



NVIDIA DOCA

Release Notes

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Chapter 1. Introduction

The NVIDIA® DOCA SDK is a software suite supporting the NVIDIA® BlueField®-2 DPU device.

1.1. Installation Notes

Refer to the [DOCA Installation Guide](#) for information on:

- ▶ Setting up NVIDIA® DOCA SDK on your NVIDIA® BlueField®-2 DPU
- ▶ Supported BlueField-2 platforms
- ▶ Supported host operating systems
- ▶ Package contents

1.2. Technical Support

Customers who purchased products directly from NVIDIA are invited to contact us on the [NVIDIA Support](#) website.

Chapter 2. Changes and New Features

- ▶ Enhanced flow lib
- ▶ Added new libraries:
 - ▶ Telemetry
 - ▶ AppShield – alpha support
- ▶ Added gRPC support
 - ▶ Infrastructure service for gRPC management
 - ▶ Flow lib based gRPC for remote programming
 - ▶ DPI lib based gRPC for remote programming
 - ▶ Applications based gRPC for remote execution
- ▶ Added new reference applications
 - ▶ IPS
 - ▶ File scan
 - ▶ Telemetry
- ▶ Added new DOCA containerized applications and services
 - ▶ Containerized applications
 - ▶ Application recognition
 - ▶ URL filter
 - ▶ IPS
 - ▶ Services
 - ▶ DOCA telemetry service (DTS)
 - ▶ Development and deployment containers
 - ▶ DOCA base-runtime container
 - ▶ DOCA full-runtime container
 - ▶ DOCA development container
- ▶ Added DOCA integration with NVIDIA catalog (NGC)
- ▶ Added support for DOCA arg parser

- ▶ First support for DPU-GPU converged accelerators
- ▶ New DOCA guides:
 - ▶ Developer Guide
 - ▶ DOCA Telemetry Programmers Guide
 - ▶ AppShield Programmers Guide
 - ▶ Telemetry Reference Application
 - ▶ IPS Reference Application
 - ▶ File Scan Reference Application
 - ▶ Arg Parser
 - ▶ Container Deployment
 - ▶ DPU CLI
 - ▶ gRPC Infrastructure
 - ▶ Virtual Functions

Chapter 3. Known Issues

The following table lists the known issues and limitations for this release of DOCA SDK.

| Reference | Description |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2872829 | Description: DOCA gRPC orchestrator is missing the default port configuration for the DOCA IPS example application. |
| | Workaround: Spawning the gRPC-enabled application must be done using the orchestrators <code>-p/--port create</code> option, explicitly specifying a network port to be used. |
| | Reported in version: 1.2 |
| 2872883 | Description: The Python gRPC clients of DOCA Application Recognition, DOCA IPS, and DOCA Flow are missing the executable (+x) privilege. |
| | Workaround: The Python clients must be executed using the following command: <code>python3 <client.py> <args></code> |
| | Reported in version: 1.2 |
| 2873129 | Description: Some DOCA gRPC-enabled programs, such as DOCA Application Recognition, sometimes fail to terminate even after they receiving the "destroy" command. |
| | Workaround: From the BlueField, run: <code>pidof doca_application_recognition_grpc</code> <code>kill -9 <pid as returned from "pidof"></code> |
| | Reported in version: 1.2 |

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