

Mosaic5G

A community Led Consortium



Leveraging an Ecosystem of 5G services



What is Store?

*A Distribution Repository of Reusable
Network Applications/Functions and Usecases*



Store objectives

- Apply Customized logic without knowledge of the underlying network
- SDKs for LL-MEC/FlexRAN/JoX to develop plug-and-play control apps
- Service templates and cloud images for rapid deployment of 5G network and services
- Data sets for machine-learning and analytics



Store features

- **4G/5G-PaaS**
 - Extend 5G-IaaS in support of control, orchestration, and virtualization
 - Provide open APIs to enable network applications ecosystem
- **Software Development Kits**
 - Facilitate the design, development, test and update of an application
 - Include libraries that implement specific functions/methods for network programmability/monitoring/control
- **SDK and Open Data API**
 - Be coupled with SDKs and place the apps at the center of the 5G network to publish their capabilities
 - Perform diverse operations to the underlying network including monitoring, control, and programming
- **Datasets**
 - Collect realistic set of datasets using Open5G lab at EURECOM
 - Produce new set of datasets and share with the R&D community upon request



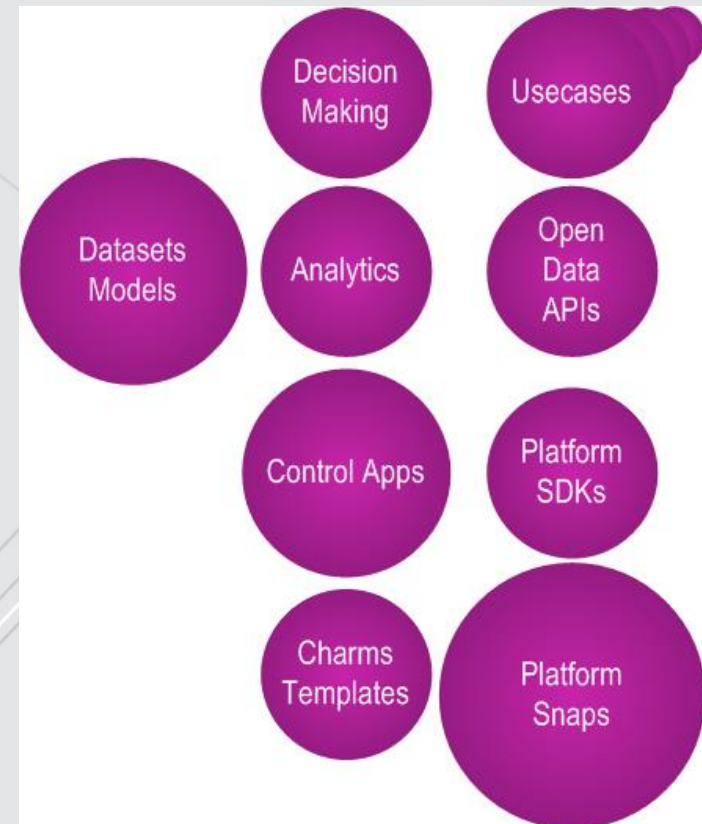
Store implementation

- **Snaps, Charms, and Bundles**
 - Source files for building and snapping Mosaic5G platforms
 - Charms for the OpenAirInterface RAN and CN, FlexRAN and LL-MEC software
 - Bundles for different use cases
- **Control Apps and SDKs**
 - RAN and CN domain monitoring, data mining, resource/QoS management, service-specific traffic redirection
 - Extension to each others and use of Open Data API in support of pub/sub communication method
- **Cloud images**
 - Docker images of all the software components
 - Vagrantfiles



Store apps

- Network Store Management
- Network Control Semantics and SDK
- Plug&Play Control Apps
- Access Control
- Service Registry, Inventory, and Discovery



Useful links

- [Install from sources](#)
- [Snaps on Ubuntu](#)
- [Clone the Mosaic5G repository](#)
- [Access Mosaic5G wiki](#)



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