



Forefront of SRv6

- Introduction -

23 January, 2019

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About Clarence Filsfils

Inventor & Powerful Practitioner on “Innovation – Productization – Marketing – Deployment”



Clarence Filsfils

<https://blogs.cisco.com/author/clarencefilsfils>

Cisco Fellow
Engineering

Clarence Filsfils, a Cisco Systems Fellow, has a 20-year expertise leading innovation, productization, marketing and deployment for Cisco Systems.

Trusted and respected by key decision makers across major WEB/OTT, SP's and large Enterprises, Clarence enjoys working with these operators to listen to their needs and requirements, and then get things done from product design to deployment.

2002 – Tight SLA (QoS and SPF tuning)

2004 – IGP Fast Convergence (+ FIB Hierarchy)

2006 – BGP Prefix Independent Convergence

2007 – IP FRR, LFA, Remote LFA

2012 – Segment Routing

2014 – SRv6

Low Level
Design

Mathematically
Proven

Reduce
Control Plane

Reduce State

Simplify

About Clarence Films

- Philosophy

“Festina Lente”



“We start to learn when we observe ”

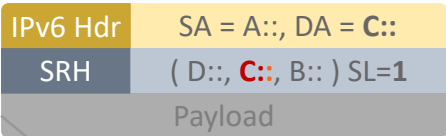
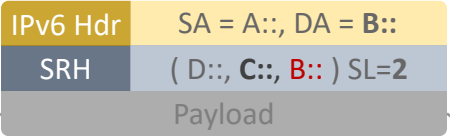
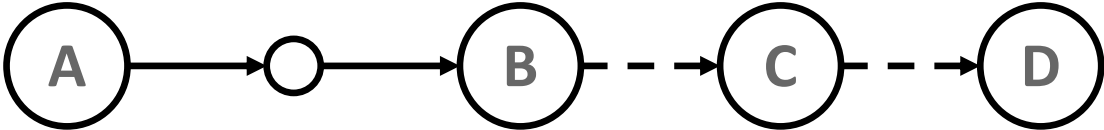


“Calm and Positive”

