ONF NBI WG – MultiSDO Meeting in Frankfurt

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ONF NBI WG: Activities/Planed work

Drive SDN adoption by lowering barriers to SDN application development

- Provide extensible, stable, and portable NBI information model for APIs to controller, network services, and application developers
- Increase portability of software designed to interact with SDN controllers
- Ensure that controller vendors are free to innovate, using extensions, within their designs

Use case driven definition of base & application specific NBIs

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Running code is currency! Each NBI MUST be accompanied by implementation

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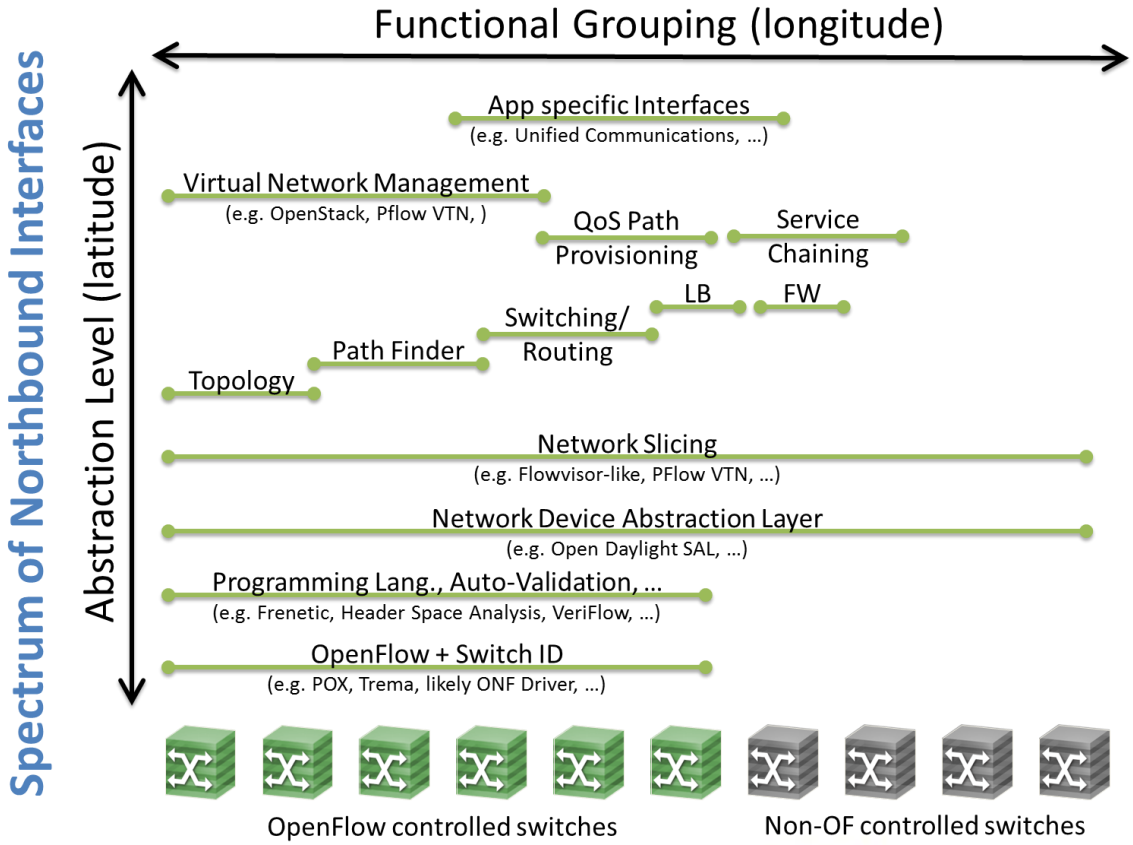
'Standards' discussion for a particular NBI follows its adoption and success in the marketplace

NBI WG: Current Status

- ONF Board approved creation of NBI WG in Oct 2013 (chair: Sarwar Raza)
- Build upon results from NBI study in ONF ArchWG (see figure)
- Organized Kick-off meeting and invited other SDOs to present their interfaces (Nov 19&20, Santa Clara)
  - OpenDaylight, OpenStack, I2RS, RESTCONF, OIF/ITU, TMF, OGF, NFV



Next Steps

- Define work items of WG by EoY
  - Relations to existing initiatives (OpenDaylight, OpenStack, …)
  - Select few use-cases and NBIs to work on first
  - Define how to produce the code, describe info models, tools
- ONF Members to commit time, ideas, people, code

Focus more on close to SDN application use-cases

Most likely use-cases to start with

- Virtual Networks: The “killer” app for SDN at the moment
  - Describe VNs, e.g. for data center management, but also more general for network operators (topology, L2/L3/ACL functions, traffic steering)
  - Work together with OpenStack to extend the simple network/subnet/port model in Quatum
- Workload intend: Let user applications express their requirements
  - Describe workload, e.g. Need a path between end-hosts A and B with the charateristics X,Y, and Z (could be QoS, could be
  - Work together with user application specific SDOs (e.g. UCIF) to understand application requirements
- …