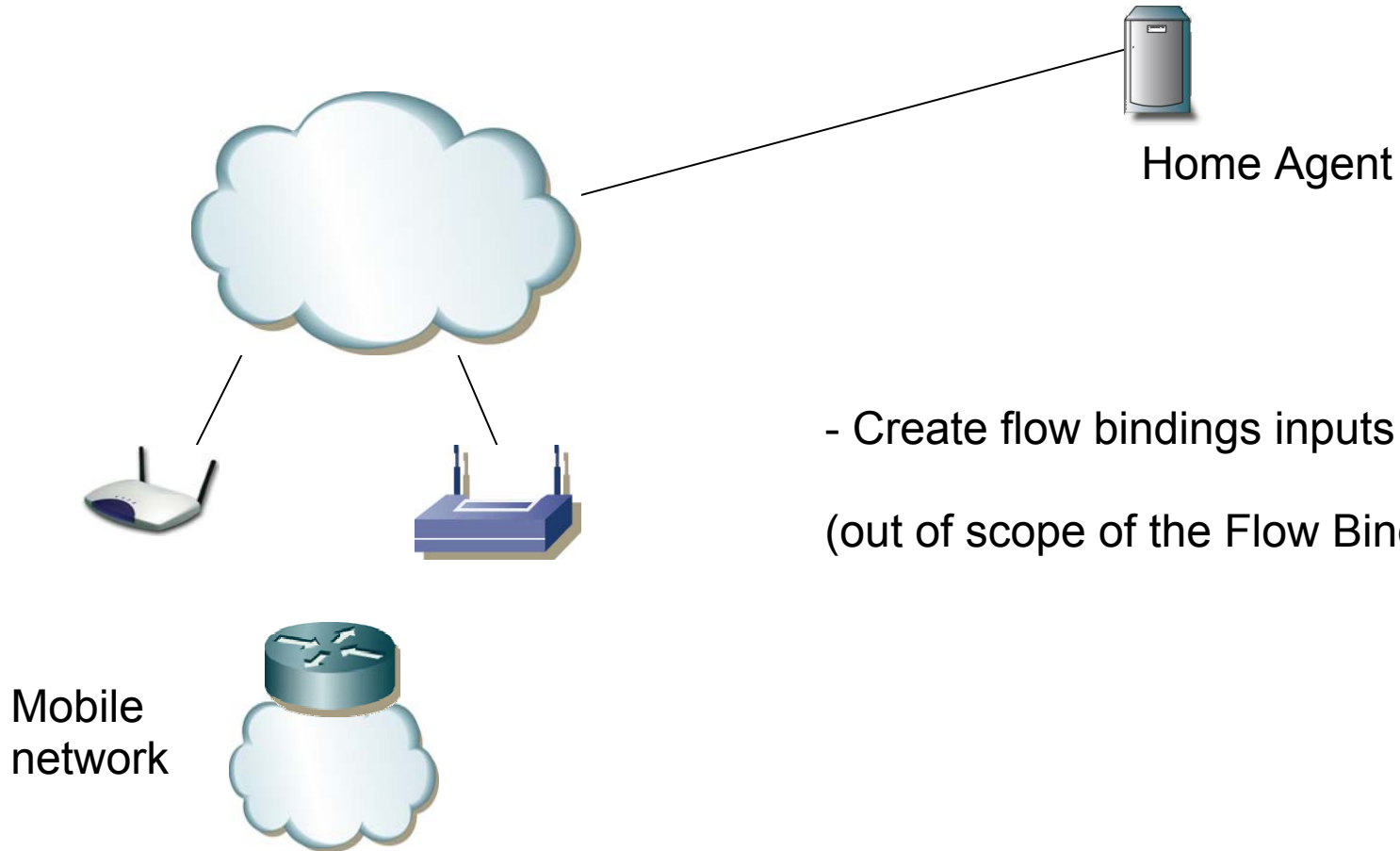


draft-soliman-monami6-flow-bind  
Hesham@qualcomm.com

# Objective

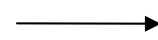
- To be able to transfer flow binding rules between MN/MR and HA/CN/MAP
- Aggregate flows in one BU (use of MCoA)

