








Inputs

[Input API Help](#)

Node	Key	Name	Process list	Updated	Value
10	HEM			32s	0   
10	Total			32s	0   

192.168.54.3/cmh/#develop_app x Emoncms - input view x +

No seguro | 192.168.54.3/cmh/#develop_apps



0584D

Develop apps

Test Luup code (Lua)

Edit Startup Lua

Luup files

Serial Port configuration

Create device

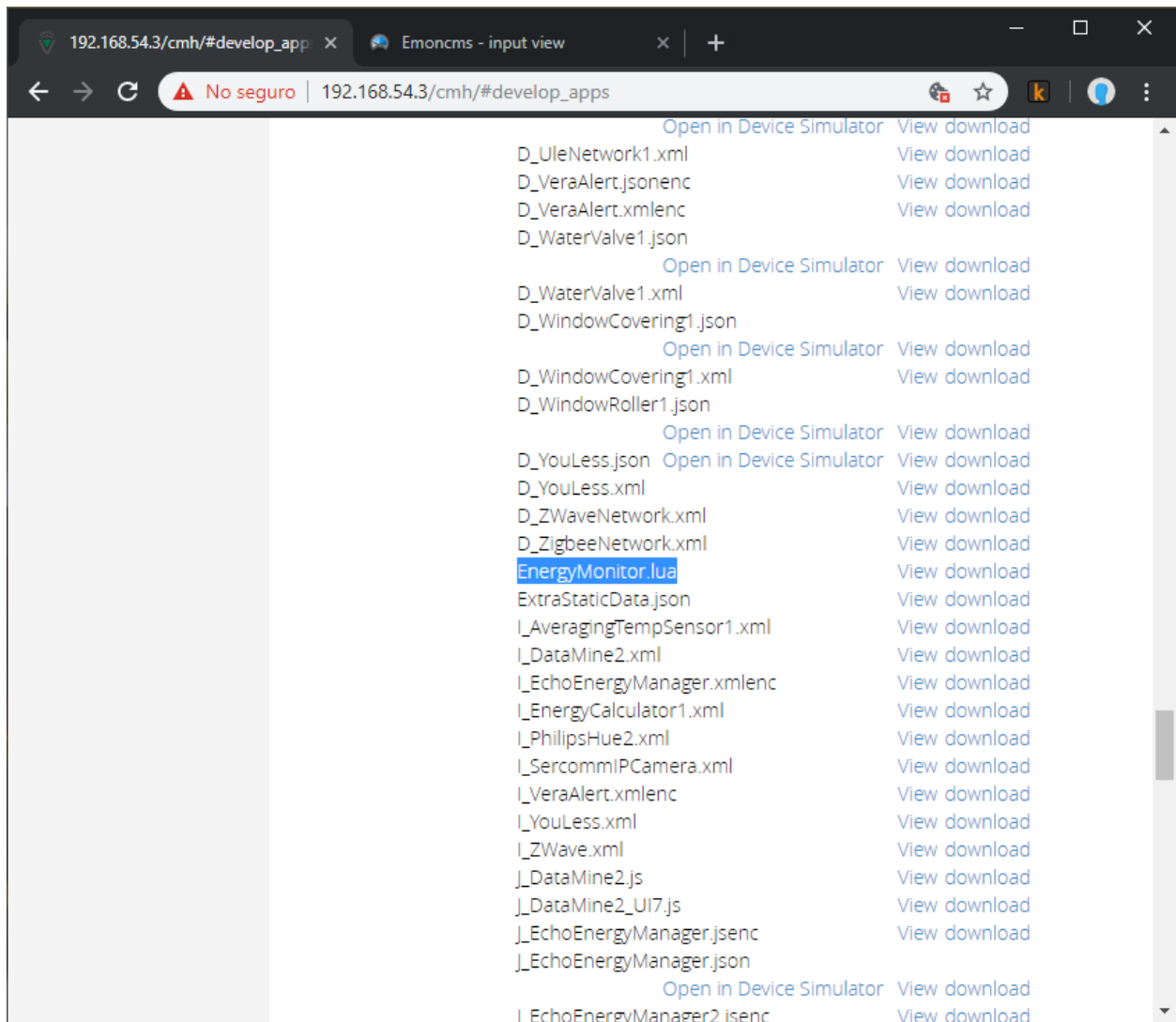
Device Simulator (based on JSON)

