

An abstract graphic on the left side of the image, composed of numerous thin, wavy green lines that swirl and overlap to form a complex, organic shape. The lines are a vibrant green color against the dark blue background.

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SUMMIT

SONiC/SAI Support in Juniper Devices (Multi-PFE)

NETWORKING

Lester Bird , Distinguished Engineer, Juniper Networks.
Kumuthini Ratnasingham , Senior Product Line Manager,
Juniper Networks.

AGENDA



NETWORKING

- **JUNOS EVOLVED**

- **Disaggregated**
- **Open**

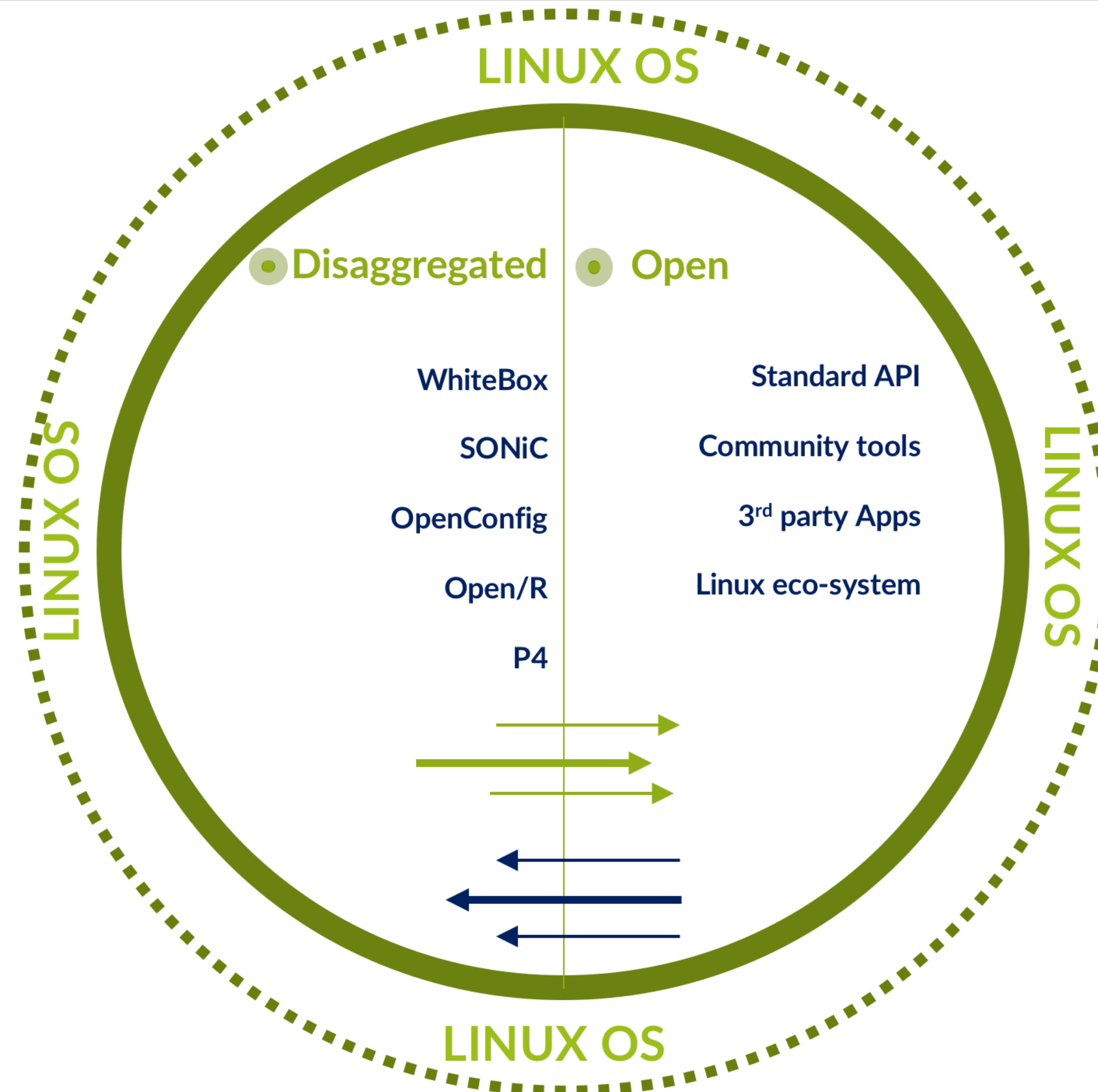
- **SONiC/SAI support on Juniper ASIC**

- **Single-PFE**
- **Multi-PFE**



Workshops
Summits

JUNOS EVOLVED TO SUPPORT CLOUD NATIVE APPS



NETWORKING



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SOFTWARE DISAGGREGATION WITH JUNOS



NETWORKING

- **Decoupling of Software from Hardware (White Box)**
- **Decomposition of software stack into functional components**
 - **Management - OpenConfig , Yang**
 - **Control - SONiC, Open/R**
 - **Forwarding - P4, SAI**
- **Intelligence shifted off device**
 - **Support for external controllers (SDN) – ONOS, ODL**



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Applications of JUNOS Disaggregation



