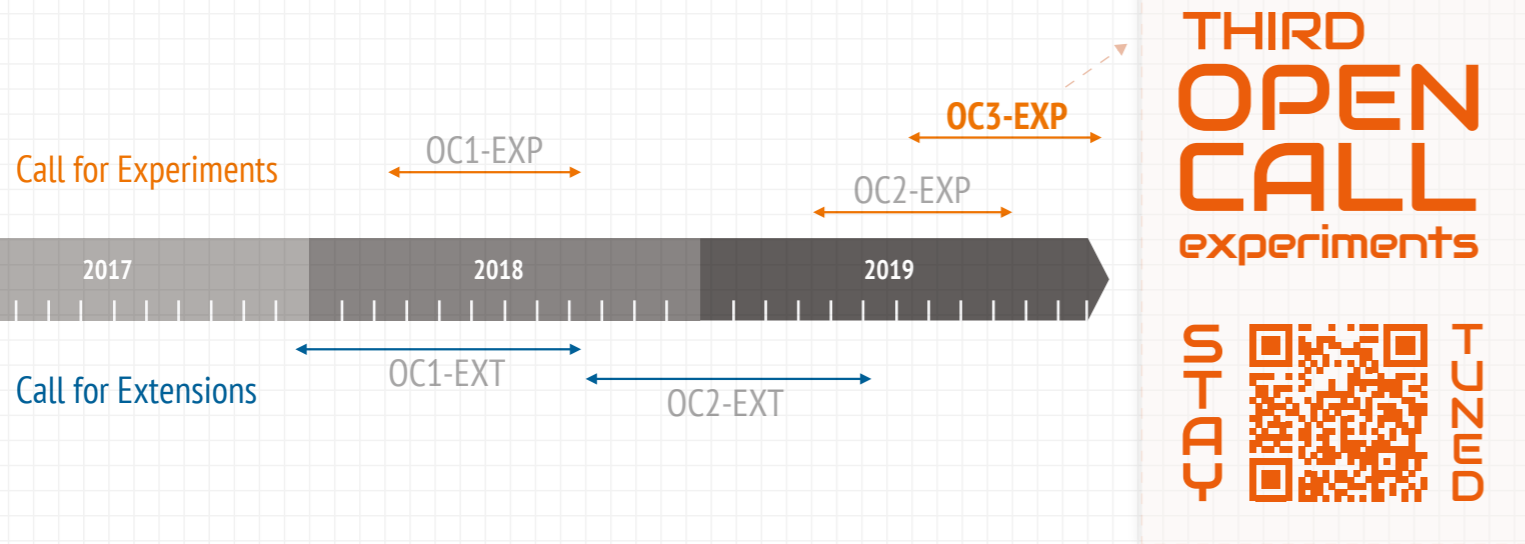


ORCA OPEN CALLS

The ORCA project distribute 2M€ via several Open Calls to financially support the involvement of Third Parties between experiments and extensions.



**Orchestration and
Reconfiguration
Control Architecture**

SOFTWARE DEFINED RADIO FACILITY

TO ACCELERATE WIRELESS INNOVATION

PROJECT FACTS

Start: January 2017
Duration: 36 Months
Call: H2020-ICT-2016
Topic: ICT-13-2016
Research & Innovation Action

FOLLOW US!

