

Application interface to
exchange mobility
information with mobility
subsystem

<draft-momose-mip6-mipsock-00.txt>

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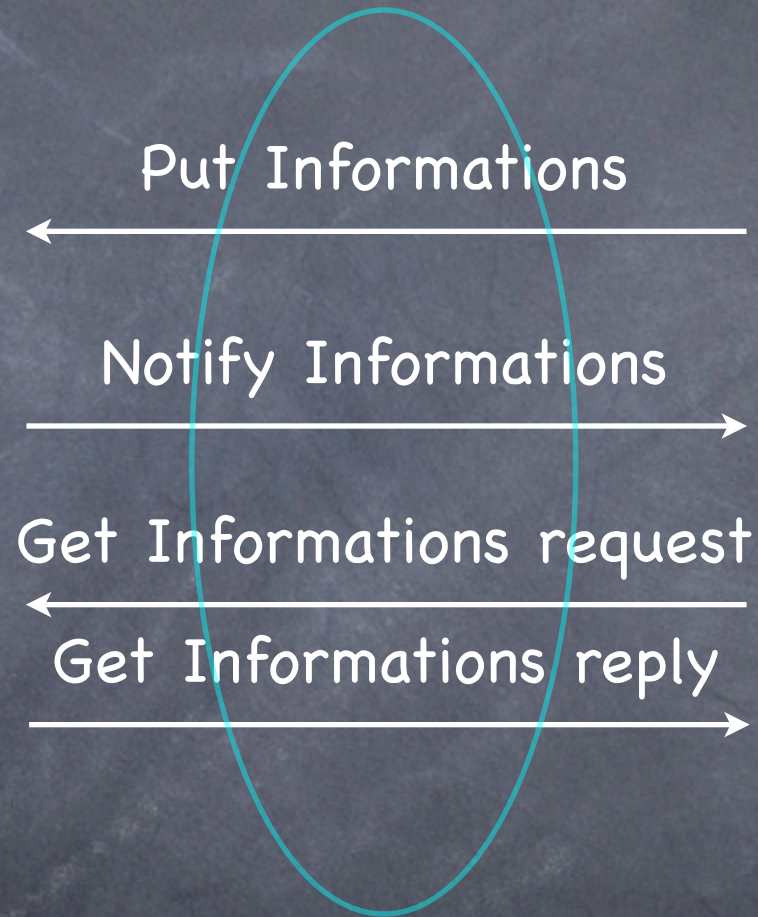
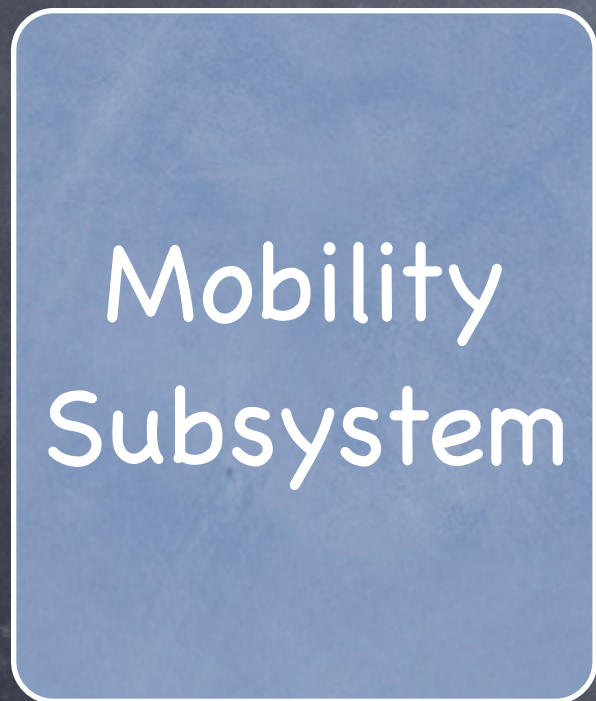
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Motivation

- Some applications want to know the mobility status of the node and want notification when the status was changed
 - Binding Cache
 - Binding Update list entry
 - Other informations; node type, ...
- e.g. notified a binding update list entry updated that changed its CoA
 - the application could know the node was moved.

