

OMECE

At Sprint

April 2019



Sprint

Brighter Future For All



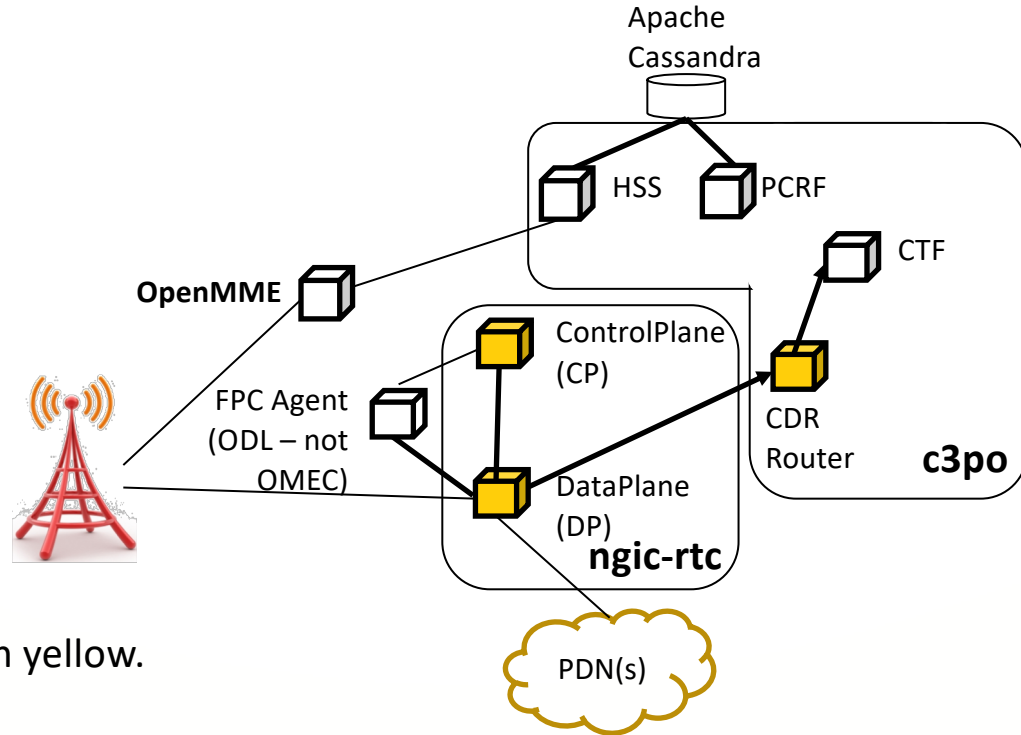
Open Mobile Evolved Core (OMEC)

The project is intended to become an open source production grade Evolved Packet Core (EPC).

OMEC is built using an NFV (Network Function Virtualization) architecture

<https://github.com/omec-project>

OMEC Functions



Sprint's current focus is in yellow.

Scope – Production Edge Gateway.

Basic Functions

Default Bearers

Offline Billing

Child Protections (gating by domain or 5 tuple)

Basic MME support (initial attach, detach, etc.)

Needs

- SAEGW modes for roaming
- OAM (alarms, measurements, etc)
- Common CLI
- VM deployments now; Containers and baremetal soon to follow
- Lawful Intercept
- Production Ready

Realities

- SAEGW modes for roaming
- OAM (alarms, measurements, etc)
- Common CLI
- VM deployments now; Containers and baremetal soon to follow
- Lawful Intercept
 - National Parameters CANNOT be open sourced
 - Only expect base code which is also used for user level trouble management
- Production Ready
 - Continuous involvement with our downstream teams
 - Use of specification verification and code generation tools to improve base code compliance and system quality
 - CI/CD process enforces basic license, function and performance compliance
 - Synoptics (aka BlackDuck) scans for code base by ONF will help detect any deep issues
 - Testing with 1 to 3 different tools at Sprint for functional compliance

Timing

Code will arrive at Sprint labs in 2Q19

We are still submitting Change Requests (CRs) back to 3GPP so it is unfair to assume final code

Testing will take several weeks and soak testing over a month.

> Initial tests, i.e. acceptance of code, is done in a few weeks. If we feel that code can be open sourced we will then submit to appropriate omec's github projects.

Earliest finish (ready for deployment) is 3Q19.

- This is pending several factors including not finding a critical issue in standards that must be addressed!
- We still need Edge applications before we commit to major trials!



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