



NVIDIA DOCA Telemetry

Sample Guide

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Chapter 1. Introduction

The telemetry samples in this document demonstrate an initial recommended configuration which covers 2 use cases:

- ▶ Standard DOCA telemetry data
- ▶ DOCA telemetry for NetFlow data

The telemetry samples run on the BlueField. If write-to-file is enabled, telemetry data is stored to BlueField's storage. If inter-process communication (IPC) is enabled, data is sent to the DOCA Telemetry Service (DTS) running on the same BlueField.

For general information about the DOCA Telemetry API, refer to [NVIDIA DOCA Telemetry Programming Guide](#).

Chapter 2. Dependencies

N/A

Chapter 3. Prerequisites

For information on initializing and configuring the DTS, refer to [NVIDIA DOCA Telemetry Service Guide](#).

Chapter 4. Samples

4.1. Telemetry Export

This sample illustrates how to use the telemetry API. The sample uses a custom schema for telemetry.

The sample logic includes:

1. Configuring schema attributes.
2. Initializing schema.
3. Creating telemetry source.
4. Creating example events.
5. Reporting example events via DOCA Telemetry.
6. Destroying source and schema.

Reference:

- ▶ `/opt/mellanox/doca/samples/doca_telemetry/telemetry_export/telemetry_export.c`

4.2. Telemetry NetFlow Export

This sample illustrates how to use the NetFlow functionality of the telemetry API.

The sample logic includes:

- ▶ Configuring NetFlow attributes.
- ▶ Initializing NetFlow.
- ▶ Creating telemetry source.
- ▶ Starting NetFlow.
- ▶ Creating example events.
- ▶ Reporting example events via DOCA Telemetry.
- ▶ Destroying NetFlow.

Reference:

- ▶ `/opt/mellanox/doca/samples/doca_telemetry/telemetry_netflow_export/telemetry_netflow_export.c`

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