FPC Status & Update

IETF 100
Nov 14th, 2017

Document Status

- 8th and 9th revision published before IETF100
- weekly/bi-weekly calls since IETF99
- Core document structure revised for clarity
- Section on model conventions and notation added
- Model and components description improved
- Align to improvements throughout the document
- Document size reduced
- More reviews needed
Implementation Status

● OpenDaylight FPC Agent
  - Multi-DPN Agent support

● ONOS based FPC Agent
  - Uses ONOS Flow store
Topo slide (DPN abstraction)
Model Core Structure

- All specified sub-structures are under [Mobility]

[Topology] : Define different DPNs and supported interfaces

[Policy] : General traffic treatment policy definitions – referenced by subsequent two policy sub-trees:

[Configurable-Policy] : Long-term policies (pre-provisioned)

[Mobility-Context] : Created / modified as result of mobility events / transactions

[Monitor] : Event definition and description – triggers notification message from FPC Agent to FPC Client per the defined reporting scheme
Spec updated per IETF99 and feedback

Information Model

- Added notation and convention – better understanding of data types and associated attributes
- Settings strategy added – Additional settings that apply to referenced policies
- Topology design review – Clarified feature support for DPN selection at Agent/Client
- Policy simplified – Clarified association between Rules and Policy
- Mobility-Context – Clearly dedicated to mobility session data; size-optimized
  - Traffic treatment defined by reference to Policy substructure + applying Settings, or by Embedded-Rule
Updated per IETF99 and subsequent feedback

Operation and Messaging Model

• Cleaned-up inconsistencies
• Aligned with updates on Information model
• Some features (e.g. cloning) have been removed as support can come from existing specs

All in all:

• Shorter document with improved structure
• Improved model sub-structures with many clarifications
• Clear definitions on notation and conventions throughout the document
Going Forward…

- Clean-up few remaining errors/omissions
- Feedback from all!
- Move discussion on deployment examples to the ML