Service Function Chaining Interface for Cloud Network Collaboration(CNC)

draft-sfc-interface-of-cnc-00

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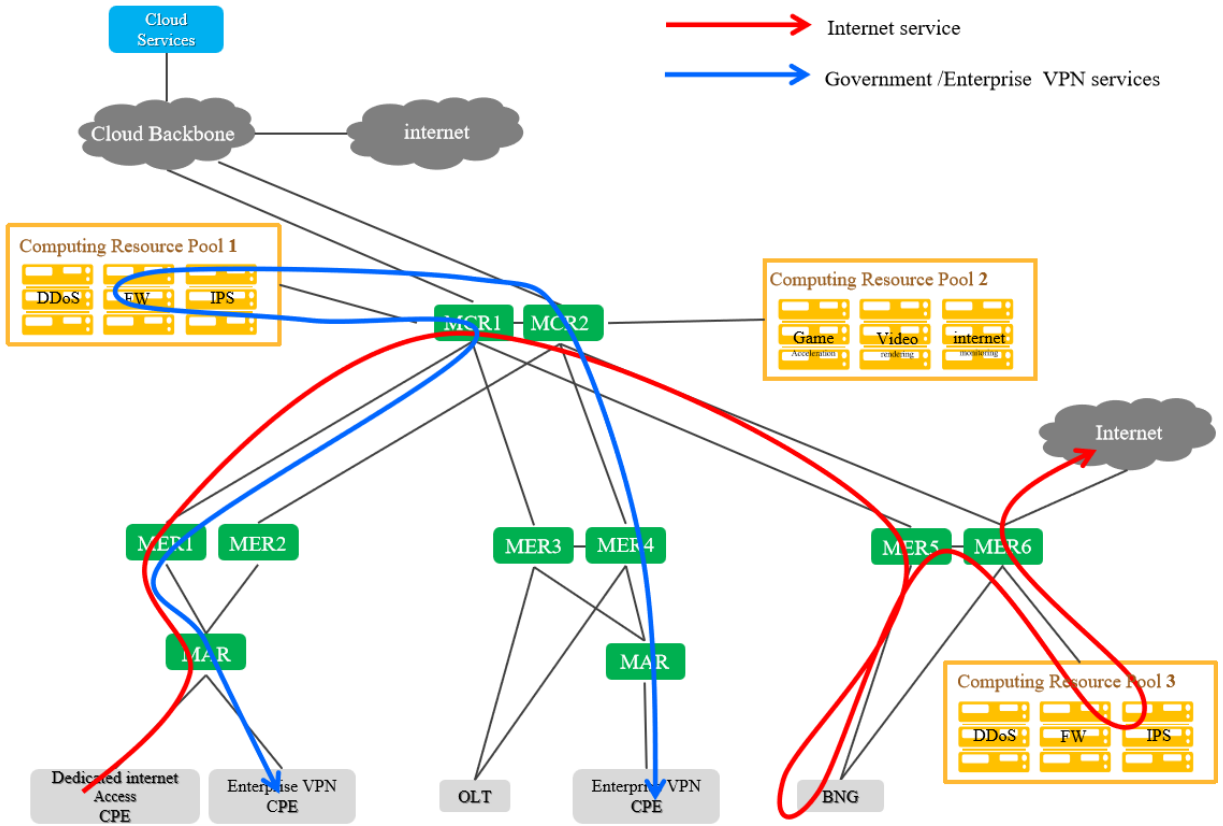
Use Case：Enhanced Leased Line Service

☐ Main features

- **Quick and on-demand:** Providing on-demand and fast security services on the basis of the existing leased line. Factors such as security resource, pool load and service delay need to be taken into account when selecting security services.
- **Flexible Adjustment:** Users service can be adjusted without awareness of when the security service requires type change/capability change.
- **Low cost:** The upgrade of leased line services does not require the replacement of security services/equipment in cloud centers.

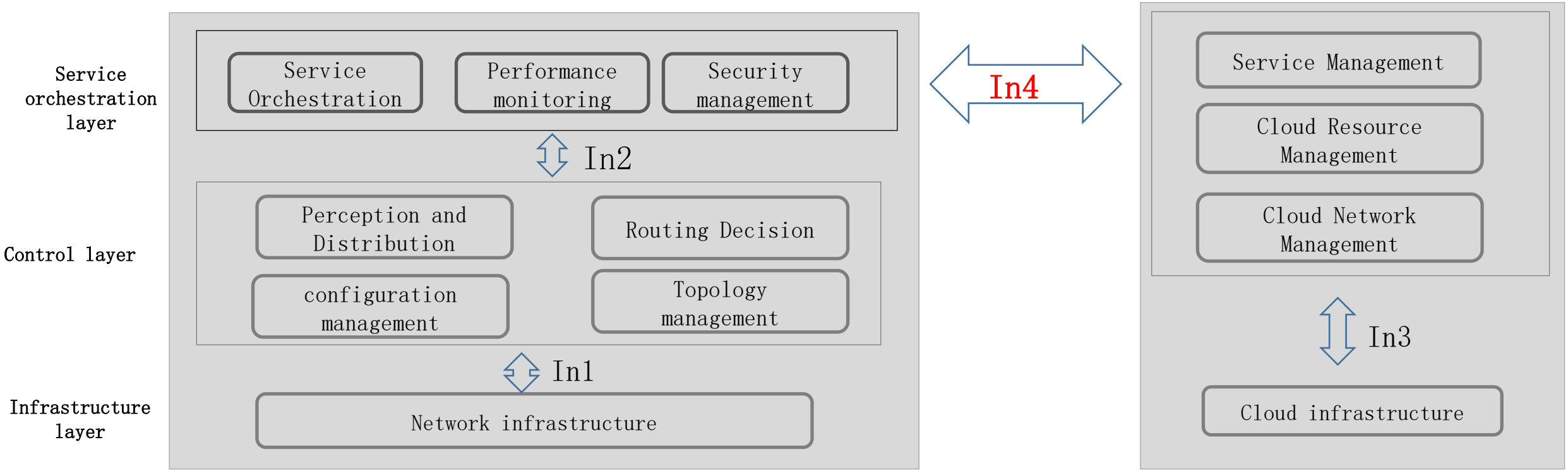


Challenges in the deployment

- **Necessities of standardization** : Stringent requirements for cloud-network orchestration highlight the necessities of the standardization on key interfaces and resource models.
- **Deficiency of SFC dynamic adjustment:** The deficiency of SFC's dynamic adjustment capabilities leads to a reliance on static proxy methods in the current network, which can not fully meet the demand of security services in clouds.
- **Cloud service capability exposure：** Service scheduling based on cloud network coordination requires the exposure of cloud-side service capabilities, including specific service functions, capacity, location and other information.

Architecture and interface

- The network needs to obtain resource and service information of the cloud, as well as interconnection information between the cloud and the network.
- Configure resources and services of the cloud based on the path calculated by the network.



- Network
- Cloud

Comments and suggestion are welcome

Thank you!