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# Digital Infrastructure Evolution Segment Routing Services

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**Senior Specialist Packet Architecture**



# SP Network Evolution Fitting Market Requirements

> Bandwidth  
< Latency  
> Coverage

Improve TCO

Sustainable  
Digital  
Infrastructure



"Cloud Like"  
On Demand  
1-100G

E2E SLA  
-  
Visualization  
Underlay

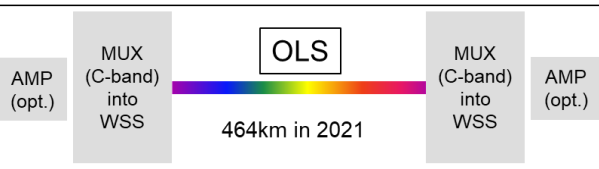
Global Scale  
SR-TE  
-  
"Wave Like"  
services



RON 400G



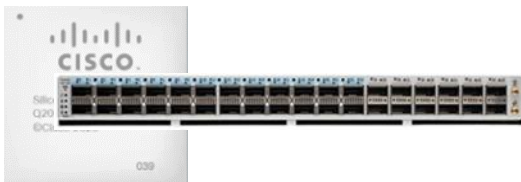
Transponder  
400G ZR+  
(next bright)



Transponder  
400G ZR+  
(next bright)

CAPEX  
-67%

Next Gen Silicon @ Core



Power  
-97%

CAPEX  
-69%

BW / 1U  
x35  
(x48)



