Overflight of IETF work enabling Mobility and Nomadicity: The view from 10km

IETF Approach to Mobility and Nomadicity

- ? Consonant with the general IETF approach the focus is on building pieces that fit into many architectures, rather than creating a single best architecture using a systems-engineered approach.
 - Where possible, dependencies among specific pieces are limited.
 - Aim is to allow for varying approaches, depending on different meanings of "best" in specific deployments.
 - For all deployments, we presume "best" includes both interoperation with non-mobile Internet and with other mobile nodes.

Piles of Pieces

- ? Network topologies
- ? Service Delivery
- ? Location

Network Topologies

- ? Available building blocks
 - Mobile IP v4
 - Mobile IP v4
 - VPNs and Tunnels
 - SCTP
- ? Works in progress
 - Location/ID split (e.g. HIP)
 - Non-PI Multi-Homing
 - Shim6

Service Delivery

? Basic aim is to allow transport and service to be independent where useful.

- SUBMIT

? Provides message submission credentials independent of topology; can be paired with TLS for confidentiality

- DIAMETER/Radius Extension

Allow for single credential set to be used with multiple service providers

- SIP/Presence

Allows user to receive service based on availability and preference, even across service provider

Location

- ? Single data format
 - Can be used by multiple using protocols
 - Can be tied to presence
 - Can be tied to resources