

Welcome to
MONAMI6 Working group
Mobile Nodes and Multiple Interfaces in IPv6

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MONAMI6 WG
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Before starting...

- Thank to
 - Nicolas Chevrollier for taking minutes
 - Chan Wah for jabber
- Link to materials
<https://datatracker.ietf.org/meeting/69/materials.html>
- Please, sign the blue sheets

MONAMI6 goals

- Motivations for a node to use multiple global addresses
- Analysis of the limitations for mobile IPv6 nodes to benefit from multihoming configurations
- Standard track for the support of the registration of multiple Care-of Addresses
- Define a format for flow policies exchange and enforce these policies between the mobile host and the HA

Agenda bashing (1/2)

1. Welcome, agenda bashing, WG documents status
Chairs, 10 minutes
2. MEXT charter discussion
Chairs, 15 minutes
3. Finalizing Motivations & Scenarios before WGLC
Thierry Ernst, 15 minutes
draft-ietf-monami6-multihoming-motivation-scenario-02.txt
4. Finalizing MIP6 Problem Statement before WGLC
Thierry Ernst, 15 minutes
draft-ietf-monami6-mip6-analysis-03.txt

Agenda bashing (2/2)

5. Finalizing MCOA Solution

Ryuji Wakikawa, 15 minutes

draft-ietf-monami6-multiplecoa-03.txt

6. Next steps for the working group

Chairs, 10 minutes

draft-soliman-monami6-flow-binding-04.txt

draft-larsson-monami6-filter-rules-02.txt

From Monami6 to MEXT

- Added a new milestone since IETF68
 - Added a new Standard track: the specification of format for flow binding to interfaces
- Monami6 work is being merged in the Mobility EXTension WG
- The milestones did not change from Monami6 to MEXT

WG milestones

(linked to monami6)

[July 2008] A document explaining the motivations for a node using multiple interfaces and the scenarios where it may end up with multiple global addresses on its interfaces [Informational]

[July 2008] An analysis document explaining what are the limitations for mobile hosts using multiple simultaneous Care-of Addresses and Home Agent addresses using Mobile IPv6, whether issues are specific to Mobile IPv6 or not [Informational].

WG milestones

(linked to Monami6)

[August 2007] A protocol extension to support the registration of multiple Care-of Addresses at a given Home Agent address [Standard Track].

[April 2008] A "Flow/binding policies exchange" solution for an exchange of policies from the mobile host/router to the Home Agent and from the Home Agent to the mobile host/router influencing the choice of the Care-of Address and Home Agent address.

=> The solution involves two specifications, one for the **policy format** and another for **its transport** [both Standard Track].

Clarification in the (MEXT) charter

- The text only considers multiple Home Agent addresses, never multiple Home Addresses
- By definition, a MN is also multihomed when it has multiple HoAs
- The work proposed in MEXT is not to deal with multiple HoA management, but to include this in the definition and problem statement

Proposed changes to the charter

second paragraph of A3:

When a mobile host/router uses multiple network interfaces simultaneously, or when multiple prefixes are available on a single network interface, the mobile host/router would end up with multiple Care-of Addresses (CoAs) **or multiple home addresses.**

Proposed changes to the charter milestone 2

An analysis document explaining what are the limitations for mobile hosts using multiple simultaneous Care-of Addresses and Home Agent addresses using Mobile IPv6, whether issues are specific to Mobile IPv6 or not [Informational].

TO

An analysis document explaining what are the limitations for mobile hosts using multiple simultaneous Care-of Addresses, Home Agent addresses **and Home addresses** using Mobile IPv6, whether issues are specific to Mobile IPv6 or not [Informational].

Proposed changes to the charter milestone 3

A protocol extension to support the registration of multiple Care-of Addresses **at a given Home Agent address** [Standard Track].

TO

A protocol extension to support the registration of multiple Care-of Addresses **to a single home address** [Standard Track].

Issue with the milestone 4

A "Flow/binding policies exchange" solution for an exchange of policies from the mobile host/router to the Home Agent and from the Home Agent to the mobile host/router influencing the choice of the Care-of Address and Home Agent address. The solution involves two specifications, one for the policy format and another for its transport [both Standard Track].

This includes:

- (1) Exchange policies / apply policies to addresses to influence the choice of the CoA
- (2) Exchange policies to influence the choice of the HA address
- (3) Specify a generic format to describe the policies

Proposition for item 4

(1) and (3) are former Monami6 goals.

Separate them into two clear goals:

- Policies enforcement from the mobile host/routerto the HA to influence the choice of the CoA
- Definition of a generic format to describe policies / filter rules for flow binding on interfaces

(2) can be included in the HA switch goal