



DPL Release Notes

Table of contents

Changes and New Features

Capabilities and Limitations

P4 Runtime

DPL Nspect

Bug Fixes

Known Issues

Changes and New Features

- First release (GA)

Capabilities and Limitations

P4 Runtime

- The size of any of P4 table and counter object must be a power-of-2 (smaller than UINT32_MAX)
- A P4 table of size N allows for "N-1" regular entries and 1 default entry
- P4 Controller support:
 - Only one P4 Controller can be connected to the DPL Runtime daemon at a given time.
- RPC messages support:
 - Supported RPC messages:
 - Write RPC:
 - Only CONTINUE_ON_ERROR atomicity is supported
 - Batching is supported
 - Supported entities:
 - TableEntry
 - CounterEntry
 - DirectCounterEntry
 - MeterEntry
 - DirectMeterEntry
 - INSERT operation:

- Supports regular entries only
- DELETE operation:
 - Supports regular entries only
- MODIFY operation:
 - Supports Default entry only
 - Supports indirect and direct counter entry
 - Supports indirect and direct meter entry

Mode	max cir/pir	max cburst/pburst
BYTES	2550000000000	80000000
PACKETS	1992187500	625000

* In packets mode packet = 128 bytes

- Read RPC:
 - Batching is supported
 - Supported entities:
 - TableEntry
 - CounterEntry
 - DirectCounterEntry
 - MeterEntry
 - DirectMeterEntry
 - SetForwardingPipelineConfig RPC
 - GetForwardingPipelineConfig RPC
- Unsupported RPC messages:
 - Capabilities RPC

DPL Nspect

- `dpl_nspect graph` command – default graph type (`pipeline`) is not supported. Therefore, the `--type` argument is mandatory.
- `dpl_nspect graph --help` – shows the available graph types.

Bug Fixes

N/A

Known Issues

The following are known limitations of the DPL Runtime daemon service.

Ref #	Issue
4294 992	Description: If the configuration file refers to interfaces that don't exist, the error is only reported when loading a program and is not friendly to the user
	Workaround: fix the configuration files or create the missing VFs or SFs
	Keywords: <code>dpl_rtd</code>
	Reported in version: N/A
4320 688	Description: The <code>dpl_rtd</code> service may crash if adding constant table entries defined in the program fails.
	Workaround: No action needed, the <code>dpl_rtd</code> service will automatically restart.
	Keywords: <code>dpl_rtd</code>
	Reported in version: N/A
1141	Description: Debugging packets from the second wire port P1 is currently not supported
	Workaround: Use wire port P0 for debugging packets.
	Keywords: <code>debug</code>
	Reported in version: N/A

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