



## Mobile Traffic Steering

*draft-ietf-dmm-mts-01.txt*  
(replaces *draft-liebsch-dmm-mts-04.txt*)

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# Topic background, objectives & status

Systems for mobile communication will demand for more flexible and controllable end-to-end traffic steering

Extend and complement control on mobile traffic steering from mobile communication systems (MCS) across transport network towards data networks

- Mobile traffic steering in advanced mobile scenarios discussed @IETF116; public side meeting @IETF117
- Past DMM WG contributions in this context summarized
- Room for documentation & standardization has been further elaborated
- Drafts published and updates discussed at and in between past IETF meetings
- 3<sup>rd</sup> revision of draft defines clear scope and inter-working options, use cases, deployment options and information model
- 4<sup>th</sup> revision addresses review comments and implements more deployment details
- WG adoption in December 2025

## Revision path so far...

- *draft-ietf-dmm-mts-00.txt* published in Dec 2025
  - Replaces *draft-liebsch-dmm-mts-04.txt* (includes John's review comments)
- *draft-ietf-dmm-mts-01.txt* published in Feb 2026
  - Addresses further review comments from Carlos Bernardos, incl.
    - Introduction and placement of Reference Architecture Fig.1
    - Added figure to Sec. 4.5 use case on Node Ephemerality
    - Sec. 6.2 added more clarifying text about depicted control-user/data plane interfaces (*U\_mcs* and *D\_mts*)
    - Sec. 6.3 added clarifying text on *C\_rtg* (routing plane depicted in Fig. 11)
    - Editorial nits