SR-PM

Constrained  
path

SR-policy  
No fallback

Circuit Style  
1:1

SR-policy  
advertising

Max SID depth

SRS APPS

PLA & SLS

Visualization  
and  
Performance  
Analytics

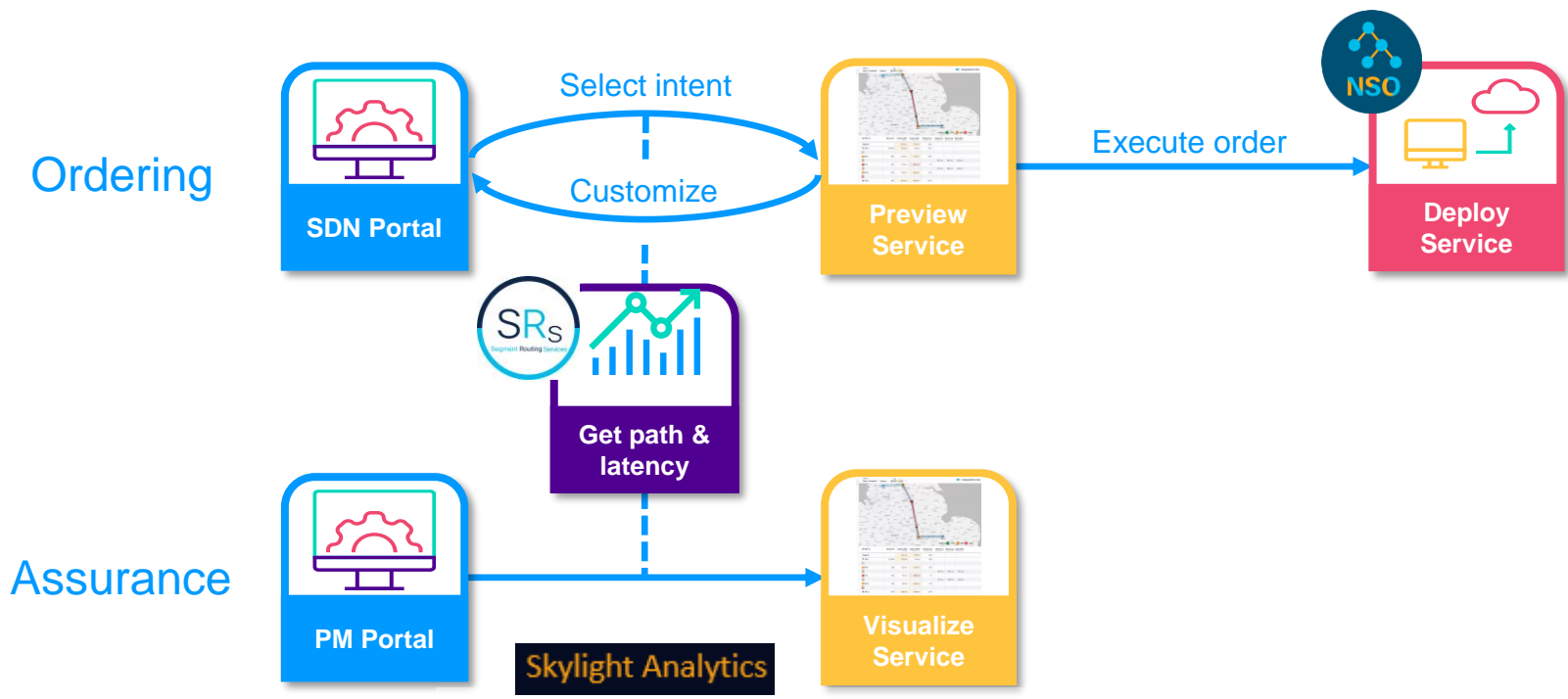
Automation  
-  
Orchestration



Skylight Analytics

