OCUDU Releases

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Releases

OCUDU is an open-source initiative awarded initial funding by the National Spectrum Consortium (NSC) under a three-year programme running through October 2028. See the NSC announcement for details.

The first public release, v26.04, shipped in April 2026. The project follows a predictable bi-annual release cycle: new versions ship every April and October to ensure steady feature development, community feedback integration, and long-term sustainability.

Apr 2026

First Release

v26.04 · initial public release

Active

OCUDU gNB

CU-CP · CU-UP · DU

Bi-annual

Release Cycle

April and October each year

Current Features

Radio & Physical Layer

- FDD/TDD, all FR1 and FR2 bands
- All bandwidths up to 100 MHz (FR1) and 400 MHz (FR2)
- 15, 30, and 120 kHz subcarrier spacing
- All physical channels
- QAM-256, 4x4 MIMO DL and UL
- Optimised LDPC/Polar codecs for ARM Neon and x86 AVX2/AVX512
- SSB-based and CSI-RS-based radio link monitoring
- NTN GEO support

Protocol Stack

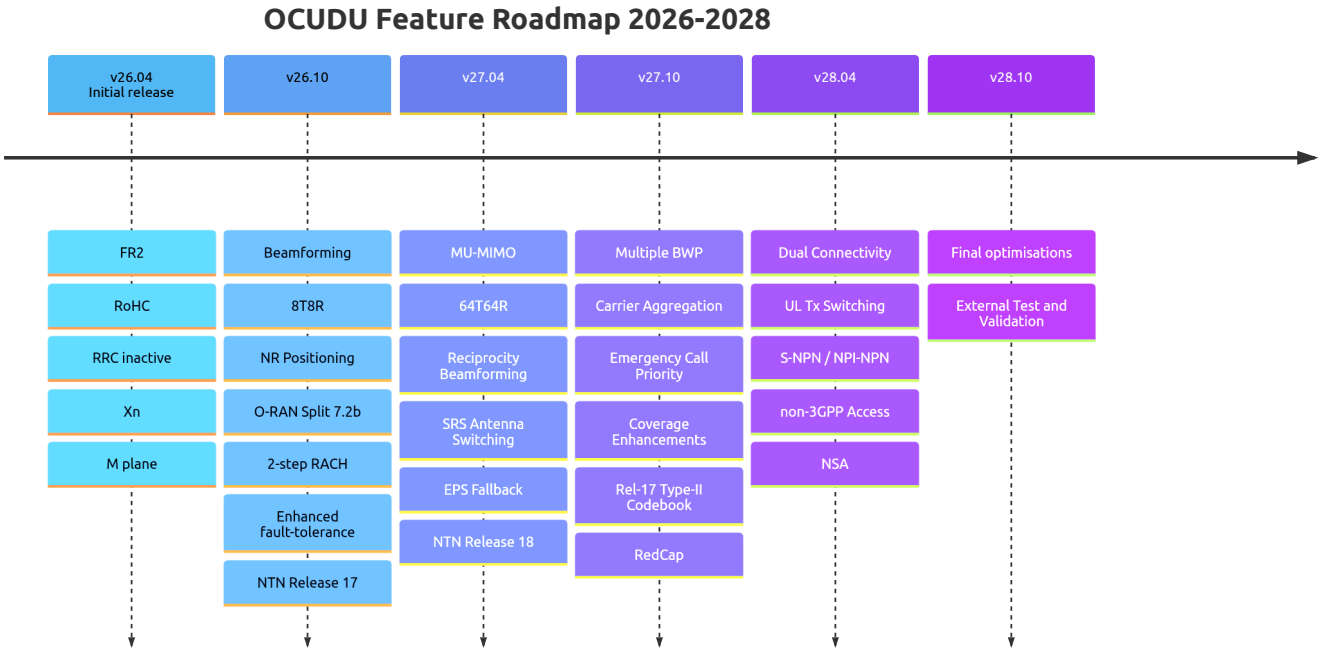
- All RRC and MAC procedures
- All handover and mobility types over NG and Xn (including Conditional HO)
- Robust Header Compression (RoHC)
- RRC_INACTIVE support
- NRPPa using RSRP and SRS
- RAN slicing

Architecture & Deployment

- CU/DU and CU-CP/CU-UP separation
- Split 7.2a via in-house Open Fronthaul library
- M-plane support via OCUDU helper components
- Hardware accelerator support via DPDK BBDEV

Roadmap

Planned features by release, through the end of the programme in October 2028.



The features shown are planned with allocated engineering resources and a defined delivery timeline, but this roadmap is not fixed. With additional engineering capacity and collaborative contributions, priorities and timelines can be adjusted. If there are features within the OCUDU scope that matter to you or your organisation and are not listed here, we welcome discussions on accelerating, expanding, or re-prioritising development through resource support and joint contribution.

Release Notes

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Per-release changelog covering new features, protocol updates, and fixes for all OCUDU versions.