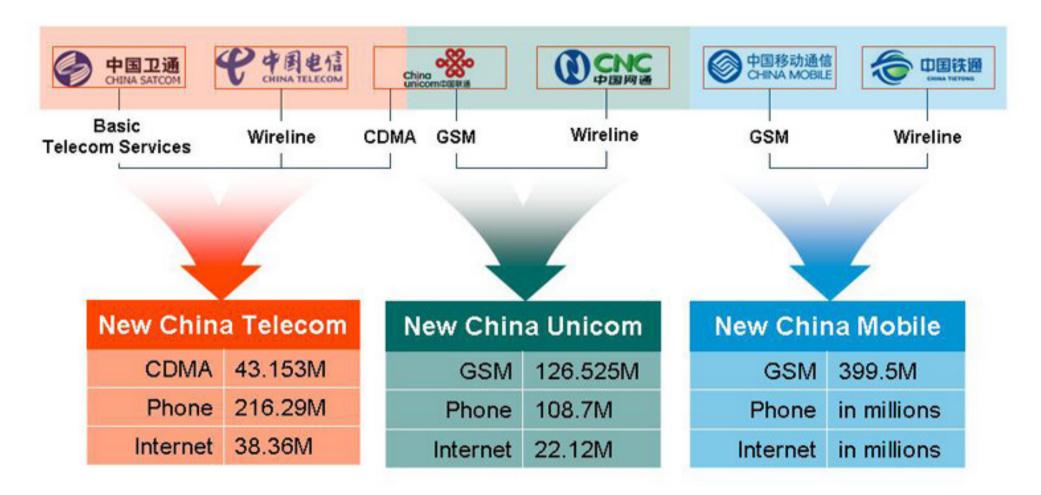
Drive Increased Revenue Stream

- GPON Superior Implementation of China Service Models





China Carrier Landscape Transition



All three fully licencsed: Wireless, Phone, Internet, Value-Added

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Industrywide Strategic Transition







- Full broadband service is a critical to offset saturated traditional TDM based wireline and wireless voice and basic bandwidth centric broadband services
- Ability to offer service oriented full broadband services is an effective way to increase ARPU & reduce churn rate









China FTTx Drivers



Massive Infrastructure Build-out

Nationwide real-estate boom demands massive greenfield telecom infrastructure build-out creating a unprecedented opportunity for future proof fiber access infrastructure

>>> Increased Copper Cost

Increasingly expensive copper-based cable forces all wireline operators to look for alternative fiber-based solutions to reduce capital expenditure (CapEx)

Sagging Revenue Growth

Voice service shift from wireline to wireless and broadband saturation cause flat revenue growth. High bandwidth applications and SLA service delivery are the only ways to lift up sagging ARPU

Service Requirement Trend

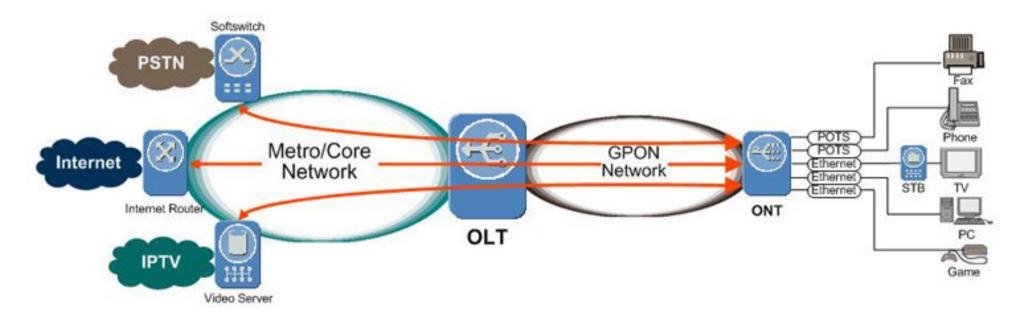


- Bandwidth is associated with services and charged along with services
- No more bandwidth-hungry applications with little service revenue dry up all network bandwidth
- Industry is migrating from pure bandwidth selling to service-oriented offerings



- Both downstream and upstream SLAs and QoS management are required to accommodate all revenue-generating services that could be user and carrier sourced
- Flexible SLAs and QoS configuration are a must to allow diversified service offerings

