

Radisys

### And the *Transformation* is about to begin...

### **SDPON**

Wireline disaggregation gains momentum as PON becomes the workhorse for 5G transport

### **5G Access**

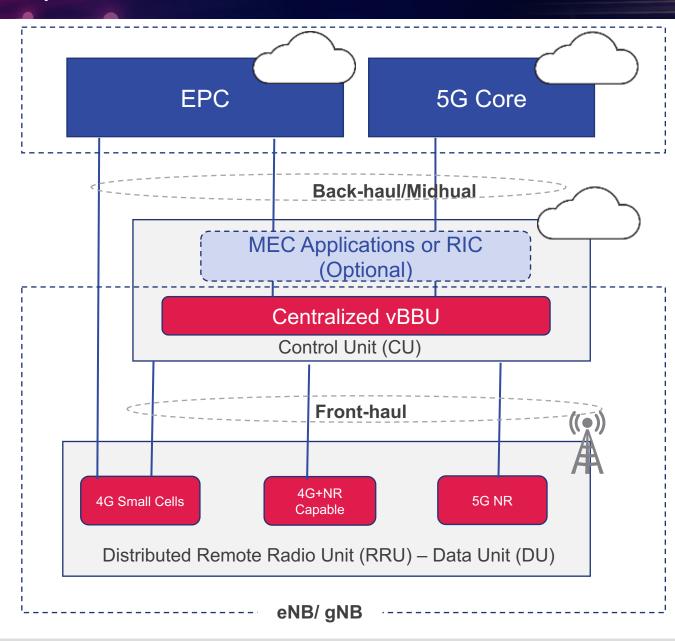
Builds on our wireless DNA as we pivot from stacks to more end-to-end enabling product solution

# Disaggregation Ecosystem

Acute need from global CSPs for aggregator of the disaggregation ecosystem

### Open Virtualized RAN Architecture for 4G and 5G Networks





Virtualized mobile core for 4G and 5G Networks with end to end Network Slicing

Programmable RAN Control plane using open reference architectures

Centralization and Virtualization of RAN eNodeB functions + Mobile Edge Apps

Unbundled RAN (CU/ DU) using standard APIs

Modular RRU software functions supporting multiple RAT co-existence

### Radisys



- xRAN API (RAN) Development
- Joint Solution with Intel®
- ORAN defined APIs
- WG Participation
- Design and Specification contribution



- Contributor Member
- FAPI eNB MAC PHY Interface
- Small Forum API Development
- nFAPI development
- 5G FAPI / nFAPI development



- Observer Member
- · CBRS eNB. EPC Solutions
- On.Go Test Platform for CBSD(A/B)



**Contributing Member** 









A GLOBAL INITIATIVE

- RAN#2 Meeting Plenary
- LTE eNB, EPC Solutions
- 5G gNB, UE and CN Solutions

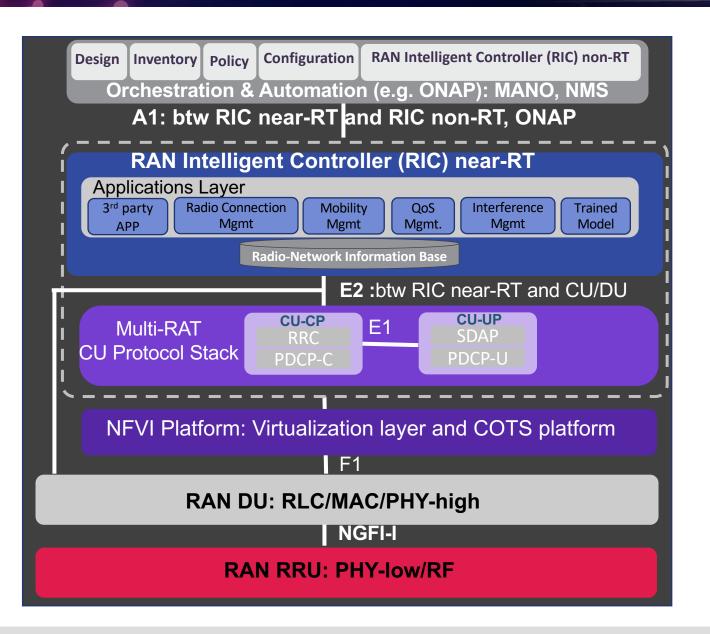


#### TELECOM INFRA PROJECT

- Lead TIP Type 1 Solution Integrator
- Contribution of LTE and EPC to TIP
- Development for Open Cellular
- Solution Integrator for Open-RAN
- Solution Integrator for Virtual RAN Fronthaul
- TIP Demo integrator for TIP Summit & MWC



