

Baraque Release Highlights

1. **General**
 - a. **Security**
 - i. RM Ch 07: Defined composite set of security requirements (link)
 - ii. RA-1 Ch 02/06 (link) and RA-2 Ch 02/05 (link): Defined how to meet these security requirements in RM Ch 07
2. **RM**
 - a. **Scope.** Clear definition of CNTT scope
 - i. Functional capabilities of the cloud infrastructure and the infrastructure management
 - ii. Functional interfaces between infrastructure and infrastructure management
 - iii. Functional interfaces between workloads and workload management
 - iv. Link: <https://github.com/cntt-n/CNTT/blob/master/doc/common/chapter00.md#functional-scope>
 - b. **Modeling.** Completely revamped content to abstract infrastructure support for virtual and containerized workloads.
 - i. New section on sample model realization: https://github.com/cntt-n/CNTT/blob/master/doc/ref_model/chapters/chapter03.md#37-sample-reference-model-realization
 - ii. Section Link: https://github.com/cntt-n/CNTT/blob/master/doc/ref_model/chapters/chapter03.md
 - c. **Misc (to be categorized)**
 - i. Technology agnostic to cover both VM-based virtualization as well as containerization of network functions.
 - ii. Enable co-existence of different Cloud Infrastructure deployments in line with the evolving technology.
 - iii. To enable the co-existence, a new important element was added to RM: Hardware Infrastructure Manager (HIM) which can allow different virtual infrastructure implementations simultaneously using the same share hardware infrastructure.
 - iv. CNTT started a collaboration with ODIM on the definition of HIM (possibly using RedFish)
 - v. Expanded network and storage discussion, clarifying distinction between the virtual and hardware layers within networking and storage.
 - vi. RM (Baraque version) will be handed over to GSMA Networking Group (NG), where it is planned to be published as a GSMA NG PRD (Permanent Reference Document).
 - vii. The on-going maintenance of this PRD and hence the collaboration with the CNTT RM will be a responsibility of a newly formed subgroup under GSMA NG called OITF (Open Infrastructure Task Force). In the course of this collaboration, several CNTT RM contributors registered as the members of OITF.
3. **Edge Computing and Networking**
 - a. Started to defined the requirements for multiple edge architecture based on Openstack, to be added into the RA01 documentation
 - b. Define some capabilities that fit Edge use cases like FPGA for OpenRAN "https://github.com/cntt-n/CNTT/blob/master/doc/ref_model/chapters/chapter04.md#425-cloud-infrastructure-profile-capabilities-mapping"
 - c. Worked on the issue for how to incorporate proprietary hardware needed for Edge deployments that needs to be resolved.
 - d. Started collaboration efforts with other Edge communities including, Akraino, OpenStack Edge WG, KubeEdge and GSMA Edge
4. **RA-1**
 - a. Upgrade documentation in support of OpenStack Train release
 - i. See chapters [3](#), [4](#) and [5](#)
 - b. Align Networking sections with RM Network modeling changes
5. **RI-1**
 - a. TBD + Link
6. **RC-1**
 - a. TBD + Link
7. **RA-2**
 - a. [RA2 Requirements](#) are relatively stable
 - b. [RA2 Specification](#) is now in a state where it can be used by RI/RC/VI
8. **RI-2**
 - a. Initial release of RI2 launched with introduction, lab requirements and operational runbook
 - i. See chapters [1](#), [3](#) and [4](#)
 - b. [Kuberef project](#) has launched within OPNFV to manage integrations into OPNFV labs
9. **RC-2**
 - a. A common Reference Conformance (RC) Test Case Integration was defined https://cntt-n.github.io/CNTT/doc/ref_cert/ and an introduction was written https://cntt-n.github.io/CNTT/doc/ref_cert/RC2/chapters/chapter01.html
 - b. The first Kubernetes test cases have been integrated https://cntt-n.github.io/CNTT/doc/ref_cert/RC2/chapters/chapter03.html and a cookbook has been defined https://cntt-n.github.io/CNTT/doc/ref_cert/RC2/chapters/chapter04.html