THE SOC SUMMIT:
STANDARDS AND OPEN SOURCE COLLABORATION

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+ you all
SETTING

• Much of today’s tech crosses boundaries of organizations
  • Dependencies between open source components
  • Parallel standards and implementations development

• Working across multiple projects is naturally difficult

• How to increase the understanding, communication, and work better together?

Source: Benoit Claise
GOALS

• Talk about ways of working together
• Experiences from you and us
• Highlight areas or projects that are worth our attention
• Know where we are; draw maps of collaboration

INTERACTIVE SESSION!
BRING YOUR EXPERIENCES & ADVICE
MY $0.02 ABOUT WORKING TOGETHER

Communicate!
• I’ve found that information flows and learning are important
  • “One team”, overlapping participation, hackathons, etc.
  • Also best defense against one corner of the ecosystem deciding something that does not please another corner

Learn and be aware:
• Even outside open source, there’s usually an impact from underlying platforms
• **Data models** (duh!)
• Modern web stack: **HTTP/2, QUIC**, …
  • Much evolution here!
  • Not just for browsers, also for network equipment built using web-based APIs
  • Room for many improvements to build on

• Efficiency, no HOL blocking, multiplexing, …
• Example use for network equipment:
  • 5G Service-Based Architecture (SBA) Core Network
  • Specified in 3GPP
  • Uses many IETF and open source technologies underneath

**MY $0.02 ABOUT AREAS OF COLLABORATION**
AREAS OF COLLABORATION

• Security
  • A very active area of development
  • TLS 1.3 just out!
  • Potentially important underlying tool in many systems
  • Requires some understanding of when to use 0RTT mode
Open Networking – Open Source & Standards
Modeling Relationship with ONAP

ONAP telco profile (model documents)

OnAP use ETSI Info Models

ETSI/TOSCA Data Models Considered

TOSCA Simple YAML Profile
TOSCA NFV Profile

Endorse (best result)

Contribution

Re-use
Proposed Cross-industry Coordination by ZSM

Legend:
- Grey solid line = existing relationship
- Grey dotted line = delivers contributions to others
- Blue = new relationships

- Industry requirements
- Network and Service Automation Initiative
- Open source and commercial implementations
- Industry standards

ONAP (Open Network Automation Platform)
Aspects of NFV and ONAP related to mobile networks

• The mobile network management architecture mapping relationship between 3GPP and NFV-MANO architectural framework (TS 28.500)

New study in 3GPP: to analyse the integration aspects of ONAP with the 3GPP reference management architecture from the alarm management and performance management perspective (DCAE (Data Collection, Analytics and Events)).

• A follow-on study may be proposed to extend the results of the current study to include the remaining portions of the ONAP architecture.
Combine Standards with Open Source

• Bring speed and collaborative spirit to open source to standards
• Add support for key standards to open source projects
• Use open source projects in reference implementations
• Hackathons, interop events, …
IETF Hackathon
Next at IETF 102 in Montreal, July 14-15

• Advance pace and relevance of IETF standards
  • Test theories, find gaps
  • Produce reference implementations, libraries

• Attract developers
  • Team newcomers with veterans
  • University engagement
MEF Open Initiatives
Thank You!