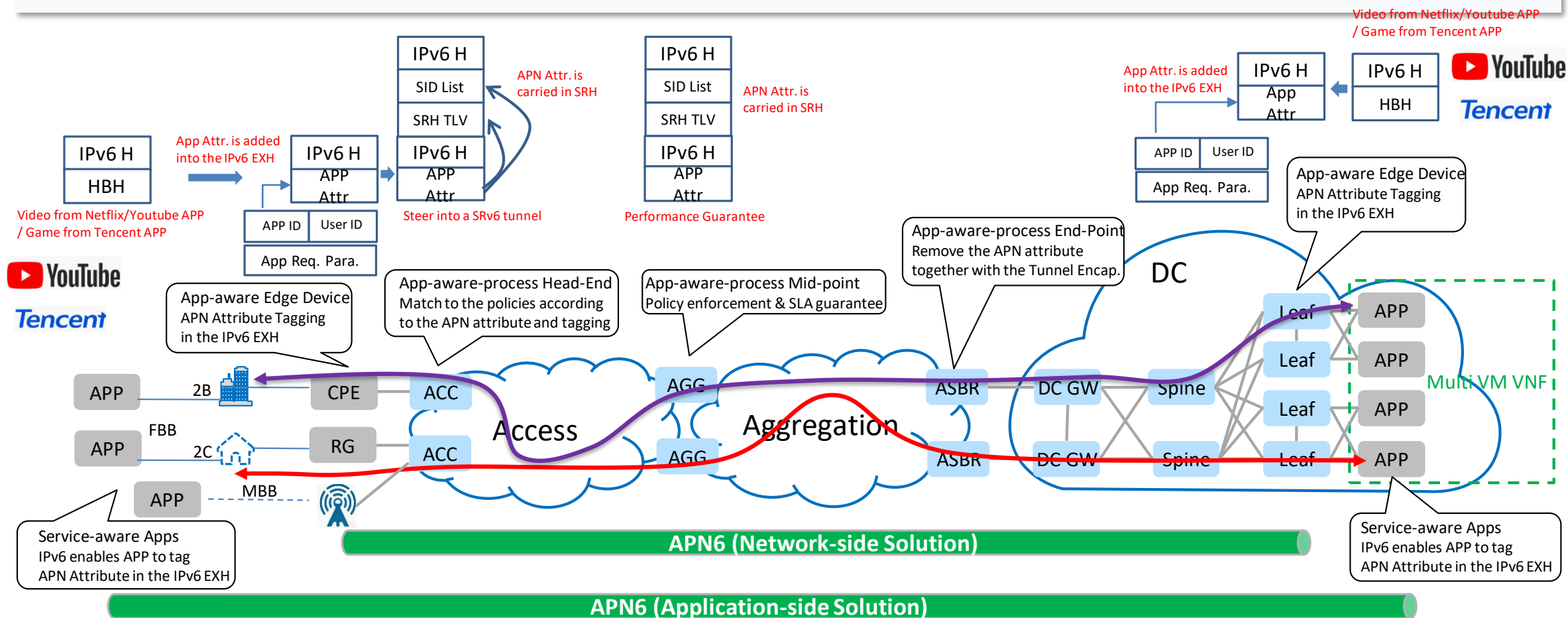


APN6 Deployments

APN6: Application-aware IPv6 Networking

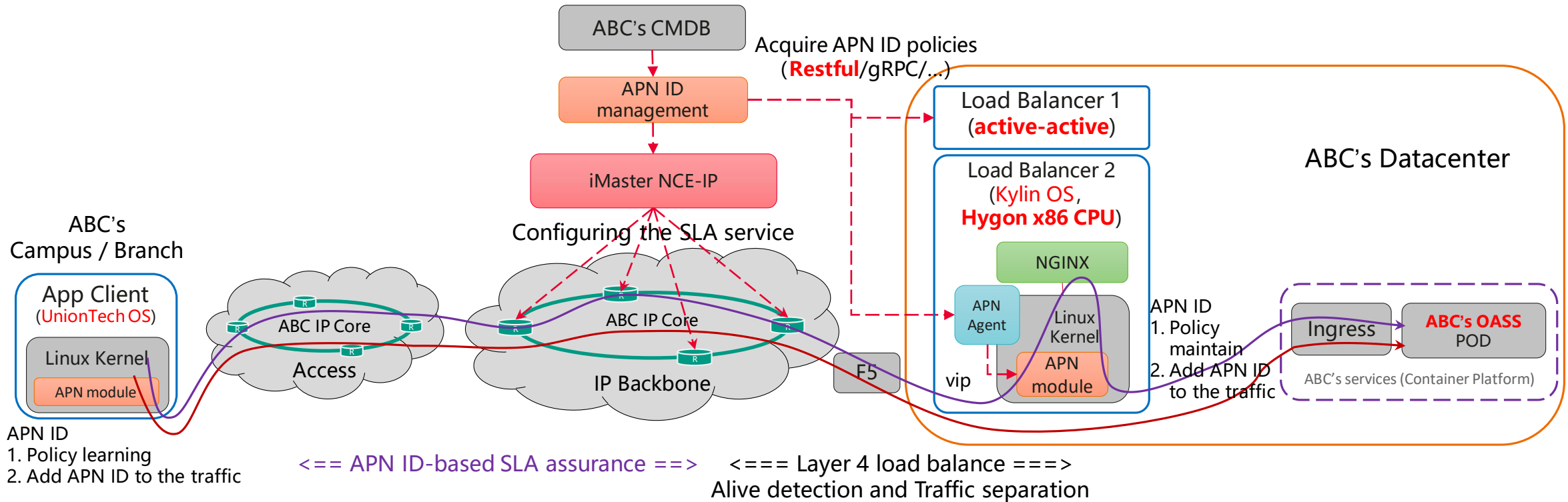
- Make use of IPv6 extensions header to convey APN attribute along with the packets into the network
- To facilitate the flexible policy enforcement and fine-grained service provisioning



