

NVIDIA DOCA Telemetry

Sample Guide

Table of Contents

Chapter 1. Introduction	. 1
Chapter 2. Dependencies	. 2
Chapter 3. Prerequisites	. 3
Chapter 4. Samples	. 4
4.1. Telemetry Export	4
4.2. Telemetry NetFlow Export	4

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 <u>NVIDIA DOCA Telemetry</u> <u>Programming Guide</u>.

Chapter 2. Dependencies

N/A

Chapter 3. Prerequisites

For information on initializing and configuring the DTS, refer to <u>NVIDIA DOCA Telemetry</u> <u>Service Guide</u>.

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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