

# Improving ICE Interface Selection Using Port Control Protocol (PCP) Flow Extension

**draft-reddy-mmusic-ice-best-interface-pcp-00**

IETF88

Nov 2013

Authors: T.Reddy, **D.Wing**, B. VerSteeg, R.Penno, V.Singh

# *Problem Statement - ICE*

- Host with multiple network interfaces. Each interface may have different link characteristics.
- How to choose the best interface for media streams ?
- ICE Agent does not have any info to prioritize candidates from multiple interfaces.

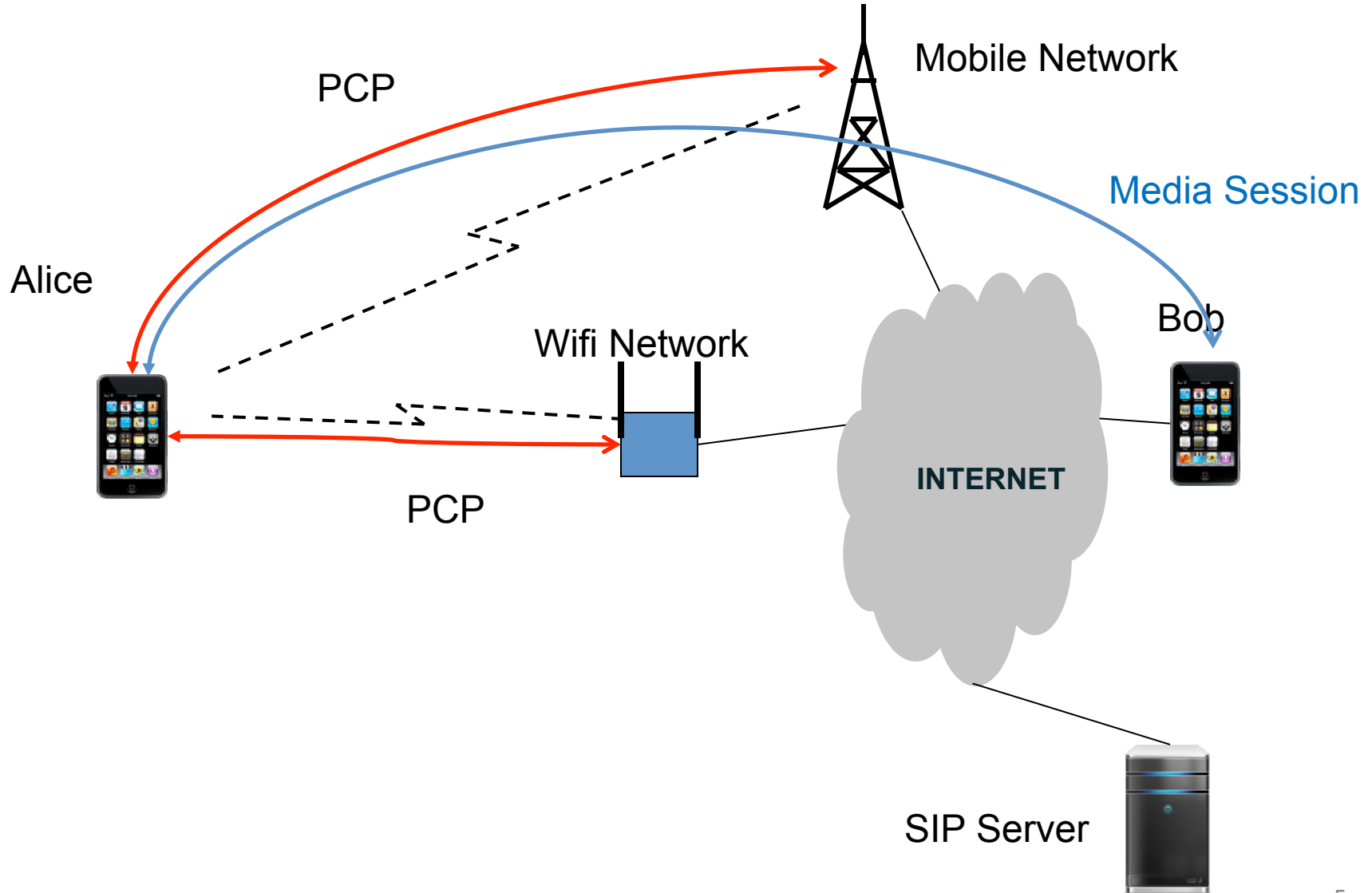
# *PCP FLOWDATA OPTION*

- Signal the application's network requirements to the access network
  - So certain network flows receive different service than other network flows
- Signal access network's ability to accommodate the flow