# Operation



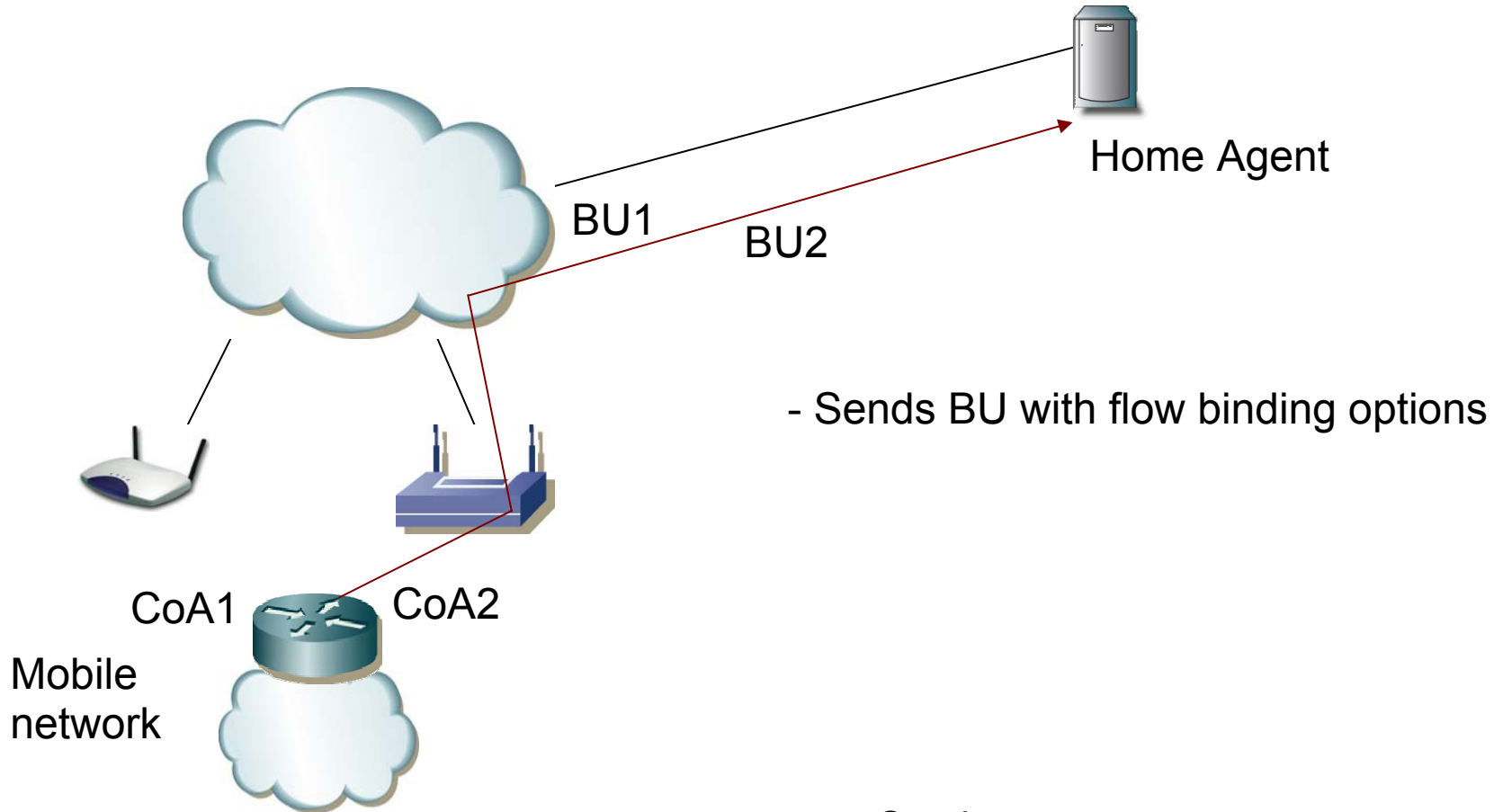
- Create flow bindings inputs at the MN/MR  
(out of scope of the Flow Binding I-D)