Services Sourced at Carrier Network

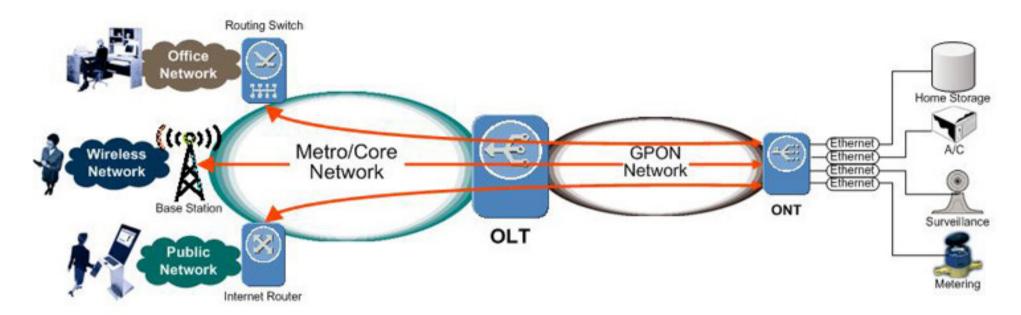


- Service sources are located at carrier network
- Terminal devices are located at user network
- Bandwidth is much higher at downstream than upstream
- Guaranteed SLA is mandated for downstream traffic
- Bandwidth Hungary both at metro/core and access



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Services Sourced at User Network

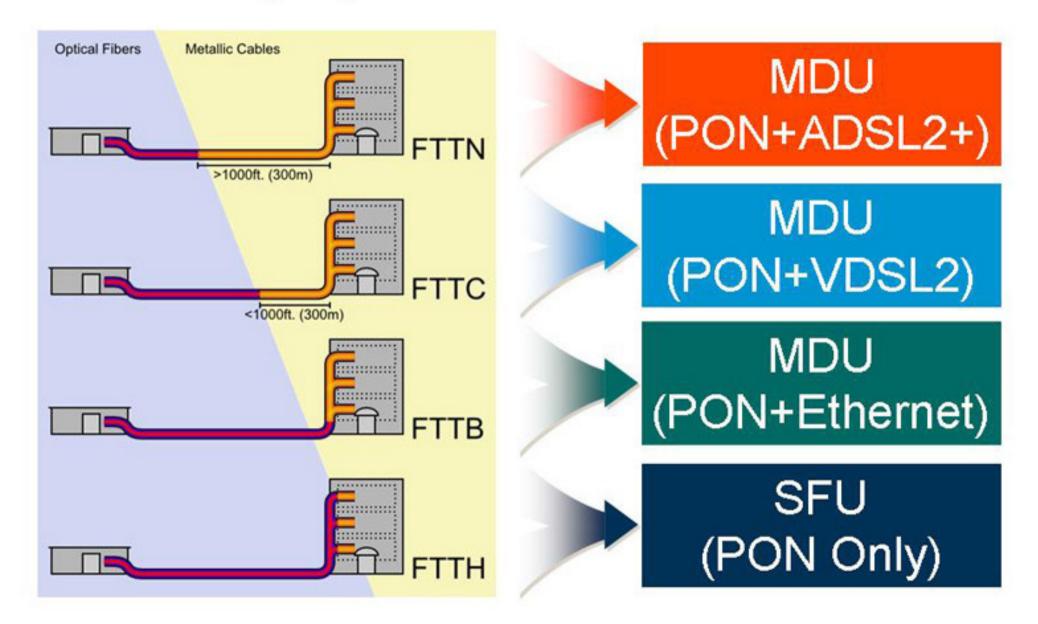


- Service sources are located at user network
- Terminal devices are located at outside of user network
- Bandwidth is higher at upstream than downstream
- Guaranteed SLA is mandated for upstream traffic
- Moderate bandwidth both at metro/core and access

