A New Generation of Carrier Ethernet Network







Standardized Multi-CoS, Interconnect, Manageability

Carrier Ethernet 1.0 & 2.0 Definition



Carrier Ethernet Generation	CE ^{1.0}		©.530			
Characteristics	Standardized		Multi-CoS, Managed, Interconnected			
Services	E-Line	E-LAN	E-Line	E-LAN	E-Tree	E-Access
Services Specs & IAs	MEF 6		MEF 6.1 & 6.1.1, 33 MEF 22.1			
Supporting Work						
Attributes & IAs	MEF 10		MEF 10.2 & 10.2.1, 26.1 MEF 13, 20, 23.1			
Management	MEF 7, 15		MEF 7.1, 16, 17, 30, 31			
Enabled Applications						
MBH	2G/3G Migration		4 G	4G MBH Migration, MBH Optimization		
Business Services	Metro, Regional		Local, Regional, National, Global Application , distance oriented, Private Cloud			
Wholesale	-		Buy/Sell Access Services			

Carrier Ethernet 1.0 and 2.0



Introduced 3 standardized Ethernet services

Delivers 3 powerful features (Multi-CoS, Interconnected, Managed) over 8 services



Establishes a clear standardized definition being implemented by MEF members



Brings significant value of MEF services to all stakeholders



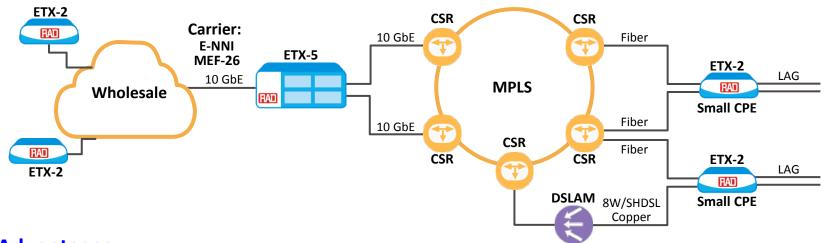
No More Academic stuff!

Real use cases!

Swiss SP – Wholesale and business services – RAD Solution

Customer Benefits:

- Multi Cos services based on MEF 2.0
- ETX series, real end-to-edge access solution service control, performance management over a variety of access networks
- Carrier to carrier connectivity and ENNI based on MEF 26, & 28
- ENNI Protection: 2-link LAG , Dual Homing 50ms protection, active/standby



RAD Advantages:

- ETX-5 and ETX-2 carrier grade Access Aggregation & CPE with changeable uplink module that supports different types of uplinks fiber & SHDSL, providing E2E service
- ETX-2 CPE supports dual homing protection between SHDSL and fiber uplinks

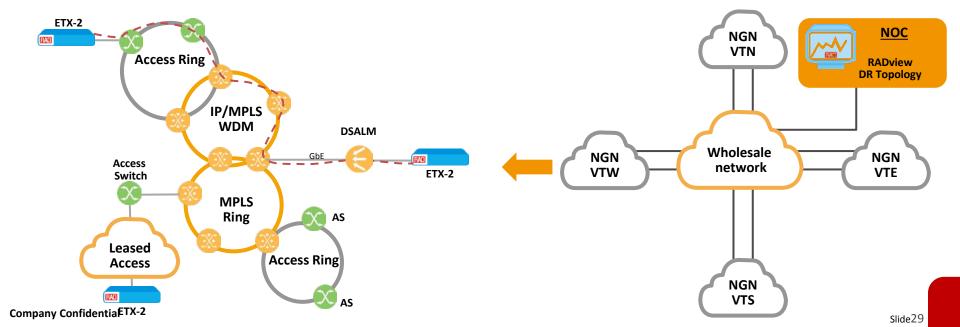




- SFP sleeve base solution that normalize the network and comply to MEF2.0 services
- A PM solution to monitor end-to-end Ethernet services over wholesale and existing network and generate monthly reports to be delivered to their VIP customers
- SFP sleeve base solution that plugged into any network infrastructure, consisted of various equipment types and provide a unified performance monitoring and fault management overlay
- Company Confidential Ximum reuse and minimal changes to existing infrastructure

