



APS Networks

Next Generation Disaggregated Open Broadband Network Gateway (OpenBNG)

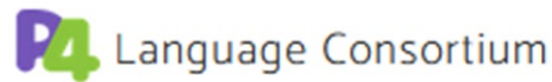
Alexander Jeffries, CEO

30th June 2022



About APS Networks

- Network product company specializing in programmable hardware solutions
- Product design based on security standards
- Intel® Network Builders Winners Circle
- Telecom Infra Project OpenBNG hardware
- Commitment to open frameworks and software
- Members of TIP, ONF, BBF, OCP



Intel® Intelligent Fabric (IFP) and Open BNG architecture

APS2140D from APS Networks

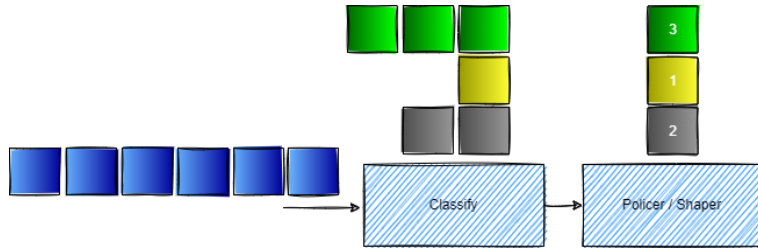
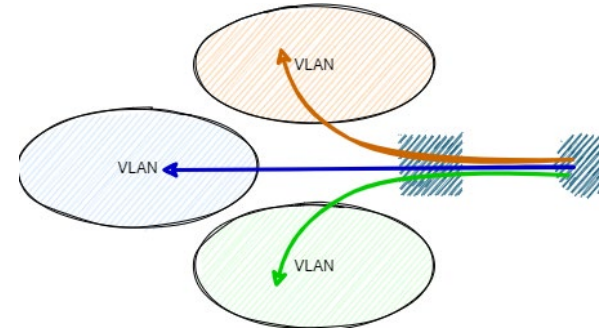


- Fully P4-programmable data plane
- Programmable large buffer memory solution
- Modular design
- BMC controller based on OCP RunBMC framework
- OpenBMC controller software
- Optional PTP module
- Ecological values

Effective Traffic Management

Programmable Control and User Plane

- Customize the L2/L3 functions
- Effective use of internal resources
- Reduce security vectors by only using the required functionality

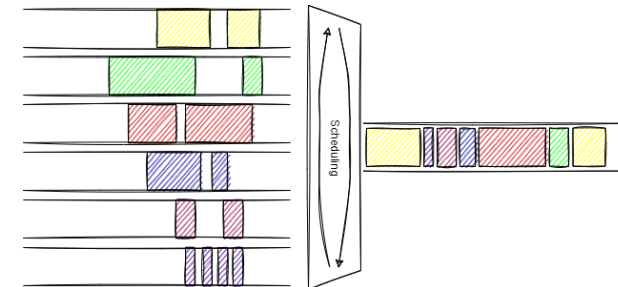


Traffic Management

- Traffic shaping, Policy and Access Control
- Subscriber Management

Quality of Service

- Multi-layer HQoS with large memory buffer



Super “Scalable” Solutions with enhanced functionality

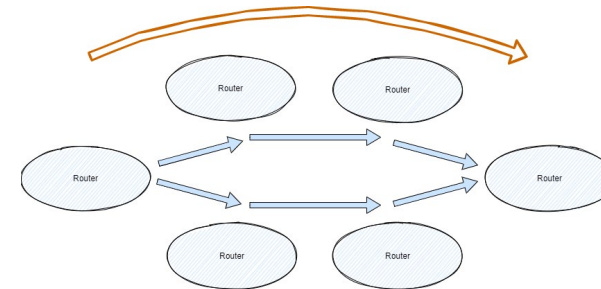


Time Synchronization Options

- PTP 1588 Time Synchronization
- Time Sensitive Networking
- Deterministic Networking

