

# 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](http://www.o-ran.org)
- <https://wiki.o-ran-sc.org/>
  - O-RAN-SC Partnerships
- O-RAN/O-RAN SC Liaison