

# Home Networking Incremental

draft-jvkjmb-home-networking-incremental-00

IETF 87

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# Overview

- Document a phased approach to full HOMENET functionality
- Rationale includes:
  - requirement to provide interim solutions to meet market needs
  - Path to allow appropriate time to develop and mature home networking functions
- Objective is to document steps, not transition components (that is for other documents)

# Structure

- Background on home network evolution (past, present and future)
- Document Network Phases including:
  - Elementary Network (6204/6204bis) now
  - Medius Network (HIPnet/HIPnet like) near
  - Provectus Network (Routing protocols) future
  - Posterus Network (prefix assignment via RP) future
- Process has begun (by virtue of 6204/6204bis)

# Feedback (1/3)

- Text verbosity
  - Authors to reduce text segments
- Challenge need for document
  - Authors feel document is required, as topic is not address thus far
  - Progression is part of any deployment type, we WG should address the realities of this progression (since HOMENET is not step one by nature)
- Upgrade path presented
  - The progression is documented as steps
  - External documents would address transition given technology
  - (i.e. If HIPNet is used, then it would discuss inter-op with 6204 operator – which it does)
  - Incremental draft is not defining new technologies, summarizing steps and organizing options

# Feedback (2/3)

- Upgrade path: barriers introduced by some phases
  - What barriers are present at which phases?
  - 6204 -> medius is addressed in HIPNet
  - 6204 -> provectus and HIPnet -> provectus are similar in nature and should be addressed by HOMENET
- Barrier example /64 assignment
  - Not an architectural point, but noting real deployments. Expected to change with confidence in equipment
  - For example, wireless uses /64 until certain 3GPP level reached

# Feedback (3/3)

- Barrier example routing protocol mis-match
  - Now recommendation was given on use of specific protocol (OSPF, ISIS etc.)
  - Not advocating use of multiple protocols, but many real networks today use multiple protocols (admin distance and longest match allow overlapping domains)
- Deal with tree model
  - The objective is to point to appropriate options for steps, and those documents deal with the nature of that step
  - Example is HIPNet as Medius phase – which deals with meshes by going for functionality (makes arbitrary topology work)
  - Allow optimizations for in-home connections later on (connectivity is largest initial problem to solve)

# Open Discussion

- Discussion