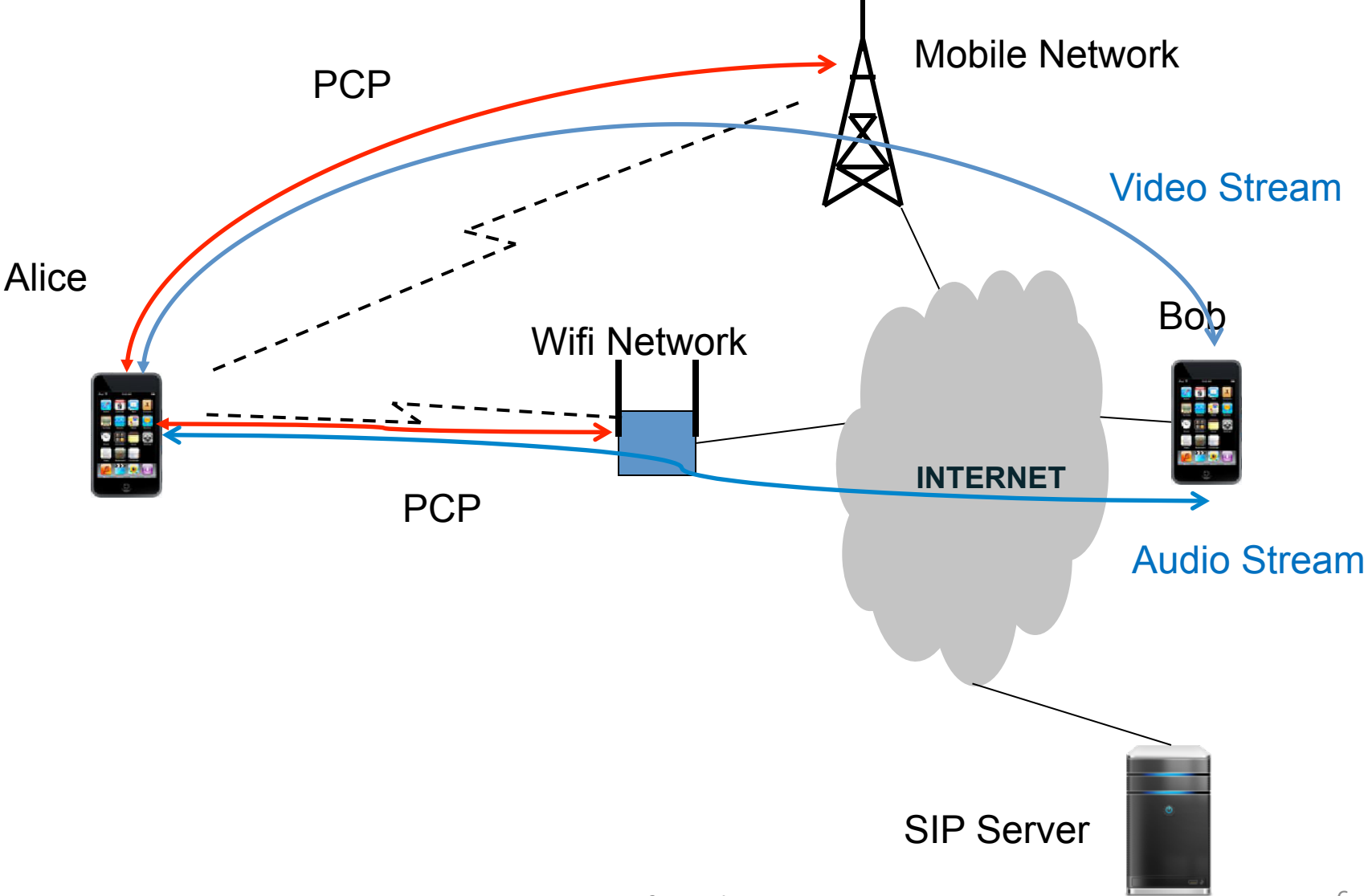
# *Algorithm Overview for ICE*

- On Network attach, determine if the network supports PCP
- On Session setup, query link characteristics of each interface
- Prioritize the ICE candidates accordingly

