

Problem Statement for Flow Control of MIF Hosts

draft-liu-mif-flow-control-ps-00

IETF87

Dapeng Liu

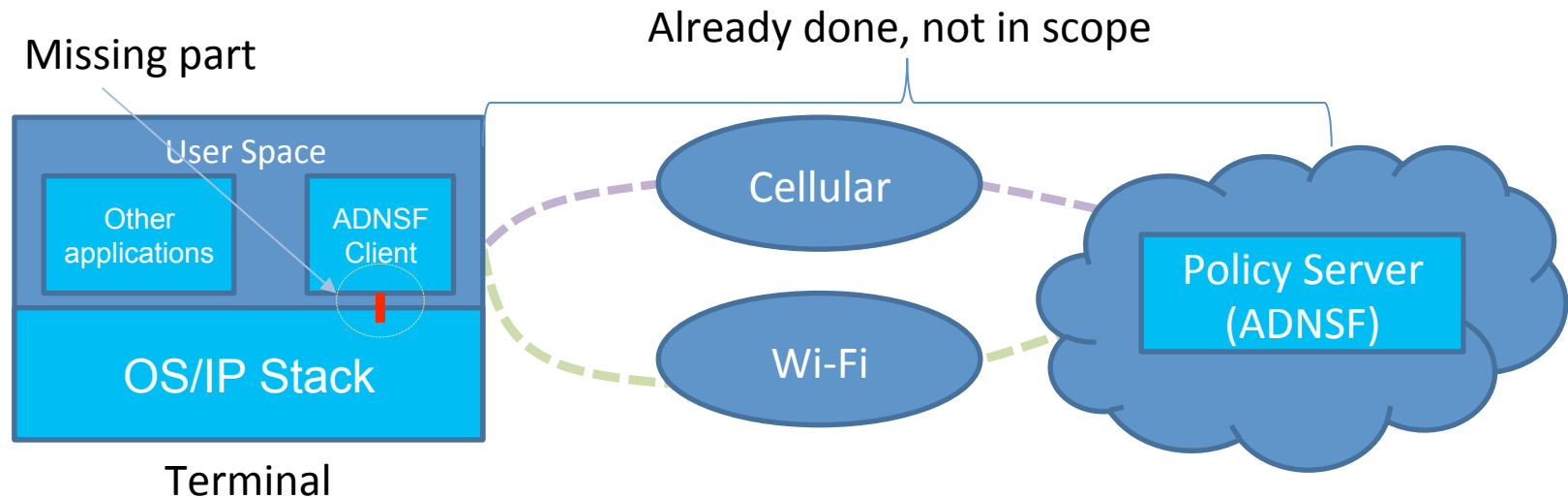
Outline

- Introduction to scenario and problem
- Potential solution scope

Scenario and use case

- Network provide IP flow routing policy
- User preference/settings

Network provide IP flow routing policy



- ANDSF (Access Network Discovery and Selection Function) is defined by 3GPP
 - Policy Server (ANDSF)
 - ANDSF Client (Connection Manager)
- Allow network to push network selection policies to the terminal
 - ANDSF is just one example, other policy sources would also be possible
- The policies defined by 3GPP/ANDSF includes IP flow granularity level policy
 - E.g. move video traffic from 3G to Wi-Fi when there is a Wi-Fi network nearby while keep the VoIP traffic remain in LTE.

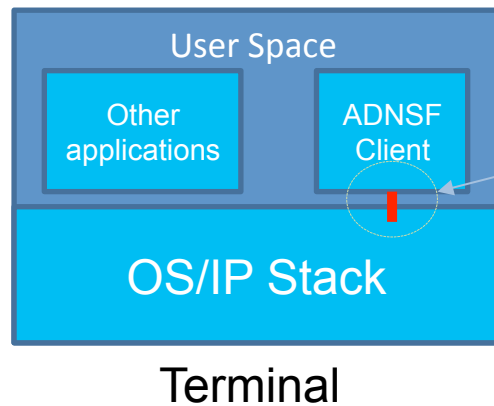
User preference/settings

- Users may want to set rules for specific applications
- For example:
 - Video traffic is preferred to use Wi-Fi network.
 - VoIP traffic is preferred to use LTE network.

Problems and Gaps

- There is no standard interface to implement the flow based policy on the terminal side.
- It is difficult to implement the flow based policy without a standard mechanism/interface in the user space.

Potential solution scope



Define an API to configure the IP stack's routing rules in IP flow granularity.

The routing table/mechanism in the host IP stack may also need to be changed accordingly

Next Step

- Does the group have interest on this?
- Create an work item?