from your local computer. Finally click Add. Your firmware is ready for action.

7.0 Users

You can manage users under users page.
By clicking [More ▾] on top menu you can see [👥 Users]

7.1 Manage Users

You can perform add edit delete options in users page.

⊞ - Add new user

✎ - Edit User

🗑 - Delete user

Note: *To change your logged in user password navigate to users page and click edit and update password. Once password updated successfully, GUI will throws error, you should Sign Out and Sign In again.*

8.0 Logs

To reach Logs page, click on [More ▾] and click on [☰ Logs]

In this page all the logs will be shown from gateway/sensors.

Time ⌄	Type ▬	Status ▬	Log ▬
Sep 15, 2015 9:04:52 AM	Sensor Internal	Sent	[I_CONFIG], [NodeId:3, SensorId:255, PayLoad: M]
Sep 15, 2015 9:04:52 AM	Sensor Internal	Received	[I_CONFIG], [NodeId:3, SensorId:255, PayLoad: 0]
Sep 15, 2015 9:04:52 AM	Sensor Presentation	Received	[S_ARDUINO_REPEATER_NODE], [NodeId:3, SensorId:255, PayLoad: 1.5]
Sep 15, 2015 9:04:51 AM	Sensor Stream	Sent	[ST_FIRMWARE_CONFIG_RESPONSE], [NodeId:3, SensorId:255, PayLoad: 0100020008037609]
Sep 15, 2015 9:04:51 AM	Sensor Stream	Received	[ST_FIRMWARE_CONFIG_REQUEST], [NodeId:3, SensorId:255, PayLoad: 01000200080376090101]
Sep 15, 2015 9:04:50 AM	Sensor Internal	Sent	[I_REBOOT], [NodeId:3, SensorId:255, PayLoad:]
Sep 15, 2015 9:04:36 AM	Sensor Internal	Received	[I_GATEWAY_READY], [NodeId:0, SensorId:0, PayLoad: Gateway startup complete.]
Sep 15, 2015 9:03:52 AM	Sensor	Sent	Motor Controller:Display, [NodeId:2, SensorId:1, PayLoad: 70]
Sep 15, 2015 9:03:52 AM	Sensor	Received	Water Level Sensor Node:Tank, [NodeId:3, SensorId:1, PayLoad: 70.0]
Sep 15, 2015 9:02:52 AM	Sensor	Sent	Motor Controller:Display, [NodeId:2, SensorId:1, PayLoad: 70]

9.0 System Status

To reach this page, click on `More ▾` and click on `System Status`

You can see more information's about your current system.

Operating System:

Operating System	Linux
Architecture	arm
Version/Kernel	3.18.6-v7+
Available Process	4
System Load Average	72.00 %
System Cpu Load	0.00 %
Process Cpu	Load: 0.00 %, Time: 1858720 milliseconds
Physical Memory (RAM)	Free: 486 MB, Total: 974 MB
Swap Space	Free: 199 MB, Total: 199 MB
Committed Virtual Memory Size	145 MB
User working directory	/root/mycontroller/bin

Java Virtual Machine Specification:

Java Home	/root/jdk1.8.0_60/jre
Java Vendor Url	http://java.oracle.com/
VM Name	Java HotSpot(TM) Client VM
VM Vendor	Oracle Corporation
VM Version	25.60-b23
Specification Vendor	Oracle Corporation
Specification Version	1.8
Management Specification Version	1.2
Up Time	1 day 11 hours 24 minutes 59 seconds
Heap Memory	Used: 26 MB, Committed: 32 MB, Init: 8 MB, Max: 38 MB
Non Heap Memory	Used: 19 MB, Committed: 20 MB, Init: 0 MB, Max: n/a
Threads Count	Current: 30, Peak: 31, Total started: 2170, Daemon: 14
Class Loading Details	Loaded: 4527, Unloaded: 57, Total loaded: 4584
Garbage Collector - Copy	Collection time: 3224, Collection count: 204, Last GC duration: 27
Garbage Collector - MarkSweepCompact	Collection time: 1503, Collection count: 6, Last GC duration: 347

10.0 System Settings

To reach this page, click on [More ▾] and click on [⚙ System Settings]

10.1 Sunrise/Sunset

⚙ Sunrise/Sunset:

City Latitude	11.2333	✏
City Longitude	78.1667	✏
Sunrise Time	Sep 15, 2015 06:07:00 AM	
Sunset Time	Sep 15, 2015 06:18:00 PM	

Sunrise and Sunset time is used in **4.6 Timer** you should set Latitude and Longitude of your location to get proper Sunrise/Sunset time.

10.2 Node Defaults

⊟Node Defaults:

Auto Node Id (MySensors)	2	✏
Default Firmware	On First Run:0.0.1	✏
If requested firmware is not available, redirect to default	false	✏

10.2.1 Auto Node Id

Auto Node Id is used to assign node id for MySensors nodes. You can update current reserved id, if you set 0 it will start from 1 and so.
Also you can know the status of assigned id from this location.

10.2.2 Default Firmware

Default Firmware will be used on first run of MySensors node. You should add your default **6.0 Firmware** and you can select it here.

10.2.3 Requested firmware absences

When a node request some firmware version and which is not available in MyController.org. That time if you want to redirect to default firmware set this option as 'true'

10.3 Plivo SMS Gateway

⬚ Plivo SMS Gateway:

Auth Id	MA_____	✏
Auth Token	*****	✏
From phone number	+91_____	✏

Create an account in [Plivo](#) and update details here. This will be used to send SMS.
Trail account is available with some free credit as on September 2015.

10.4 Email Gateway

✉ Email Gateway:

SMTP Host	smtp.gmail.com	✏
SMTP Port	465	✏
From address	_____@gmail.com	✏
Username	_____@gmail.com	✏
Password	*****	✏
Enable SSL	true	✏

You can update any SMTP email gateway here. This will be used to send email notifications.

10.5 Units/Version Information

In this block you can see what is default units will be assigned and version information of MyController.org

☆ Units:

Temperature	°C	
Distance	cm	
Percentage	%	

⑂ Version:

MC Version	0.0.2-alpha2	
Database Schema Revision	3	

11.0 Log In/Out

To Log In and Log Out you have to click ⮐ Log In/Out you will be redirected to Log In page

🔒 **Authentication Required**

Username 👤

Password 🔑

⇥ Log in

12.0 Source Code

MyController.org is Open Source project. You can contribute/download source code on [Github repository](#)

12.1 Issue management

Do you want to file issues or new request/enhancement?
You are welcome to **Github Issues page**

12.2 License

```
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