SRv6 Mobile User Plane(MUP) Architecture for DMM

draft-mhkk-dmm-srv6mup-architecture-04

IETF115, DMM Working Group

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03 -> 04 Updates

- Structured Illustration section

OLD:

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7.  Illustration  . . . . . . . . . . . . . . . . . . . . . . .  10
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NEW:

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7.  Illustration  . . . . . . . . . . . . . . . . . . . . . . .  10
   7.1.  SRv6 Network Accommodating Existing Mobile Network
         Services  . . . . . . . . . . . . . . . . . . . . . .  10
   7.2.  SRv6 MUP PE Deployment at All SR Domain Edges . . . . .  11
   7.3.  Adding Direct Segment with New SRv6 MUP PE  . . . . . .  13
   7.4.  Collapsed SRv6 MUP PE Deployment  . . . . . . . . . . .  16
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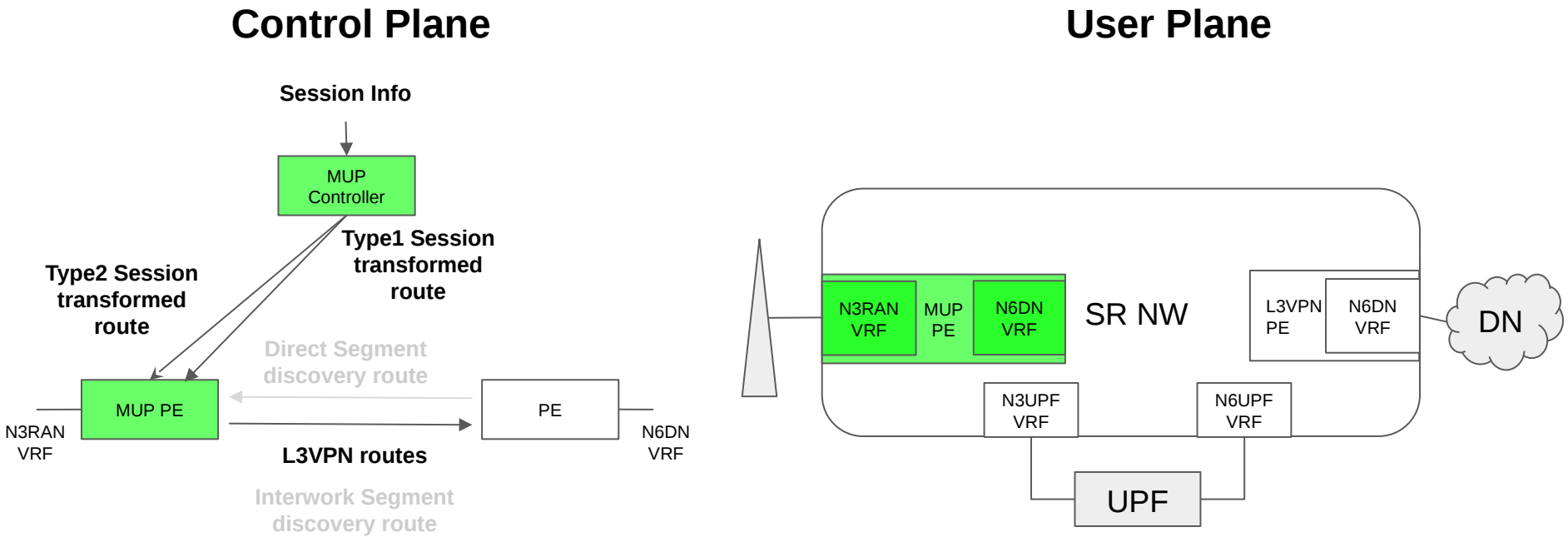
03 -> 04 Updates (Cont’d)

- **NEW:** "Collapsed SRv6 MUP PE Deployment" has been incorporated into the illustration section