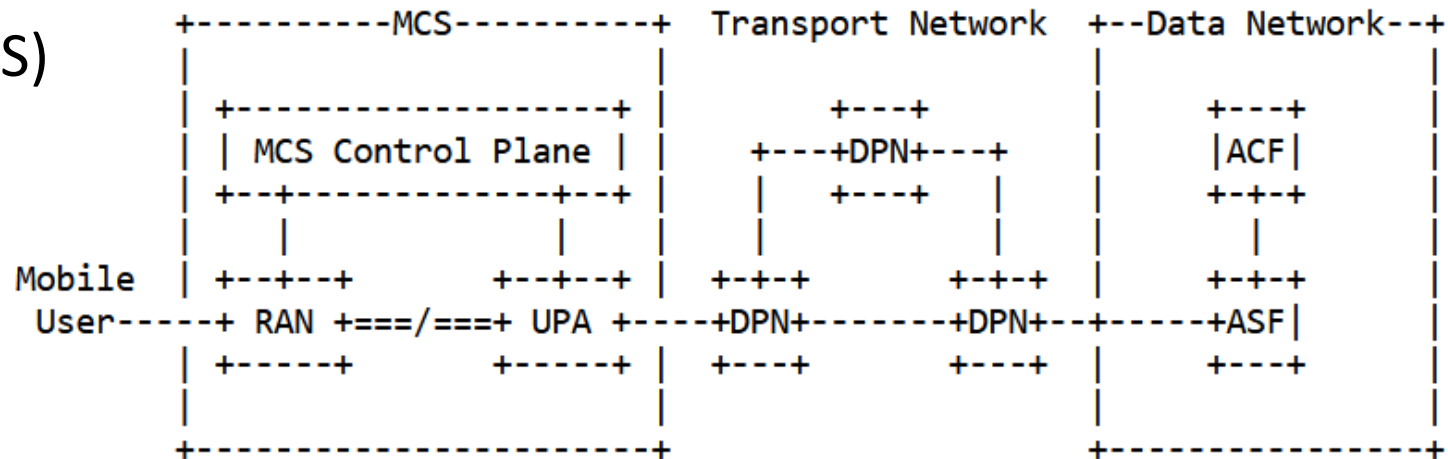
# Draft structure

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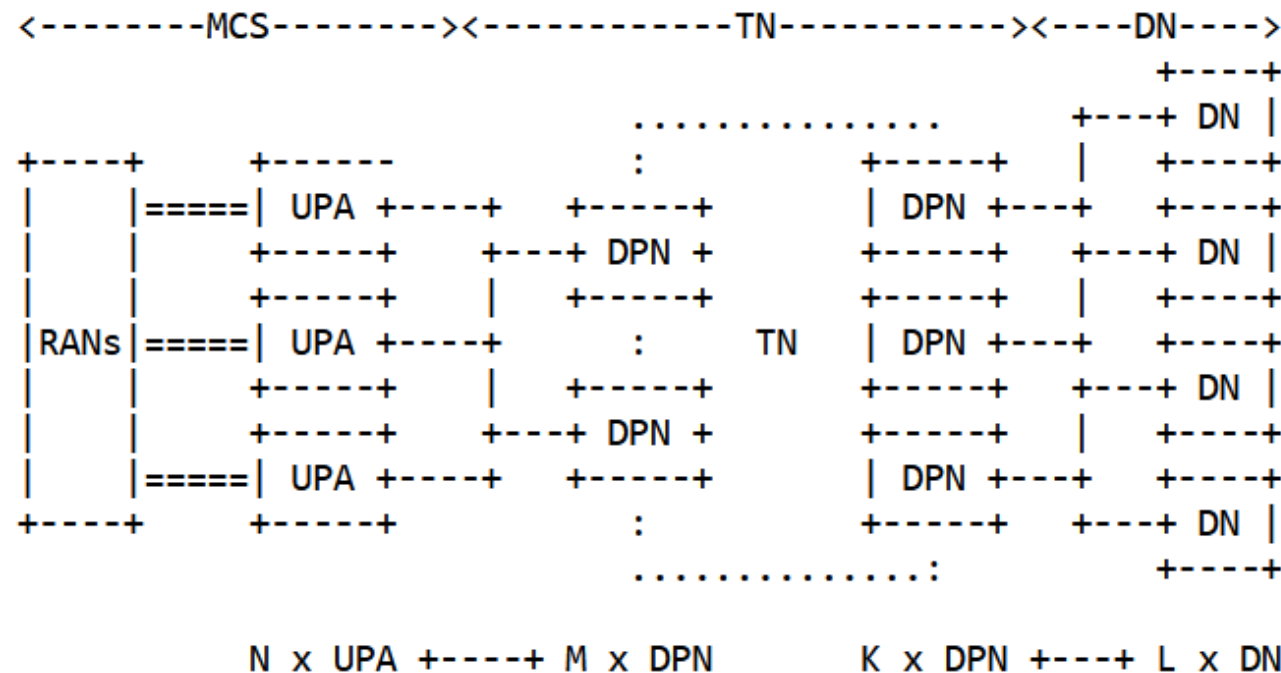
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# Reference end-to-end architecture

- Mobile Communication System (MCS)
- User Plane Anchor (UPA)
- Data Plane Node (DPN)
- Data Network (DN)
- Application Service Function (ASF)
- Application Control Function (ACF)