NETWORKING



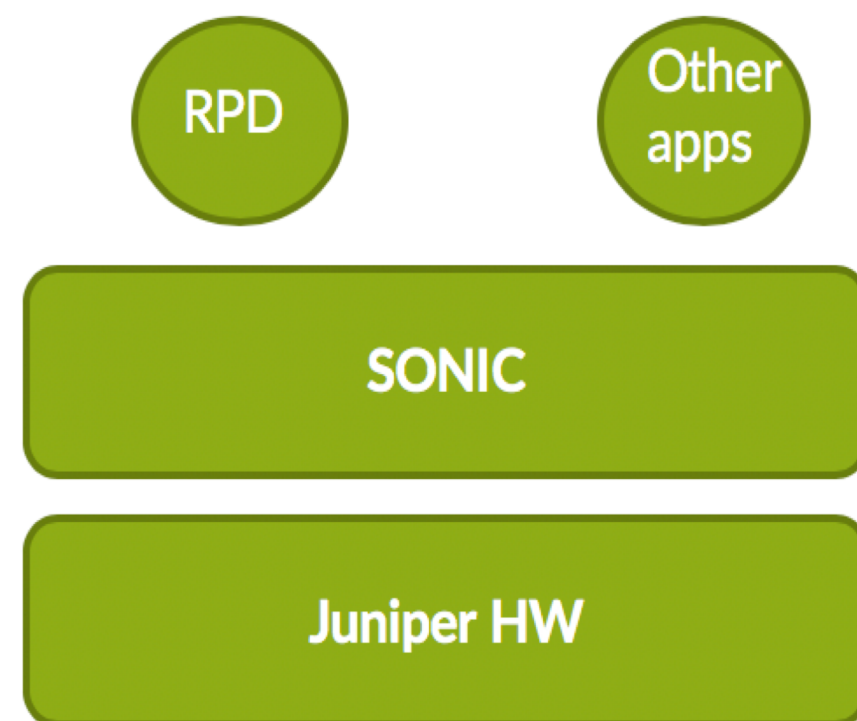
JUNOS WB



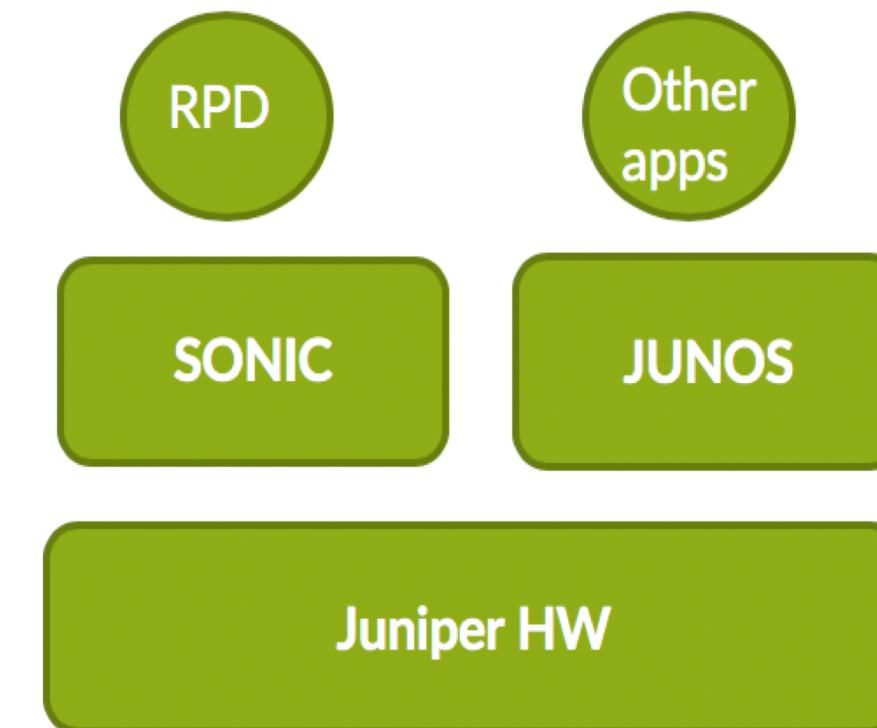
Disaggregated RPD



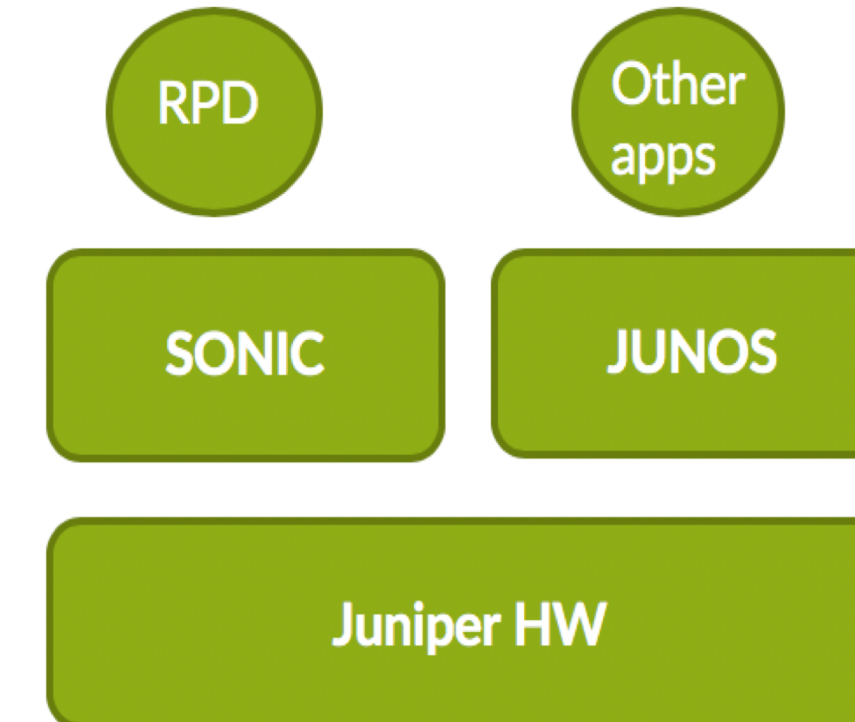
Virtual JUNOS



SONiC Single-PFE



SONiC Multi-PFE