Business SP that monitor Wholesaler Network

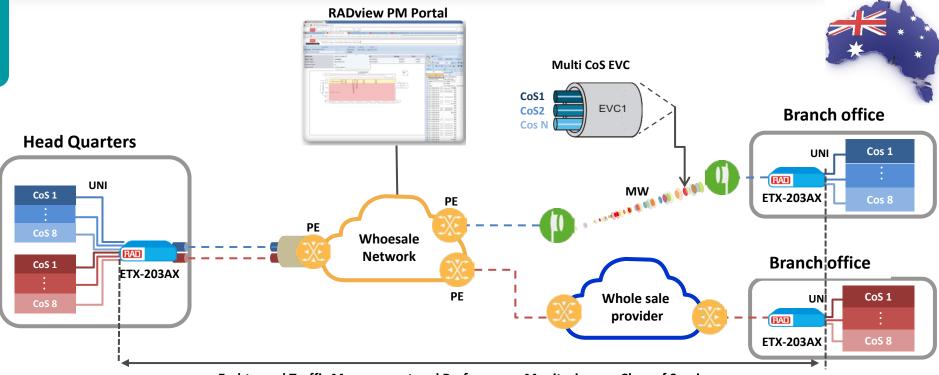
- A Core network with four regional sub-networks, each with interconnected rings:
 - 40G (DWDM) & 10GbE core rings with 1/10 GbE access rings
 - L2/L3 hybrid services for business and wholesale with DSL, FE, 1G and 10G links
- Certified MEF 2.0 Ethernet base services
- The wholesale provider need to provide SLA based services (EVPL & EVPLAN) and to issue monthly reports
- Field service of the transport network is outsourced to Ericsson and therefore SP needed visibility of the end to end service using SAA







Multi CoS Ethernet Service over wholesale Network

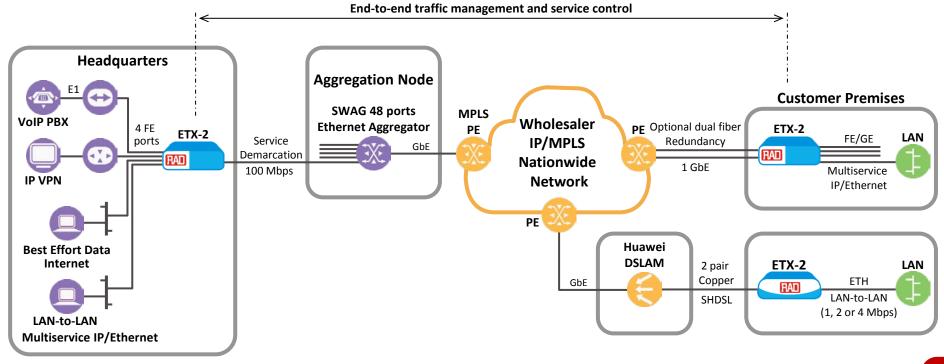


End-to-end Traffic Management and Performance Monitoring per Class of Service

- Provide differentiated services over a single EVC (Multi Class of Service EVC)
- Performance Monitoring per each Class of Service including PM portal
- Traffic management per each Class of Service
- MEF CE 2.0 Certified Ethernet service

France New Ethernet services over fiber and DSL

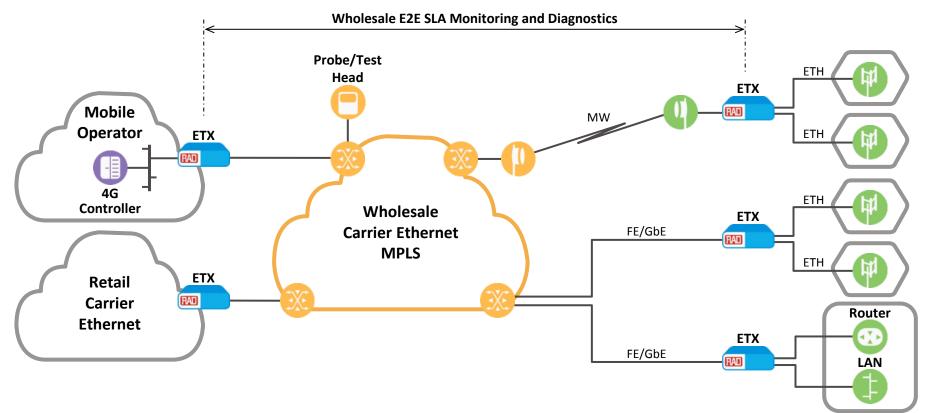
- Multi-services: Ethernet and IP services in one box (up to 5 simultaneous services on 1G link
- MEF 2.0 certified
- Carrier to Carrier Connectivity maintaining QoS policy
- Single equipment for fiber and DSL





U.S. Wholesale Ethernet

- Same product for retail and wholesale services
- Solution supports advanced EVPL services and EVPLAN services based on MEF2.0
- End to PM and FM over the wholesale network for mobile services







Thank You For Your Attention