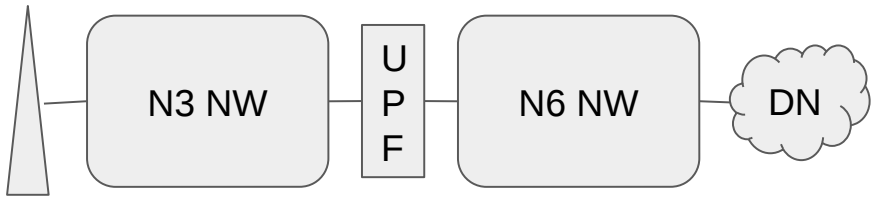


Next Step

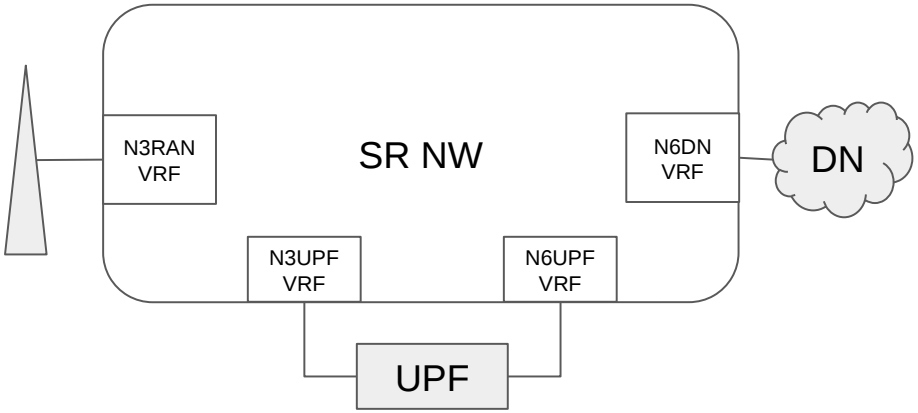
- Further clarifications on architecture
- More cases will be illustrated for better understanding if needed
- WG adoption?

Appendix

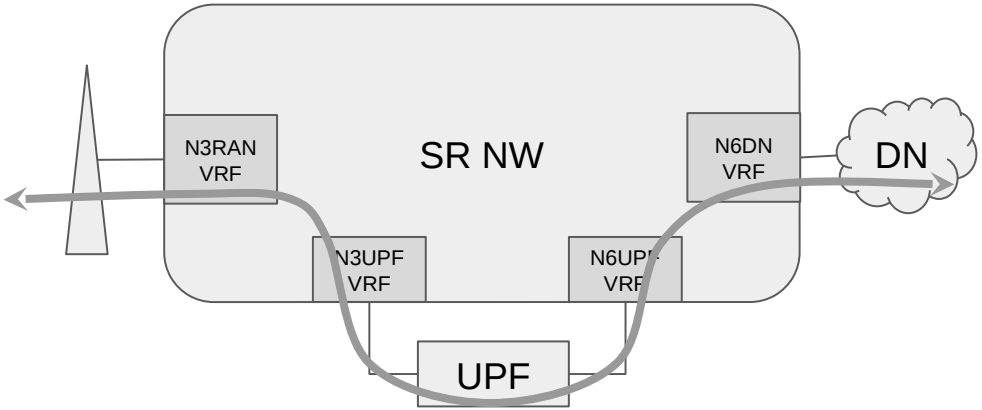
The 5G User Plane Architecture



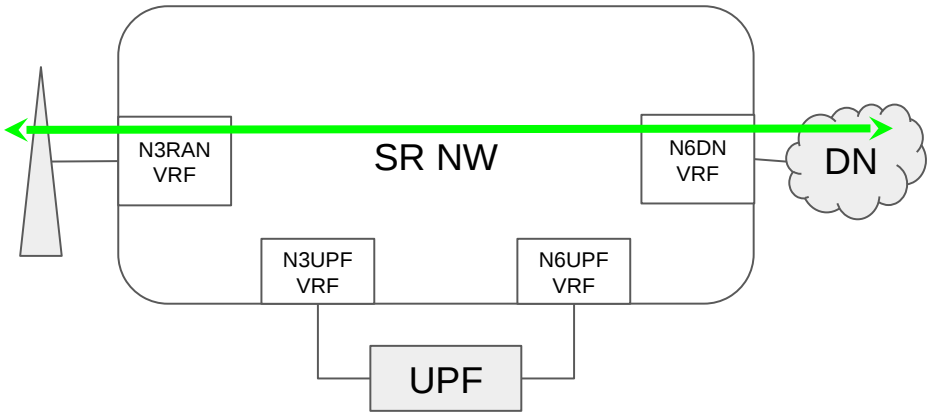
An implementation for 5G User Plane on the SR Underlay



