

R3 Release Notes of IEC Type 5: SmartNIC for Integrated Edge Cloud (IEC) Blueprint Family

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Summary

OVS-DPDK offload into SmartNIC

what is released

components of the release (Akraino new)

DPDK version 19.11

Open vSwitch 2.13.90

LINUX Kernel 4.4

SmartNIC BlueField 1

dependencies of the release (upstream version, patches)

N/A

differences from the previous version

This is the first release.

Upgrade Procedures

N/A

Release Data

Enhancements

Currently, the community version of Open vSwitch does not work well for VXLAN decap/encap offload.

We are going to open-source our implementation of Open vSwitch with VXLAN decap/encap offload on BlueField SmartNIC card.

Functionality changes

N/A

New Features

N/A

Version change

Module version changes

N/A

Document Version Changes

N/A

Deliverable

Release Software	Version	Link
IEC	Version 2.0	https://gerrit.akraino.org/r/gitweb?p=iec.git;a=tree;f=src/type5_SmartNIC;
DPDK	V19.11	https://doc.dpdk.org/guides-19.11/ http://dpdk.org/git/dpdk-stable
OVS	v2.13.90	https://github.com/bytedance/ovs-dpdk

Software Deliverable

OVS-DPDK with VXLAN ENCAP/DECAP offload.

Documentation Deliverable

N/A

Fixed Issues and Bugs

N/A

Known Limitations, Issues and Workarounds

The OVS code only supports offloading a subset of OpenFlow actions.

The evaluation OpenFlow ruleset for SmartNIC will only contain VXLAN decap/encap actions.

References

N/A