

# Packet Forwarder Semtech



## Contents

- Installation packet contents
- Configuration Steps
- MAC to EUI conversion
- Final file example

## Installation packet contents

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The Semtech Packet Forwarder is a software component provided by Semtech as part of the IoT Starter Kit. The source code can be found at GitHub. We do not provide the binary, source code, nor specify the hardware it should run on.

We support both the version 1 and version 2 of the protocols. Note we only provide the absolute minimum compatibility layer, and do not implement the full protocol. We do not provide confirmations of the UDP frames.

## Configuration Steps

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You will need to adjust the following parameters in the `global_conf.json` or `local_conf.js` file

<code>server_address</code>	<code>eul.loriot.io</code> Adjust according to the server used ( <code>eul,apl,cn1,aul</code> )
<code>gateway_ID</code>	EUI generated from MAC according to IEEE Guidelines, see the conversion mechanism below
<code>serv_port_up</code>	1780
<code>serv_port_down</code>	1780

## MAC to EUI conversion

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- Retrieve the MAC address of your eth0 interface
- Add `FF:FF` between the first three and last three bytes
- Remove the colons
- Make all HEX digits capital

Example:

aa:11:22:33:44:55	is the MAC of your device
aa:11:22:FF:FF:33:44:55	is the mac after extension with FF:FF
aa1122FFFF334455	without colons
AA1122FFFF334455	after capitalization

## Final file example

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Final `global_conf.json` or `local_conf.js` file

```
}
"gateway_conf" : {
  "gateway_ID": "AA1122FFFF334455", /* change according to your MAC
address!!! */
  "server_address" : "eul.loriot.io", /* replace eul with ap1, cn1,
... */
  "serv_port_up": 1780,
  "serv_port_down": 1780,

  "keepalive_interval": 10,
  "stat_interval": 30,
  "push_timeout_ms": 100,

  "forward_crc_valid": true,
  "forward_crc_error": false,
  "forward_crc_disabled": false
}
```