# 4G CRAN Service Orchestration

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Live cloud RAN slicing with dynamic RRU activation/desactivation with Ubuntu Core and the Canonical model-driven NFV solution with the below blueprint, featuring OpenAirInterface vRAN and vEPC with FlexRAN controller.

This demo will show how to slice a cloudified radio access network that consists of a fronthaul segment between the remote radio unit (RRU) and radio cloud center (RCC) and a backhaul segment between the RCC/eNB and the RAN controller. Through the separation of the RAN control and data plane coupled with the virtualized control functions and control delegation features, real-time control and coordination applications can be implemented in support of fine-grain RAN programmability. This allows different levels of coordination among RAN infrastructure elements by dynamic placement of virtual control functions following SDN and NFV principles for adapting control over time and for easing network evolution to the future.
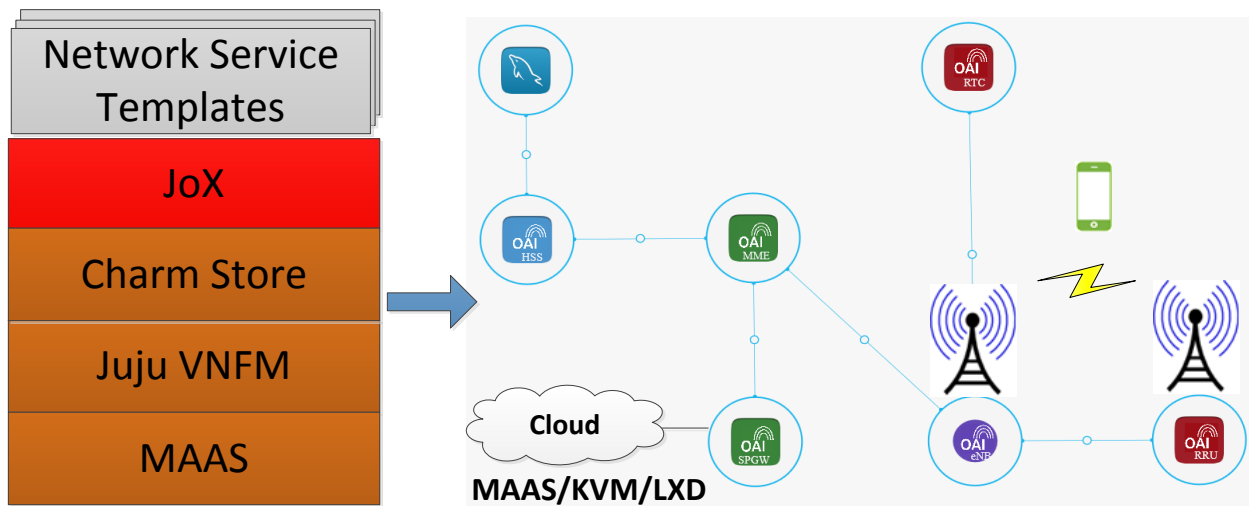
Additional Info

PoC Partners: Eurecom, Mosaic5G, OpenAirInterface, Canonical

Location: Ubuntu booth, Hall 3 Stand 3K31

Supporting Project: 5GPPP Coherent Project: http://ict-coherent.eu/

Platforms:

- Canonical Juju VNFM , Mosaic5G JoX, FlexRAN, penAirInterface RAN and CN

Useful Link:

- https://insights.ubuntu.com/event/mobile-world-congress-2017/
- https://insights.ubuntu.com/2017/02/17/mwc17-the-future-of-wireless-networks/
- https://jujucharms.com/q/oai