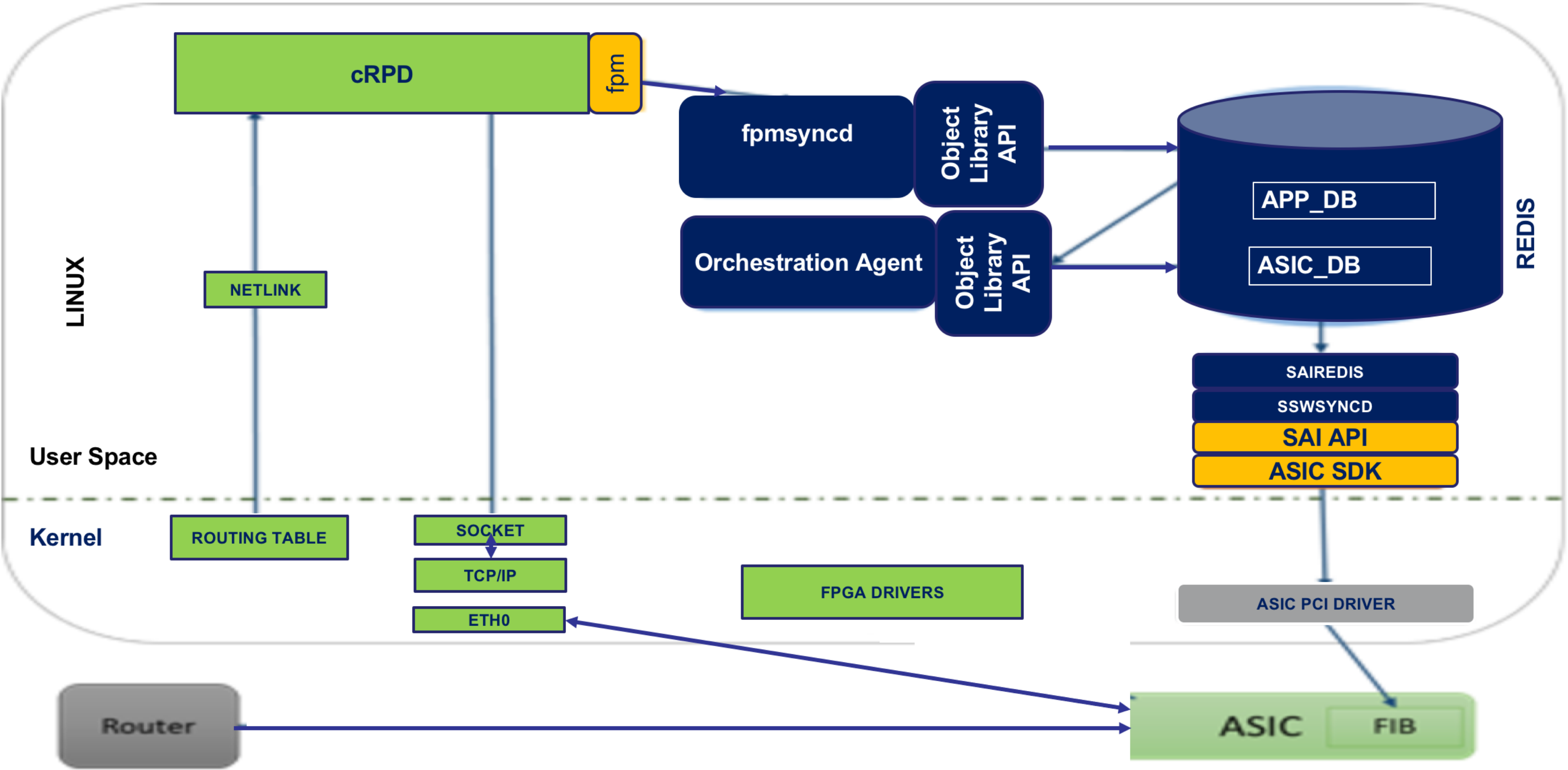


SONiC Multi-PFE, Modular Chassis



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JUNOS-SONiC SWITCH STATE ARCHITECTURE - SINGLE-PFE



NETWORKING

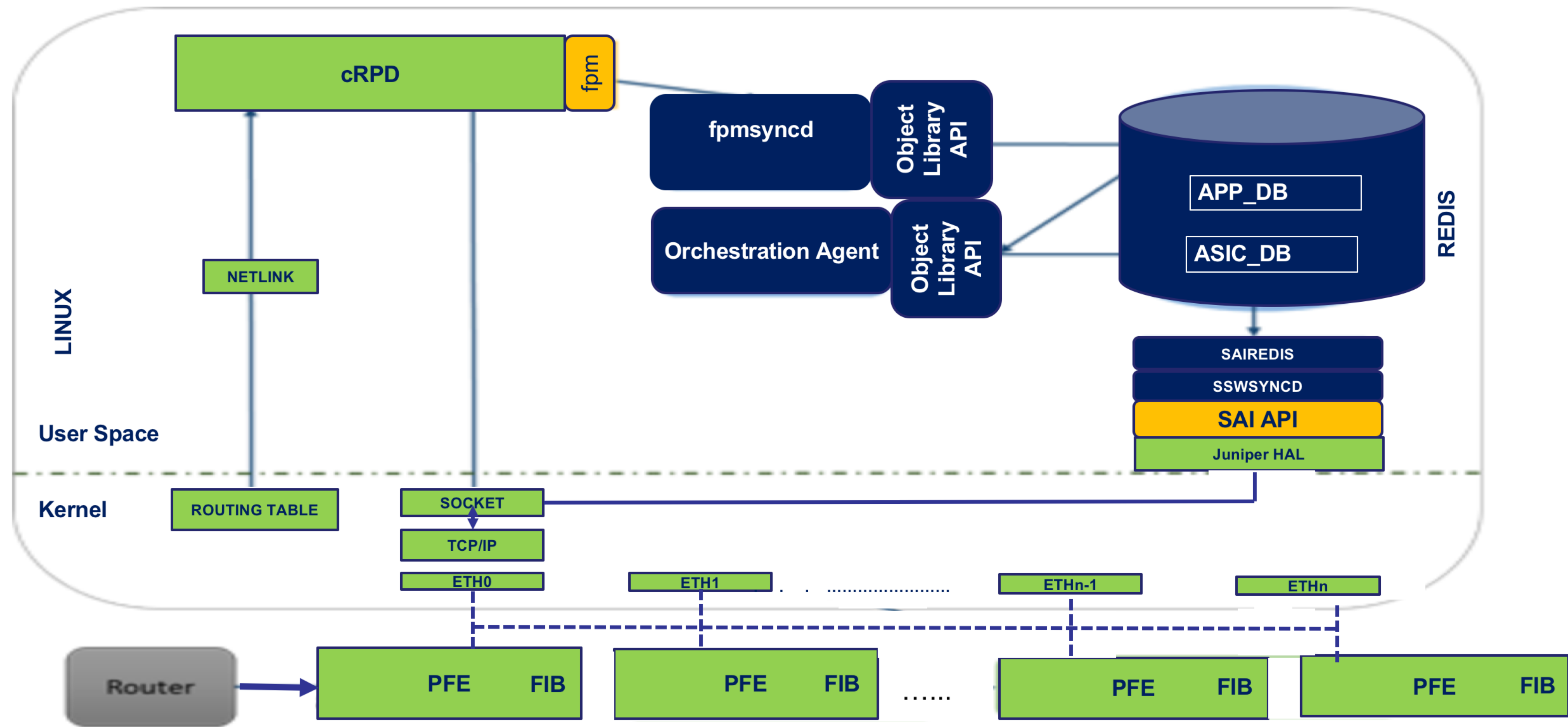


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JUNOS-SONiC SWITCH STATE ARCHITECTURE – MULTI-PFE



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MULTI-PFE DEMO



NETWORKING

- **A video clip of the demo will be included**



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Please Join Juniper at Open Compute Project (OCP) Summit

Booth A2



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OCP Global Summit | March 14–15, 2019