Code:

```
require("EnergyMonitor.lua")
```






GO

- Dashboard >
- Devices >
- Cameras >
- Scenes >
- Energy +
- Settings +
- Apps -**
 - My apps >
 - Install apps >
 - Develop apps >**
- Users & Account +
- Info




192.168.54.3/cmh/#devices Emoncms - input view

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-  Home Energy Monitor
Watts: 420.901 KWH: 330.9920
-  Home Energy Monitor
Watts: 263.200 KWH: 1699.0100
-  Home Energy Monitor
Watts: 1974.674 KWH: 1998.8980
-  Smoke & CO Senso
96% 
 ARMED

192.168.54.3/cmh/#devices Emoncms - input view

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Dashboard >

Devices >

Cameras >

Scenes >

Energy +

Settings +

Apps +

Users & Account +

Info

Services +

Logout x

[Redacted] 0584D

Control Back

device #22

Automatically configure Use default behavior

Variables

ID7
Poll this node at most once every seconds (0=never poll, blank=default)

Save Changes

Energy used:

Save Changes

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Devices

- Cameras
- Scenes
- Energy
- Settings
- Apps
- Users & Account
- Info
- Services
- Logout

device #22

Params Variables New service Commands

name	Home Energy Monitor
device_type	urn:schemas-micasaverde-com:device:Pow
altid	7
ip	
mac	
manufacturer	Aeon Labs
model	DSB28
id_parent	1
<input checked="" type="checkbox"/> embedded	
<input checked="" type="checkbox"/> disabled	
<input checked="" type="checkbox"/> restricted	
device_file	D_PowerMeter1.xml
id	22

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id_parent	1
<input checked="" type="checkbox"/> embedded	
<input checked="" type="checkbox"/> disabled	
<input checked="" type="checkbox"/> restricted	
device_file	D_PowerMeter1.xml
id	22
impl_file	
time_created	1503806548
subcategory_num	0
pnip	2163
category_num	21
poll	1558578128-1,1558578219-1,1558578309
onDashboard	1
room	3
device_json	D_PowerMeter1.json
local_udn	uuid:4d494342-5342-5645-0016-000002fb

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Smarter Home Control

- Dashboard >
- Devices >**
- Cameras >
- Scenes >
- Energy +
- Settings +
- Apps +
- Users & Account +
- Info
- Services +
- Logout x

Control Back

device #22

Params Variables New service Commands

Capabilities	211,156,0,4,49,1,L,R,B,RS, 50:3,86,96:3,112	Edit
ManufacturerInfo	134,2,28	Edit
VersionInfo	3,3,67,1,17	Edit
VariablesSet	101-Report 1,4d,6927,102-Report 2,4d,15,103-Report 3,4d,0,111-Report 1 Interval,4d,60	Edit
Documentation	http://wiki.mios.com/index.php/Aeon_Hom	Edit
Documentation	http://wiki.mios.com/index.php/Aeon_Hom	Edit
Configured	1	Edit
NodeInfo	32 56,60 70 72 85,86	Edit

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No seguro | 192.168.54.3/cmh/#devices

CommFailureAlarm	1555616907,0	Edit
MultiChSensType		Edit
ConfiguredAssoc		Edit
Watts	420.901	Edit
Log	420,420,420,1558582200,1	Edit
ActualUsage	1	Edit
KWH	330.9780	Edit
KWHReading	1558582241	Edit
VariablesGet	101,6927,102,15,103,0,111,60,	Edit
ConfiguredVariable	101-Report 1,4d,6927,102-Report 2,4d,15,103-Report 3,4d,0,111-Report 1 Interval,4d,60	Edit
LastUpdate	1558580106	Edit
FirstConfigured	1503806553	Edit
Neighbors	1,4,5,6,8,	Edit

192.168.54.3/cmh/#devices Emoncms - input view

No seguro | 192.168.54.3/cmh/#devices

Read about the custom options for this particular device

Device Options

Update Neighbor Nodes

Configuration settings

Variable	Data Size	Desired Value	Current Value	
<input type="text" value="101-Report 1"/>	4 byte dec	<input type="text" value="6927"/>	<input type="text" value="6927"/>	<input type="button" value="X"/>
<input type="text" value="102-Report 2"/>	4 byte dec	<input type="text" value="15"/>	<input type="text" value="15"/>	<input type="button" value="X"/>
<input type="text" value="103-Report 3"/>	4 byte dec	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="button" value="X"/>
<input type="text" value="111-Report 1 Interval"/>	4 byte dec	<input type="text" value="60"/>	<input type="text" value="60"/>	<input type="button" value="X"/>

Warning: Altering or deleting the configuration settings can make your device unresponsive. Please modify them if you know what you are doing or consult the device manual before doing it.

