Multiple Care-of Address Registration
draft-ietf-monami6-multiplecoa-01.txt

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Status

- draft-ietf-monami6-multiplecoa-01.txt
  - Missed deadline. The draft is currently queued.

- Updates
  - Adding a special value for “default binding” in the priority field. This value is used for “flow binding”
  - BID definition update
    - BID is assigned to each binding (not to interface)
  - Fix Typos
Comments from Jari

- Lack of failure detection scheme
  - Investigate other schemes cooperation

- Allow to use BID when single binding is active?
  - Yes

- The usage of the priority field
  - Flow filtering needs default binding
  - MN can use the priority value to pick one binding if no filtering scheme is available

- Verification whether CN supports MCoA or not
  - MN must set A flag in the first BU to CN

- RR timing issue
  - The current draft said that CoTI/HoTI should send before sending BU. The text will be updated.

- Blank security section
Bulk Registration
(Comments from Jari)

- The bulk registration is defined:
  - MN can carry **multiple** bindings in a single BU

- MN forgets BID due to unexpected reboot etc.
  - Changing the semantics of the bulk registration
    - In the bulk registration, MN must carry "**All the CoA**". HA must replace all the binding with the new bindings
  - Adding add-on flag in MCoA sub-option. When MN wants to add a binding, MN set this flag on.
  - Removable flag is complicated.
Comments from Keigo

- When MN returns home, it creates CoA from its home prefix (Home-CoA) and registers it to HA
  - Advantage
    - MN can utilize an interface attached to the home link and other interfaces attached to foreign links
  - Issues
    - The definition of HoA and CoA (RFC3775) is modified.
    - MN starts NS for the destination located on the home link (bypass tunnel?)
      - Priority of NDP/Routing Table/Binding Cache??
    - I’m afraid of side-effect of this changes. (ex. IKE?, MR routing update, etc)
Operational Solution for returning home

- If a home link is multihomed (i.e. advertising one home prefix and another foreign prefix), similar configuration can be achieved.

RA (2001::64 and 2002::64) → 2001::1 (HA) → HA

IP-in-IP tunnel

HA

Binding
2001::2 - 2002::3

2001::1 (HA)

2002::3 (CoA)

MN

2001::2 (HoA)

No returning home

Returning Home