



Multihoming in MIP6

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◆ **Multihomed Node**

- ◆ A node with multiple interfaces or multiple addresses

◆ **Multihomed Mobile Node using MIP6**

- ◆ Multiple interfaces
- ◆ Multiple HAs
- ◆ Multiple HoAs, CoAs

◆ **draft-ernst-generic-goals-and-benefits**

- ◆ List a motivations / benefits / and scenarios involving fixed/mobile hosts/routers
 - ◆ General, not focused to mobility, but more motivations in mobility, and bring more motivations for mobile nodes
- ◆ Motivations / Benefits = why you need / how this helps
 - ◆ Permanent and Ubiquitous Access
 - ◆ Redundancy/Fault-Recovery
 - ◆ Load Sharing
 - ◆ Load Balancing
 - ◆ (Bi-casting)
 - ◆ Preference Settings
 - ◆ Increased Bandwidth

- ◆ **Observation:**
 - ◆ not interesting to deploy MIP6 without support of multiple interfaces
 - ◆ More interesting to switch between WIFI and 3G/Air/HIPB-mobile/GPRS
- ◆ **A long history of contributions to the Mobile IP / MIP6 WG**
 - ◆ draft-montavont-mip6-mmi-02.txt
 - ◆ draft-montavont-mobileip-v6-ha-filtering-00.txt
 - ◆ draft-soliman-flow-move-02.txt
 - ◆ draft-nomadv6-mobileip-filters-02.txt
 - ◆ draft-wakikawa-mobileip-multiplecoa-02.txt
 - ◆ draft-nagami-mip6-nemo-multihome-fixed-network-02.txt
 - ◆ draft-deng-mip6-ha-loadbalance-02.txt
- ◆ **But no standardization / outcome at the IETF. Why ?**
 - ◆ Each solution usually addresses only some of the problems
 - ◆ Item never included as a WG item, for many reasons
 - ◆ including past priorities, lack of belief, lack of stable MIP6 protocol, ...
- ◆ **draft-montavont-mobileip-multihoming-pb-statement-01.txt**
 - ◆ 1st attempt for a pb statement / listing of issues

Seeking Sense of the Room

◆ **Shall we:**

- ◆ Include the support of multiple interfaces as a MIP6 WG item ?
- ◆ Set up a new WG and address support of multiple interfaces for both fixed/mobile host/routers ?
- ◆ Set up a new WG and address support of multiple interfaces for MIP6 mobile nodes ?
- ◆ Solve multiple interfaces support in NEMO WG and retrofit this to MIP6 ?