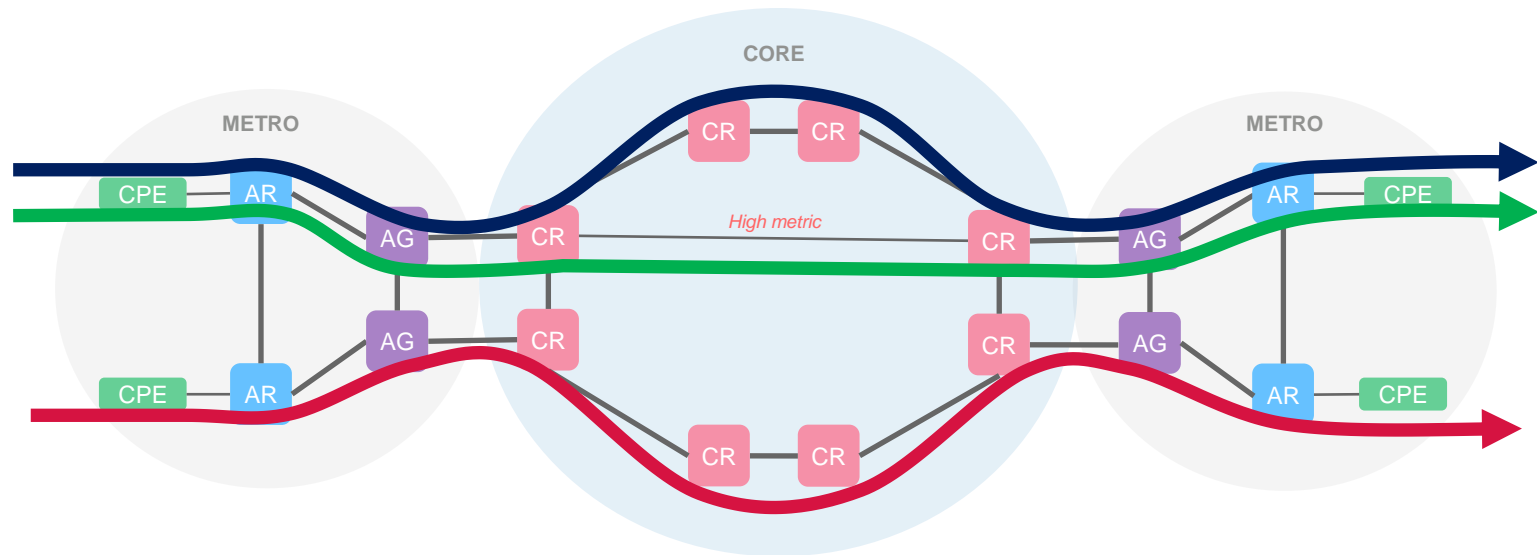


# Cloud Like Service Consumption

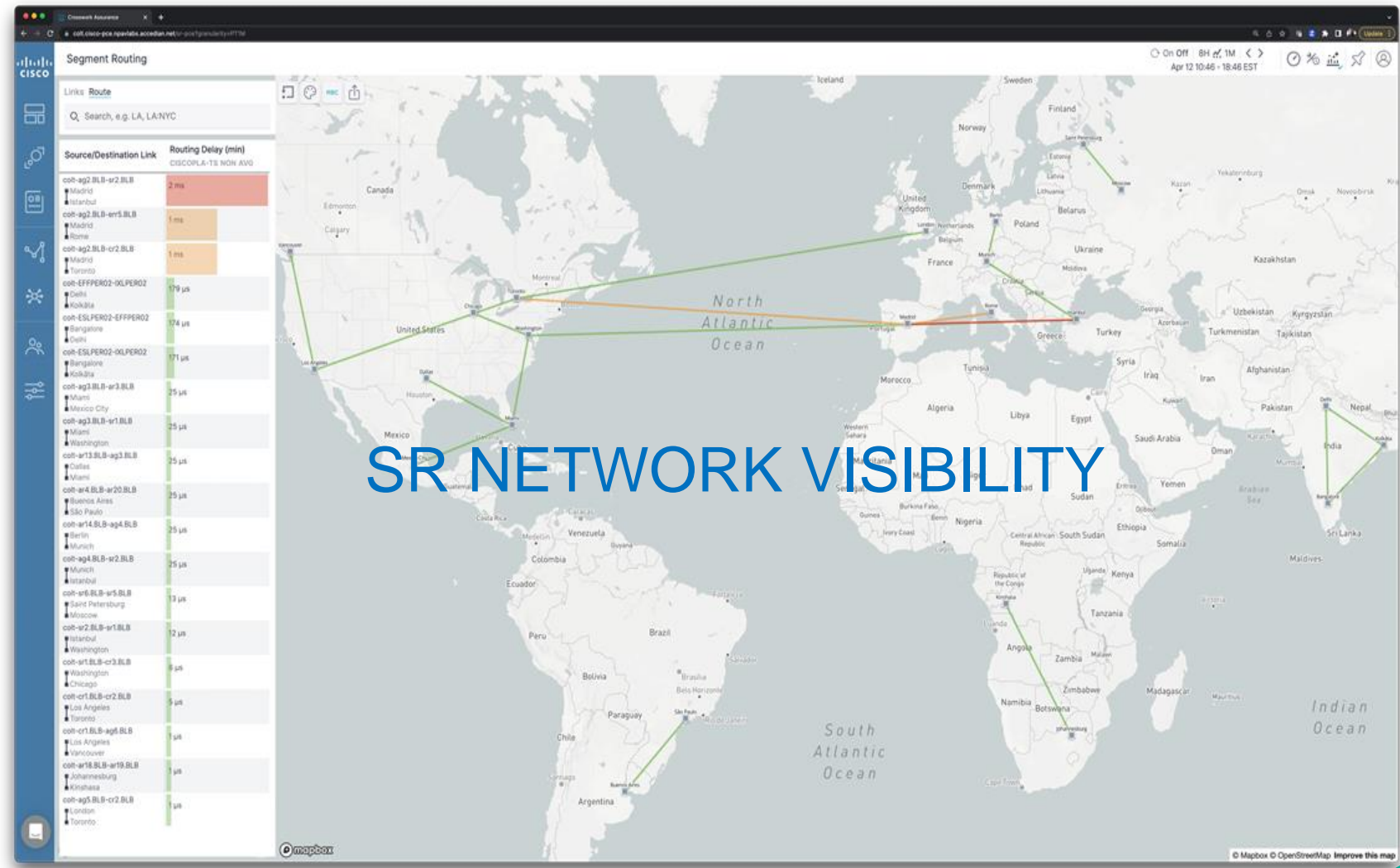
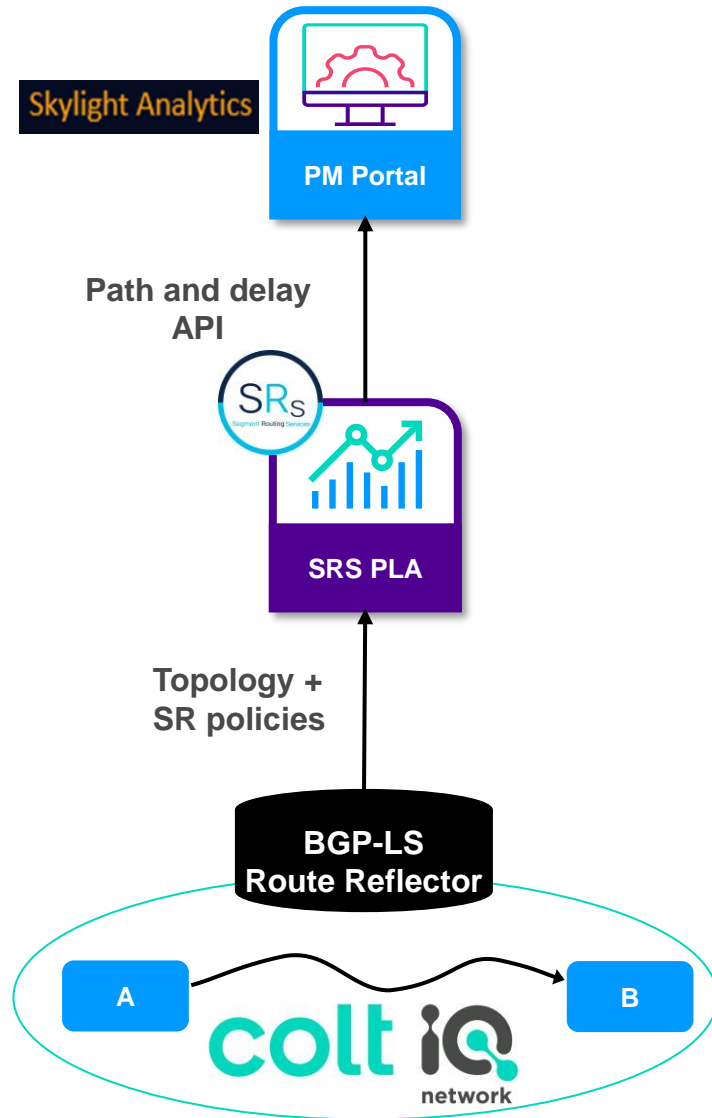