<https://datatracker.ietf.org/doc/draft-li-apn-framework/>
<https://ieeexplore.ieee.org/abstract/document/9162934>

APN for ABC's OASS application:

Implemented by the APN control plane and data plane kernel module. Non-intrusive deployment.



Problem: Weak SLA capability, quality risks of key services

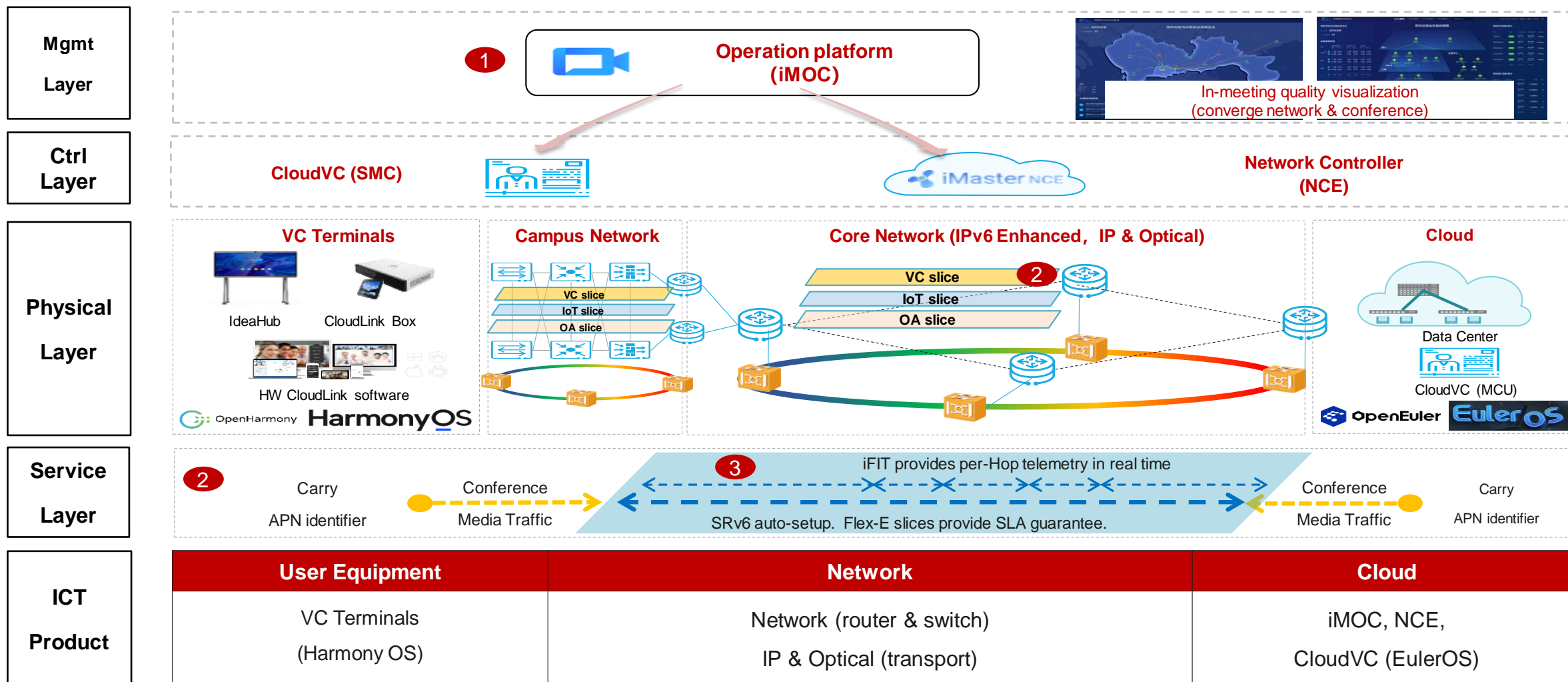
1. Applications and IP addresses are **strongly bound**. The network **cannot** detect address changes and **adjust SLA policies in time**.
2. **Limited identification capability** for massive applications: the network **cannot** provide **fine-granularity SLA assurance**.

Values recognized by the customer(ABC):

- The bandwidth requirements are low in normal times
- For large-scale software upgrade and delivery service (OASS application), APN enable self-service quick bandwidth modification to handle burst traffic and achieve high concurrency. That ensure lossless delivery.

APN6 Demo Cases: Improve User Experience of Video Conference in 2B Services

APN for service-aware, Slicing for SLA ensurance, IFIT for E2E visualization



Thank you.

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每个组织，构建万物互联的智能世界。

Bring digital to every person, home and
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intelligent world.

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