YANG Data Model for SD-WAN VPN service model delivery

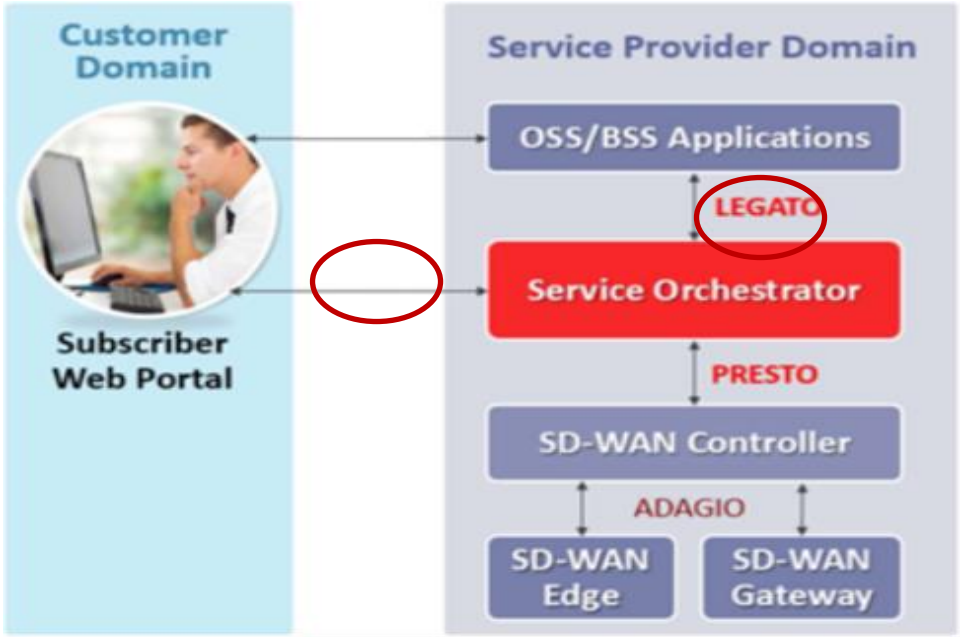
draft-sun-opsawg-sdwan-service-model-02

Qiong Sun
China Telecom

Bo Wu
Qin Wu
Huawei Technologies

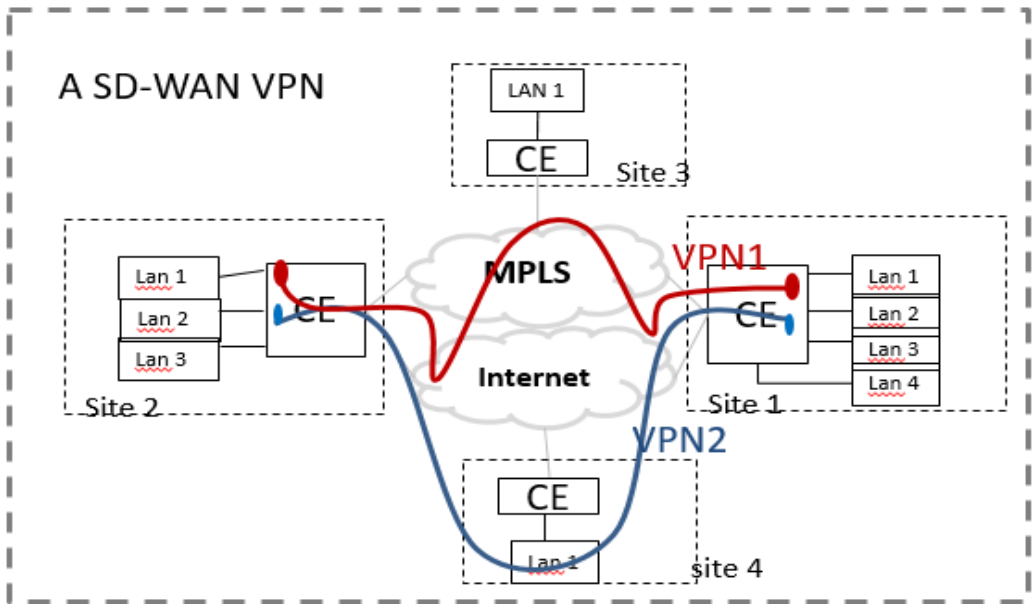
Updates since last IETF 103

- The draft is intended to support Managed SD-WAN service, which share the same purpose with MEF SD-WAN Service Attributes draft specification
  - Align with MEF SD-WAN Service attributes specification, which is primarily used for customer and service provider interfaces, such as LEGATO
  - Change the MEF SD-WAN naming to IETF terminology
- Add section 3 to explain the service model usage, which is used in the customer-facing interface instead of direct configuration of network elements



SD-WAN service Model overview

IETF SD-WAN VPN Service Model Term	MEF SD-WAN Services Term
CE	SD-WAN Edge
VPN service	SD-WAN Virtual Connection(SWVC)
VPN End Point	SWVC End Point
Overlay Tunnel between CPEs, for example IPSec/GRE	Tunnel Virtual Connection
Site	SD-WAN UNI
WAN connectivity	Underlay connectivity Service
LAN access	UNI Subscriber Network



