

O-RAN Alignment

The purpose of this page is to track use cases and alignment among ORAN Alliance, ORAN-SC, ONAP and how they relate to 5G Super Blueprint.

Use Cases Reference:

- [O-RAN Use Cases](#)
 - Please see **O-RAN Use Cases Detailed Specification 6.0 - July 2021** O-RAN.WG1.Use-Cases-Detailed-Specification-v06.00
 - Use case (pending CR): Energy Saving / Energy Efficiency
 - Use case 1: Context-Based Dynamic HO Management for V2X
 - Use case 2: Flight Path Based Dynamic UAV Radio Resource Allocation
 - Use case 3: Radio Resource Allocation for UAV Application Scenario
 - Use case 4: QoE Optimization
 - Use case 5: Traffic Steering
 - Use case 6: Massive MIMO Beamforming Optimization
 - Use case 7: RAN Sharing
 - Use case 8: QoS Based Resource Optimization
 - Use case 9: RAN Slice SLA Assurance
 - Use case 10: Multi-vendor Slices
 - Use case 11: Dynamic Spectrum Sharing
 - Use case 12: NSSI Resource Allocation Optimization
 - Use case 13: Local Indoor Positioning in RAN
 - Use case 14: Massive SU/MU-MIMO Grouping Optimization
 - Use case 15: O-RAN Signalling Storm Protection
 - Use case 16: Congestion Prediction and Management
 - Use case 17: Industrial IoT Optimization
 - Use case 18: BBU Pooling to achieve RAN Elasticity
- [ONAP Major Use Cases](#)
 - 5G NRM Network Resource Model
 - 5G SERVICE MODELING
 - BROADBAND SERVICE USE CASE
 - BULK PM: PM CONTROL
 - CCVPN
 - CCVPN for Intent Based Networking
 - CHANGE MANAGEMENT
 - CONFIG & PERSIST SERVICE
 - CMP v2
 - ETSI ALIGNMENT
 - INTENT BASED NETWORKING
 - LICENSING MANAGEMENT
 - MDONS
 - NETWORK SLICING
 - ONAP/ORAN 3GPP STNDDEF VES
 - ONAP/ORAN 3GPP A1 POLICY
 - OPS-5G PROJECT
 - PNF PLUG AND PLAY
 - PRE-ONBOARDING & ONBOARDING USE CASE
 - REAL TIME PERFORMANCE MEASUREMENTS
 - SELF OPTIMIZING NETWORKS
 - SCALING USE CASE
 - SECURITY & LOGGING FRAMEWORK
 - VERTICAL INDUSTRY MANAGEMENT
 - xNF (PNF/VNF/CNF) SOFTWARE UPGRADE
- [ONAP SDN-R basic building blocks use cases for Operation and Maintenance \(O1 interface\)](#)
 - SDN-R: PNF registration
 - SDN-R: Fault management
 - SDN-R: Configuration management
 - ONAP/O-RAN-SC: Performance monitoring management
 - Legacy UDP based in-band management
- [O-RAN-SC Use Cases](#)
 - Health-Check Use Case
 - Traffic Steering Use Case
 - Application LCM Use Case
 - Application Deployment Use Case
 - Closed Loop Use Case
 - Network-Slicing (O-DU focused to SMO and back)
- [Akraino- Public Cloud Edge Interface \(PCEI\) Blueprint Family](#)
- [EMCO](#)
 - Dynamic Network Slicing
 - Enablement of connectivity to Edge applications from/to Internet
 - ISTIO CA Automation across clusters for tenants
 - Selection of Edge locations based on latency

- Subscriber traffic Steering

General Reference:

- www.o-ran.org
- <https://wiki.o-ran-sc.org/>
 - O-RAN-SC Partnerships
- O-RAN/O-RAN SC Liaison