

Multiple Interfaces (MIF) Problem Statement

draft-blanchet-mif-problem-statement-01

MIF wg
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Context

- draft-blanchet-mif-problem-statement-00
 - presented IETF 74 San Francisco MIF BOF
- This presentation is about -01
- Objectives of -01:
 - wording/content closer to charter
 - Integrate comments from BOF and mailing lists
 - Attempt to have more formal wording (such as Definition of a MIF host)
 - Use consistent vocabulary throughout the draft (eg. Node-scoped, ...)
 - New co-author: Pierrick Seite (France Telecom/Orange)

Changes from -00 to -01

New Definition

- Definition of a MIF Host:
 - a [RFC1122] IPv4 and/or [RFC4294] IPv6 compliant host
 - configured with more than one IP addresses (excluding loopback, link-local)
 - on one or more active interfaces, as presented to the IP stack.
 - The interfaces may be logical, virtual or physical.
 - The IP addresses may be from the same or from different address families, such as IPv4 and IPv6.

Definition

- Definition of a MIF Host (continued):
 - Communications using these IP addresses may happen simultaneously and independently
 - While the MIF host may forward packets between its interfaces, forwarding packets is not taken into account in this definition.
 - The IP addresses come from more than one administrative domains
 - "one or more than one" or "more than one" ?

Changes (continued)

- Section « Related work »:
 - Added a section on Strong/Weak models from host requirements [RFC1122]
 - More text on address selection
 - Added discussion on ICE
 - Added section on API
 - Advanced socket API[RFC3542] used to specify source IP address or interface
 - Default address selection API [RFC5014]

Changes (continued)

- Section Symptoms
 - Each symptom is described with a (technical abstract) scenario.
 - DNS resolution
 - Routing
 - Address selection policy
 - Single interface on multiple networks

Changes (continued)

- Problems
 - Lists the underlying problems such as: routing tables, dns server addresses ... are usually node-scoped...

Next Steps

- Include section 3 of draft-williams-mif-problems-scenarios-00.txt for -02.
- Request to WG to accept this draft as MIF working group document.

Questions?

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Document:

- `draft-blanchet-mif-problem-statement-01.txt`