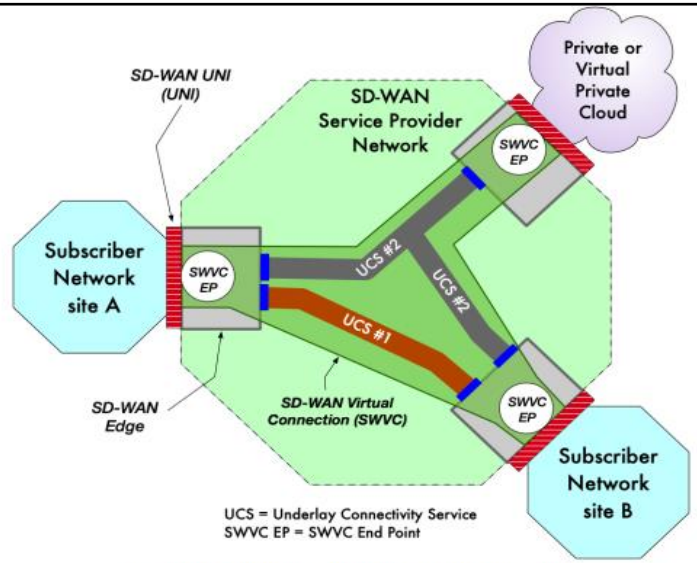
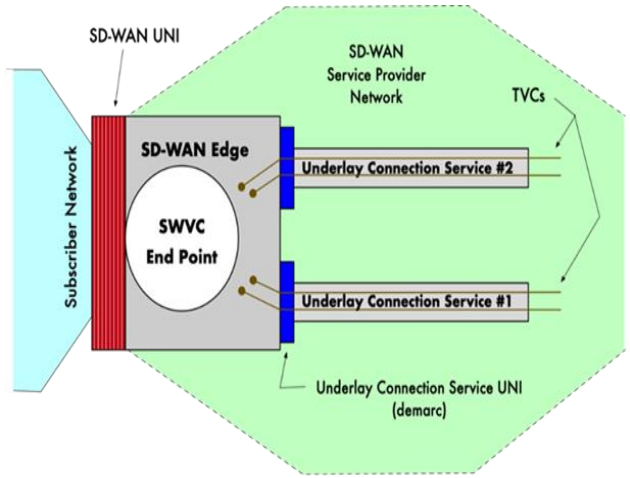