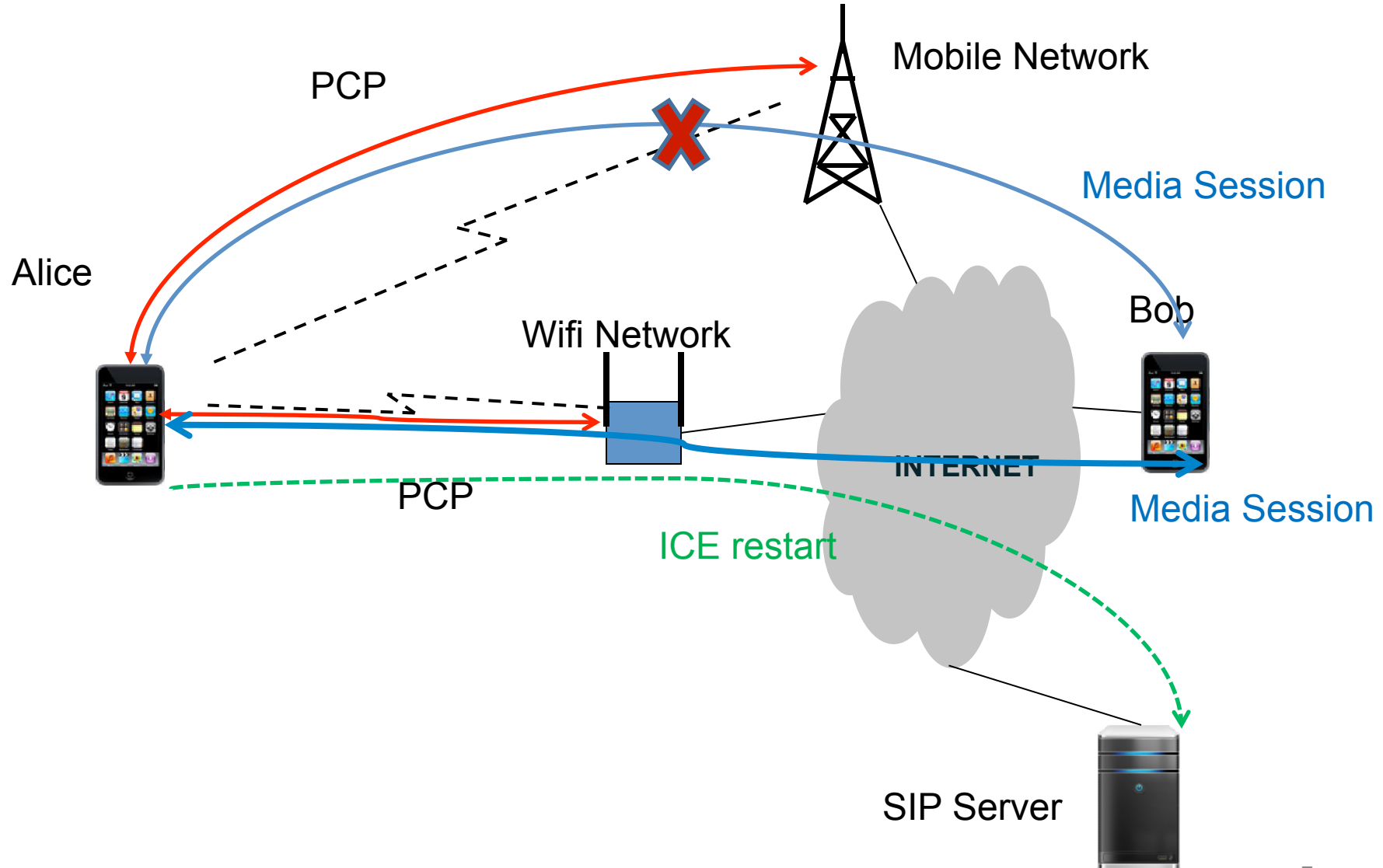
# Algorithm overview for ICE



# Multiple Interfaces for media streams



# Availability of New Interfaces



**draft-reddy-mmusic-ice-best-interface-pcp-00**

**QUESTIONS ?**