

# Simplified Multicast Forwarding (SMF) Progress/Issues

Joe Macker

Oct 5, 2006

67th IETF, San Diego, USA

# SMF -03 Draft Review

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- Version -03 has been posted
  - draft-ietf-manet-smf-03.txt
- Needed Text changes
  - Removed some redundancy
  - Additional editing
- Specification updates/changes
  - SMF-specific Neighborhood Discovery Protocol references removed
  - Reference common NHDP specification use when discussed
  - Optional “DPD source ID” added in TLV

# Further 02->03 Changes

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- Applicability section updated
  - Possible Site Scoped multicast
  - Border Gateway/PIM interoperability model
- SMF Multicast Border Gateway Considerations
  - Issues outlined
  - Not intended to fully specify here
- Model of Attached non-SMF Nodes Discussed
  - Recommendations for normal IGMP/MLD
- Some CDS TLVs removed (e.g., S-MPR)

# Goal Review and Next Step

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- The SMF MANET WG ID is initially targeting EXP RFC submission
- At present ID has been implemented and used across several working projects
  - OLSR Prototype Integration
  - MANET-OSPF Prototype quagga Integration
- Proposal
  - Firm up TLV definitions and gain experience with NHDP prior to IETF 68
  - Revise ID to -04 with modifications then consider for EXP RFC submission
- Ongoing Issues
  - Multiple Gateway and Dynamic Extension Approaches
  - Leave open for experimentation and future specification

# Key Design/Implementation Issues

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- Forwarding Method Specification
- Duplicate Packet Detection Mechanism
- Supports a variety of CDS algorithms
- Supports and Uses Neighborhood Discovery Protocol (NHDP)