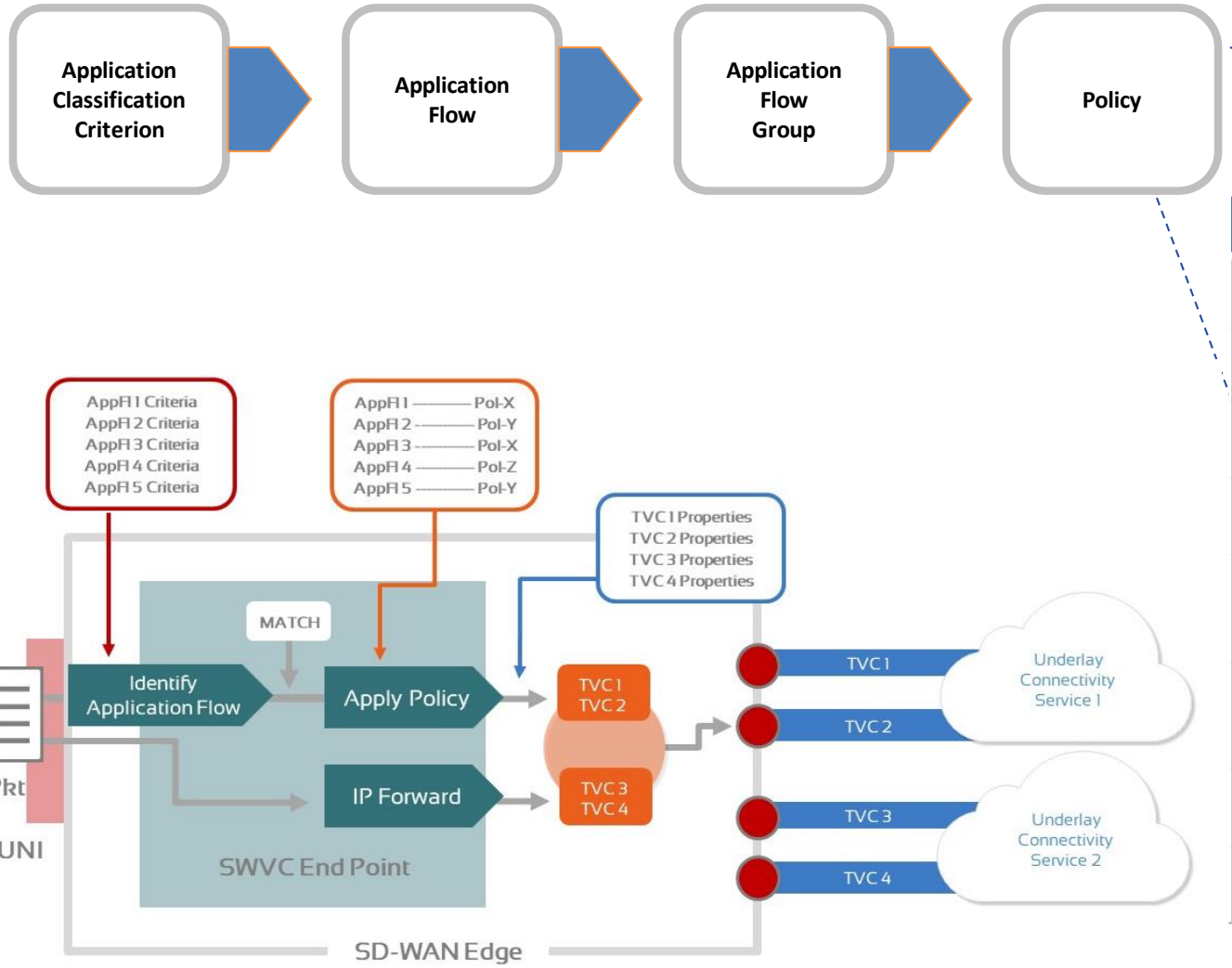