Note: To modify the default values for Variable and Desired Value fields change the value in the input box and click Save Changes below. You can't rename or delete variables that are provided by device.

Associations

You must leave *automatically configure* on before this works

Group ID:

```

module("EnergyMonitor", package.seeall)

-- Setup your account at http://emoncms.org/
-- See API documentation at http://emoncms.org/input/api

-- API Key
local API_KEY = "REMOVED"

-- Setup your devices here. You can use a function to calculate the
power as illustrated in the sample.
-- For device logging, use: key, deviceId, serviceId, serviceVar
-- For function based logging, use: key, calculate, serviceVar

-- { key='Computer', calculate=function() return
(IsComputerPingSensorTripped() and 38 or 1) end, serviceVar="Watts"
}, -- Send variable value
-- { key='Other', calculate=function() return 15 end,
serviceVar="Watts" } -- Send a constant value

local VARIABLES = {
    { key="HEM", deviceId=7, serviceId="urn:micasaverde-
com:serviceId:EnergyMetering1", serviceVar="KWH" }, -- Send device
energy
    --{ key='PoolFilterSwitch', deviceId=7, serviceId="urn:upnp-
org:serviceId:SwitchPower1", serviceVar="Status"}, -- Send switch
status
    --{ key='FrontTemp', deviceId=7, serviceId="urn:upnp-
org:serviceId:TemperatureSensor1", serviceVar="CurrentTemperature"},
-- Send Temperature
    --{ key='FrontHumidity', deviceId=7,
serviceId="urn:micasaverde-com:serviceId:HumiditySensor1",
serviceVar="CurrentLevel"}, -- Send Humidity
    --{ key='FrontLight', deviceId=7, serviceId="urn:micasaverde-
com:serviceId:LightSensor1", serviceVar="CurrentLevel"} -- Send Light
Level
}
-- Add the following to your Vera's Startup Lua (without the
preceding dashes) to run the logging on every Vera restart
-- emoncode = require("EnergyMonitor")
-- emoncode.EnergyMonitorOnTimer()

local NODE_ID = 10
local TOTAL_KEY = 'Total'

-- Upload Frequency in seconds
local updateInterval = 60

-- Log debug messages
local DEBUG = true

```

```

-- You shouldn't need to change anything below this line --

local http = require('socket.http')
http.TIMEOUT = 3

local BASE_URL = "http://emoncms.org/input/post.json?apikey=" ..
API_KEY
local Log = function (text) luup.log('EnergyMonitor Logger: ' ..
(text or "empty")) end
local lastFullUpload = 0

local items = {} -- contains items: { time, deviceId, value }

local function StartCallbackTimer(interval)
    luup.call_delay("EnergyMonitorOnTimer", interval or
updateInterval, nil)
end

local function InitWatch()
    StartCallbackTimer(1)
end

local function AddKeyValuePair(key, value)
    local item = string.format("%s:%s", key, tostring(value))
    items[#items + 1] = item
end

local function SerializeData()
    local dataText = "{" .. table.concat(items, ",") .. "}"
    return dataText
end

local function ResetData()
    items = {}
end

local function SendData()
    local data = SerializeData()
    ResetData()

    local parameters = "&node=" .. tostring(NODE_ID) .. "&json=" ..
data
    local url = BASE_URL .. parameters
    if (DEBUG) then Log("Updating with: " .. parameters) end
    http.request(url)
end

local function AddAllVariablesAndTotal()

```

```
    local total = 0
    for i, v in ipairs(VARIABLES) do
        local value
        if v.deviceId then
            value = luup.variable_get(v.serviceId, v.serviceVar,
v.deviceId)
        elseif v.calculate then
            value = v.calculate()
        end
        value = tonumber(value) or 0
        if v.serviceVar == "Watts" then
            total = total + value
        end
        AddKeyValuePair(v.key, value)
    end
    AddKeyValuePair(TOTAL_KEY, total)
end

function EnergyMonitorOnTimer()
    StartCallbackTimer()
    AddAllVariablesAndTotal()
    SendData()
end

_G.EnergyMonitorOnTimer = EnergyMonitorOnTimer
InitWatch()
```