

# Advertising SR policies in BGP (BGP SRTE)

## Interoperability Results

---



MPLS World Congress  
April 2019



# Why are we here?

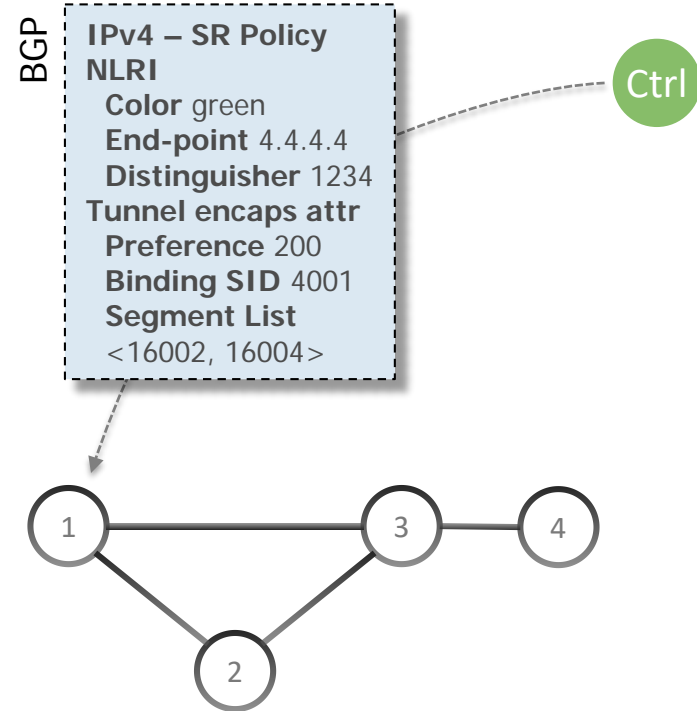
- Provide an overview of **BGP-signaled Segment Routing Policies interoperability** testing conducted at EANTC 2019
- **FIRST** public interop in the industry!
- But what is BGP SR-TE?

# BGP SRTE – What is it?

A new BGP SAFI (73) / NLRI  
Used to advertise SR Policy to  
a router in order to install a  
SRTE path at the head-end

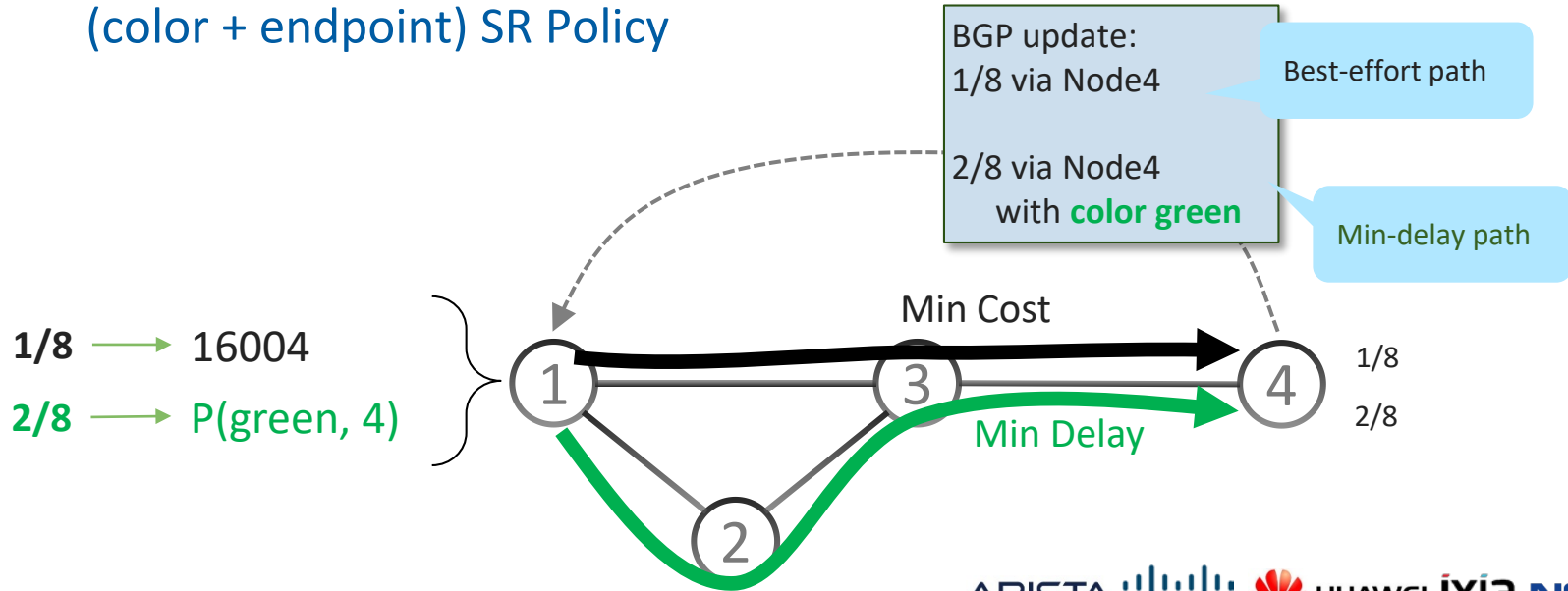
FIB on Node1:

