Requirements for the extension of the MLD proxy functionality to support multiple upstream interfaces

<draft-ietf-pim-multiple-upstreams-reqs-01>

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Purpose and Content

• Purpose
  – To define the functionality that an IGMP/MLD proxy with multiple upstream interfaces should have in order to support different scenarios of applicability in both fixed and mobile networks

• Content
  – Problem statement
  – Scenarios of applicability
  – Requirements for these scenarios are identified
  – Security considerations
Document’s history and Next Steps

• Adopted after IETF 92nd (Dallas)
  – Problem presented to different WGs before (originated in MULTIMOB)
• Some initial security considerations added in -01
• Next steps:
  – Add mobile network scenarios (those from MULTIMOB) and their associated requirements
  – Collect input and comments from the WG on the use cases and requirements
  – Cover IGMP
  – Goal: publish it as Informational RFC
Backup Slides
Problem statement

• General application:
  - Sharing of a common network access infrastructure among different multicast content providers

• Advantages
  - Subscribers can get their preferred contents from different multicast content providers without network constraints and without requiring PIM routing on the access / aggregation device
  - Redundancy