

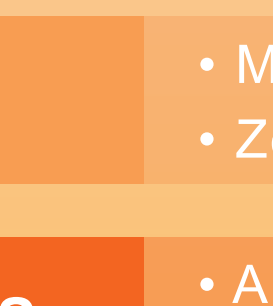


LUMINA ACCELERATES MULTI-VENDOR INTEROPERABILITY

Successful EANTC Tests with Open Source Control

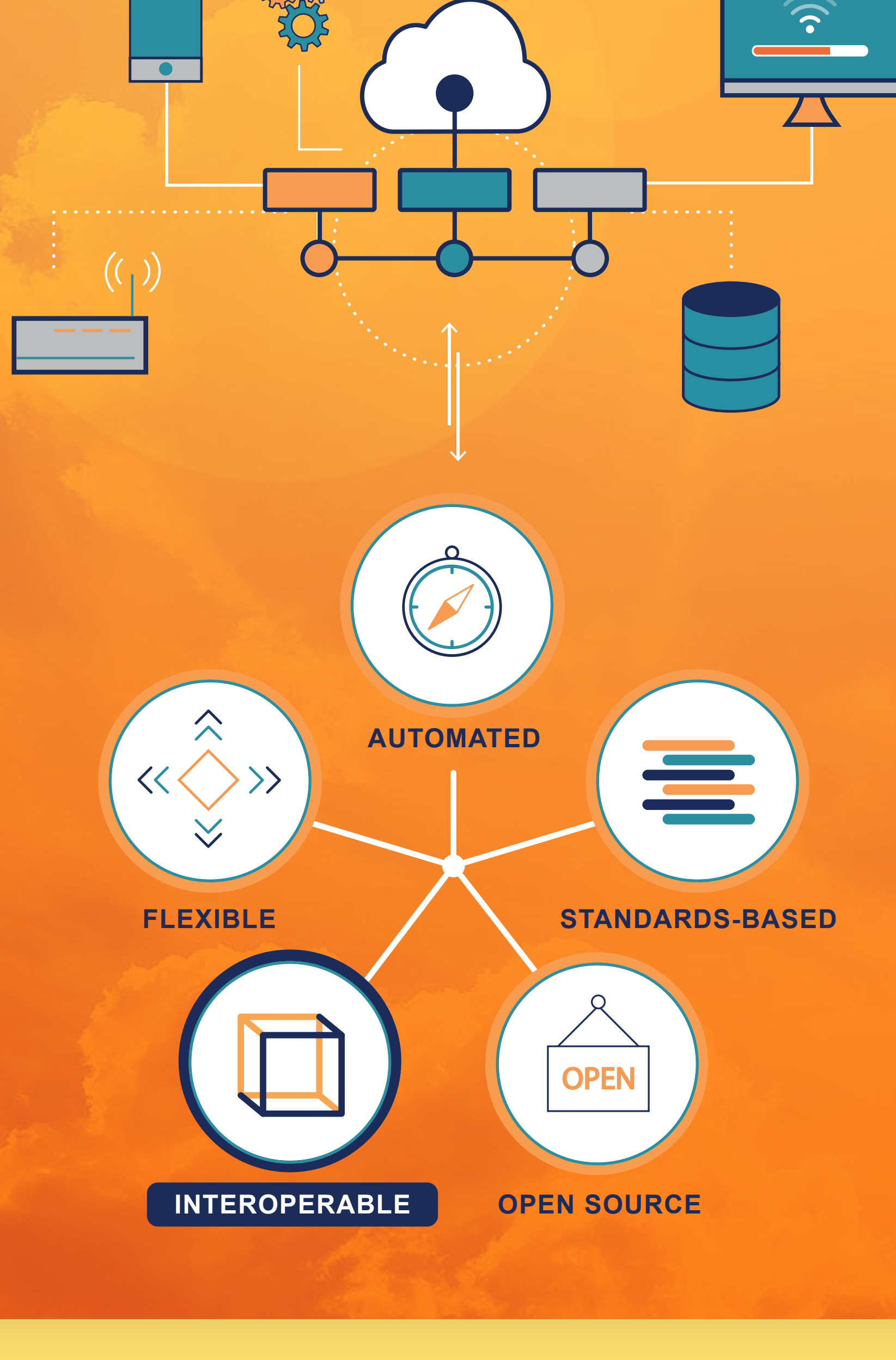
EANTC

NEXTGEN NETWORKS ARE COMPLEX,
MULTI-VENDOR ENVIRONMENTS



APPLICATION	<ul style="list-style-type: none"> • Microsoft • Zoom • Salesforce • SAP
NETWORK DATA ANALYTICS	<ul style="list-style-type: none"> • Amdocs • Ericsson • Ciena • Arista
ORCHESTRATION	<ul style="list-style-type: none"> • Amdocs • Ciena • Cloudify • Affirmed
CLOUD	<ul style="list-style-type: none"> • AWS • Azure • Google Cloud
VIRTUAL MANAGEMENT	<ul style="list-style-type: none"> • OpenStack • VMware
NETWORK CONTROL	<ul style="list-style-type: none"> • Lumina (Controlling Cisco, Juniper, Nokia, Ericsson, etc.)
NETWORK OPERATING SYSTEMS	<ul style="list-style-type: none"> • Arrcus • Arista • Dell Sonic