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FTTx Deployment Scenario

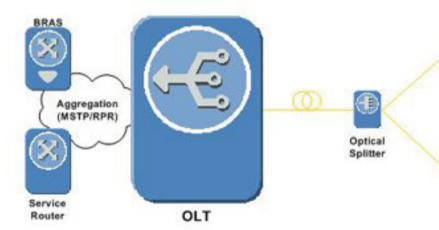


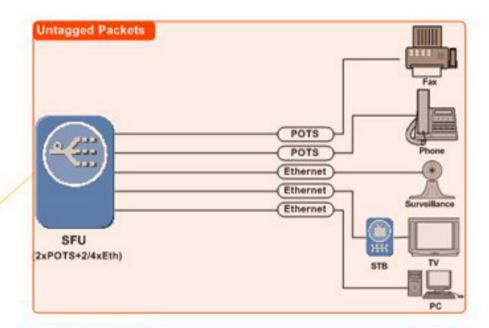


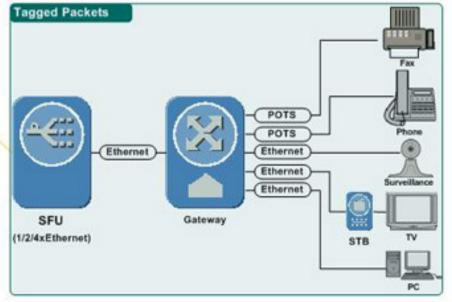
SFU: Deployment Scenario

Greenfield

- Single-family house/villa
- Townhouse
- High-end apartment

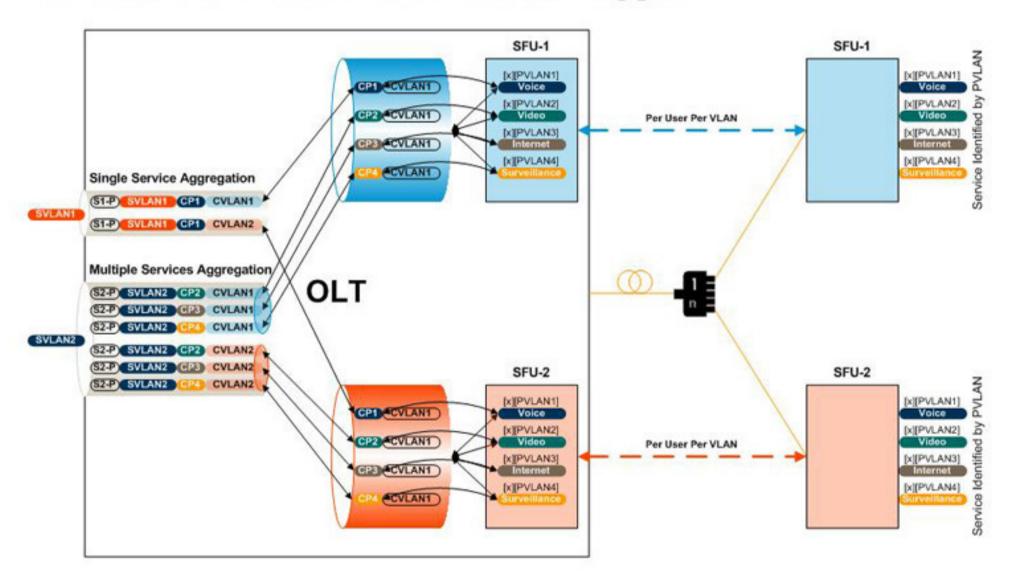






SFU: Service Requirements

Per User Per PVLAN with Packets Tagged

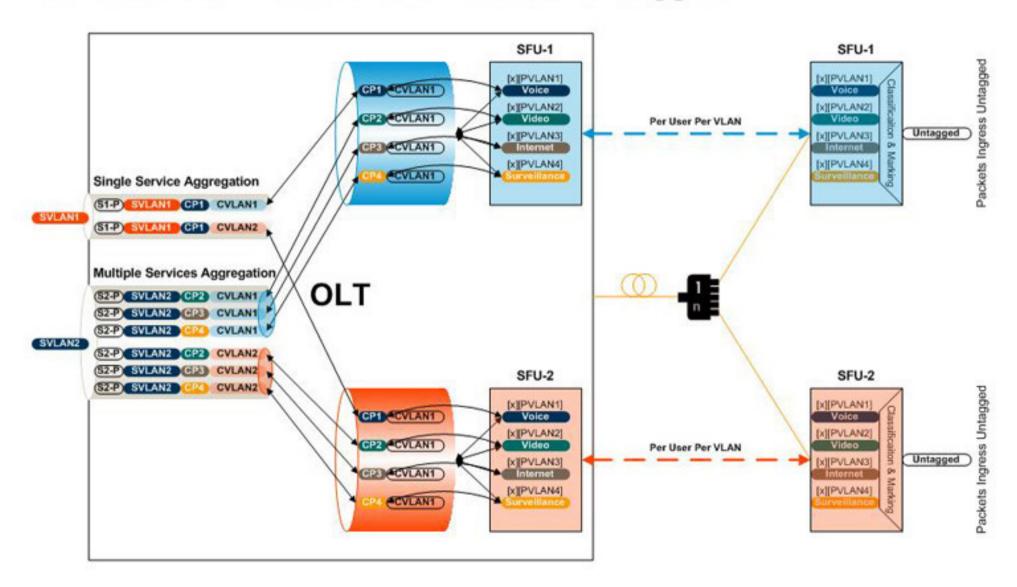




10 (25)

