

# 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](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](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](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/](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](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](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](https://cntt-n.github.io/CNTT/doc/ref_cert/RC2/chapters/chapter04.html)