

Network Functions Virtualization (NFV);
Testing;
Specification of Networking Benchmarks
and Measurement Methods for NFVI

ETSI GS NFV-TST009 V0.0.6

ETSI NFV Testing & Open Source WG

Background

- RFC 2544 (originally RFC 1944) ~ 22 years old
 - It can vote and drive in any US state.
- The demands for benchmarking and DUT complexity grew exponentially with NFV
 - Approx. the last 4 years
- Time to take a look at the specific problems of benchmarking the NFVI.
- Time for a Normative Specification
 - Consistency and Repeatability are critical in NFVI

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Known Open Issues (spec gaps)

- Clause 11 Search Algorithms, possibly some with verification steps (especially when the outcome is \sim one lost frame).
- Clause A.1.7 Monitor Infrastructure (CPU & Memory Util) during benchmarking (Trial and Test procedures). Currently mentioned in “Method” procedure, clause 11

Tool Gaps

- Clause 6 “automated collection of software and hardware configuration in all meaningful dimensions,” with smart comparison (diffs).

