Flow Binding Extensions to PMIPv6
IETF 82
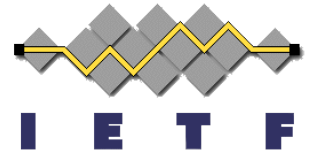
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draft-sarikaya-netext-fb-support-extensions-01

Problem Statement
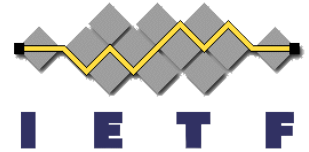
- ❑ **LMA initiated flow mobility is not possible in PMIPv6 of RFC 5213**

- ❑ **PMIPv6 Multihoming extension (RFC 5213) treats each interface independently**

- ❑ **LMA does not know about different interfaces MN may have, LMA does not manage bindings from different interfaces of the mobile node in an integrated fashion**

- ❑ **Each interface creates a different independent mobility session at the LMA**

- ❑ **Flow mobility is not possible MN uses different source addresses when sending packets over these interfaces**

draft-sarikaya-netext-fb-support-extensions
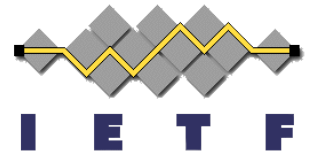
- ❑ We have a simple solution:
- ❑ The bindings in binding cache from each interface are kept together so that the flows can be moved among interfaces.
- ❑ MN may have as many binding entries as it has active interfaces, one "home" and many "secondary", flagged "H" or "S"
- ❑ A new H flag in HNP option is set to 'H' for home and 'S' for other interfaces
- ❑ Incoming flows always directed to home interface, flow state set at LMA to direct flows to different active interfaces
- ❑ MN always sends non-local packets with source address assigned from HNPs of its home "H" interface