Flexible constellations between groups of UPAs, DPNs and Data Networks



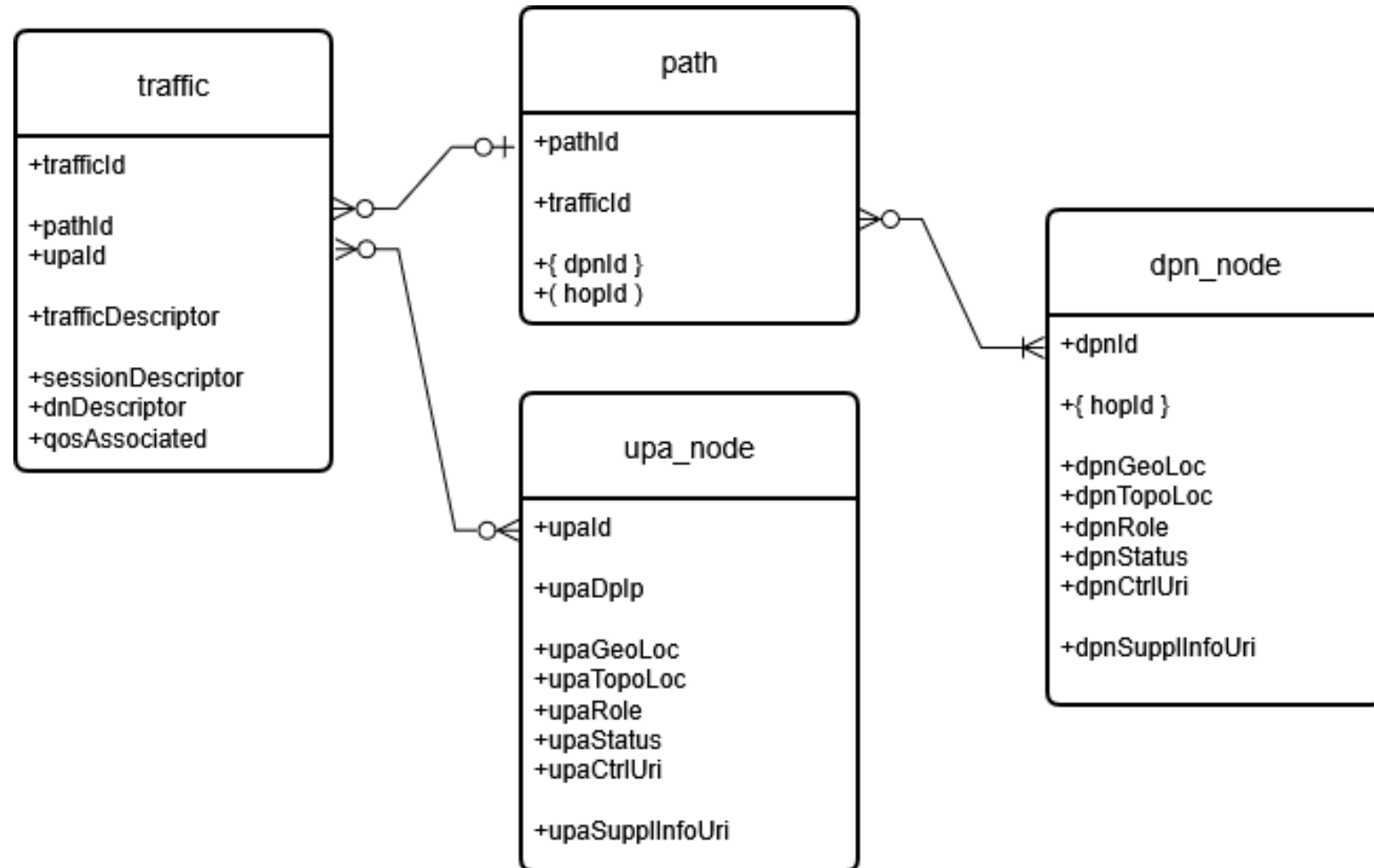


# Plan and discussion points

- Target mature WG document by IETF126 to proceed with review, WGLC, ..
- Editorial manicure (be clear on terms, e.g. *'flexible deployment'*, *'dynamic re-configurability'*, ...)
- Security considerations
- More operational aspects?
- Information model (next slide)
- Appendix with exemplary application to 3GPP's evolution yes/no?

# Information model – current working proposal

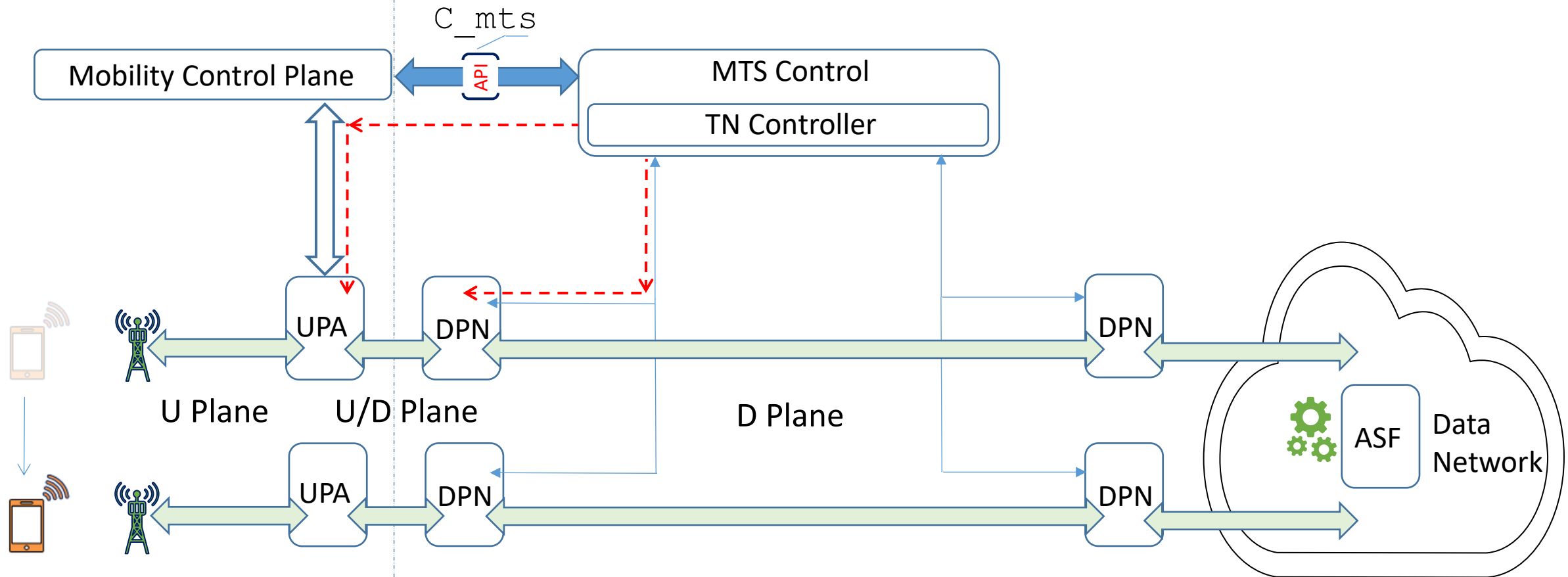
- Utilize Entity Relationship Diagram (ERD) to converge
- When mature, add table representation to ID