5G User Plane Data Path on the SR Underlay

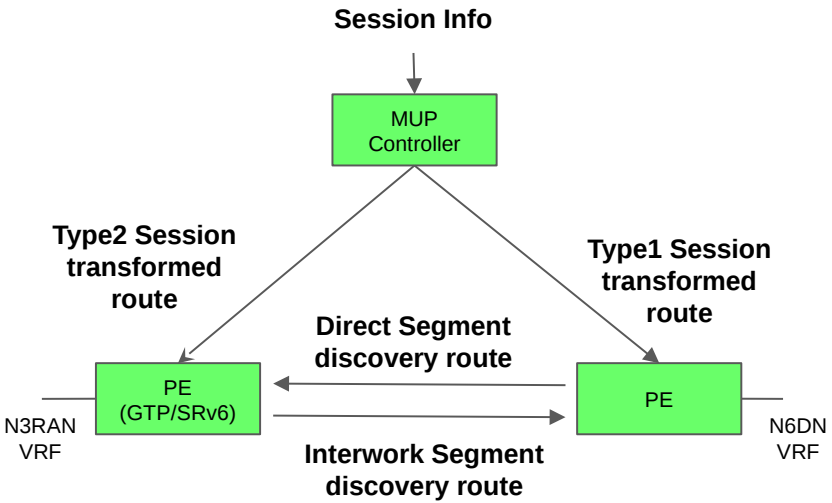


5G User Plane Data Path on the SR MUP Architecture

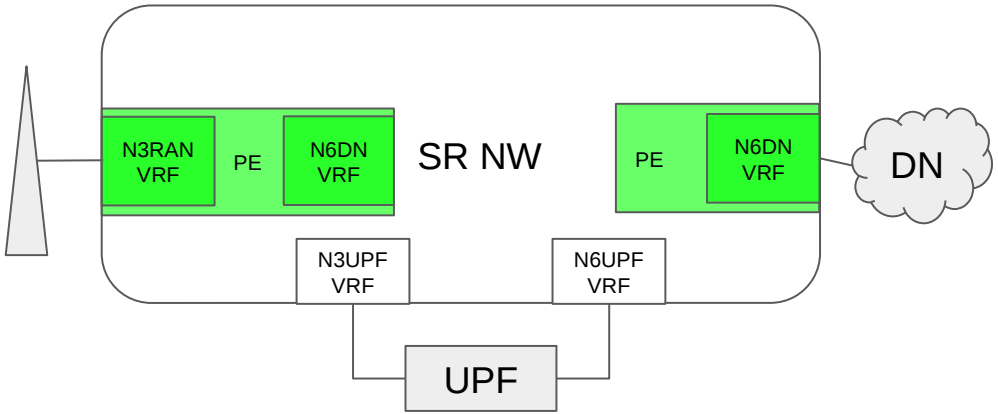


SRv6 Mobile User Plane Architecture Overview

Control Plane (BGP)

