

# ADLINK SEMA

## **SEMA Dashboard Installation Guide**

**Platform: Ubuntu 12.04.5 x86\_64 LTS**  
**(rev. 1.0)**

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## Revision History

Revision	Date	Changes
1.00	2015/07/28	Initial release
1.01	2015/07/29	Add §4 Configure SEMA Dashboard

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# 1 Prerequisites

Get network ready.

Download installation programs:

- `install.sh`
- `semamgr-0.1.3.deb`

# 2 Start up installation program

First, make the install script `install.sh` executable:

```
chmod +x install.sh
```

Then, run the install script as root:

```
sudo ./install.sh semamgr-0.1.3.deb
```

The installation program will also create a Mongo DB on port 29017. The whole process takes about 30 minutes, please wait patiently.

# 3 Login to SEMA Dashboard

Open the following URL with a browser, such as Mozilla Firefox or Google Chrome, on the Linux server:

<http://127.0.0.1:8080>

Or find out the IP address of the Linux server by

```
sudo ifconfig
```

and then open the following URL from a PC:

<http://x.x.x.x:8080>

where `x.x.x.x` is the IP address of the Linux server.

# 4 Configure SEMA Dashboard

There are six user configurable items in the system configuration file:

- (1) Push interval: the default value of push interval for a newly added thing, i.e. the time interval between two consecutive uploads. The default value of this item is 20 seconds.
- (2) Time zone: the default timezone of the server. The default value of this item is UTC.
- (3) Language: the default UI language of the server. The default value of this item is English
- (4) Default thing definition: the default thing definition for a newly added thing. The default settings for this item are: Small graphs, Top tab display, History, 24 hours, properties include CPU Temperature, System Temperature, CPU Fan Speed and System Fan 1 Speed.
- (5) E-mail relay: settings for the Email server, including IP address, TCP port number, TLS, account and password.
- (6) SMS provider: settings for the SMS broker, including URL, account, password and other parameters.

To change configuration settings, open the file

`/home/sema/sems/sems/settings.py`

and find the **DEFAULT\_SETTING** section (near the end of the file), an example is given as:

```
DEFAULT_SETTING={
    "Timezone": "UTC",
    "Language": "eng",
    "record_unit" : "Seconds",
    "record_rate" : 20
}
```

To configure push interval, modify the **"record\_unit"** and **"record\_rate"** fields. The **"record\_rate"** field specifies the value of the push interval. The **"record\_unit"** field specifies the unit of the push interval. Valid units are Seconds, Minutes, Hours and Days.

To configure time zone, modify the **"Timezone"** field. Valid values of the time zone field can be found here:

[http://en.wikipedia.org/wiki/List\\_of\\_tz\\_zones\\_by\\_name](http://en.wikipedia.org/wiki/List_of_tz_zones_by_name)

To configure language, modify the **"Language"** field. Currently, **"eng"** (for

English) is the only valid value for this item.

To configure default thing definition, find the **DEFAULT\_THING\_DEFINITIONS** section (near the end of the file, after the **DEFAULT\_SETTING** section), an example is given as:

```
DEFAULT_THING_DEFINITIONS={
  "dd_id" : "Default7c65b92bcac1498fb7dd32917" ,
  "data":{
    "dd_create_date" : "1420070400",
    "dd_creator" : "admin",
    "dd_graph_option" : "Small graphs",
    "dd_id" : "Default7c65b92bcac1498fb7dd32917",
    "dd_name" : "Default",
    "dd_period" : "24",
    "dd_period_unit" : "hours",
    "dd_properties" : [
      "CPU Temperature",
      "System Temperature",
      "CPU Fan Speed",
      "System Fan 1 Speed"
    ],
    "dd_series" : "history",
    "dd_update_date" : "1420070400",
    "dd_updater" : "admin",
    "dd_view_option" : "Top tab display"
  }
}
```

To configure E-mail relay, find the **EMAIL\_RELAY** section, an example is given as:

```
EMAIL_RELAY = {
  "ip_address": "smtp.shinewave.com.tw",
  "login_account": "",
  "login_password": "",
  "enable_tls": False,
  "port": "25"
}
```

For ordinary Email server using SMTP protocol, replace "ip\_address" by the IP address of the Email server, leave "enable\_tls" false and "port" 25.

For Gmail, replace "ip\_address" by "smtp.gmail.com", set "enable\_tls" true and "port" 587.

To configure SMS provider, find the `SMS_PROVIDER` section, an example is given as:

```
SMS_PROVIDER = [{
    "id": 0,
    "name": "Bulksms",
    "url": "http://bulksms.vsms.net:5567/eapi/sub/sms/",
    "username_field": "username",
    "username": "shinewave",
    "password_field": "password",
    "password": "123456",
    "message_field": "message",
    "receiver_field": "msisdn",
    "receiver_separator": ",",
    "extra_params": ""
}, {
    "id": 1,
    "name": "SMS Get Paid",
    "url": "http://business.smsgetpaid.com/api_send.php",
    "username_field": "username",
    "username": "shinewave",
    "password_field": "password",
    "password": "123456",
    "receiver_field": "phone",
    "receiver_separator": ',',
    "extra_params": "method=1"
}]
SELECTED_SMS_PROVIDER=1
```

The system supports only SMS provider who has a REST API such as `http://business.smsgetpaid.com/api_send.php?username=shinewave&password=123456&phone=0987654321,0988776543&method=1`



## Getting Service

Contact us should you require any service or assistance.

