



TOR VERGATA
UNIVERSITÀ DEGLI STUDI DI ROMA



consorzio nazionale
interuniversitario
per le telecomunicazioni

SRV6 WORKSHOP @ NETDEV 0X1A

SRv6 Workshop

Introduction

Stefano Salsano^{1,2}

¹University of Rome Tor Vergata, Italy · ²CNIT, Italy

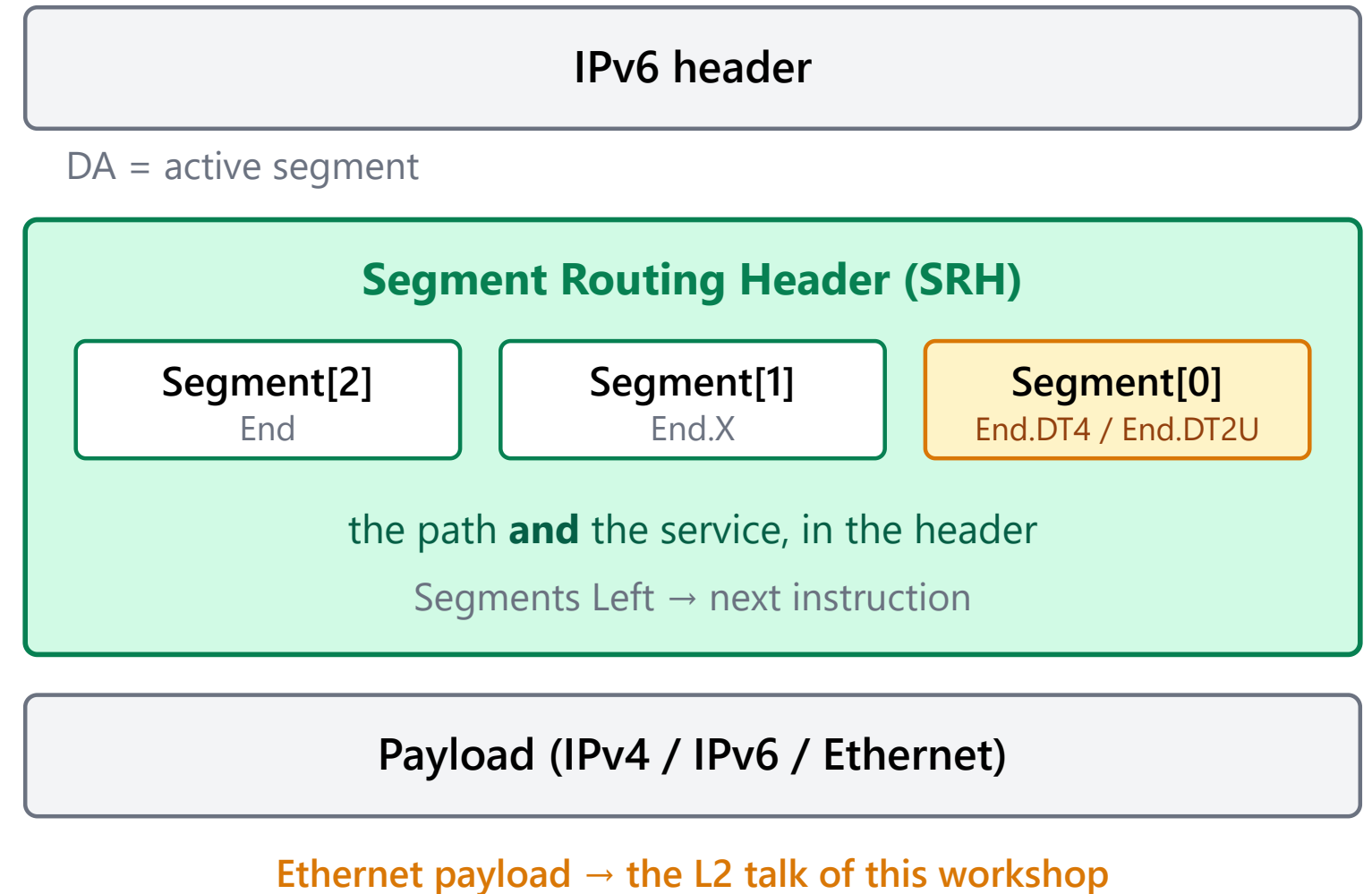
Netdev 0x1A — The Technical Conference on Linux Networking

SRv6 Workshop — 13 July 2026, Rome, Italy

SRv6 in one slide

- **A program in the packet header** (RFC 8986)
- A **segment** is an **instruction**, not just a location
- **Linux**: `seg6` since kernel 4.10 — 2017
- **Ecosystem**: FRR, SONiC, Cilium, VPP
- No new dataplane: it is **plain IPv6**

Why here. SRv6 is where the network design meets the *kernel datapath*.



A netdev tradition

Lisbon, 2022.

0x16 First SRv6 workshop: the kernel implementation, seg6local behaviors, the early ecosystem.

Zagreb, 2025.

0x19 SRv6 goes production: FRR, SONiC, uSID, deployments at scale.

Rome, 2026.

0x1A Three directions that hit the datapath — and the gaps we still have to close.

The thread. Every edition, the interesting work moved closer to the *kernel*.

Three directions for this edition

- 1 Source-routed AI backends.**
ECMP gives no control over the fabric — SRv6 puts path placement in the host and the NIC.
 - 2 L2 services beyond VXLAN.**
The kernel stops at End.DX2 — multipoint services and EVPN over SRv6 need more.
 - 3 Provider-grade SRv6.**
End-to-end design on Linux + FRR, observability, and redundancy protection (R-SID).
- + Ecosystem update.**
SRv6 in Linux (9 years) and in FRR (5 years) of mainline support.

Agenda — 10:00 to 12:00

Time	Talk	Speaker
10:00–10:05	Workshop Introduction	Stefano Salsano — Tor Vergata
10:05–10:15	SRv6 Introduction	Ahmed Abdelsalam — Cisco
10:15–10:25	SRv6 for the AI Backend	Stefano Salsano — Tor Vergata
10:25–10:40	SRv6 in SONiC — “Enabling AI Backend use-case and many others”	Ahmed Abdelsalam — Cisco
10:40–10:55	SRv6 in FRR — “5 Years of mainline support”	Carmine Scarpitta — Cisco
10:55–11:15	SRv6 for network providers and service protection	Ferenc Fejes — Ericsson
11:15–11:25	SRv6 in Linux — “9 Years of mainline support”	Andrea Mayer — Tor Vergata
11:25–11:45	SRv6 Layer 2 Services support	Andrea Mayer — Tor Vergata
11:45–12:00	Recap and Discussion	all

Slides. netgroup.github.io/netdev-0x1A-srv6-workshop · questions welcome at any time.