

Development of Network Functions for Terrestrial Broadcast in 5G

SUPERVISOR: David Gómez-Barquero

PAYROLL (Degree Graduate): 1866 €/month (taxes not included)

DESCRIPTION:

5G-Xcast (<http://5g-xcast.eu/about/>) is a 5GPPP Phase II project focused on Broadcast and Multicast Communication Enablers For the Fifth Generation of Wireless Systems. The project analyses the requirements for future media, including 4k/8k Ultra-High-Definition Television (UHDTV) and other cutting edge multimedia, covering both commercial and technical aspects. 5G-Xcast also investigates how to provide Broadcast and Multicast in 5G, from Physical Layer, Radio Access Network, up to the 5G Core and Content Distribution Network.

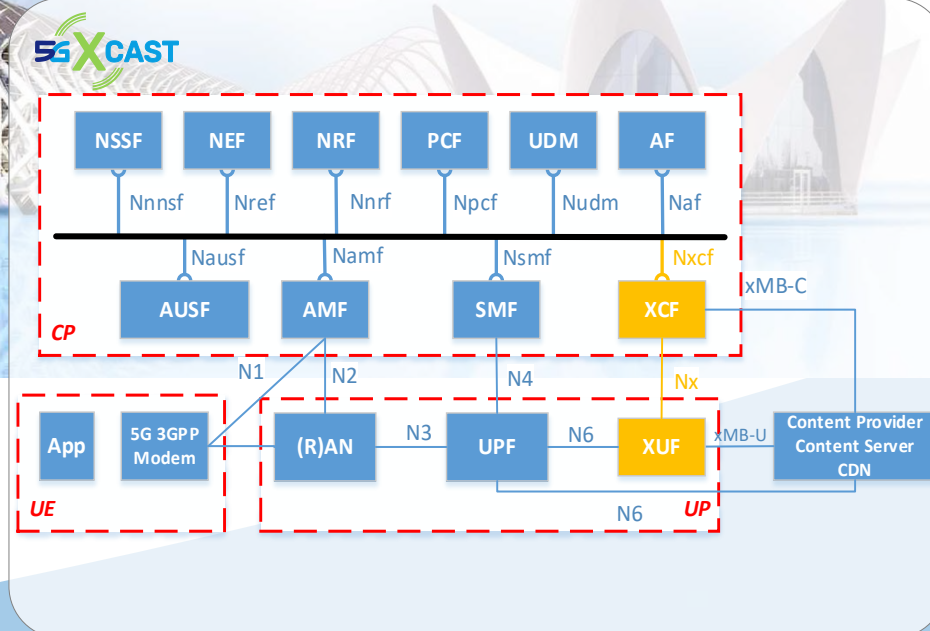
Inside this project, iTEAM-UPV (<http://www.iteam.upv.es/?lang=en>) is the coordinator and Project Manager for 5G-Xcast. A 5G compliant laboratory with Release 15 equipment is planned for 2019 inside the iTEAM premises. iTEAM is searching for candidates to bring to reality the developments made inside 5G-Xcast, related to the new Logic entities defined inside the project (XCF and XUF), in order to provide Multicast and Broadcast to commercial 5G Core and RAN.

GOALS:

- To help in the **deployment and integration of the iTEAM 5G laboratory, interconnecting 5GCore and RAN.**
- Development of Proof of Concept (PoC) of **XCF and XUF** on top of existing Release 15 to allow for **Multicast and Broadcast communications.**
- Trials **on UPV campus** and with other members of the X-Cast Consortium.

CANDIDATE REQUIREMENTS:

- **Be able to relocate immediately to Valencia, Spain.** Fluent in English.
- Degree or Ph.D in Telecommunications or IT Science
- Familiarity with development of Microservices in Virtualized Environments.
- Interest in networking and managing IP networks.



APPROXIMATE DURATION : Jan-July 2019