Example of Using APONF for SAVI in Complex Scenarios

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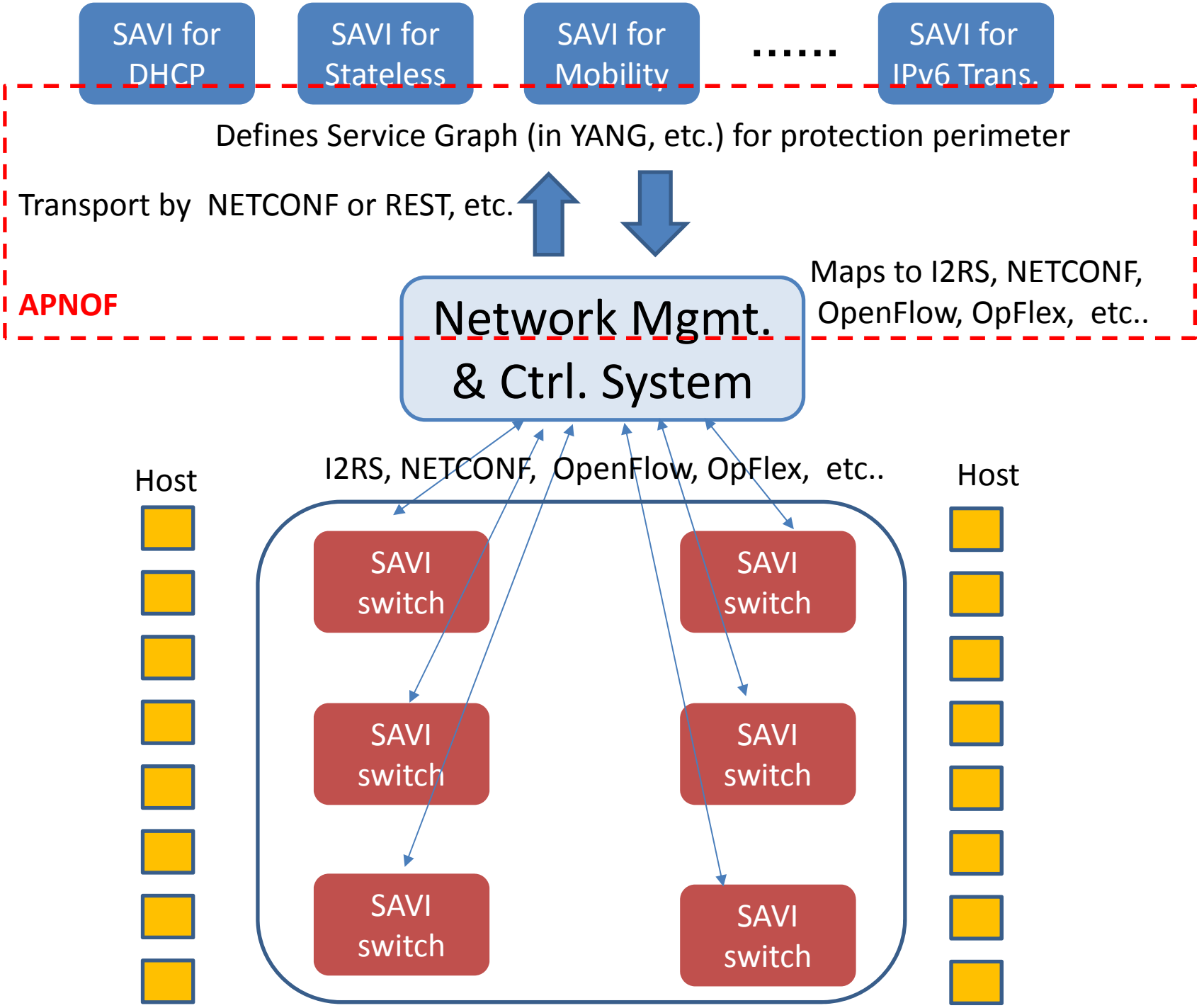
Motivations

- Complex SAVI deployment scenarios
  - Address assignment methods: Manual, SLACC, DHCP, SEND, Mixed, …
  - Access methods: LAN, WLAN, DSL, 3G, …
  - Mobility: local, across-network
  - Special cases: IPv6 transition, DNA, … Addr. related new stuff
- Proactively, SAVI Services "read" network conditions (topologies and the things above), define policies and build correct protection perimeter on SAVI switches
- Reactively, bring packets in especial cases (e.g. in IPv6 transition or mobility) to SAVI services to make decisions


SAVI for DHCP
SAVI for Stateless
SAVI for Mobility
.....
SAVI for IPv6 Trans.
Defines Service Graph (in YANG, etc.) for protection perimeter
Transport by NETCONF or REST, etc.
APNOF
Network Mgmt. & Ctrl. System
Maps to I2RS, NETCONF, OpenFlow, OpFlex, etc..
I2RS, NETCONF, OpenFlow, OpFlex, etc..
Host
Host
SAVI switch
SAVI switch
SAVI switch
SAVI switch
SAVI switch
SAVI switch

Thanks!