DISAGGREGATED HARDWARE	<ul style="list-style-type: none"> • Dell • HPE • Fujitsu • Intel

DELIVERING CUSTOMIZABLE, ON-DEMAND 5G SERVICES WILL REQUIRE AUTOMATION ACROSS VENDOR DEVICES

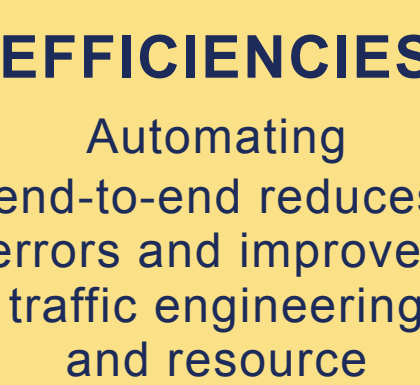


INTEROPERABILITY ENABLES CONTROL

Control is needed to re-imagine how you serve your subscribers—design and operate your network your way



INNOVATION
New revenue-generating business models and valuable partnerships with OTT providers



EFFICIENCIES
Automating end-to-end reduces errors and improves traffic engineering and resource optimization



IMPROVED CUSTOMER EXPERIENCES
Accelerated service delivery and simplified troubleshooting



REDUCED COST
Increased vendor competition and integration of best-of-breed solutions

LUMINA IS A CONDUIT FOR INTEROPERABILITY

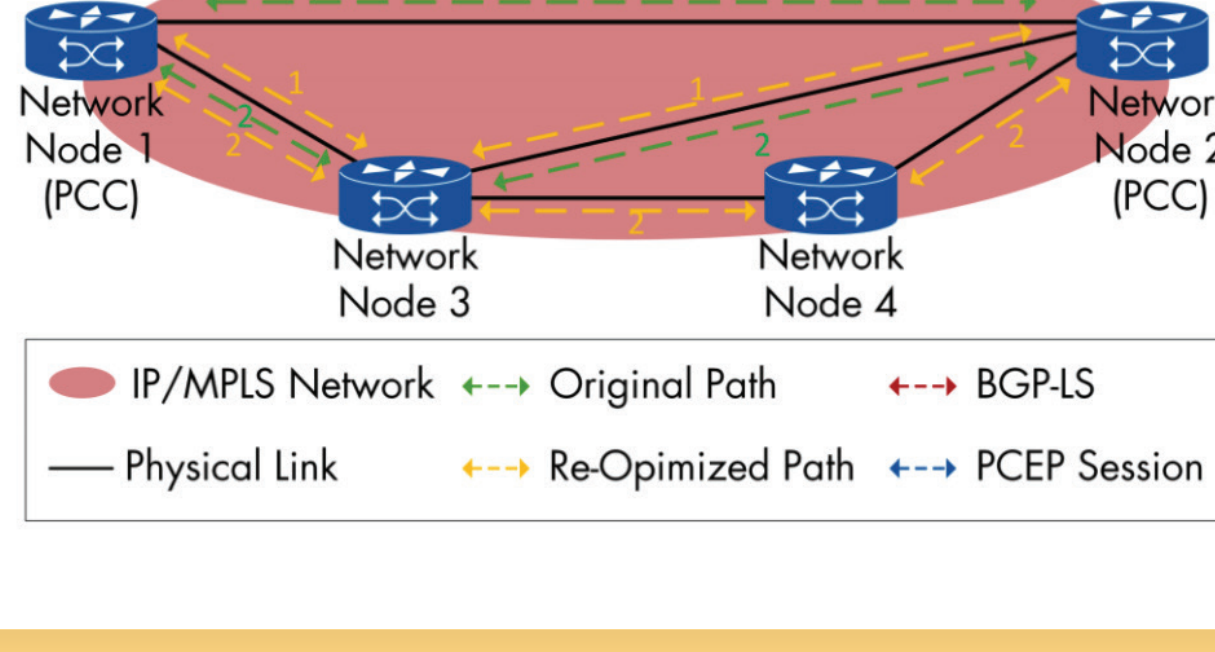
Lumina's open source automation tools enable translation and control of any device at any layer of the network