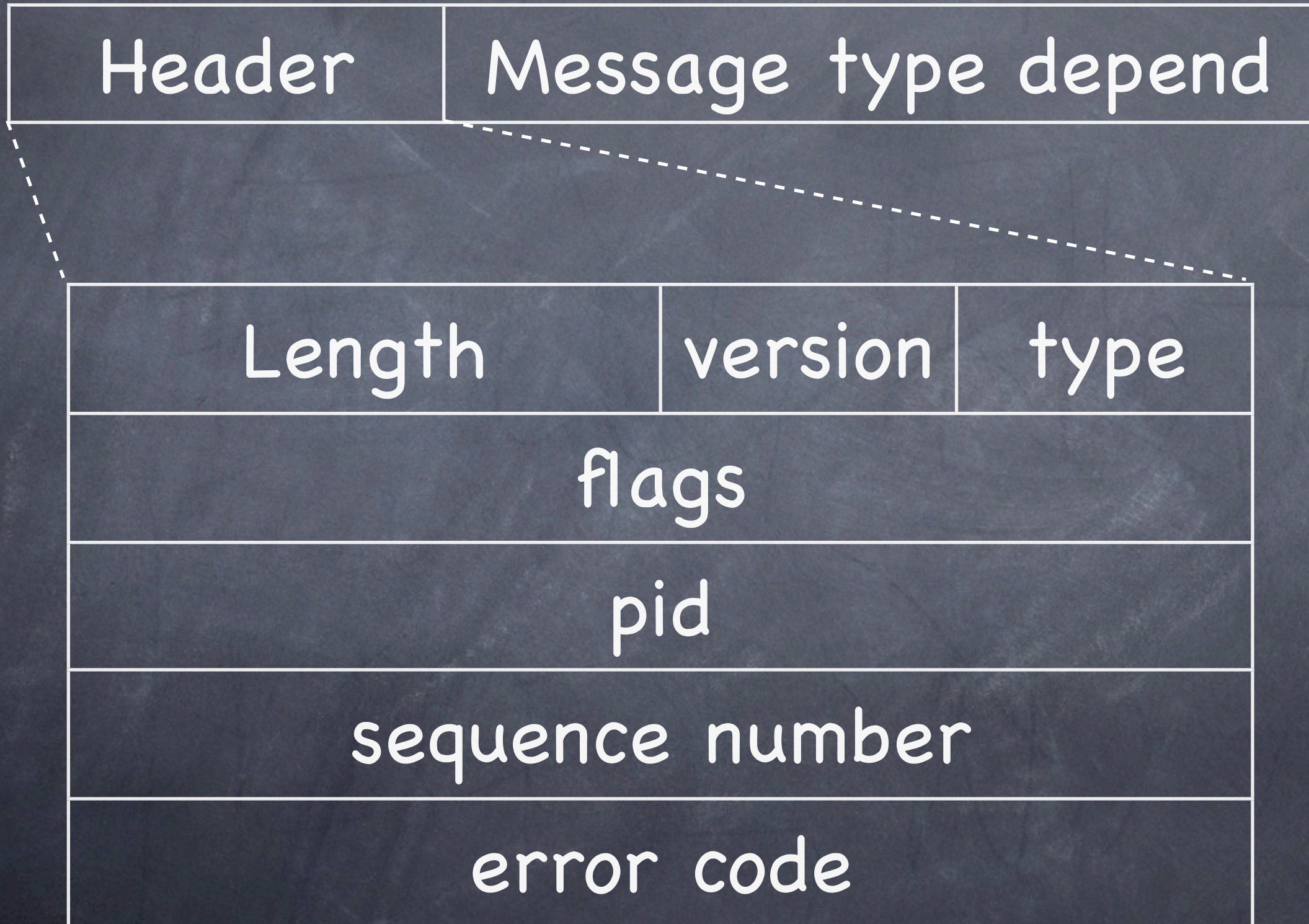
Proposed Mechanism

- A new Protocol Family is introduced
 - AF_MOBILITY
 - `s = socket(AF_MOBILITY, SOCK_RAW, 0);`
- All messages are broadcasted to the all applications which listen the socket
- Behaves like PF_ROUTE, PF_KEY does



mobility socket API

Message Format



Message Types

- Binding Cache Related
 - MIPM_BC_ADD
 - MIPM_BC_UPDATE
 - MIPM_BC_REMOVE
 - MIPM_BC_FLUSH
 - MIPM_BC_GET
- Binding Update List Related
 - MIPM_BUL_ADD
 - MIPM_BUL_UPDATE
 - MIPM_BUL_REMOVE
 - MIPM_BUL_FLUSH
 - MIPM_BUL_GET
- OTHERS
 - MIPM_NODETYPE_INFO
 - MIPM_MD_INFO
 - MIPM_HOME_HINT
 - MIPM_RR_HIN
 - MIPM_BE_HINT

Current Status

- Framework and each message types and its format are defined
- Messages are not sophisticated yet
 - The current specifications are based on Shisa. some message types are not fit to the standardization track.

Next Step

- Should consider message types
- ?