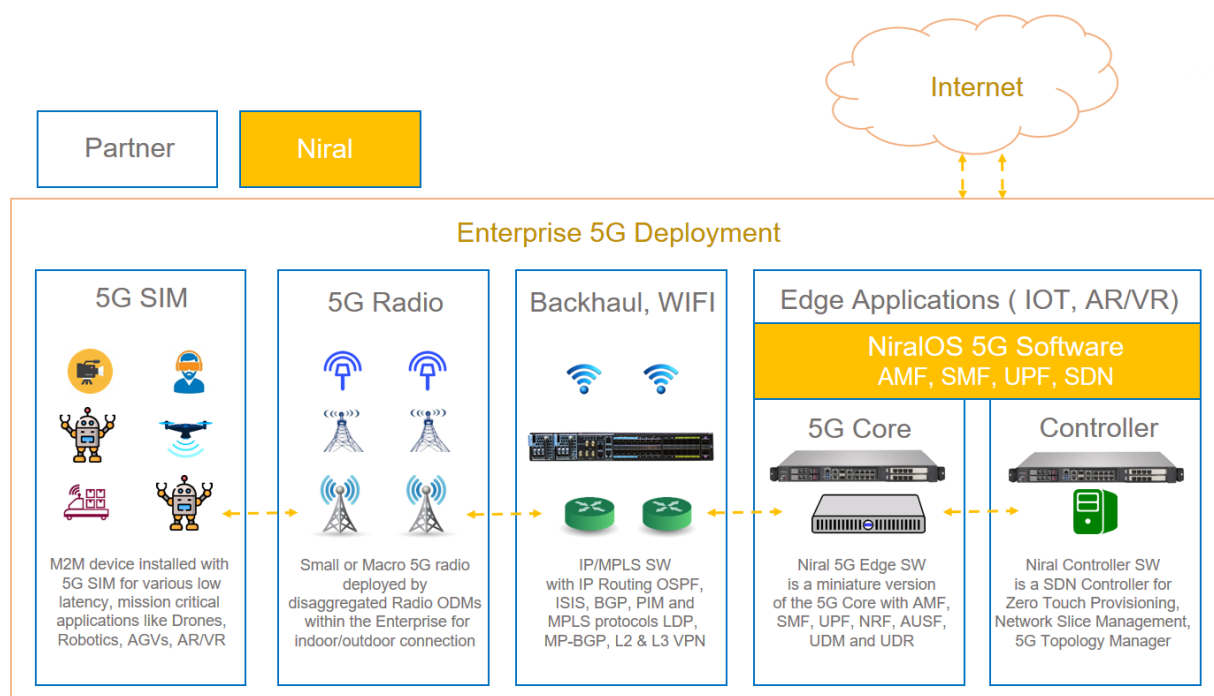# Niral Networks Cloud-Native Private 5G Core for Enterprise

Niral Networks provide a comprehensive cloud-native 5G Core and Edge networking platform for Enterprises using its open and disaggregated Network Operating System called NiralOS that can be easily integrated with COTS hardware and 5G Radio to optimize Edge applications (IOT, AR/VR, AGV, Drone, AI) and managed from a centralized dashboard without the need of any specialized IT staff.

NiralOS Software Stack:

1. 5G Core – Cloud-Native 5G core software for Mobility, Authentication, Security, Session and Policy Management. It contains the 5G Network Functions - AMF, SMF, AUSF, UDM, NRF, UPF. The 5G core software is hosted on COTS server as VNF or CNF.
2. Controller - Provides centralized management, orchestration, zero touch provisioning and monitoring of 5G network functions and 3rd party edge applications. The controller can be hosted in the public cloud to centrally manage and monitor multiple private 5G Networks.

NIralOS Private 5G Specification

- Release-15 compliant 5G Core for Private 5G Deployment
- 5G Network Functions - UPF, AMF, SMF, AUSF, UDM, NRF
- Support of N1, N2, N3, N4 and Service Based Interfaces for 5G SBA
- 5G Core deployed on COTS HW of various form factor and integrated with 5G Radio
- Web based dashboard for Subscriber Provisioning, Configuration and Management

Use cases

Industry 4.0, Oil & Gas, Mining, Shipyard, Defense, Rural, Disaster Management

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