Customizable Packet Forwarding Solutions

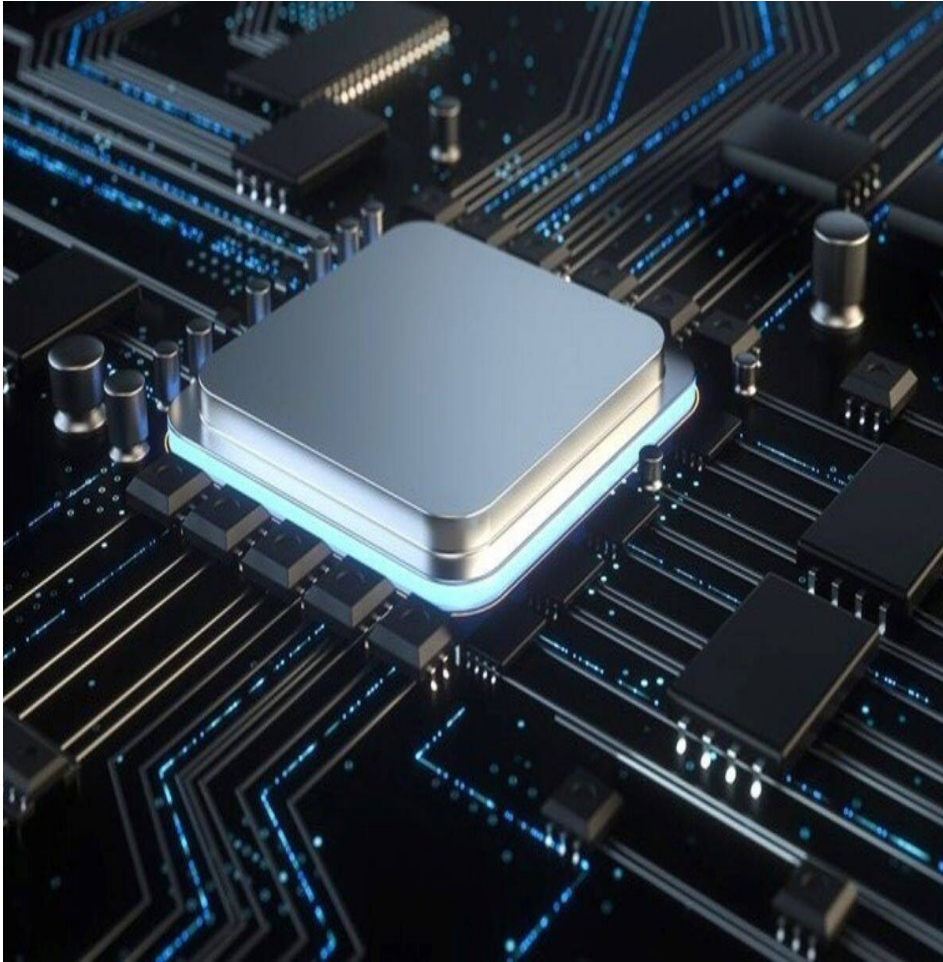
- Segment Routing (SRv6)
- Subscriber Session Steering



