

THE WHY, THE WHAT AND THE HOW OF ETSI NFV

Diego R. López (Telefónica) – Chair, ETSI NFV ISG

Useful Things





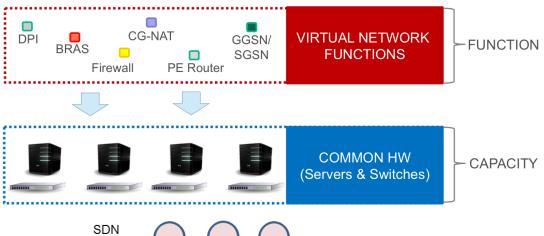




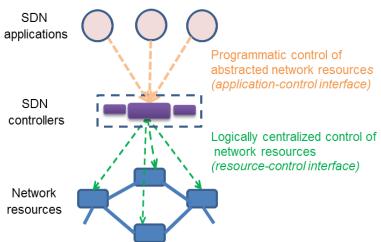
- Communication needs standards
 - Think of human language itself
 - Multi-vendor, multi-operator, multi-national, multi-...
 - In despite of recent moves through one-ended implementations
- Approaches like NFV are changing the standards landscape
 - Aligning with new practices like open-source
 - Providing new architectural options
 - And new ways of applying standards to planning and procurement
- "Everything needs to change, so everything can stay the same"

The Software Network Concepts





- NFV: Separate functionality from capacity
 - Increase network elasticity
 - Address heterogeneity

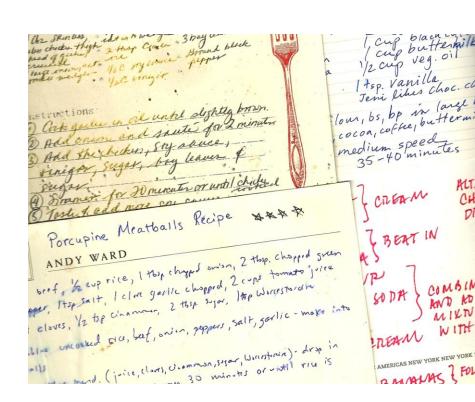


- SDN: Decouple the control and forwarding functions
 - Gain programmability
 - Abstract infrastructure

The ETSI NFV Recipe



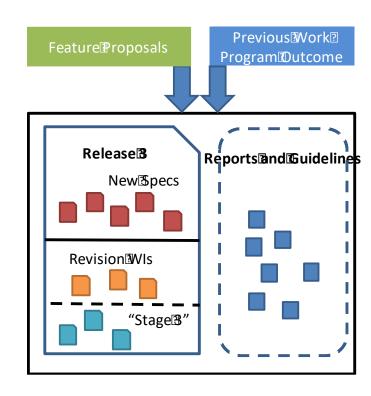
- NFV is shaped as an ETSI ISG
 - Open to ETSI members and non-members
 - Just bound by a cooperation agreement
 - Open membership with low fees to encourage involvement of smaller players from ICT industry
- The most numerous ISG ever
 - 312 organizations (127 ETSI members)
- Working under strict consensus rules
 - Voting only applied to elect officials
- Re-use what is available and do not duplicate existing efforts
 - Strong focus on the NFV delta
- All draft documents openly available
 - Publication implies general consensus and endorsement



Structure and Current Plans



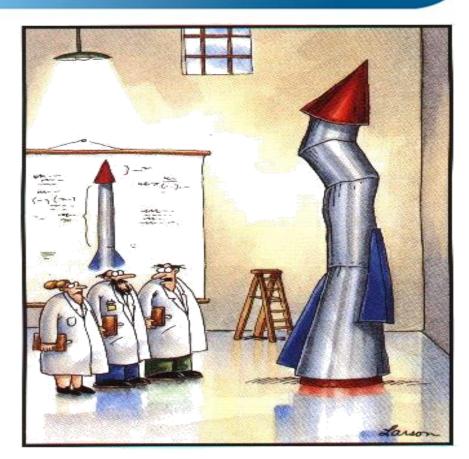
- Review plans and terms every two years
- Structured around WGs
 - Evolution & Ecosystem, Interfaces & Architecture, Reliability, Security, Test & Experimentation & Open-Source
 - Coordinated by a Technical Steering Committee
- The work program
 - Derived from the discussion of feature proposals
 - And the outcomes of the previous one
- The deliverables
 - Reports and Guidelines, informative
 - Specifications, normative
- Working in Release 3
 - Release 1 -> Framework
 - Release 2 -> Interoperability
 - Release 3 -> Operativeness
- Access to open API definitions
 - Work in progress



ETSI NFV PoCs



- Look for practical results
 - Demonstrate and disseminate NFV capabilities
 - Explore technology options
 - Facilitate gap analysis
 - Contribute to guide the future ISG activity
- Lightweight process
 - Few (objective) requirements to file a PoC proposal
 - Run PoC project
 - Openly report results to the community
- > 40 multi-vendor PoCs:
 - > 120 organisations
 - 100% key NFV use cases demonstrated
 - ALL architectural elements under study

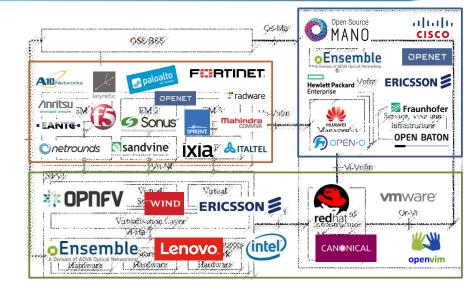


"It's time we face reality, my friends. ... We're not exactly rocket scientists."

ETSI NFV Plugtests



- Built on the PoC Framework key achievements
 - Consistent testing and feedback
 - Quality and relevance of specs
 - Alignment of implementations and specs
- Scoped interoperability test events
 - Usually, part of series, until technology maturity is reached
 - Open to any organization with an implementation to test
- Non commercial, strive for anonymity
 - Neutral and collaborative environment
 - Only statistical aggregated data are published
 - Detailed results are private to each participant
- First Plugtest run in January 2017
- A second one on its way





The Collaboration Game



- Participating in the NFV ISG
 - It is easy, productive, costless, and fun!
- Reviewing the specs and applying them
 - Architectures, requirements, protocols, data models, and profiles
 - Avoid reinventing the wheel
 - Facilitate adoption
 - Practical feedback from implementers is extremely valuable
 - Remember: drafts are publicly available
- Participating in PoCs and Plugtests
 - Wider community feedback in both directions
 - Strong direct technical interaction
 - Extend visibility
- <Your preferred way here>
 - Happy to discuss any idea

