


IETF 102 - BMWG



Methodology for
VNF Benchmarking
Automation

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Why the draft was updated? Which issues was it trying to address?

- ❑ Main changes to approach **automation**, as discussed in IETF 101
 - ❑ New title: “Methodology for VNF Benchmarking Automation”
- ❑ We do not aim to explore all possible VNF benchmarking methodologies
 - ❑ VNF Developer/Vendor is responsible to specify target metrics and specific benchmarking methodology (able to be automated)

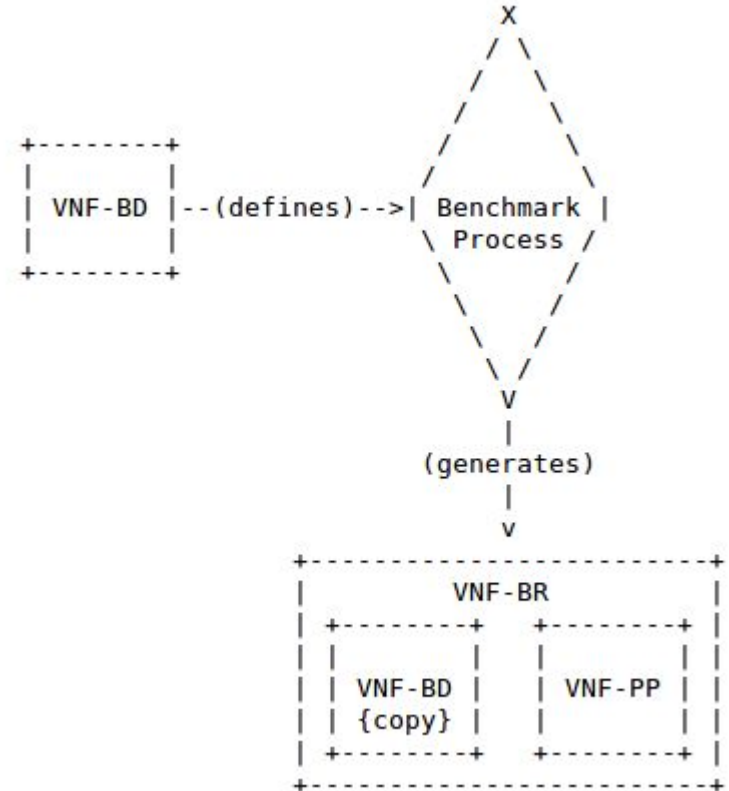
- ❑ New Contributors: Manuel Peuster and Holger Karl (Paderborn University)

Which are the major technical changes?

- ❖ VNF might be composed of components (VNFC)
- ❖ Defined VNF Benchmark Report (VNF-BR) composed of:
 - VNF Benchmark Descriptor (VNF-BD)
 - Procedures Configuration
 - Target Information
 - Deployment Scenario
 - Topology
 - Requirements
 - Parameters
 - VNF Performance Profile (VNF-PP)
 - Execution Environment
 - Measurement Results

VNF benchmarking process inputs and outputs

- Automated Benchmarking Procedures
 - Orchestration
 - Management/Configuration
 - Execution
 - Output



Which issues are unresolved? Which issues needs further discussion.

- Expand and clarify “5.3 Automated Benchmarking Procedures”
 - How each step is clearly defined by automated procedures
- Detail each item as subsection in “5.4 Particular Cases”
 - How deployment scenario and procedures might change in each item
- Discuss a general recommendation to automate upcoming VNF benchmarking methodologies

What is still missing in the draft? Future plans for the draft?

- ★ Detail Agent/Monitor interfaces with Prober/Listener
- ★ Explain actions each component might take on messages /data
 - e.g., Manager might validate Agent/Monitor results and demand new trials
- ★ Specify possible issues of the automation approach in VNF Benchmarking
- ★ In parallel, we develop an information model that represents a VNF-BR
 - Focus on the demonstration of draft ideas following reference implementations:
 - Gym and tng-bench
- ★ Adjust draft in conformance with RFC2119