

IPv4/IPv6 Interoperability for Mobility

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Status

- Bar BOF & v6ops discussion on this topic at previous IETF in Seoul.
- Discussion focused on identification of other possible protocol combinations and which ones realistically make sense to support.
- Discussion also focused on the solution approach – mobile ip protocol changes versus v6ops transition methods.
- Hesham, Carl, Pekka did additional thinking after IETF-Seoul on looking at scenario analysis.

Status (2)

- Areas of analysis:
 - Problem space
 - Scenarios: elaborate on the different scenarios and how realistic they are.
 - Solution Space Approach
 - which scenarios are addressed by solutions
 - Security
 - Reuse of existing mechanisms
 - Efficiency of mobility (signalling, BW utilization...etc)
 - other ?
 - MIP based solution versus Others (pros/cons)
- Vision : we hope to provide a vision for MIPv6 transition

Table of MIPv4/6 combinations

Table of MIPv4/6-IP4/6 combinations:

#	MN Home Address	MIP Client	Transpt & HA if.	Short description
1	IPv4	MIP v4	v4	"native MIPv4"
2	IPv6	"	v4	"IPv6 in MIPv4"
3	IPv4	MIP v6	v4	"IPv4 in MIPv6 over IPv4"
4	IPv6	"	v4	"MIPv6 over IPv4"
5	IPv4	MIP v4	v6	"MIPv4 over IPv6"
6	IPv6	"	v6	"IPv6 in MIPv4 over IPv6"
7	IPv4	MIP v6	v6	"IPv4 in MIPv6"
8	IPv6	"	v6	"native MIPv6"