LUMINA ENABLED SUCCESSFUL EANTC TEST CASES

SDN

PATH COMPUTATION ELEMENT PROTOCOL

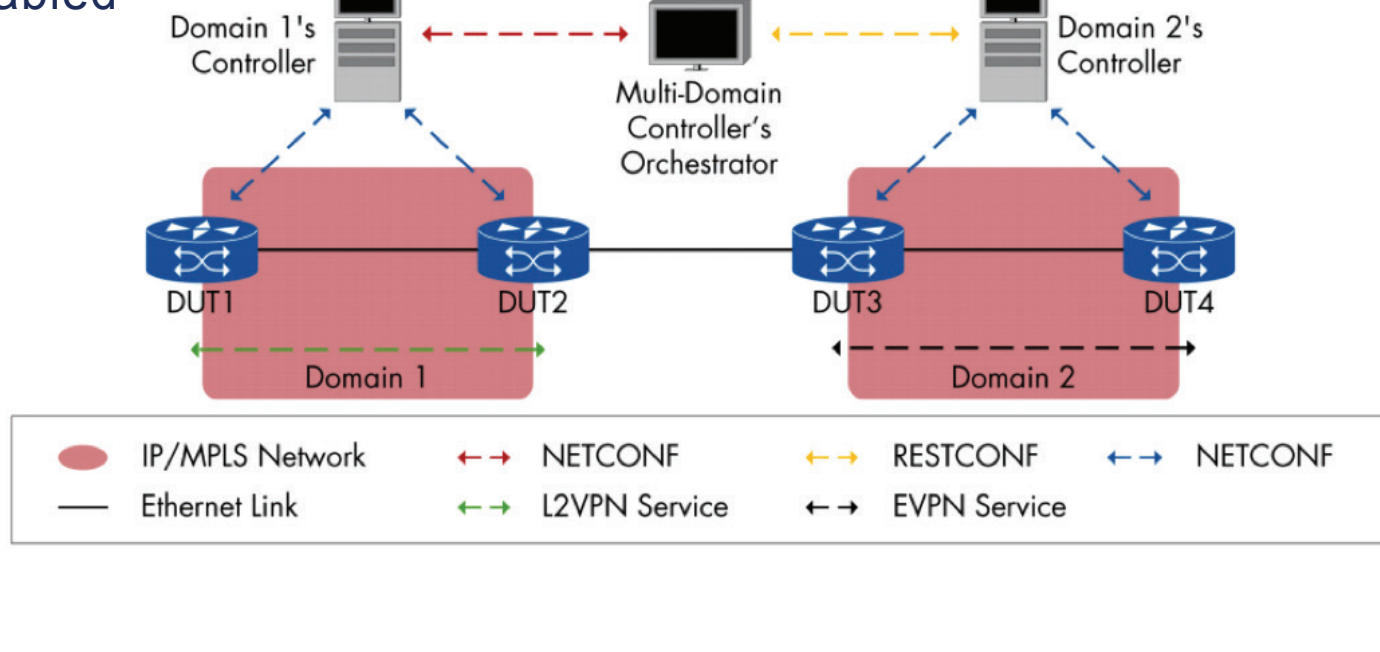
- ✓ Topology discovery
- ✓ Automated path rerouting when link cost changed



