

OAI DEVELOPMENT PROJECT - CHARTER

Abstract: This OpenAirInterface (OAI) community project named the **OAI DEVELOPMENT PROJECT** has been set up at the OpenAirInterface Software Alliance (OSA) with the goal of developing 5G and next generation 3GPP features as well as related technology in the OAI open-source codebase. The code will be developed and distributed under the OAI Public License V1.1. The OAI software will implement functions covering all the layers of the RAN stack (including PHY, MAC, RRC, RLC, and PDCP for gNB and UE), and the Core Network (CN). Interfaces to the outside functions like the RAN Intelligent Controller (RIC) allowing RAN and CN programmability, collectively called the Operations and Management (OAM) functions, are also part of the development goals.

The main functions that the OAI DEVELOPMENT PROJECT will implement are the following:

- The gNB and UE software for 5G and next generation 3GPP and, where applicable, O-RAN specifications.
- HW acceleration interfaces and functionality for lookaside and in-line acceleration.
- The necessary CN functions allowing for end-to-end deployment of 5G and next generation networks.
- OAM software interfaces including near-RT, non-RT RIC and SMO.
- Deployment framework allowing for testing and data-center deployment of the 5G and next generation architecture conforming to the O-CLOUD architecture specified by standardization organizations and mainstream open source projects.

Output of the PROJECT: The OAI DEVELOPMENT PROJECT has been designed to give OSA the means to accelerate 5G and next generation developments to better serve the OAI community. The motivation of the donors to the PROJECT, who are also as members of the OSA, is to maintain and enhance the impact that the OSA has as open source community in the area of 5G and next generation cellular networks.

Project Duration: The project will run over an initial period of two years starting from 1st January 2024.

Participating Members: The project will be open for software contributions from all members of the OAI community.

Donation and Human Resource Contributions: Given the significant volume and coverage of developments within the OAI DEVELOPMENT PROJECT, we seek the support of donors through monetary donations as well as providing engineering support to the OSA to enable the Alliance to staff and manage the PROJECT. Donors come from among the Strategic Members of the Alliance. The donations are to be paid in 2 equal annual installments (see “Donation Levels” and “Voting Rights” below) given that the minimum duration of the PROJECT is two years. Any extension to the PROJECT scope that could eventually induce the donors to wish to extend their donation will be

proposed by the Steering Committee (see “Governance Structure” below) and validated by the OSA Board of Directors (“Conseil d’administration”).

Management of the PROJECT: The day-to-day progress will be managed by the staff of the OpenAirInterface Software Alliance that will regularly report to a **Steering Committee**. This Committee will be composed of representatives from EURECOM, the founding member of the OSA, as well as the Strategic Members of OSA that are donors to the PROJECT.

The Steering Committee will have the role of defining the technical orientations of the project, setting goals and objectives, and monitoring the progress of the project. Decisions on the Steering Committee will be taken through voting. Financial and staff resources decisions will be made according to the OAI statutes and bylaws, under the sole authority of the Board of Directors of the OSA Endowment Fund (“Conseil d’administration du fond de dotation OAI”) in conformity with the OSA Board of Directors decisions.

Steering Committee and its Working: The Committee will consist of individuals representing their respective organizations including EURECOM, the founding member of OSA, as well as donors of the OAI DEVELOPMENT PROJECT. Each individual person will thus be a Member of the Steering Committee (SC).

The President of the OpenAirInterface Software Alliance, also a representative of EURECOM, the founding member of OSA, will be an *ex-officio* member of and will preside over the Steering Committee.

The Steering Committee will meet on a quarterly basis when called by the President of the Steering Committee to address any matters regarding the technical orientation as well as the status of developments in the project. The quarterly meeting will be the appropriate forum to discuss and take decisions on the topics that will be distributed as agenda to the Committee members fifteen days prior to the date of the meeting. The President of the Committee will propose an initial agenda to which any member could request addition of any other items.

Technical Oversight Committee: The software developments will be overseen by a Technical Oversight Committee (TOC) that will be appointed by the members of Steering Committee (SC). Each donor as well as EURECOM and the OSA will appoint one engineering delegate each to the TOC. The TOC will meet as and when required over the course of a regular set of meetings at its own initiative to closely follow the day to day technical evolution of the project as per the roadmap and will be responsible for ensuring the respect of the project timelines agreed with the Steering Committee. The TOC will submit regular progress reports to the SC.

Donation Levels: There are five categories of donor organizations supporting the OAI DEVELOPMENT PROJECT:

- **Category-1:** Organizations in this category donate **400,000€** per annum in monetary contribution to OSA.
- **Category-2:** Organizations donating **300,000€** per annum in monetary contribution to OSA.
- **Category-3:** Organizations donating **200,000€** per annum in monetary contribution to OSA.

- **Category-4:** Organizations donating **100,000€** per annum in monetary contribution to OSA.
- **Category-5:** Organizations donating **50,000€** per annum in monetary contribution to OSA.

Voting Rights: Individual persons representing their respective organizations from among the Strategic Members who are also donors to the OAI 5G RAN PROJECT GROUP will each have a seat at the Steering Committee. As Steering Committee Members, individual persons will have the following voting rights.

- **Category-1:** Five (5) votes
- **Category-2:** Four (4) votes
- **Category-3:** Three (3) votes
- **Category-4:** Two (2) votes
- **Category-5:** One (1) vote
- **EURECOM (the Founding Member of the OSA):** Three (3) votes

Decisions at the SC will be taken through a vote. Resolutions will be adopted by two thirds majority.

Utilization and Allocation of the Donations: The main purpose of the donations received is to accelerate the technical developments of OAI to have them available sooner and of better quality to the whole OAI community (for example by appointing regular or temporarily staff within the development team), as well as procuring any testing tools allowing for acceleration of the development process. The project will also be continuously supported by the DevOps and Documentation team from the OSA in order to help with the CI and CD tooling, testing and quality management of the software stack. Web presence as well as Press and Media exposure is expected to carry some additional costs. Some of the budget may also be used for exposure at industry events.

External Communications regarding the OAI DEVELOPMENT PROJECT activities:

Any external communication including communications through the website and press releases will be proposed by the Steering Committee and will be validated by the Board of Directors of the OSA Endowment Fund (“Conseil d’administration du fonds de dotation OAI”).

DONOR’S SIGNATURE

Donation Category

Date

Name of the Signatory

Designation of the Signatory

Company/Organization

Telephone and Email address