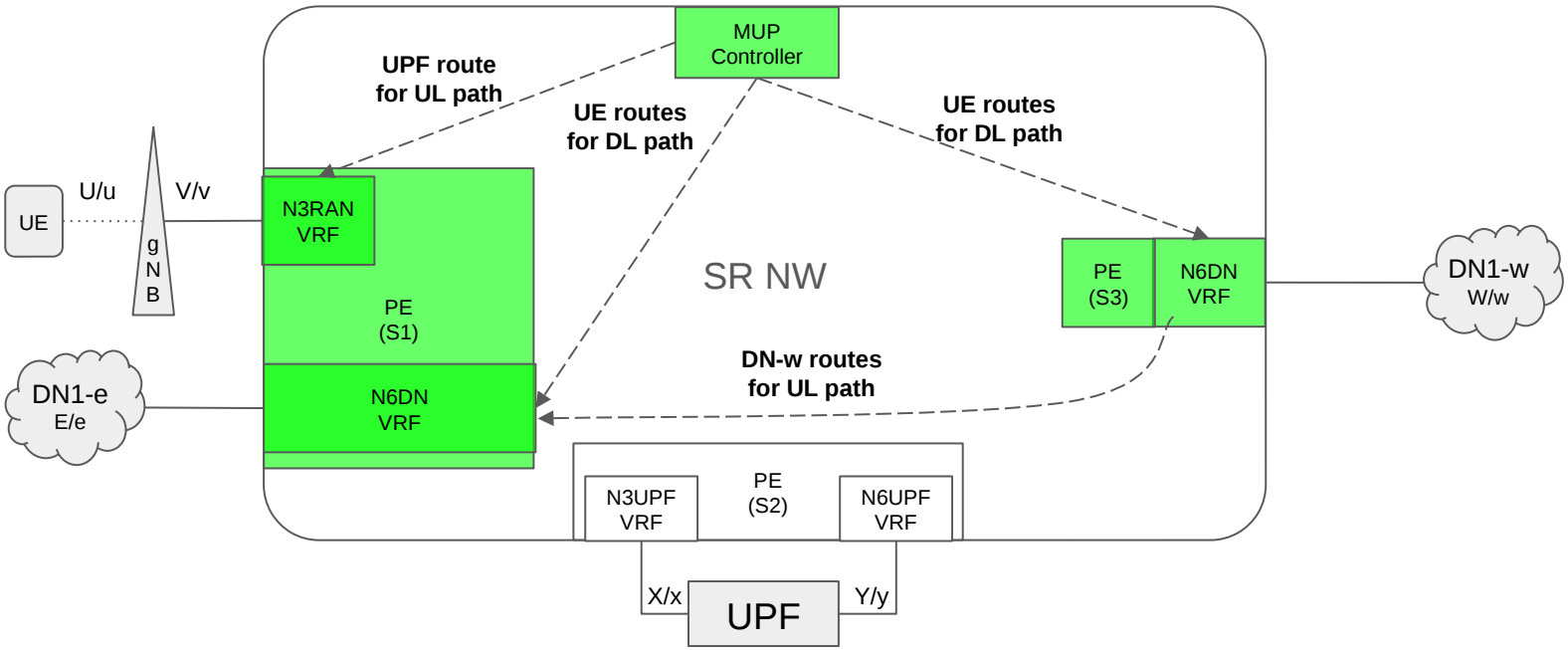


Data Plane (3GPP)