In	Out
4001	<16002, 16004>



# Per-Destination Automated Steering

Automated Steering steers service routes on their matching (color + endpoint) SR Policy














- What was successfully tested?
  - [draft-ietf-idr-segment-routing-te-policy](#)
  - IPv4 sr-policy SAFI and new NLRI
  - Programming and removal of a sr-policy at HE router
- Per-Destination Automated Steering
  - Unlabeled (IP) traffic steering
  - Labeled (Binding-SID) traffic steering

# Participants

## Controller

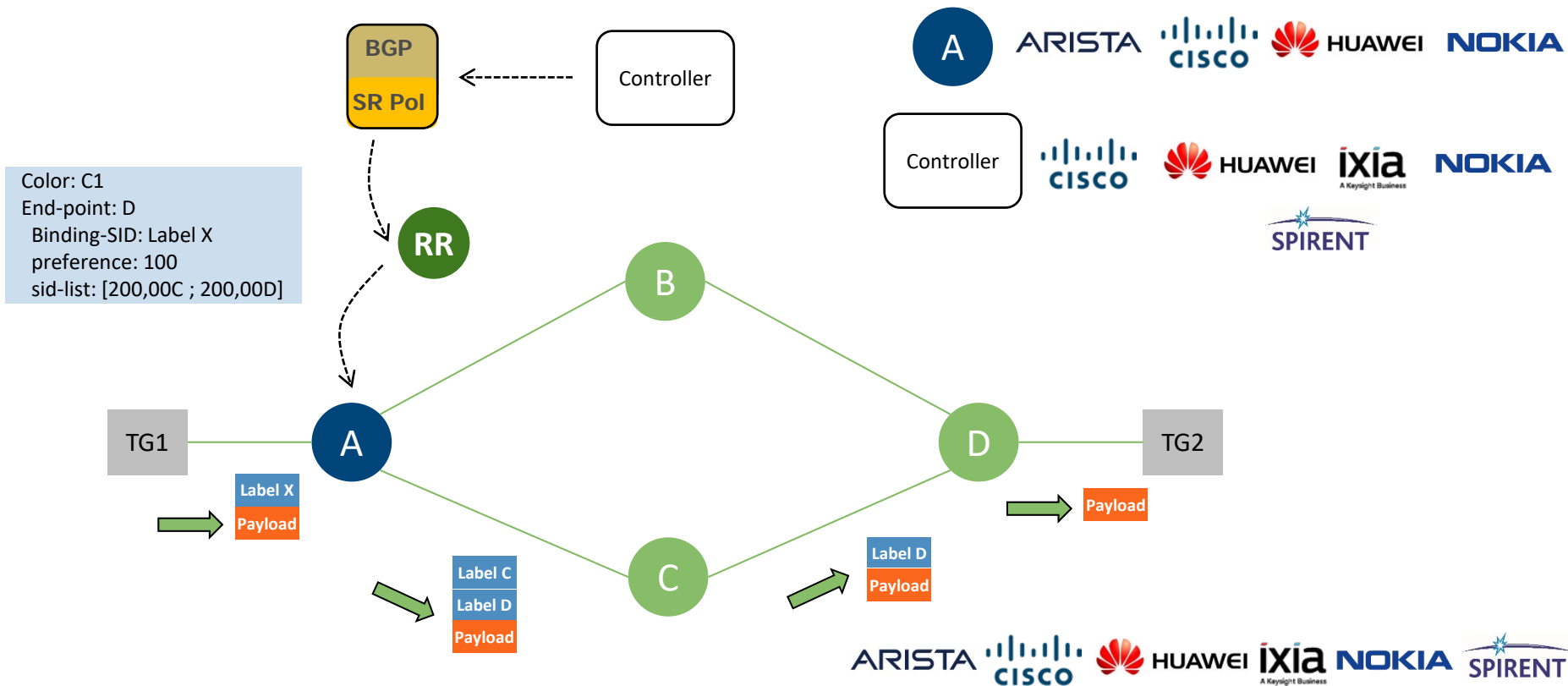
	IOS XRv9000
	Network Cloud Engine
 <small>A Keysight Business</small>	IxNetwork
	Network Services Platform
	TestCenter

