

MIF API

Connection Manager

Considerations

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Draft:

- <http://tools.ietf.org/html/draft-seite-mif-cm-00>

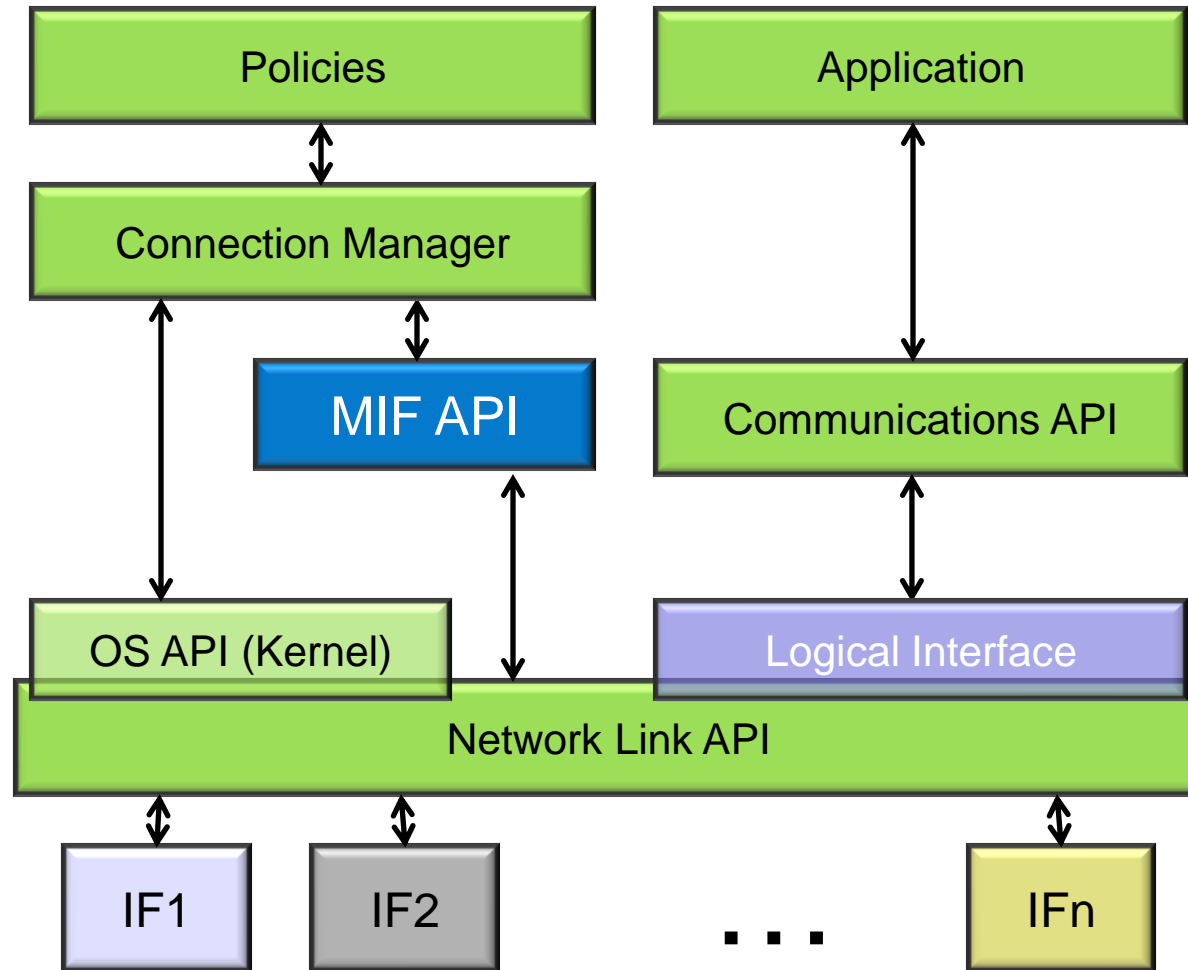
What it is:

- Functionalities required by a generic Connection Manager (CM) from the MIF API to present a coherent behaviour over different devices and platforms with multiple interfaces (MIF)

What it is not:

- A Connection Manager specification
- An IEEE 802.21 proposal to modify the MIF API

MIF API Framework (with CM)



MIF API CM Functions

Function	API	Existent in MIF API
• <code>Subscribe(eventID)</code>	MIF API	Partial?
• <code>UnSubscribe(eventID)</code>	MIF API	Partial?
• <code>ListInterfaces()</code>	MIF API	Yes (Announce IF)
• <code>ListProvisioningDomains()</code>	MIF API	Yes (Announce PD)
• <code>GetStatus(IID)</code>	MIF API	No
• <code>IPconnectivityCheck(PID, IP[])</code>	MIF API	No
• <code>GetConfiguration(IID)</code>	OS API	-
• <code>SetConfiguration(IID)</code>	OS API	-
• <code>GetConfiguration(PID)</code>	MIF API	Yes (Announce PD)
• <code>SetConfiguration(PID)</code>	MIF API	No
• <code>GetTheoreticalQoS(IID)</code>	MIF API	No
• <code>GetAvailableQoS(IID)</code>	MIF API	No
• <code>GetIPtype(IP address)</code>	OS API or MIF API?	No
• <code>AssociateRouting (RT-TABLE-ID, FlowID)</code>	OS API or MIF API?	No (SetConfig?)
• <code>SetSourceAddress(IP, FlowID)</code>	OS API or MIF API?	No (SetConfig?)

Next steps

- There is a need to manipulate configuration of IP objects coherently
- Should the MIF API be the only interface with the IP stack?
 - If yes, should the MIF API include more functionalities, e.g. a "setconfig" function?
 - If no, a suggestion to keep this draft as separate?