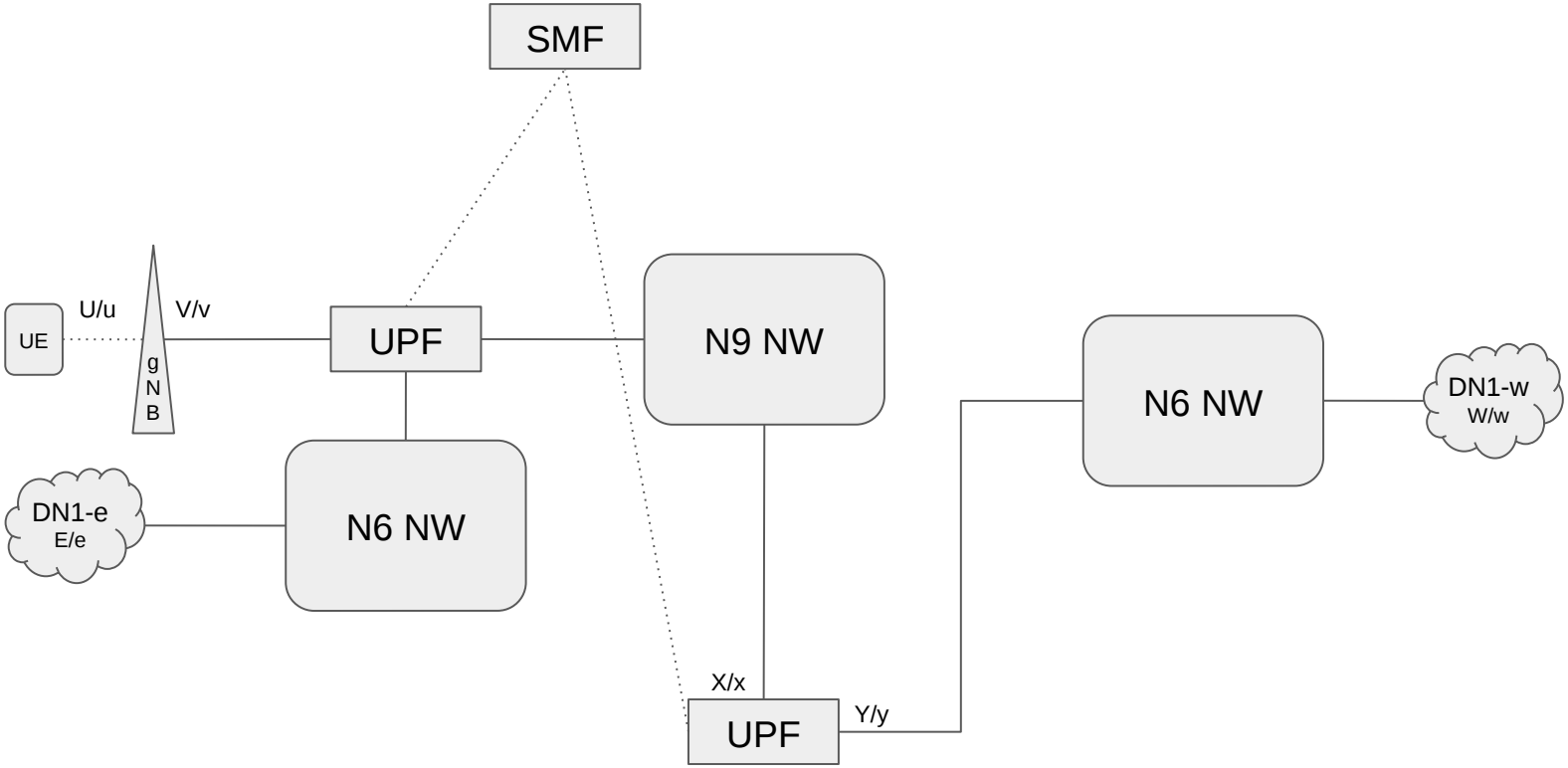


Use Case: Multiple DN sites in the single DNN w/o UPF incremantion (1)

Provide optimized path for each distributed Cloud and MEC site

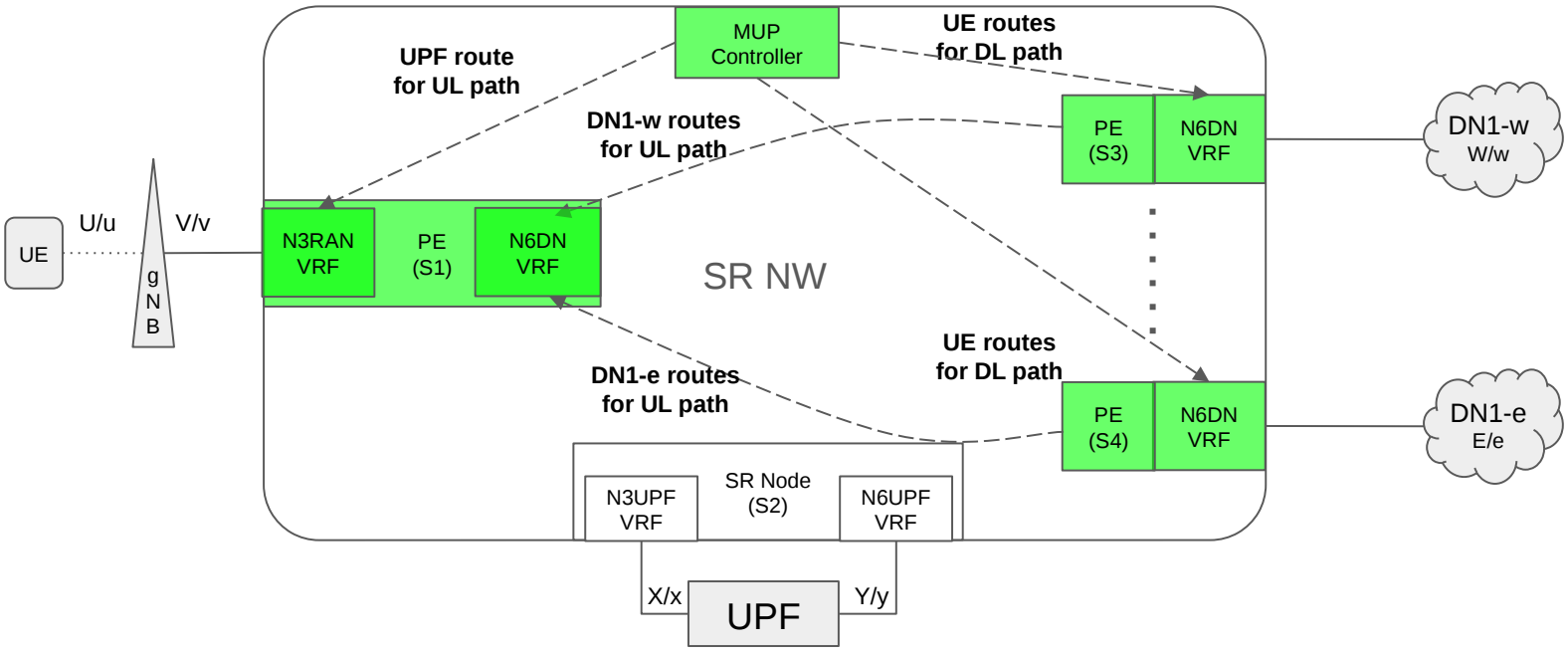


Equivalent Network Model



Use Case: Multiple DN sites in the single DNN w/o UPF incremantion (2)

Provide optimized path for each distributed Cloud and MEC site



Equivalent Network Model