

Radio Verbosity

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Gateway verbosity level

Within the LORIoT application, use the features section to select the preferred verbosity level reported for your gateway:

The screenshot shows the 'Features' configuration page in the LORIoT application. It includes sections for 'Join EUI', 'OTAA', 'Downlink (TX)', and 'Gateway Information'. The 'Gateway Information' section is expanded to show a dropdown menu for 'per-gateway data feed verbosity' with options: 'location data', 'disabled', 'radio data', 'gateway ID', and 'location data'. The 'disabled' option is currently selected. Below the dropdown, there is a note: '"rx" message has low latency, but only carries information about first gateway' and an 'Enabled' toggle switch.

Radio data

Message format [TypeScript interface notation](#)

```

{
  rssi      : number; // radio rssi, in dBm
  snr       : number; // radio snr, in dB, single decimal
digit precision
  ts        : number; // timestamp (gateway internal counter)
}

```

Parameter	Type	Description
<code>rssi</code>	number	frame rssi, in dBm, as integer number
<code>snr</code>	number	frame snr, in dB, one decimal place
<code>ts</code>	number	gateway internal counter

Gateway ID

Message format **Typescript interface notation**

```

{
  rssi      : number; // radio rssi
  snr       : number; // radio snr
  ts        : number; // timestamp (gateway internal counter)
  gweui     : string; // gateway extended EUI as EUI.RADIO
// e.g. "1122334455667788.0"
}

```

Parameter	Type	Description
<code>rssi</code>	number	frame rssi, in dBm, as integer number
<code>snr</code>	number	frame snr, in dB, one decimal place
<code>ts</code>	number	gateway internal counter
<code>gweui</code>	string	gateway extended EUI as EUI.RADIO, e.g. 1122334455667788.0

Location data

Message format **Typescript interface notation**

```

{
  rssi      : number; // radio rssi
  snr       : number; // radio snr
  ts        : number; // timestamp (gateway internal counter)
  time      : string   // gateway rx UTC time, ISO
8601, up to nanosecond precision
  tmms?     : number   // gateway rx GPS time,
milliseconds since Jan 6th 1980
                                     available for
GPS-enabled gateways only
  gweui     : string; // gateway extended EUI as EUI.RADIO
                                     // e.g. "1122334455667788.0"
  lat       : number; // gateway latitude
  lon       : number; // gateway longitude
}

```

Parameter	Type	Description
<code>rssi</code>	number	frame rssi, in dBm, as integer number
<code>snr</code>	number	frame snr, in dB, one decimal place
<code>ts</code>	number	gateway internal counter
<code>time</code>	string	timestamp of packet reception by gateway, in ISO 8601 format , UTC, up to nanosecond precision for GPS-enabled gateways, otherwise micro or milliseconds
<code>tmms</code>	number	timestamp of packet reception by gateways, in GPS time, number of milliseconds since Jan 6th 1980
<code>gweui</code>	string	gateway extended EUI as EUI.RADIO, e.g. 1122334455667788.0
<code>lat</code>	number	gateway latitude, fractional degrees
<code>lon</code>	number	gateway longitude, fractional degrees