FPC Status & Update

IETF 100

Nov 14th, 2017

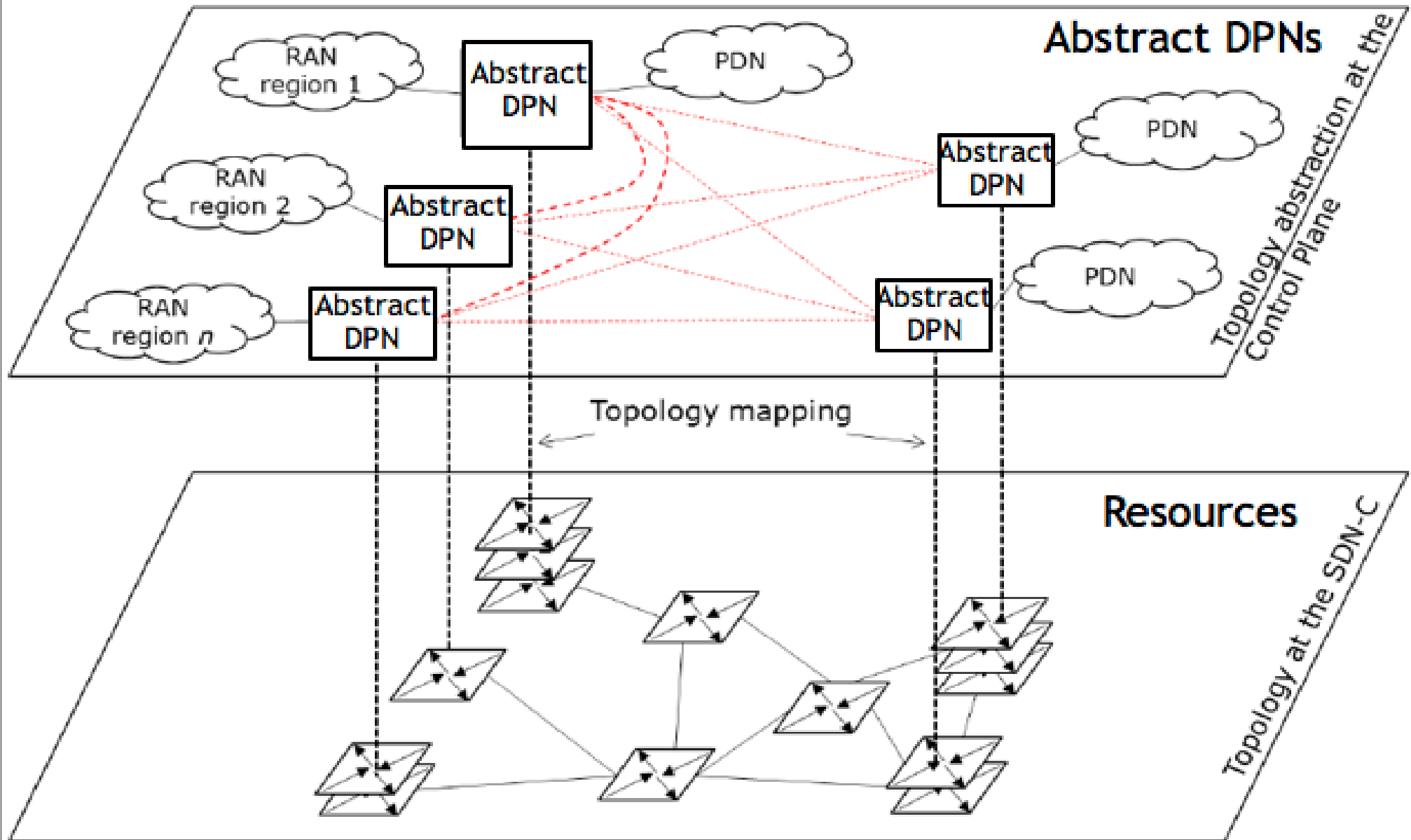(https://tools.ietf.org/html/draft-ietf-dmm-fpc-cpdp-09)

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

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|
+-[Mobility]
|           +
|           |
:           +-[Topology]
            |
            +-[Policy]
            |
            +-[Configurable-Policy] <Set>
            |
            +-[Mobility-Context] <Set>
            |
            +-[Monitor] <Set>
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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