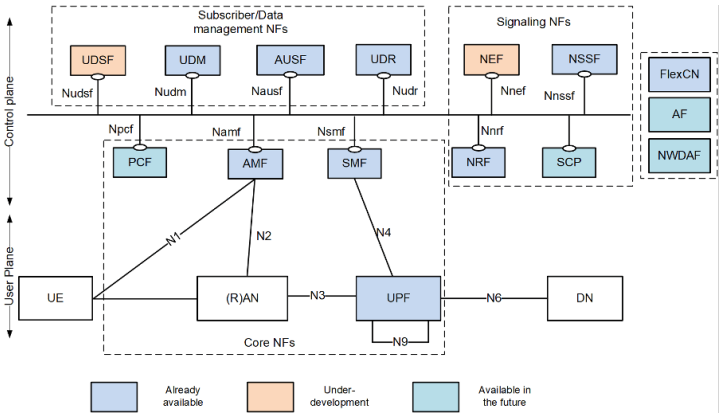
IntelIloT component available for OC #2 integration – Details

Name	5G Core
Responsible partner(s)	EURECOM
Brief description	The 5G Core component is the OpenAirInterface (OAI) Open-Source 3GPP compliant 5G Core that manages 5G connections between a 5G gNB and one or more 5G UE. The 5G Core is composed of various 3GPP 5G network functions (NF) implemented in OAI as independent 5G micro-services. The figure below illustrate an example of 5G Core deployment with 5G UE and 5G gNb (RAN).  Currently, OAI 5G CN supports basic procedures for connection, registration (UE registration, de-registration, and service request) and session management (PDU session establishment, modification and release). OAI 5G CN also supports some additional features e.g., N2 Handover, HTTP/2, FQDN support, Paging, Network slicing (partially supported). It is worth mentioning that OAI 5G CN can support multiple UEs and multiple PDU sessions at the same time. A full description of the current status and roadmap of the OAI 5G Core is available here: https://openairinterface.org/oai-5g-core-network-project/
Interfacing (I/O)	Interfacing with the 5G Core can be done following the standardized respective NF APIs. A typical interfacing example are either the FlexCN component or the Network Data Analytics Function (NWDAF), which both interface with selected NF for monitoring, actuation or data analytics of the 5G Core operation.
Main interactions	The OAI 5G Core interacts mainly with the 5G gNB (RAN) component, but can be monitored and controlled by the FlexCN component.
Deployment	A 5G Core is deployed as a bridged multi-image docker container, with three configurations: a minimalist, basic and slicing configuration. Details may be found here.
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Deliverable references	Deliverable 4.2 – Chapter 3.2