SFU: Service Requirements

Per User Per PVLAN with Packets Untagged



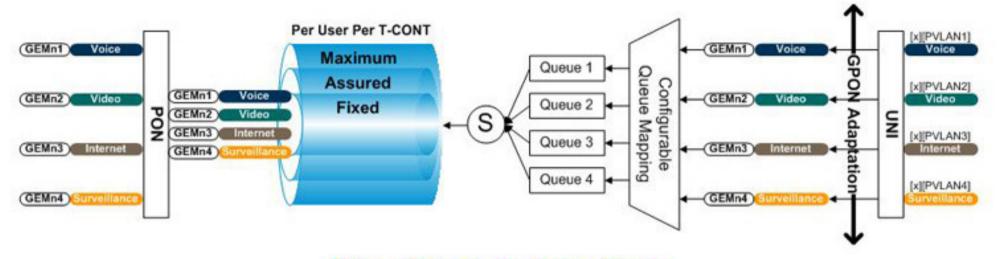


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Weining Gan

SFU: GPON Implementation

ONT Upstream - Per User Per CONT

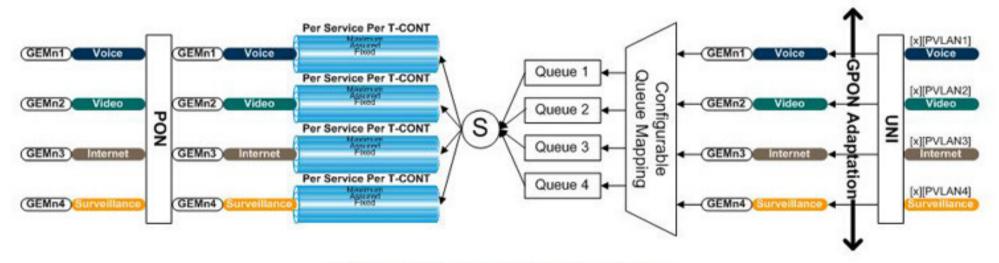


Key Characteristics

- SLA guaranteed at Per Subscriber level
- Unused bandwidth by one service can be re-used by other services under the same subscriber
- Low revenue and high bandwidth applications can eat up all network resource

SFU: GPON Implementation

ONT Upstream - Per User Per Service Per CONT

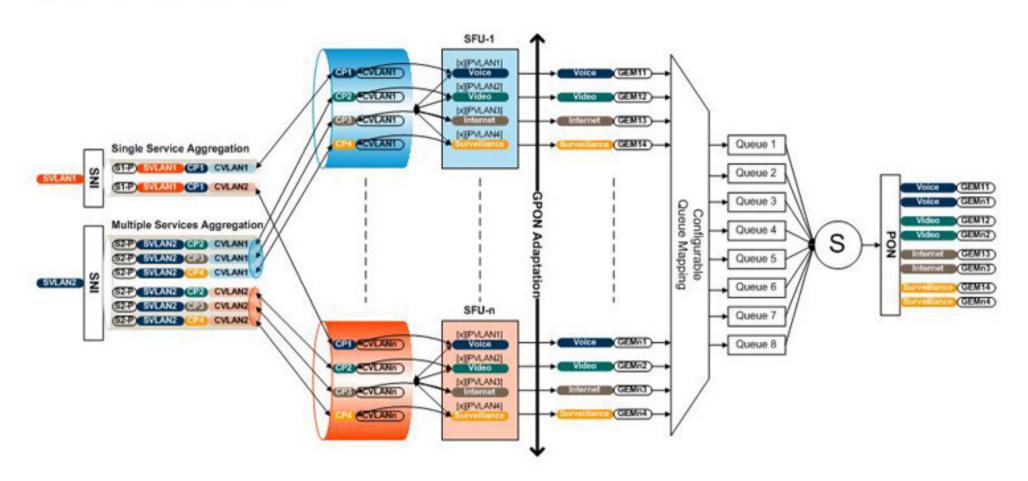


Key Characteristics

- SLA guaranteed at Per Subscriber Per Service level
- Bandwidth can be associated and charged with services
- Unused bandwidth can be shared by the same class of services from other subscribers
- Bandwidth can be maximized for revenue services