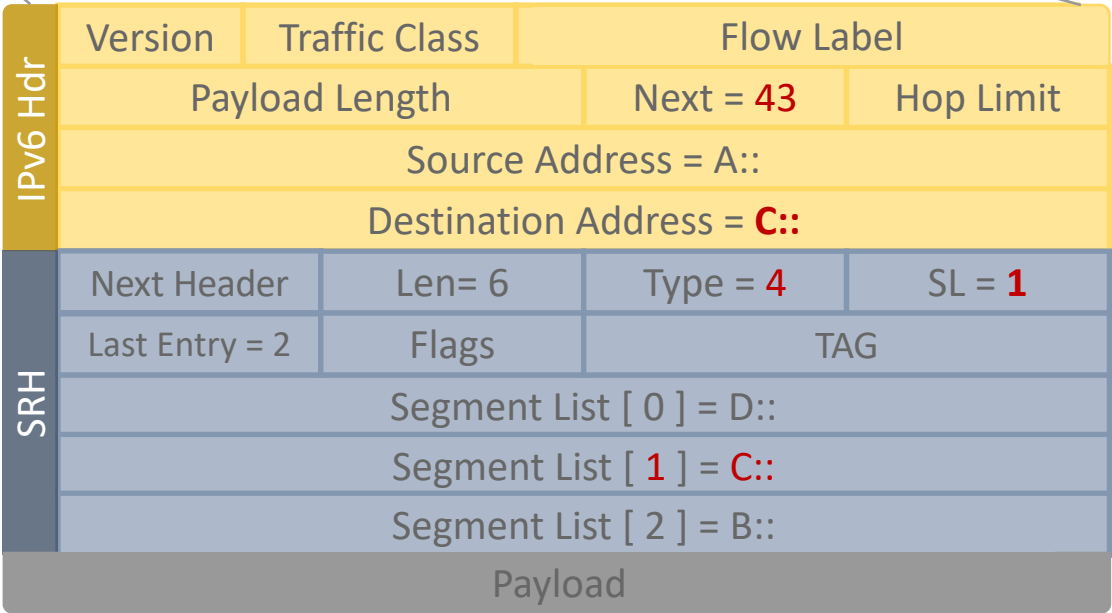
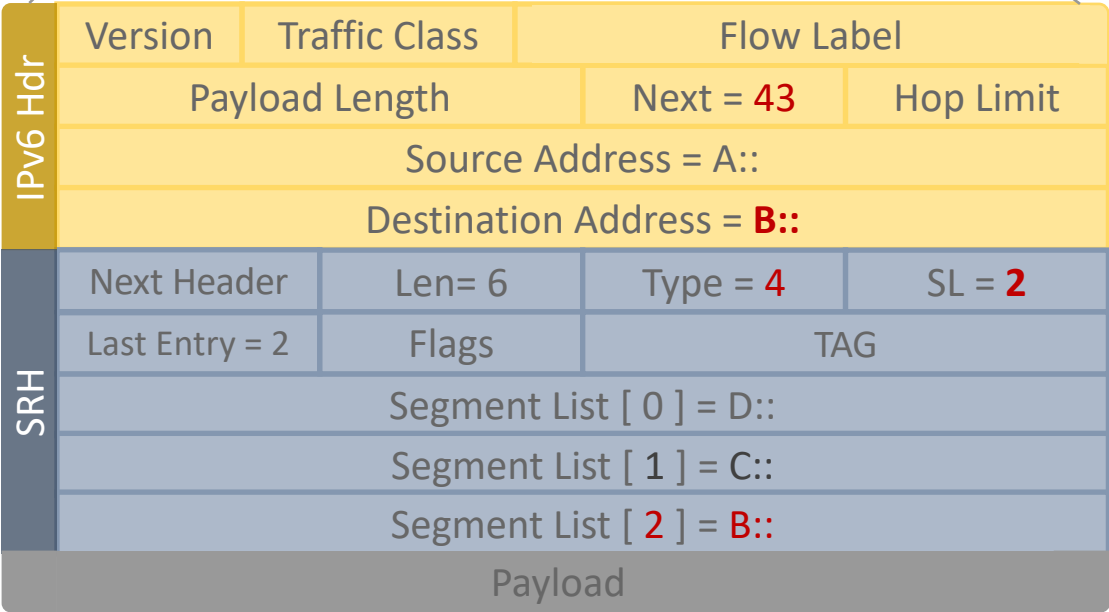
“Map out the story”



