



Release Notes

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New Features and Fixes for ARC-OTA 1.3 (May, 2024)

- Full support for master gitlab repo gitlab.eurecom.fr/oai/ making it available for use, modification and distribution. Refer to the [Licensing](#) page for the OAI license.
 - **OAI_Aerial private branch is deprecated and will no longer be maintained.**
- Developer extension - Sterling k8 service management and monitoring (refer to [this document](#) for more details)

New Features and Fixes for ARC-OTA 1.2 (March, 2024)

- Support for the Dell R750 platform to host gNB
- Support for converged cards A100X
- Continued support for Gigabyte and the discrete cards A100, CX6-DX

New Features and Fixes for A1.1 (January, 2024)

- Kernel cmdline configuration updated.
- Updates to the core assignment in the Aerial configuration.
- Updates to PTP and phc2sys core assignment.
- Changes to phc2sys cmdline.
- Changes to the L2 Docker run cmd to use all non isolated cores.
- Changes to the L2 configuration, max DL MCS defaults to 25.
- Removal of unnecessary ORU firmware installation step because of Foxconn firmware default updates.
- OAI_Aerial_v2.0 updated to OAI_Aerial_v2.2.1 throughout.

New Features and Fixes for A1.0 (December, 2023)

ARC-OTA A1.0 included the following OPENAIR-CN-5G network elements:

- Access and Mobility Management Function (AMF)
- Authentication Server Management Function (AUSF)
- Location Management Function (LMF)
- Network Exposure Function (NEF)
- Network Repository Function (NRF)
- Network Slicing Selection Function (NSSF)
- Network Data Analytics Function (NWDAF)
- Policy Control Function (PCF)
- Session Management Function (SMF)
- Unified Data Management (UDM)
- Unified Data Repository (UDR)
- User Plane Function (UPF) with 2 variants:
 - Simple Implementation (with a eBPF option) (UPF)
 - VPP-Based Implementation (UPF-VPP)
- Unstructured Data Storage Function (UDSF)

Known Issues and Limitations

256 QAM is not supported on ARC-OTA. You must disable 256 QAM support by issuing the following command at the gNB command license:

```
--gNBs.[0].force_256qam_off
```

Developer Documentation

The CUDA Accelerated RAN PHY developer guide can be found [here](#).

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