Flow X, Y : 802.11 interface, 802.16 interface  
Flow W : 802.16 interface, 802.3  
Flow Z : 802.3



Inputs for future flow bindings when  
attaching to foreign networks

# Operation....cont



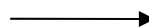
- Sends BU with flow binding options

## Inputs

Flow X, Y : 802.11 interface, 802.16 interface

Flow W : 802.16 interface, 802.3

Flow Z : 802.3



## Send

One BU with CoA1 as source address and three flow binding options (Flow X, Flow Y and Flow W)

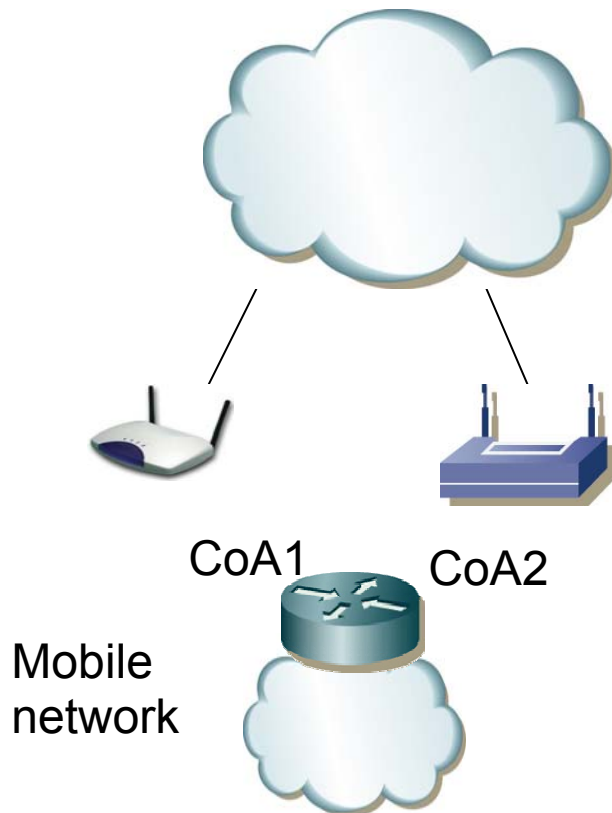
# Operations...cont

*HoA1 – CoA1 – flow X*  
*HoA1 – CoA1 – flow Y*  
*HoA1 – CoA2 – flow W*



Home Agent

- Create flow bindings on HA/MAP and MN/MR

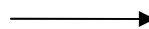


*Inputs*

Flow X, Y : 802.11 interface, 802.16 interface

Flow W : 802.16 interface, 802.3

Flow Z : 802.3



*HoA1 – CoA1 – flow X*

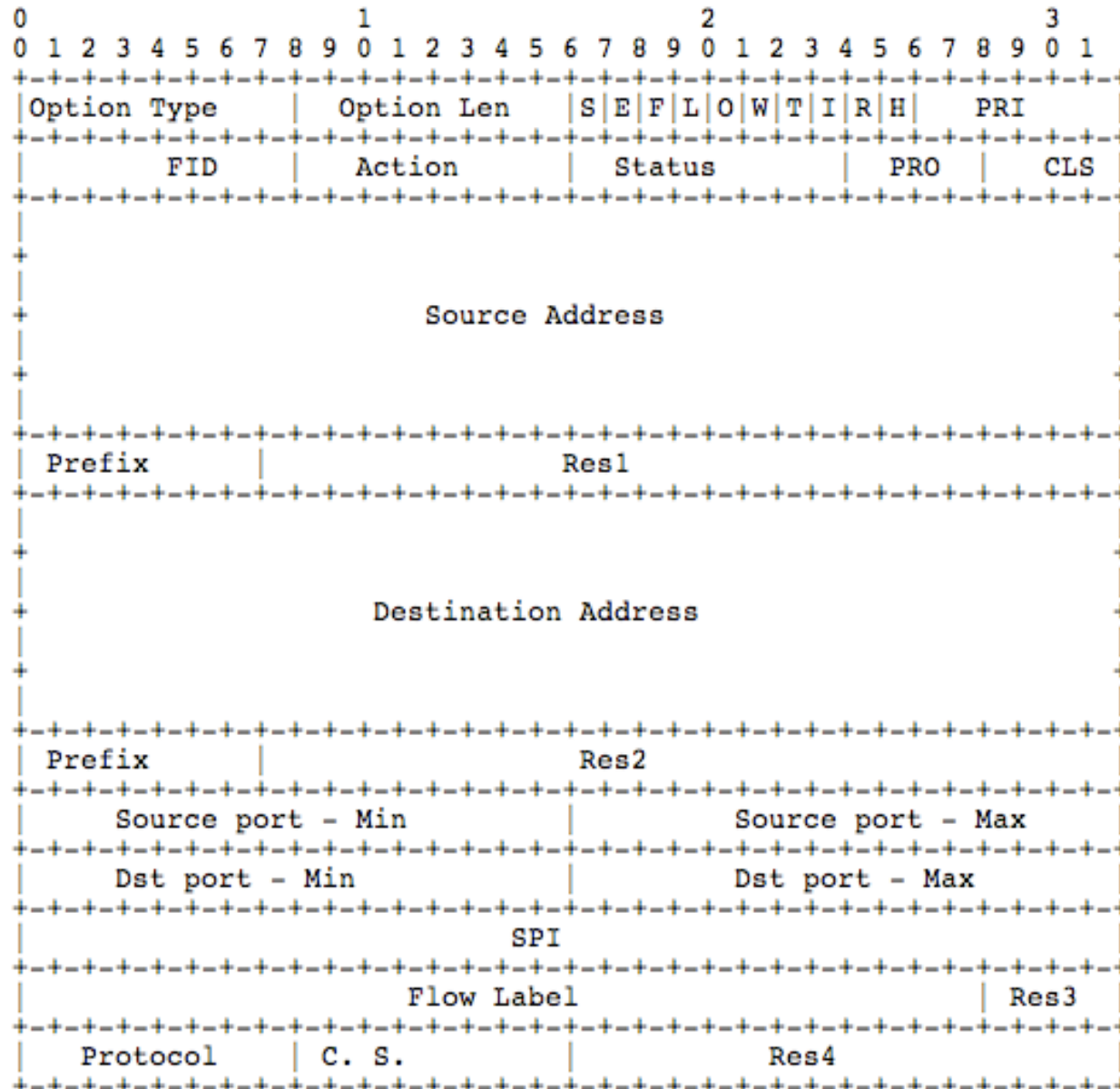
*HoA1 – CoA1 – flow Y*

*HoA1 – CoA2 – flow W*

# Recent Updates

- Version 2 and 3 have been published since IETF66
- Address the following major updates
  - Section organization
  - Include MCoA support
  - Terminology section
  - CLS field
  - BID usage (via the Binding Reference)
  - n-casting
  - Update references

# Flow identifier option







# BID usage

- Allow for bulk flow bindings registration
- Use the preferred field of BID option

# n-casting

*Duplicating the same traffic to several locations*

- Only possible with the Binding Reference Sub-option
- CoAs must be firstly registered
- Flow Identifier option transports all BIDs

# Remaining issues

- Preferred binding if MCoA is not used ?
- Several editorial clarifications
- Identification of a binding
  - Current: HoA, FID
  - Need further clarification:
    - If MCoA is used, and n-casting is in place, we can have
      - HoA1, BID1, FID1
      - HoA1, BID2, FID1
  - ⇒ Use the triplet (HoA, BID, FID) where BID and FID can be null

Accept as WG item?