## Head-End Router

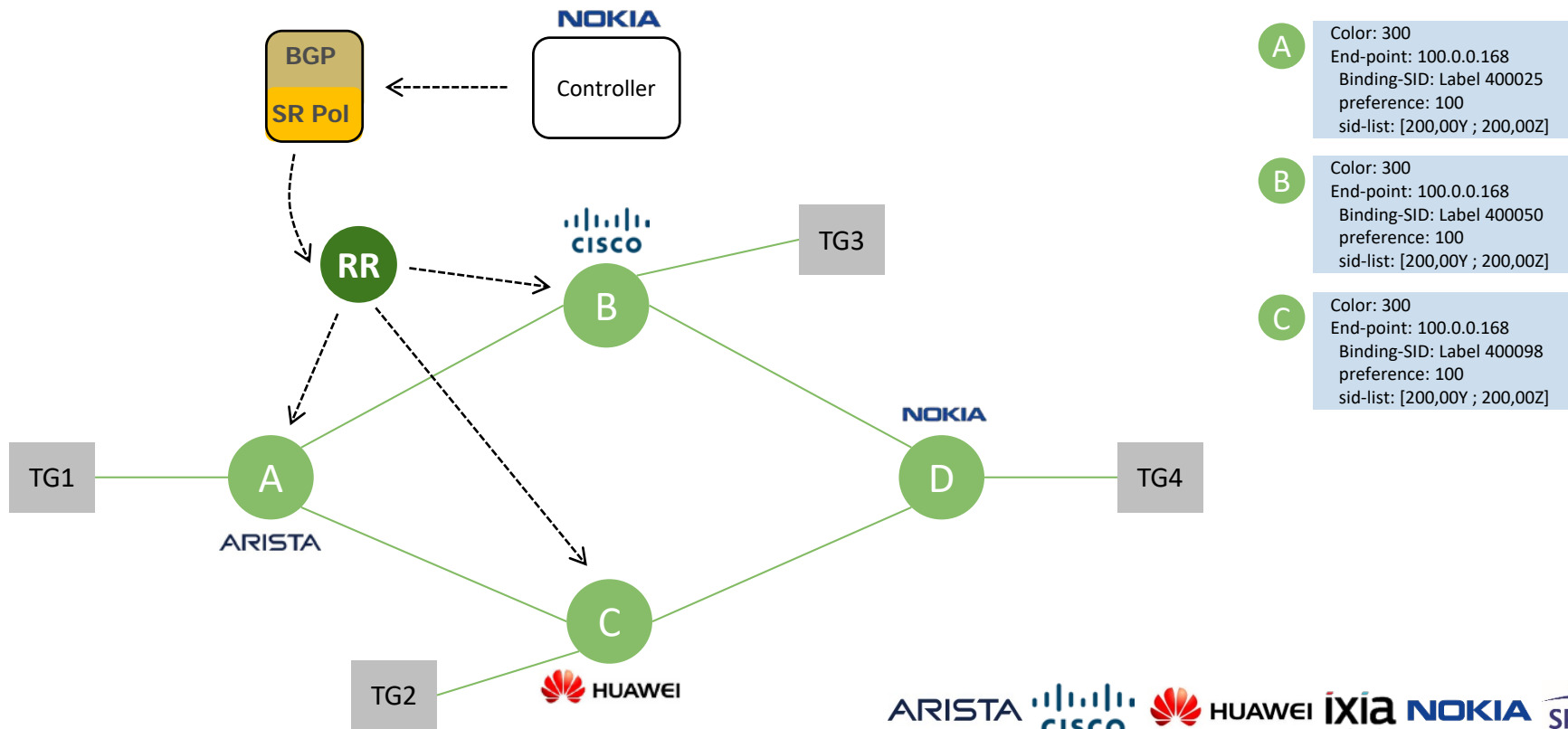
	7280SR
	NCS 5500
	NE40E-F1 A
	7750 SR-7



# Topology Setup - EANTC



# Topology Setup – MPLS WC





Let's watch the demo!



# THANK YOU



HUAWEI



NOKIA