Figure 1 – Components of an SD-WAN Service

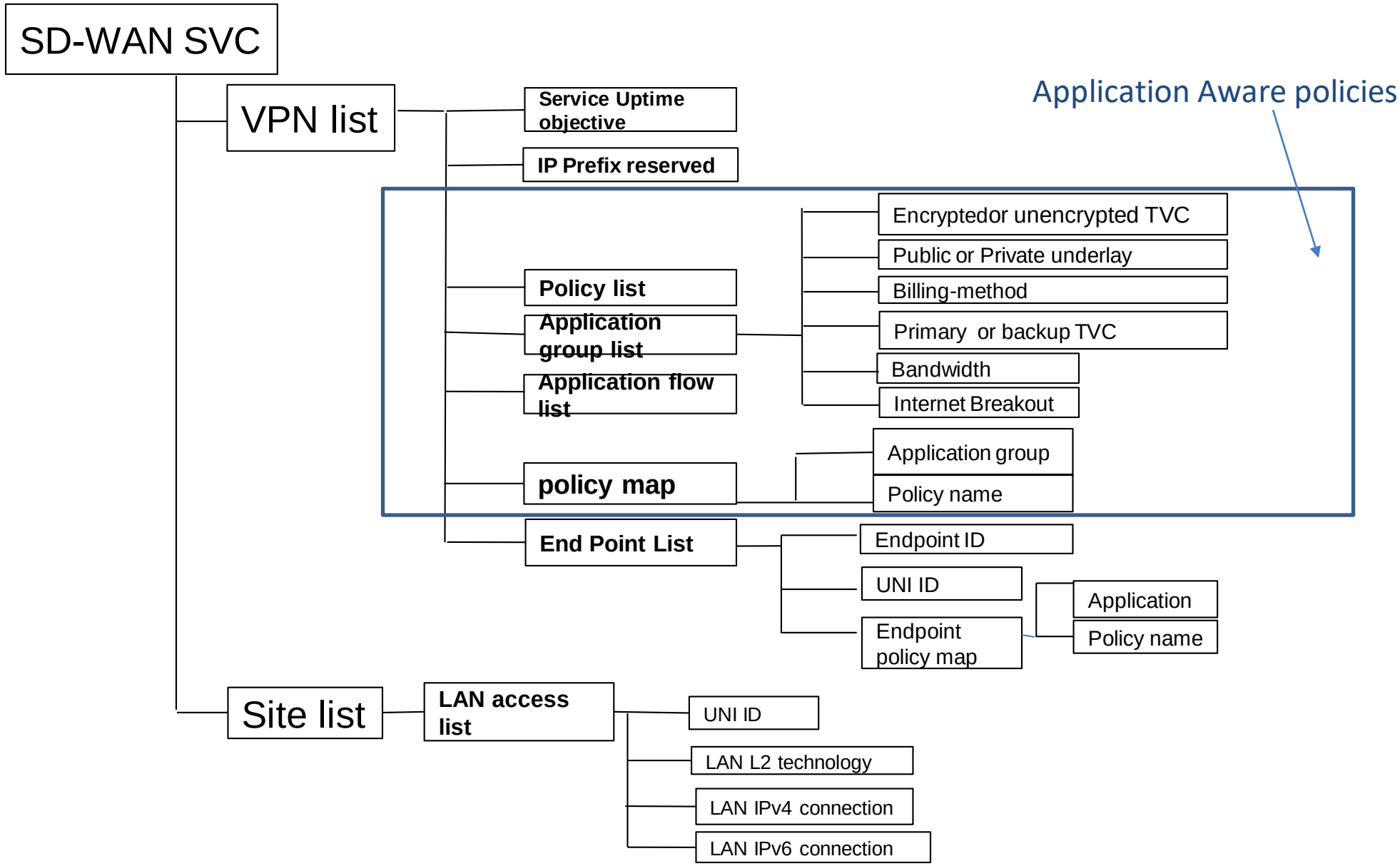


SD-WAN Application Policy



Policy	Description
Forward	Should the application be accepted for forwarding over the SWVC
Encryption	Does the application require transport to be en-crypted
IP-ATTRIBUTES	Specifies important attributes of the IP path like MTU and fragmentation
UNDERLAY	Must the application traverse a private managed network only (ex: MPLS, CE, etc)
CHARGE-TYPE	Can this application be sent over usage-based or flat-rate transport
BACKUP-USAGE	Can this application use a backup link or only a primary link? This provides a mechanism to shed bandwidth if the backup infrastructure doesn't support total bandwidth.
COS	The Class of Service (i.e., Performance Objectives to use for IP Packets in the Application Flow.
BANDWIDTH-POLICY	Used to parameterize the bandwidth limits that can be placed on Application Flows

SD-WAN model overview



Next Steps

- Solicit more comments
  - Your comments and suggestions are welcome!
- Seeking WG adoption