SRv6 - Quick Recap

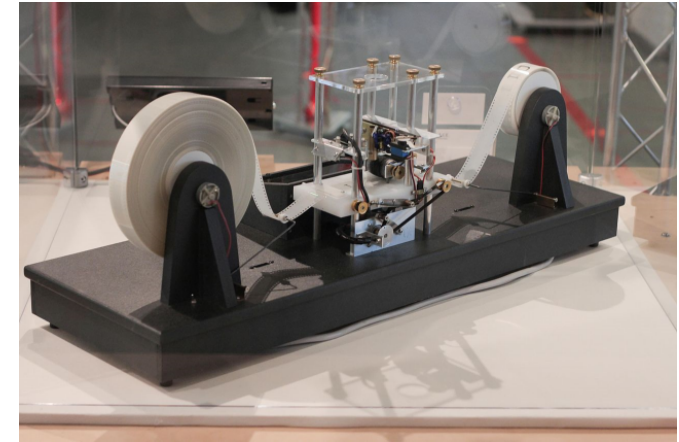
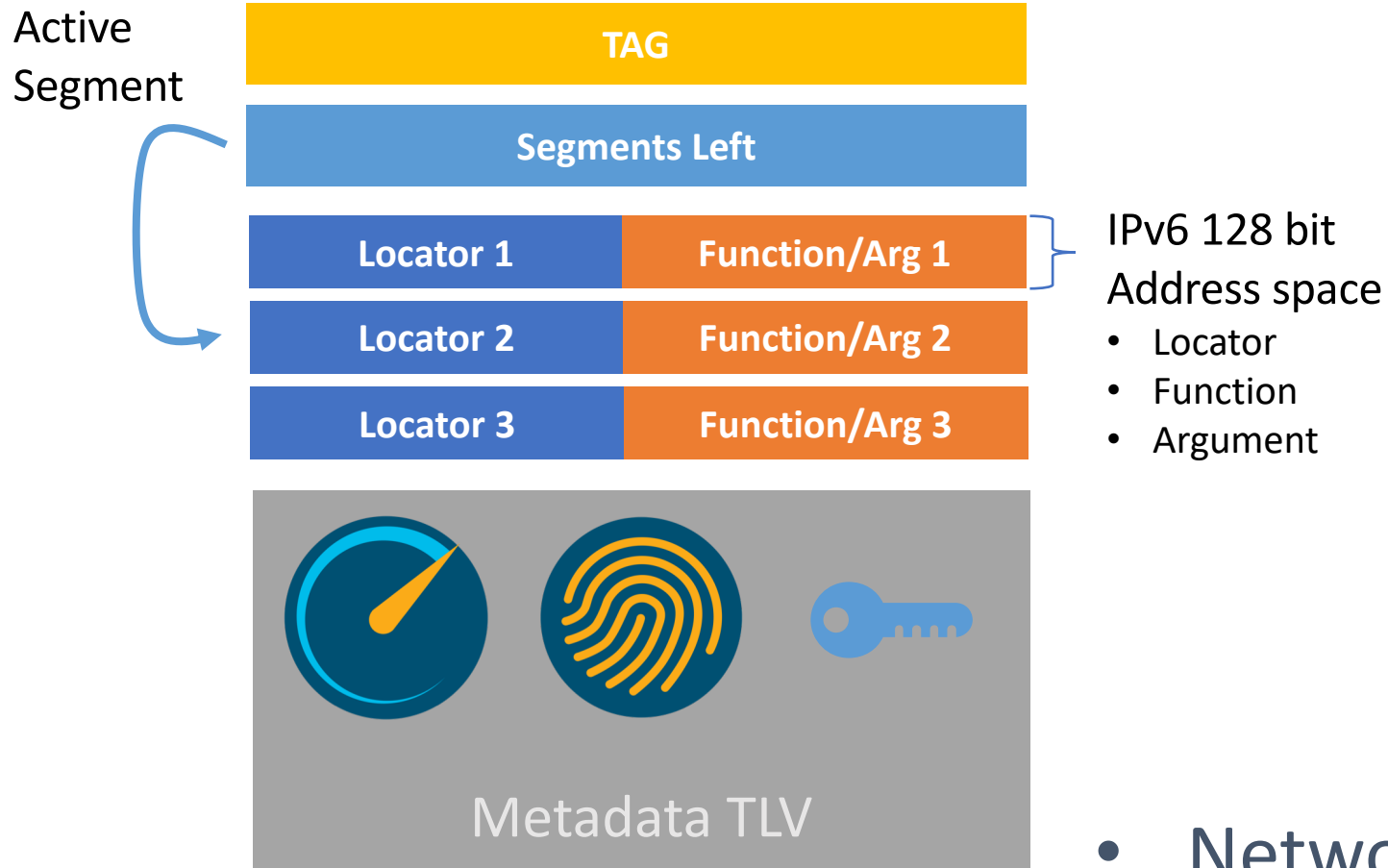


- Native IP !!
 - Segment List is encoded in IPv6 Ext Header (no Shim Layer needed)
 - Non-SR node just does IPv6 forwarding



SL : Segment Left

SRv6 Network Programmability



Turing

- Network as a Computer
- Declarative (not imperative) SDN
- In-Network Computing

Janog43

“Forefront of SRv6”



- Introduction – Miya Kohno
- SRv6 Update – Clarence Filsfils
- SRv6 Mobile user plane Update – Satoru Matsushima
- SRv6 Open Source Implementation Update – Kentaro Ebisawa
- SRv6 Academy Update – Chunghan Lee
- Vendor Update (Huawei) – Ryuichi Takashima
- Vendor Update (Cisco) – Teppei Kamata