Security Solutions

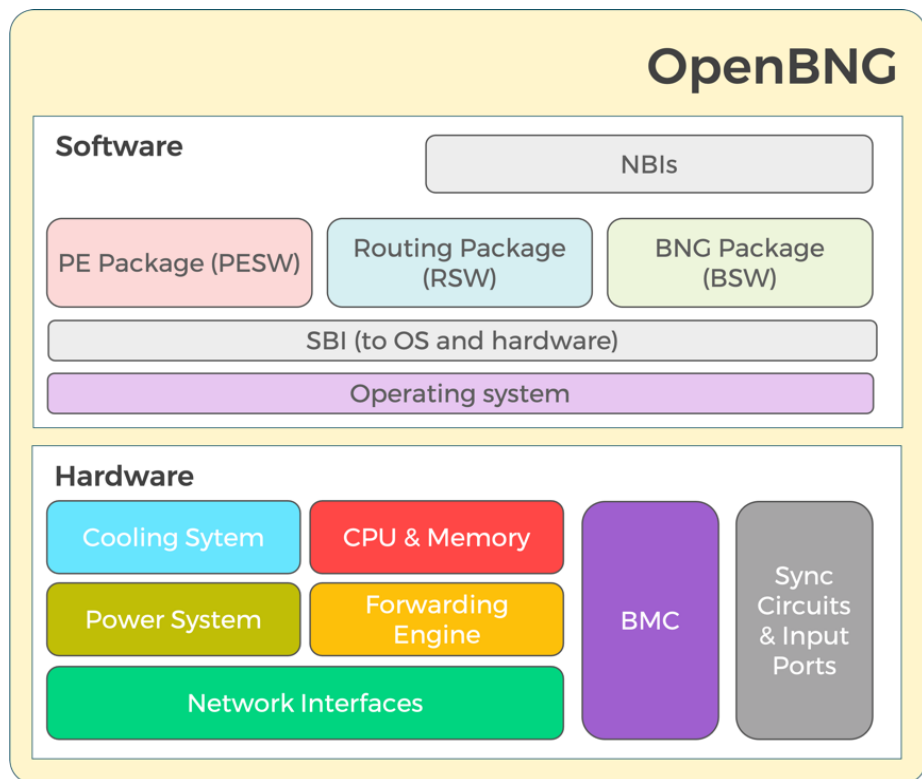
- Netflow / IPFIX
- DDoS Identification
- Deep Packet Inspection

Security from Design to Delivery



- Security by Design
- Designed and manufactured in Europe
- Hardware and software BoMs
- Secure and trusted boot solutions
- Protected firmware
- Secure supply chain management

Solution Integration

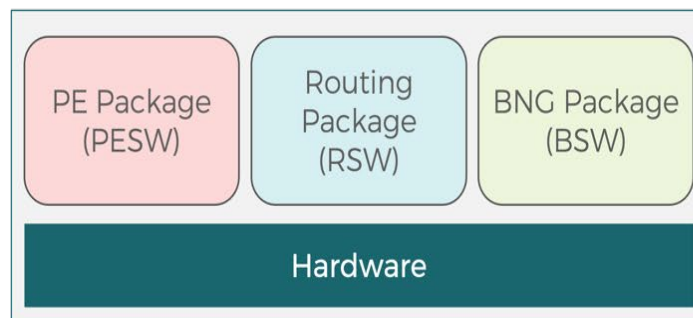


Open Management

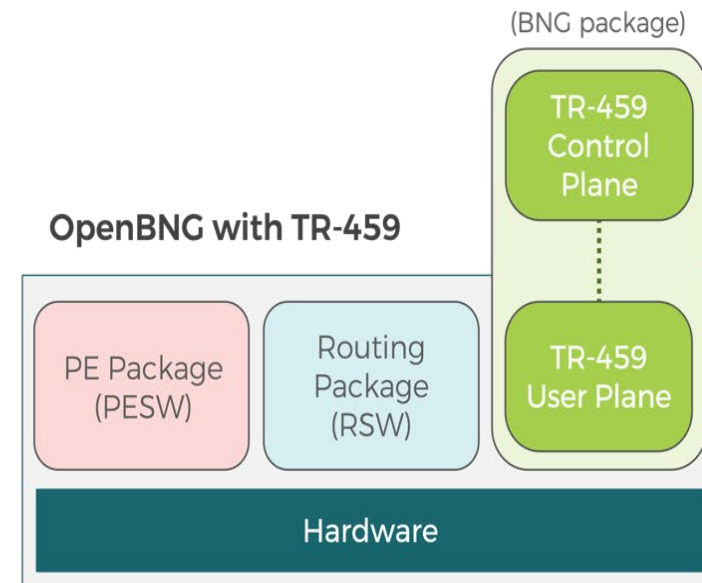
- Zero Touch Provisioning
- SDN Control
- Secure Management (eg Redfish®)
- Authentication, Authorization Accounting
- ONIE – Build environment
- Stratum from ONF

