IP Routing and Packet Transport

With Ribbon's NPT Portfolio of Routers
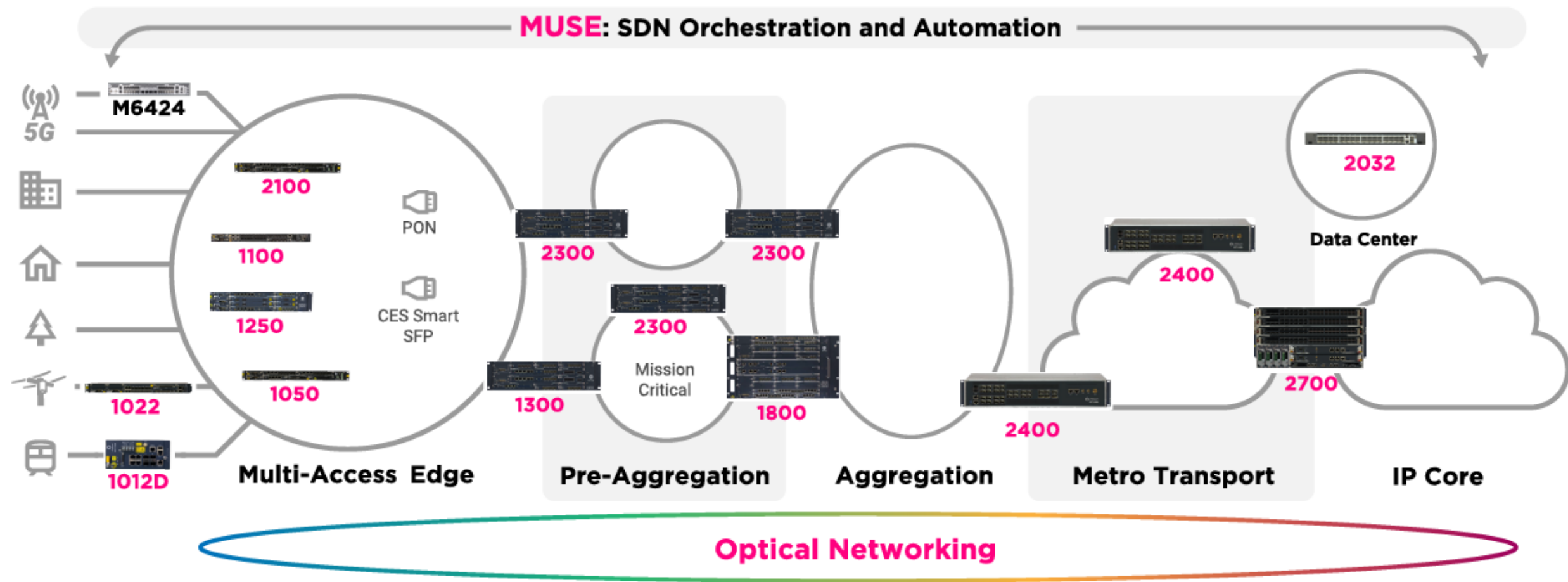
IP Wave - Agile IP
Optical Network

ribbon®

Best-in-class service agility and economics for any IP transport network.

MUSE: SDN Orchestration and Automation

M6424

2100

1100

1250

1050

1022

1012D

PON

CES Smart SFP

2300

2300

2300

Mission Critical

1300

1800

2400

2400

2700

2032

Data Center

Multi-Access Edge   **Pre-Aggregation**   **Aggregation**   **Metro Transport**   **IP Core**

Optical Networking

NPT XDR
High Performance, High Capacity Routers

	Access Routers	Aggregation Routers	Metro Routers		Data Center Switch
	NPT 2100	NPT 2300	NPT 2400	NPT 2700	NPT 2032
Fit	High Performance Access Edge and Pre-aggregation	High Performance Multiservice Aggregation	High-performance metro edge aggregation router	High Capacity Aggregation and Metro Transport	Top of Rack Data Center Switch
Capacity	800G	2.4Tbps	4.8Tbps	8Tbps	3.2 Tbps
Silicon	Qumran 2a	Jericho 2C	Jericho 2	Jericho 2C	Trident 3
High-Speed Optical Interfaces	CWDM, DWDM, 100G/200G/400G coherent, ZR & OPENZR+	CWDM, DWDM, 100G/200G/400G coherent, ZR & OPENZR+	CWDM, DWDM, 100G/200G/400G coherent, OPENZR+	CWDM, DWDM, 100G/200G/400G coherent, ZR & OPENZR+	n/a
Height	1 RU	3 RU	2RU	7RU	1 RU

NPT AR Routers
High Availability Routers

	Compact CPE Devices		Access Routers					Aggregation Routers
	NPT 1012D	NPT 1022	M6424	NPT 1050	NPT 1100	NPT 1250	NPT 1300	NPT 1800
Fit	Critical infrastructures and CPE demarcation	High Capacity CPE and Access Router	Converged FrontHaul	High Availability Access Edge	Access Edge and Pre-aggregation	High Availability Access Edge and Pre-aggregation	High Availability Multiservice Aggregation	High Availability Multiservice Aggregation
Capacity	32Gbps	64 Gbps	800Gbps	300 Gbps	300 Gbps	300 Gbps	1Tbps	2Tbps
Silicon	Qumran -UX	Qumran- UX	Monterey	Qumran- AX	Qumran-AX	Qumran-AX	Qumran-AX	Jericho+
High-Speed Optical Interfaces	n/a	n/a	n/a	CWDM, DWDM, 100G coherent ZR, OPENZR+	CWDM, DWDM, 100G coherent, ZR & OPENZR+	CWDM, DWDM, 100G coherent	CWDM, DWDM, 100G coherent	CWDM, DWDM, 100G coherent
Height	Din-rail compliant	1 RU	1 RU	1 RU	1 RU	2 RU	3 RU	8 RU

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NPT Family Overview

The NPT is powered by our IP Wave rNOS. IP Wave rNOS provides a common set of features and capabilities across our entire NPT XDR and NPT AR router portfolio including the fully integrated and disaggregated router options:

- Multiple routing technologies including IP/MPLS, MPLS-TP, Segment routing, RSVP-TE, FlexE, supporting multiple services such as Ethernet, Layer 2 VPN, Layer 3 VPN, , EVPN, Circuit emulation, XGS-PON

- Support for advanced fault management and performance capabilities

The NPT portfolio is optimized for the access edge, aggregation and metro networks providing:

- Purpose-built service agility and cost efficiency, NPT provides forecast tolerant, high-performance platforms required to support services with ever-increasing capacity, complexity and performance needs.

- Feature rich IP features and capabilities with the agility to meet the needs of each specific network

- Deployment flexibility supporting any network architecture; ring, mesh, dual-homed mesh, Telco spine-leaf and any hybrid combination of these.

- A comprehensive set of form factors providing fully redundant and non-redundant configurations; modular and fixedconfigurations

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- Fully integrated and disaggregated router options

- IPoDWDM (direct connect) with 400G ZR/ZR+ coherent optical pluggables

- Multilayer IP Optical networks, with a full set of optical interfaces and advanced multilayer optimization provided by Muse

- A perfect fit for networks carrying business and mission critical services with dual stack IP/MPLS and MPLS-TP, RSVP-TE, segment routing

- Open northbound interfaces provide integration into any network controller including our Muse domain controller.

With a full range of form factors, agile functionality and pay-as-you grow modularity, NPT has right-fit solutions for Service Providers, MSOs, MNOs, Enterprises, Government and Critical Industries