**ANY INTENT**

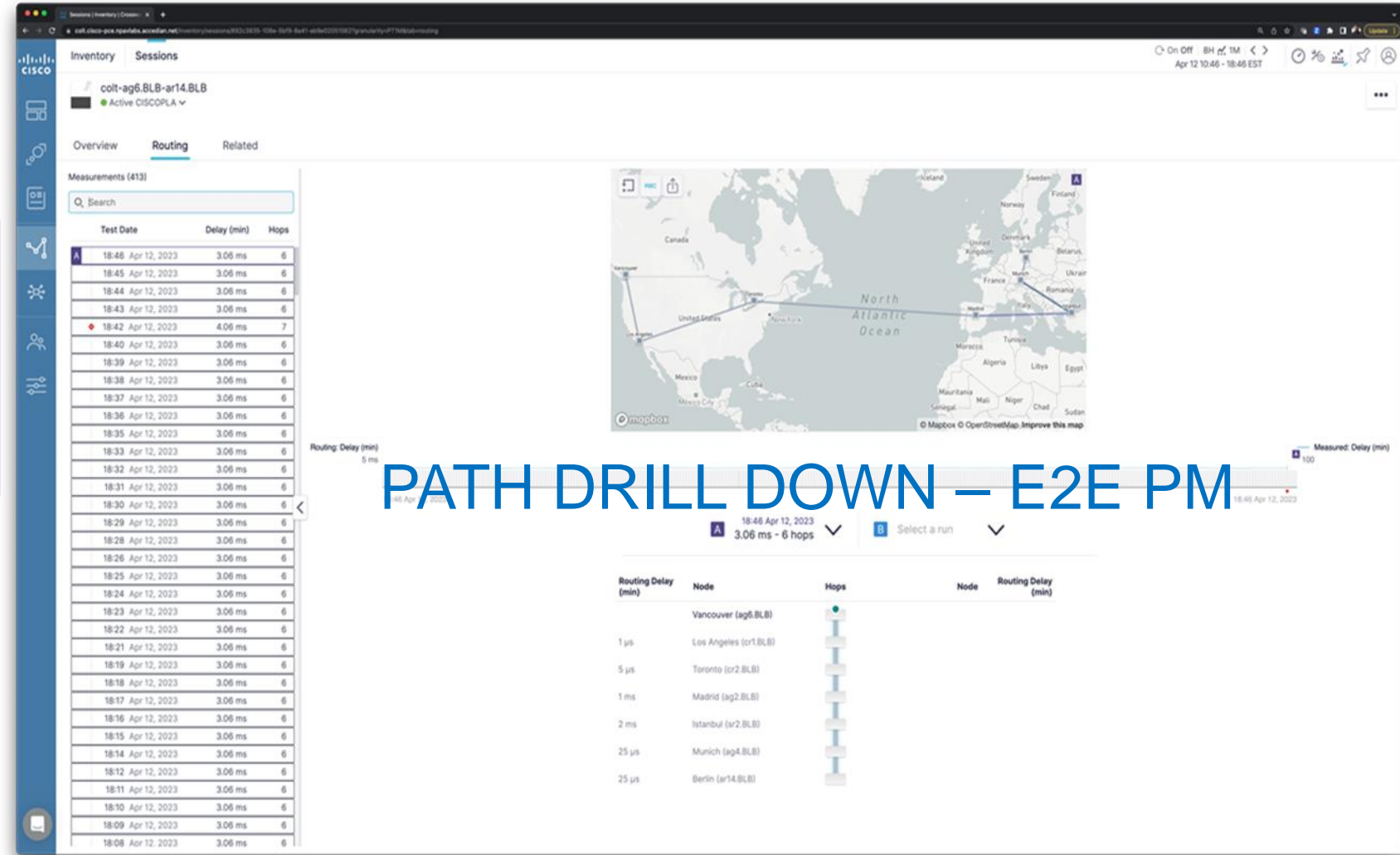
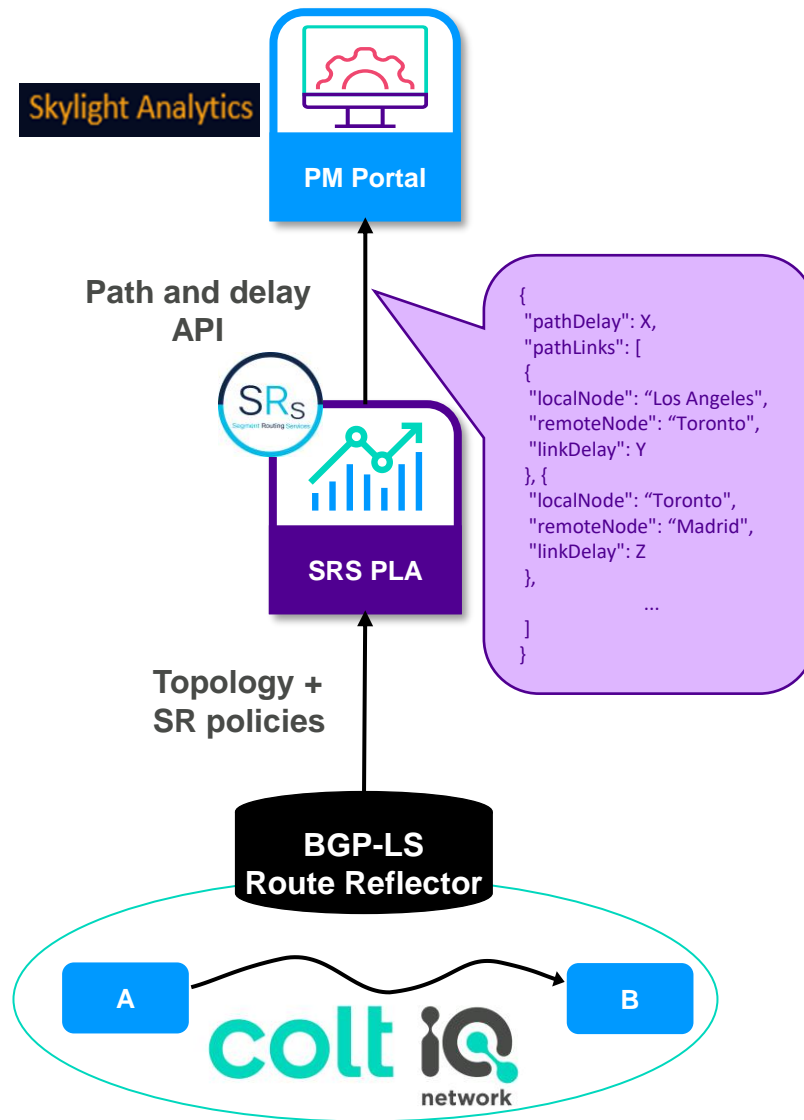
Unprotected	Protected
IGP shortest path (metric)	Low Delay
Disjoint	SLA driven Loss, Delay
Custom path Hop by hop	



