Multi Tenant VNO use case
draft-kumaki-teas-actn-multitenant-vno-00

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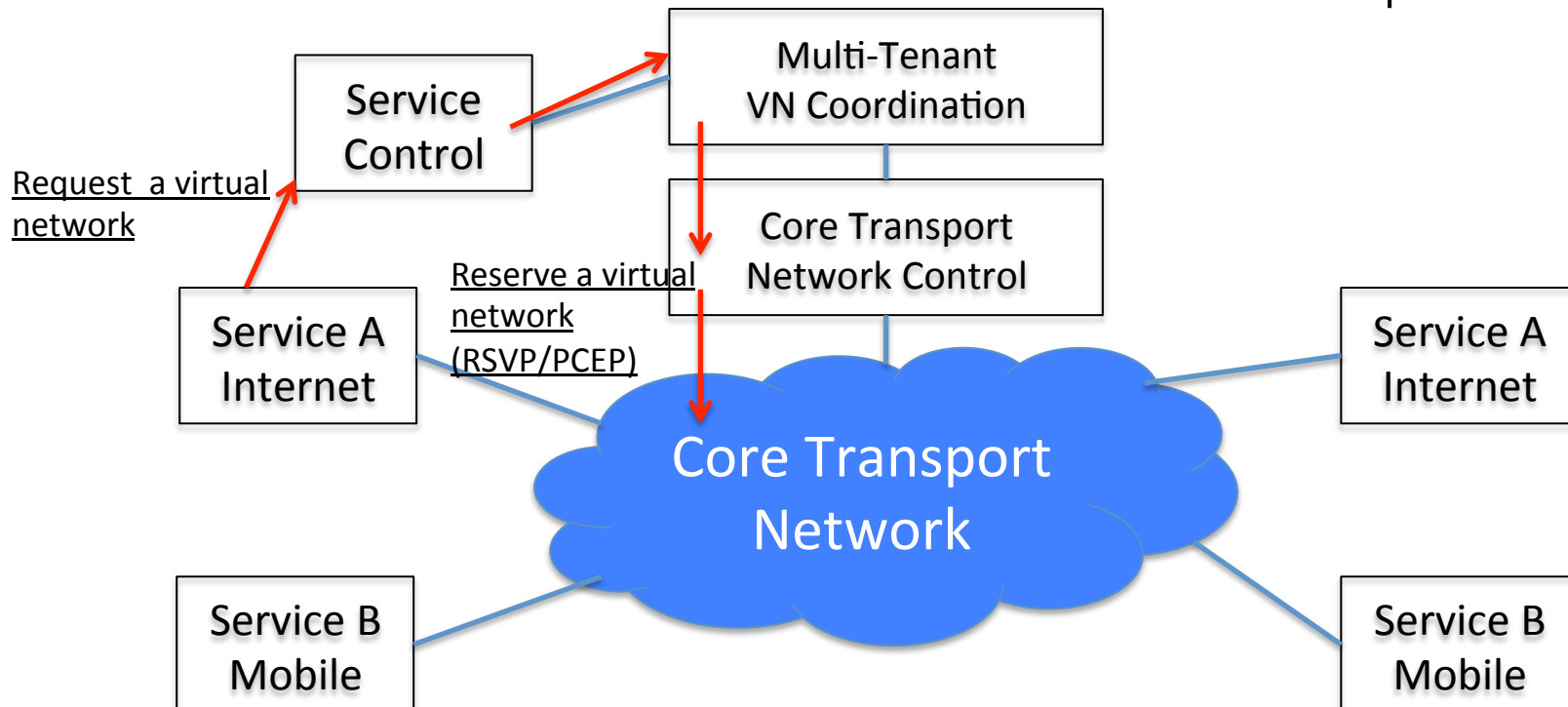**Takuya Miyasaka**(ta-miyasaka@kddi.com)

About this draft

- First presented in ACTN BoF (IETF90 Toronto)
- Reflect comments and make 00 version for TEAS

- Use case for Multi Tenant VNO
  - VNO : Virtual Network Operator
  - Carrier provide their core transport network to other network operator (VNO)
  - Creating and changing their virtual network dynamically by using ACTN

Use case:Multi Tenant VNO

- Multi-tenant virtual network coordination(VNC) function creates and assigns a virtual network for each service
  - VNC receives requirements from each service control agent
  - VNC requests a virtual network for each service to network control(NC) function
  - NC function reserves the virtual network in core transport network

Service Control

Multi-Tenant VN Coordination

Request a virtual network

Service A Internet

Reserve a virtual network (RSVP/PCEP)

Core Transport Network Control

Service A Internet

Core Transport Network

Service B Mobile

Service B Mobile

The requirements for MTVNO

- Dynamic Binding of Virtual Network
  - provide a new virtual network dynamically
- Separate Operation of Virtual Network
  - restrict a control of a virtual network of a service from other service network operator
- QoS and SLA
  - provide a virtual network which meets requirements from a network operator of each service
- Virtual Network diversity
  - provide a diverse virtual network for diversity purpose
- Security
  - restrict a connectivity between different services through the common core transport network

Next steps

- Need more comments and feedback