# Appendix

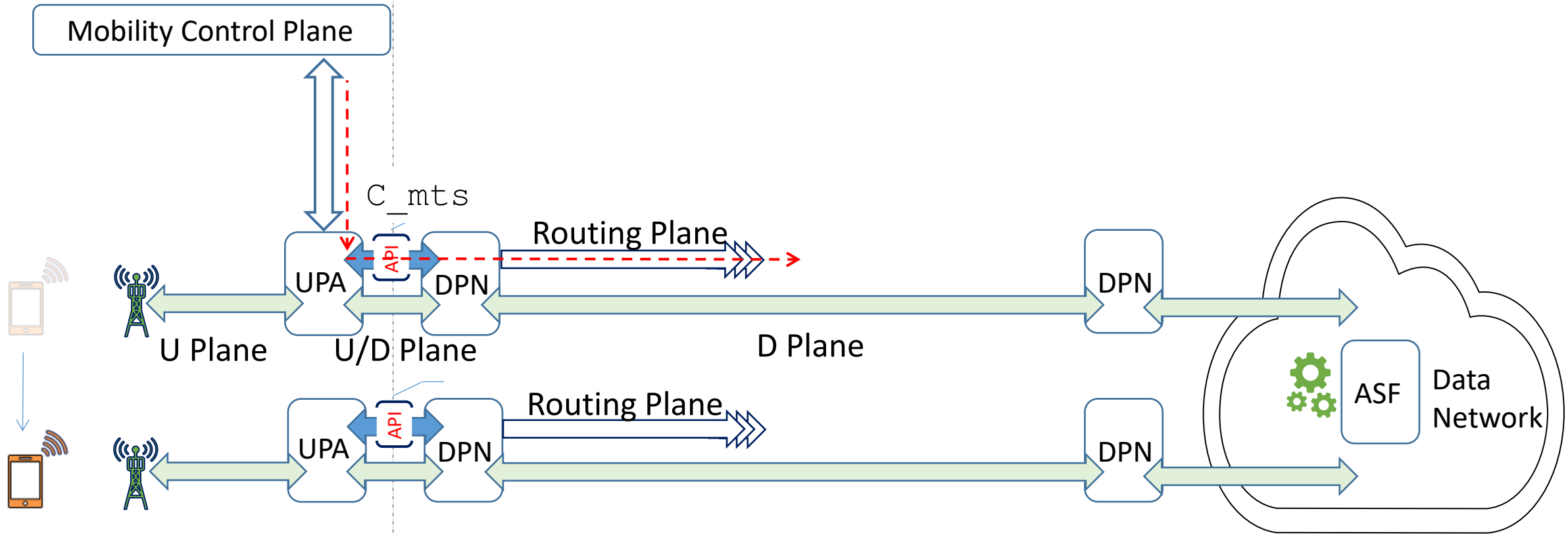
# Operational Mode I – Controller-centric operation

Mobile Communication System



# Operational Mode II – De-centralized operation

Mobile Communication System



# Operational Mode III – Hybrid operation

Mobile Communication System

