



# URWB Telemetry Protocol

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## Overview of URWB telemetry protocol

From IEC6400 Release 1.1.0, the IEC6400 gateway supports the URWB Telemetry Protocol feature. It performs the external monitoring of real-time wireless performance. Third-party and custom applications can use the telemetry data. This feature sends pre-defined structured UDP packets at regular intervals and it contains network metrics. An application which receives this data can interpret this data live or capture and process it later. This telemetry packet from the gateway contains the packet throughput and migration rate.

For information about the Type-Length-Values (TLVs) for the gateway, contact [Cisco Support](#).

## Manage URWB telemetry export parameters using CLI

### Before you begin

By default, this feature is disabled on the gateway. Perform these steps to enable the telemetry export.

### Procedure

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#### Step 1

Use one of the following commands:

- Use the **telemetry server** *IP-address UDP-port-value* command to enter the IP address and UDP port of the telemetry receiver.

```
Device#telemetry server 192.168.0.100 1234
```

Multicast IP addresses are supported.

Or

- Use the **telemetry live server** *IP-address UDP-port-value* command to manage the IP address and UDP port of the telemetry receiver.

```
Device#telemetry live server 192.168.0.100 1234
```

**Step 2** Use one of the following commands:

- Use the **telemetry export enable** command to enable the telemetry transmission to the configured telemetry receiver.

```
Device#telemetry export enable
```

**Note**

- Use the **telemetry export disable** command to disable the telemetry transmission to the configured telemetry receiver.
- When you run the **telemetry export disable** command, the device defaults the IP address to 0.0.0.0, but retains with the UDP port value.

Or

- Use the **telemetry live export enable** command to enable the telemetry transmission to the configured telemetry receiver.

```
Device#telemetry live export enable
```

**Step 3** **Note**

- If you include **live** keyword in the command, the configuration takes effect immediately.
- If you do not include **live** keyword in the command, you need to run **write** and **reboot** commands.

Use the **write** command to apply the configuration permanently.

```
Device#write
```

**Step 4** Use the **reboot** command to reboot the device.

```
Device#reboot
```

## URWB telemetry protocol configuration example

CLI command without live:

Use these commands to export the telemetry data when you do not include **live** keyword in the command.

```
Device#telemetry server 192.168.0.100 1234
Device#telemetry export enable
Device#write
Device#reboot
```

CLI command with live:

Use these commands to export the telemetry data when you include **live** keyword in the command.

```
Device#telemetry live server 192.168.0.100 1234
Device#telemetry live export enable
```

# Manage telemetry level

## Telemetry level default

Use the **telemetry level default** command to send the default statistics to the telemetry server.

```
Device#telemetry level default
```

## Telemetry level detailed

Use the **telemetry level detailed** command to send the detailed statistics to the telemetry server. Detailed telemetry includes information for each handoff occurring in the network.

```
Device#telemetry level detailed
```

# Verify telemetry configuration

Use the **telemetry** command to view the telemetry configuration.

```
Device#telemetry
Telemetry export: enabled, current (live): disabled
Telemetry server: 192.168.0.100 1234, current (live): 0.0.0.0 30000
```



### Note

The **current (live)** status in the show output section reflects the current status, which may differ from the stored status due to the live command.

- If you use live option to disable **telemetry** export, the telemetry output shows **current (live): disabled**.
- If you use live option to enable **telemetry** export, the telemetry output shows **current (live): enabled**.
- If you do not use live option to configure **telemetry** server, the telemetry output shows **current(live): 0.0.0.0 30000**.
- If you use live option to configure telemetry server to 192.168.0.100 1234, the telemetry output shows **current(live): 192.168.0.100 1234**.