# SRS Propagation Latency Analytics

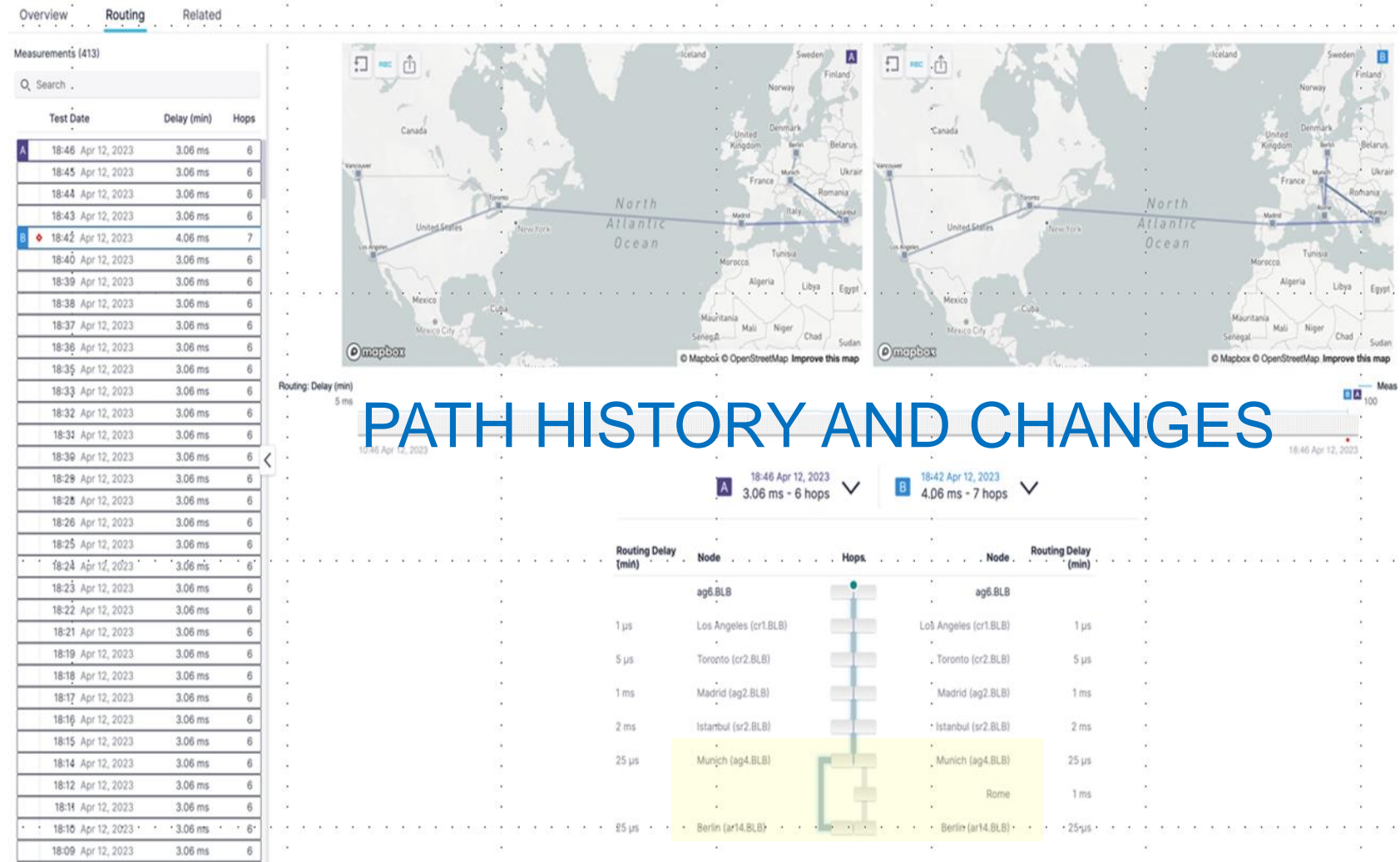
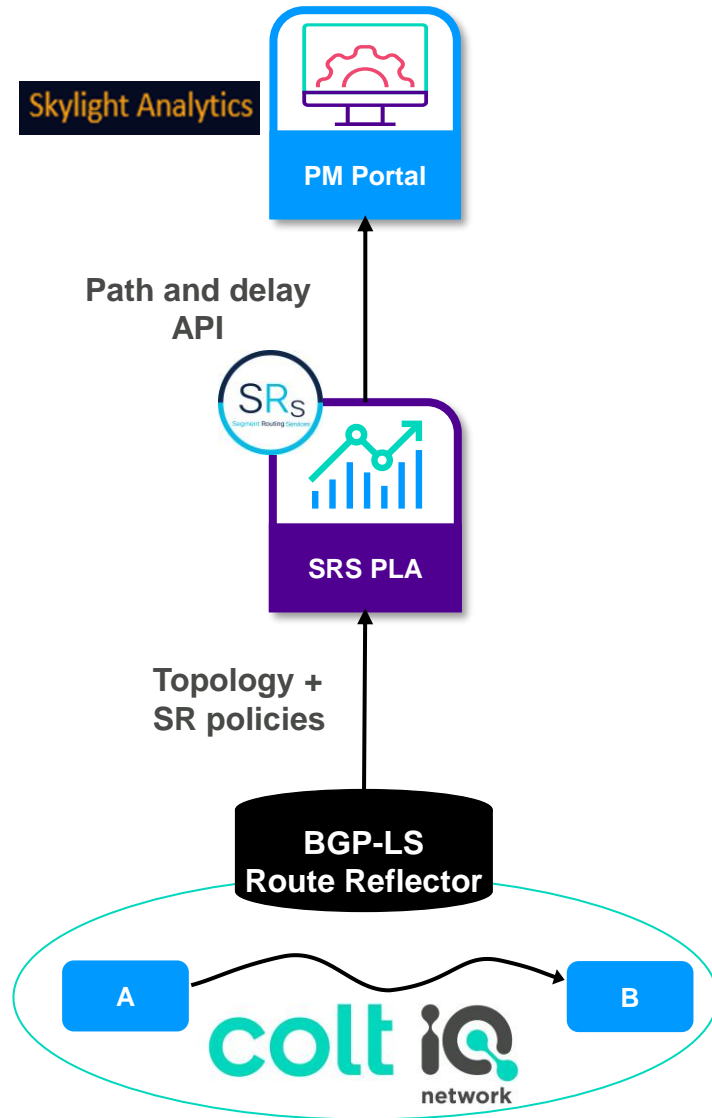