SDN

MULTI-DOMAIN + MULTI-VENDOR CONTROLLER

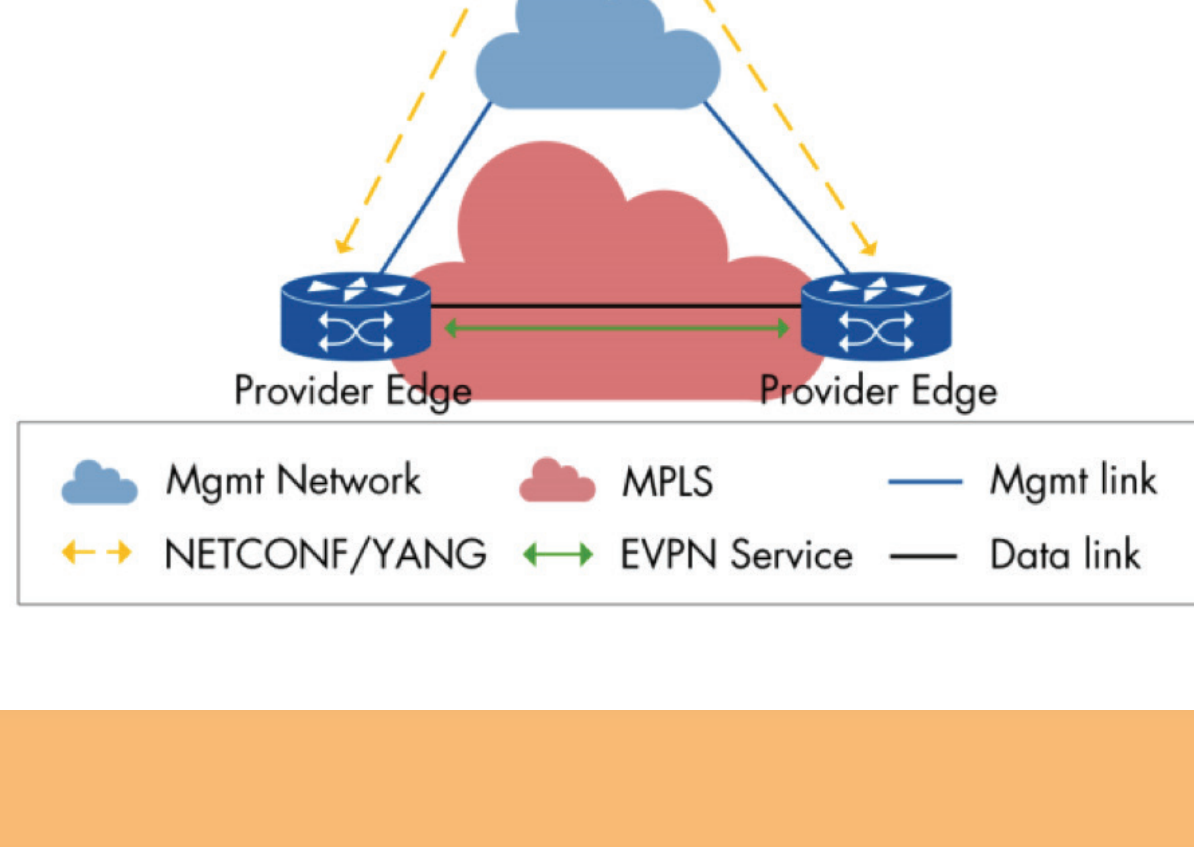
- ✓ Workflow Engine decomposed, translated and sent southbound requests
- ✓ Created Service and enabled traffic flow end-to-end



SDN

EVPN SERVICE CREATION USING NETCONF

- ✓ Enabled deployment of service YANG models
- ✓ Processed and validated RESTCONF requests & enabled traffic flow end-to-end



SDN

NETWORK AUTOMATION USING NETCONF

Enabled the below for the 3 vendors involved in the testing:

- ✓ Mounting device
- ✓ Retrieve full device config
- ✓ Perform config change - enable & disable
- ✓ Get config interface operational state - show up & down