 @ORCA_Project_

 groups/8589461

www.orca-project.eu

CONSORTIUM















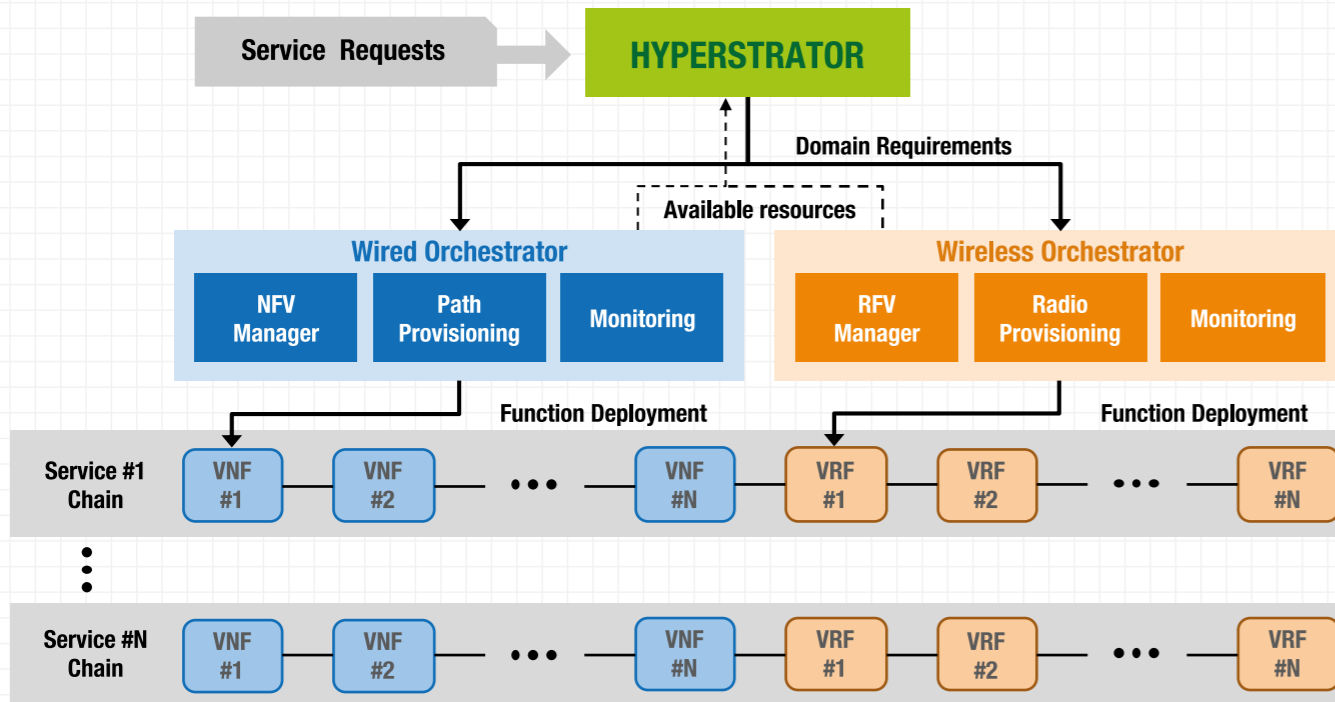


The ORCA project is funded by the European Horizon 2020 Programme under grant agreement n°732174

orca-project.eu

ORCHESTRATING DIFFERENT NETWORK SEGMENTS

ORCA believes that each network segment should have their own orchestrator, tailored to the segment's particularities. The use of a separate orchestrator for each network segment reduces complexity and breaks down the larger E2E network orchestration problem into smaller parts. In this way, each segment orchestrator can focus on a limited number of well-defined tasks, reducing the software complexity, both in terms of design and implementation.



WIRED ORCHESTRATION

A wired network orchestrator is in charge of provisioning paths and deploying services in a wired network slice, building on SDN and NFV respectively.

WIRELESS ORCHESTRATION

A wireless network orchestrator is in charge of instantiating Radio Access Technologies (RATs) and providing radio coverage, leveraging Software defined Radio (SDR) and Remote Radio Heads (RRHs).

TECHNICAL HIGHLIGHTS



ORCA makes SDR talk to commercial devices



ORCA creates multiple radio interfaces on an SDR for free



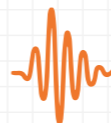
ORCA makes real-time experimentation with SDR as easy as simulations



ORCA provides multi-standard SDRs for prototyping on all layers



ORCA offers flexible low-latency MAC-PHY architecture



ORCA provides full-duplex capable SDRs for high-throughput networking experimentation



ORCA offers CSMA MAC with real-time collision detection