SFU: GPON Implementation

OLT Downstream



Services are treated differently based upon their own priority level

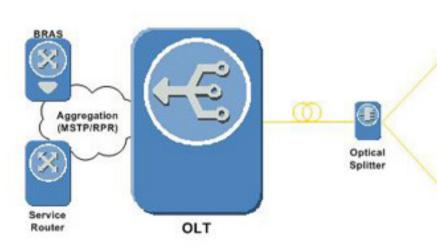
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Ethernet MDU: Deployment Scenario

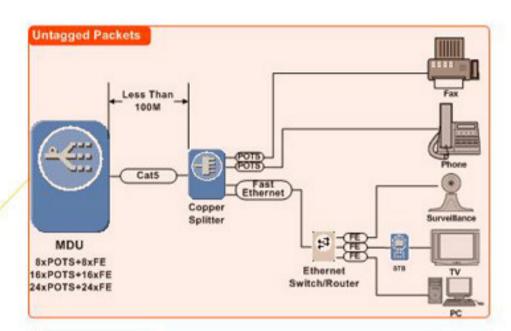
Greenfield

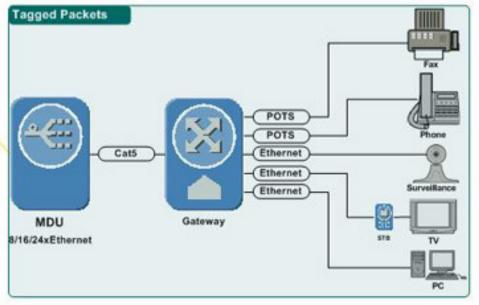
Middle-class apartment building



Brownfield

P2P Ethernet+LAN upgrade

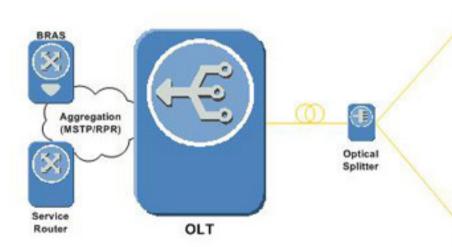




DSL MDU: Deployment Scenario

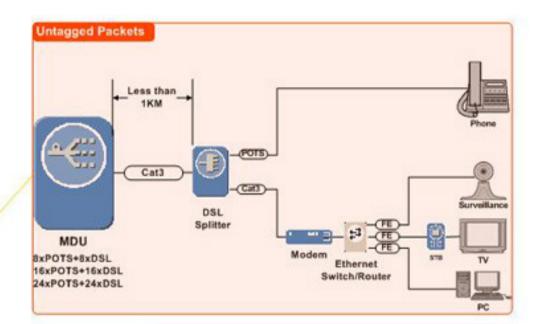
Greenfield

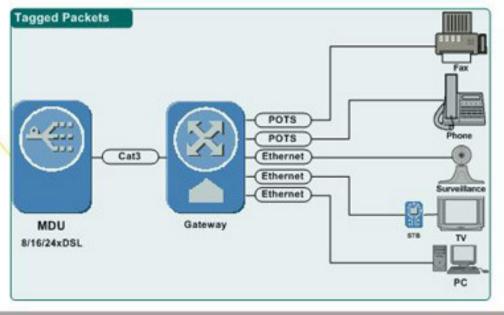
- Rural area access coverage
- Affordable apartment complex