### **ADLINK Technology, Inc.**

Address: 9F, No.166 Jian Yi Road, Zhonghe District  
New Taipei City 235, Taiwan  
新北市中和區建一路 166 號 9 樓  
Tel: +886-2-8226-5877  
Fax: +886-2-8226-5717  
Email: [service@adlinktech.com](mailto:service@adlinktech.com)

### **Ampro ADLINK Technology, Inc.**

Address: 5215 Hellyer Avenue, #110  
San Jose, CA 95138, USA  
Tel: +1-408-360-0200  
Toll Free: +1-800-966-5200 (USA only)  
Fax: +1-408-360-0222  
Email: [info@adlinktech.com](mailto:info@adlinktech.com)

### **ADLINK Technology (China) Co., Ltd.**

Address: 上海市浦东新区张江高科技园区芳春路 300 号 (201203)  
300 Fang Chun Rd., Zhangjiang Hi-Tech Park  
Pudong New Area, Shanghai, 201203 China  
Tel: +86-21-5132-8988  
Fax: +86-21-5132-3588  
Email: [market@adlinktech.com](mailto:market@adlinktech.com)

### **ADLINK Technology Beijing**

Address: 北京市海淀区上地东路 1 号盈创动力大厦 E 座 801 室(100085)  
Rm. 801, Power Creative E, No. 1 Shang Di East Rd.  
Beijing, 100085 China  
Tel: +86-10-5885-8666  
Fax: +86-10-5885-8626  
Email: [market@adlinktech.com](mailto:market@adlinktech.com)

### **ADLINK Technology Shenzhen**

Address: 深圳市南山区科技园南区高新南七道 数字技术园  
A1 栋 2 楼 C 区 (518057)  
2F, C Block, Bldg. A1, Cyber-Tech Zone, Gao Xin Ave. Sec. 7  
High-Tech Industrial Park S., Shenzhen, 518054 China  
Tel: +86-755-2643-4858  
Fax: +86-755-2664-6353  
Email: [market@adlinktech.com](mailto:market@adlinktech.com)

### **LiPPERT ADLINK Technology GmbH**

Address: Hans-Thoma-Strasse 11, D-68163  
Mannheim, Germany  
Tel: +49-621-43214-0  
Fax: +49-621 43214-30  
Email: [emea@adlinktech.com](mailto:emea@adlinktech.com)

**ADLINK Technology, Inc. (French Liaison Office)**

Address: 6 allée de Londres, Immeuble Ceylan  
91940 Les Ulis, France  
Tel: +33 (0) 1 60 12 35 66  
Fax: +33 (0) 1 60 12 35 66  
Email: france@adlinktech.com

**ADLINK Technology Japan Corporation**

Address: 〒101-0045 東京都千代田区神田鍛冶町 3-7-4  
神田 374 ビル 4F  
KANDA374 Bldg. 4F, 3-7-4 Kanda Kajicho,  
Chiyoda-ku, Tokyo 101-0045, Japan  
Tel: +81-3-4455-3722  
Fax: +81-3-5209-6013  
Email: japan@adlinktech.com

**ADLINK Technology, Inc. (Korean Liaison Office)**

Address: 137-881 서울시 서초구 서초대로 326, 802 (서초동, 모인터빌딩)  
802, Mointer B/D, 326 Seocho-daero, Seocho-Gu,  
Seoul 137-881, Korea  
Tel: +82-2-2057-0565  
Fax: +82-2-2057-0563  
Email: korea@adlinktech.com

**ADLINK Technology Singapore Pte. Ltd.**

Address: 84 Genting Lane #07-02A, Cityneon Design Centre  
Singapore 349584  
Tel: +65-6844-2261  
Fax: +65-6844-2263  
Email: singapore@adlinktech.com

**ADLINK Technology Singapore Pte. Ltd. (Indian Liaison Office)**

Address: #50-56, First Floor, Spearhead Towers  
Margosa Main Road (between 16th/17th Cross)  
Malleswaram, Bangalore - 560 055, India  
Tel: +91-80-65605817, +91-80-42246107  
Fax: +91-80-23464606  
Email: india@adlinktech.com

**ADLINK Technology, Inc. (Israeli Liaison Office)**

Address: 27 Maskit St., Corex Building  
PO Box 12777  
Herzliya 4673300, Israel  
Tel: +972-54-632-5251  
Fax: +972-77-208-0230  
Email: israel@adlinktech.com

**ADLINK Technology, Inc. (UK Liaison Office)**

Tel: +44 774 010 59 65  
Email: UK@adlinktech.com