- Integrate with BBF standards
- Hardware & Software Disaggregation

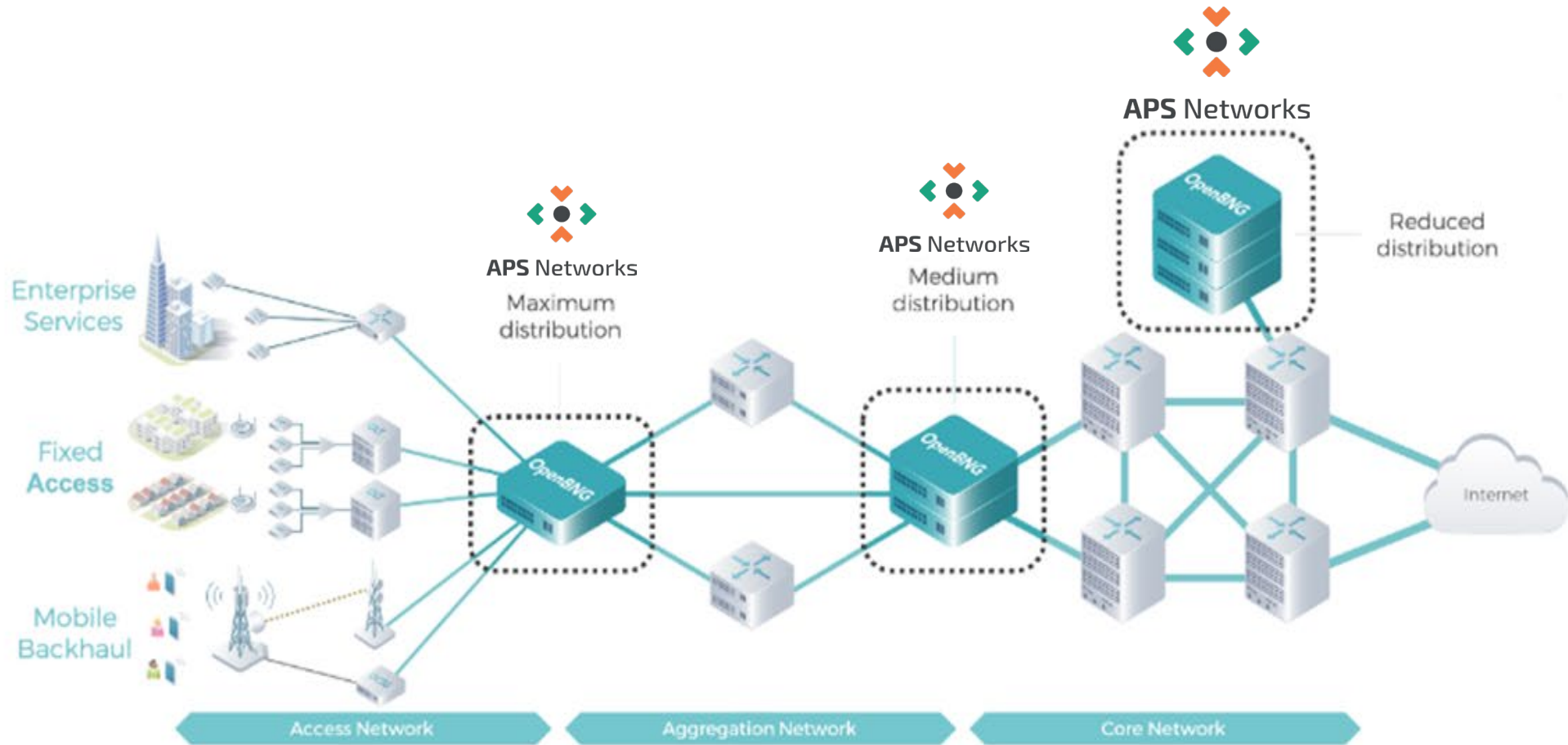
OpenBNG without TR-459



OpenBNG with TR-459



APS Network Product Deployment Scenario within the TIP OpenBNG Project



Thank you for your time!



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