Brownfield

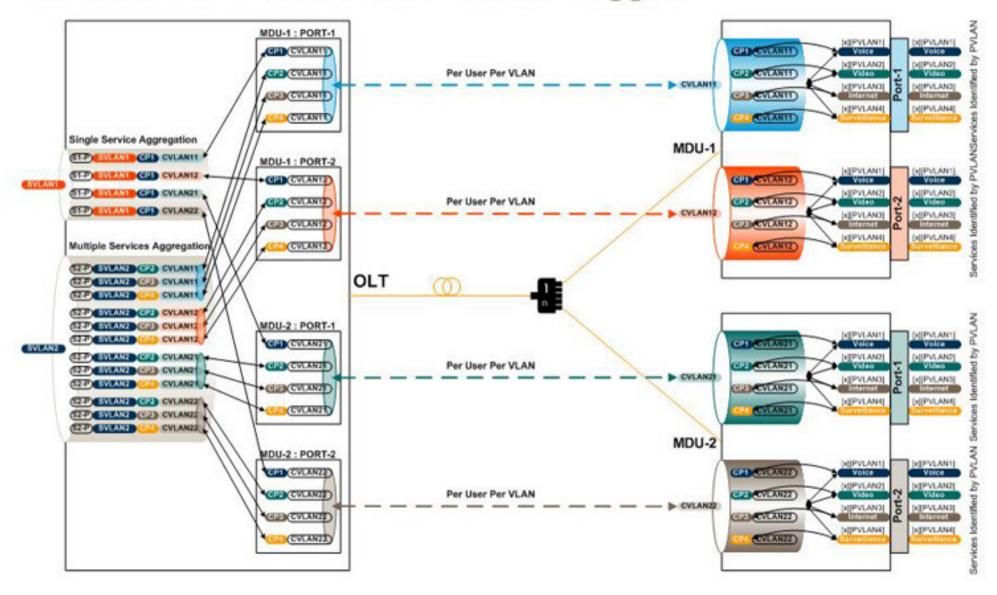
Retrofit existing copper access





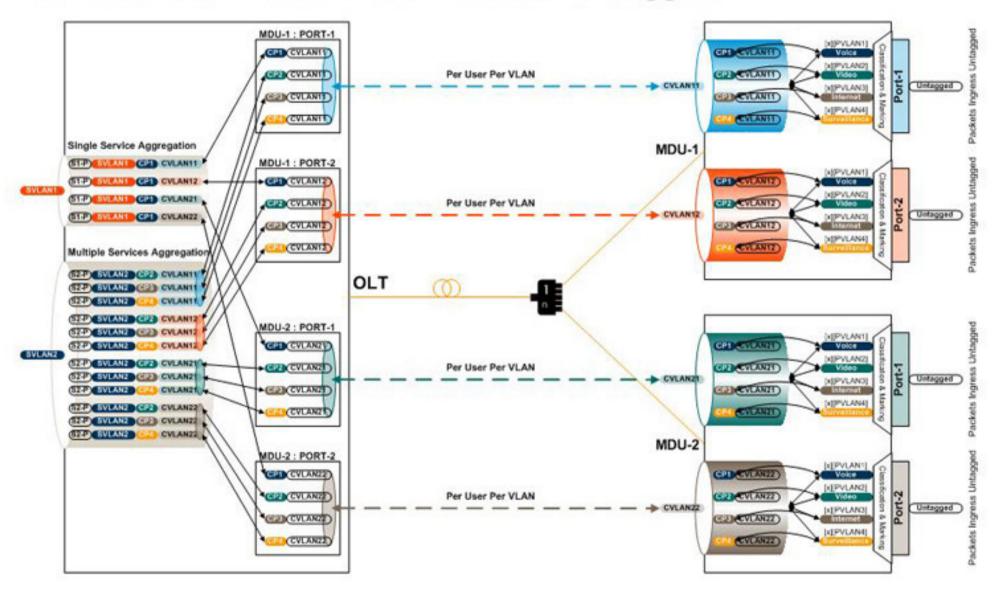
MDU: Service Requirements

Per User Per PVLAN with Packets Tagged



MDU: Service Requirements

Per User Per PVLAN with Packets Untagged



MDU: GPON Implementation

ONT Upstream - Per User Per CONT Queue Configurable Queue Mapping CP1 CHYLLANIES Queue 1 Assured Fixed (x)(PVLAN2) (x)[PVLAN2] Queue 2 CVLANTT GEM12 [x][PVLAN3] MIPVLAN3 GEM 13 M CVLANTI Queue 3 GEM14) [x][PVLAN4] (x)[PVLAN4] Queue 4 (CVLAN11) (GEM14) (GEMn3) (GEMn4) Per User Per T-CONT Configurable Queue Mapping CPID CVLANIZ Assured Fixed Queue 1 [x][PVLAN2] Queue 2 CVLAN12 [x][PVLAN3] (x)[PVLAN3] GEMin3 XIII Queue 3 CVLAN12 [x][PVLAN4] [x][PVLAN4] CVLAN12 Queue 4