# SRS Propagation Latency Analytics

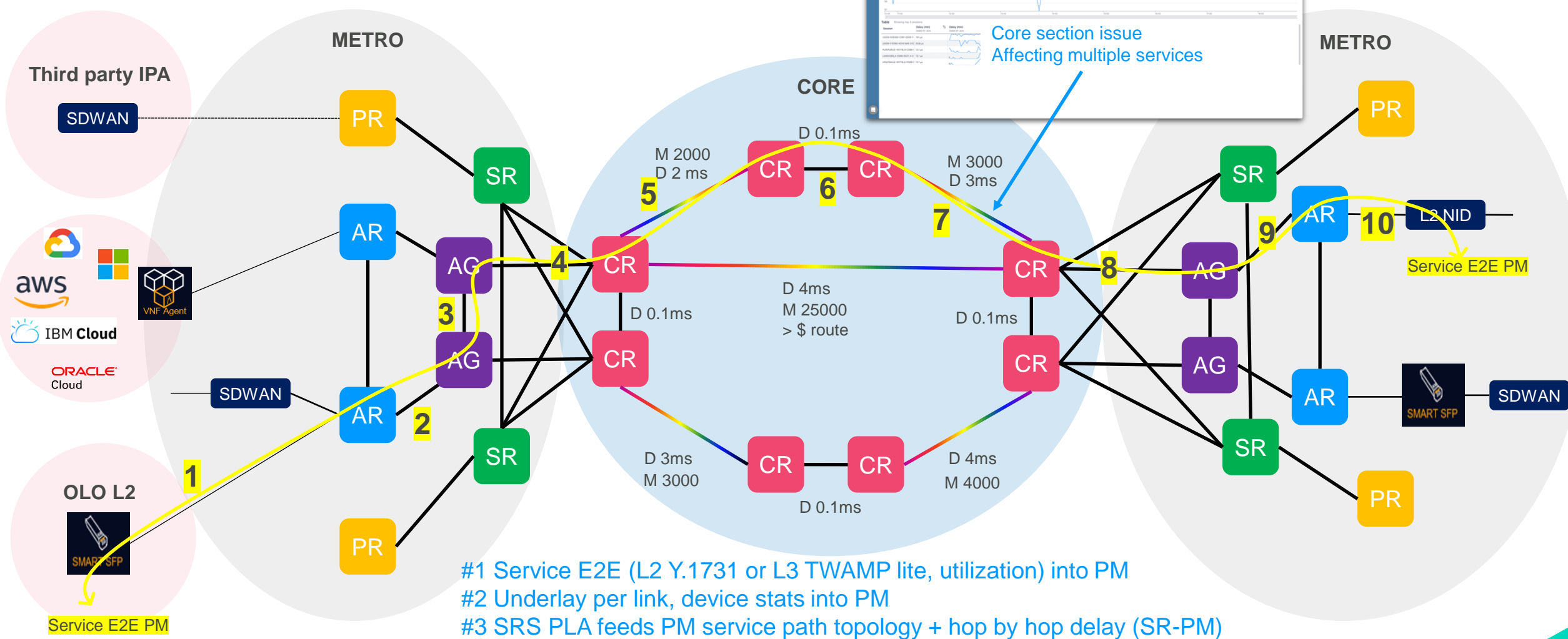




# SRS Propagation Latency Analytics

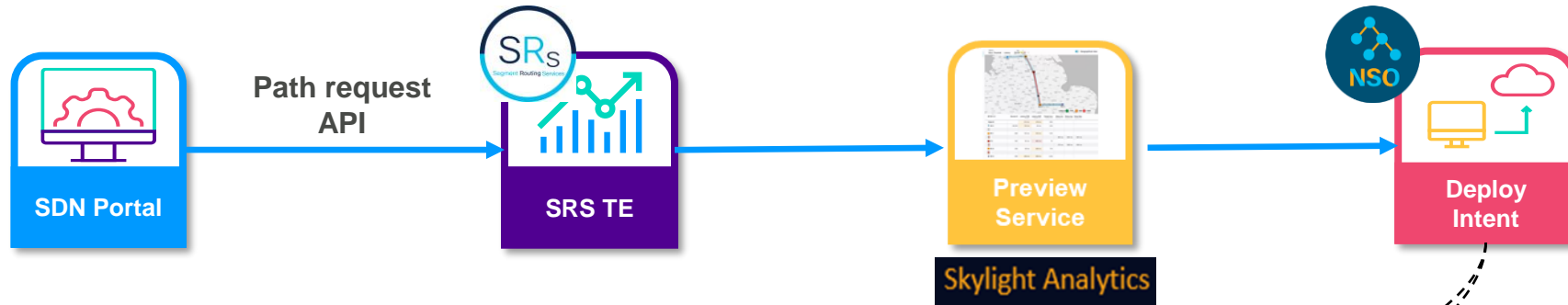


# Service Assurance Enhancements

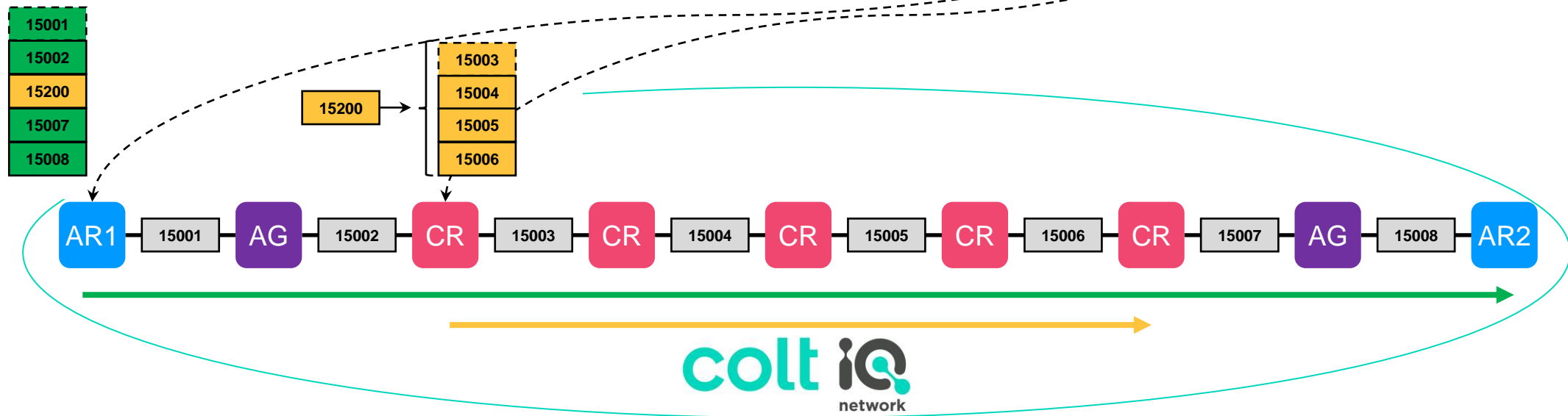


Combining these three allows faster RCA, trigger mitigation next steps ...

# SRS On-Demand Transit Policy “Sid List Splitter”



**Intent example:** Deliver unprotected P2P service AR1 – AR2 (explicit path)





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Thank you

