

# **MIF API**

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# Document Status

- No changes since IETF 82
- Fruitful discussion at MIF/OMA workshop
- Missing guts
  - How does this interact with link up/down?
  - How does it interact with RA?
  - How does it interact with DHCP?
  - Do the answers to these questions belong in separate document?

# New Issues

- Application connectivity management
- Connected stream handoff
- QoS-based preference
  - Application-specified
  - API-announced
- ToS-based preference

# Application Connectivity Management

- Application hints that it wants to connect
- Application hints that connection is idle
- Application hints that connection can be broken
- API hints that Interface/PD is going away
- API indicates that interface is going away
- API indicates that interface is expensive
- Etc?

# Connected Stream Handoff

- MIF host with varying connectivity
- Interface availability shorter than stream life
- Same with provisioning domain lifespan
- Connected streams ought to be maintained
- Does the MIF API need to address this
- Or is it handled transparently by Mobile IP, etc?

# QoS-based preference

- Current doc assumes all PDs are equal
- There is demand for low-jitter or streaming-oriented service
- Should MIF API expose this capability?
- Could use help figuring this out

# ToS-based Preference

- Current doc assumes all PDs are equal
- Some PDs forbid, e.g., VoIP
- Some PDs better for, e.g., streaming video
- Some PDs more expensive
- Should MIF API address these issues?
- Can we get help figuring out how?

# Next Steps

- Update doc for app connectivity management
- Feedback on stream handoff?
- Feedback on QoS? Help?
- Feedback on ToS? Help?