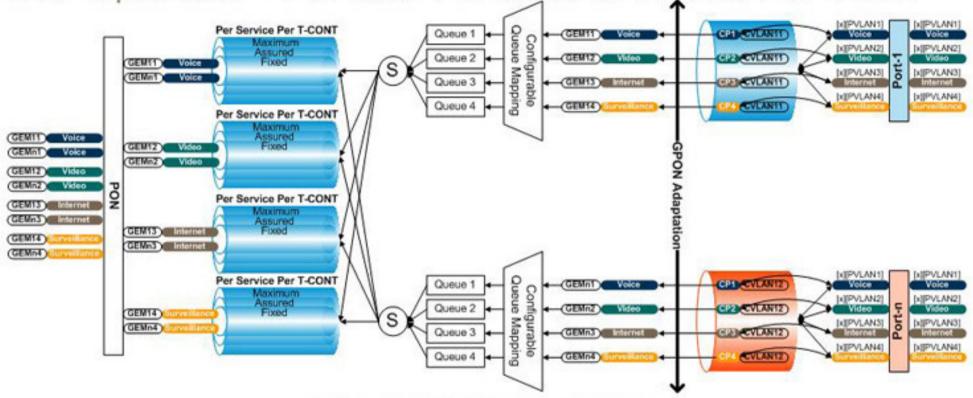
Key Characteristics

- SLA is guaranteed at Per Subscriber level
- All bandwidth for one subscriber will be shared by all services
- High bandwidth apps of little revenue can dry up all network resource

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MDU: GPON Implementation

ONT Upstream - Per User Per Class of Service Per CONT



Key Characteristics

- SLA is guaranteed at Per Subscriber Per Service level
- Bandwidth can be associated and charged with services

20 (25)

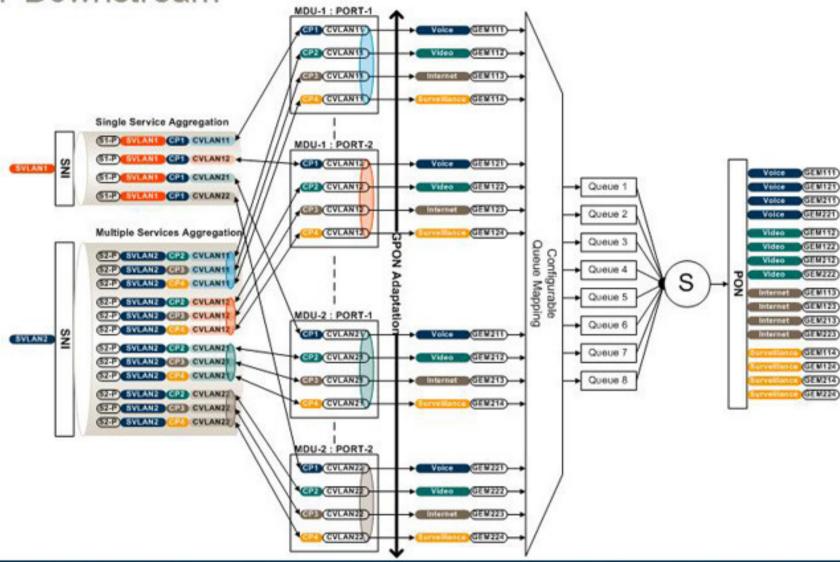
- Unused bandwidth is shared by same class of services of other users
- Bandwidth can be maximized for revenue generating services

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MDU: GPON Implementation

OLT Downstream



Services are treated differently based upon their own priority level

21 (25)

Key Messaging



Industry is transferring from traditional bandwidth selling to service oriented offerings. Both downstream and upstream SLAs are equally critical to ensure quality delivery of services



GPON has technology superiority and intrinsic QoS mechanism to guarantee SLAs at both Per User and Per User Per Service levels for all deployment scenario

Worldwide Standardization

Component

System

Operator













































































NEC FUÏTSU





HITACHI























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Increasingly Stronger Ecosystem

Component

System

Operator







Worldwide Acceptance



GPON

North America: USA, Canada Asia Pacific: India, Singapore Europe: France, Italy, Germany, Norway, Sweden, Demark, Russia, Spain Latin America: Brazil, Argentina

GPON+EPON

China, Hong Kong, Taiwan, Korea

25 (25)

EPON

Japan

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