- Board Member
- CORD (SEBA/MCORD/MEC) Contribution
- Exemplar Framework and Solution Integration





#### Radisys actively participating in:

- WG3 (Contributor)
  - Near-Real-time RIC and E2 Interface
- WG4
  - Open Fronthaul Interface
- WG5 (Contributor)
  - Open F1/W1/E1/X2/Xn Interfaces
- WG6
  - Cloudification and Orchestration + OSFG
- WG7 (Contributor-SW)
  - White-box Hardware (demo at MWC-S)
- WG8 (Vendor Co-Chair with Intel)
  - Stack Reference Design
- TIFG (Contributor)
  - Conformance & Interoperability Testing
  - Harmonization across different WGs and end-to-end system test
- OSFG (TOC, Contributor)
  - Seed code contribution for O-DU (available on Wiki)

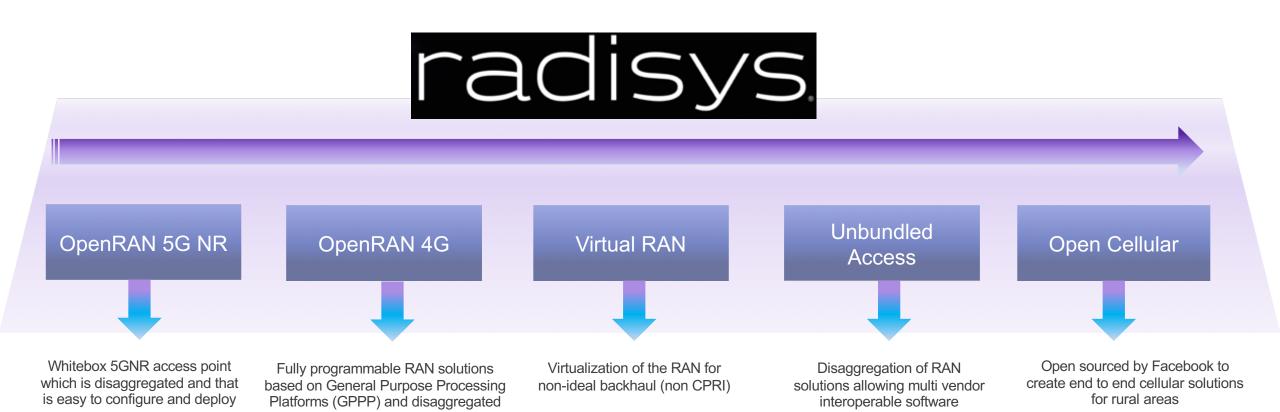
## Telecom Infrastructure Project (TIP)

software



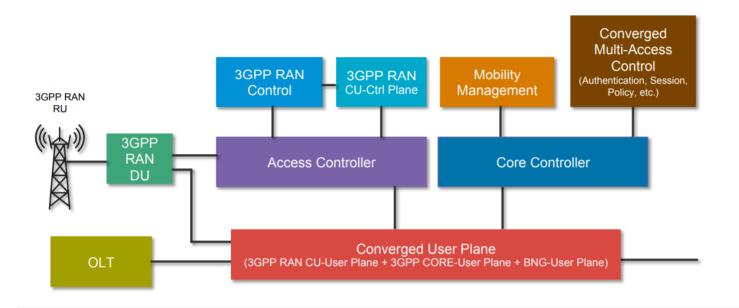
Radisys is a pioneer in enabling open RAN solutions for OEMs and Carriers alike

As part of this activity, Radisys has embraced the TIP (Telecom Infrastructure Project) initiatives to create a truly open and disaggregated RAN ecosystem



### Converged Multi-Access and Core (COMAC)

# Radisys



COMAC
(Converged Multi-Access & Core)

O-RAN
Controller
Open Mobile Evolved
Core

MOBILE

Access
SDN
Bockhaul

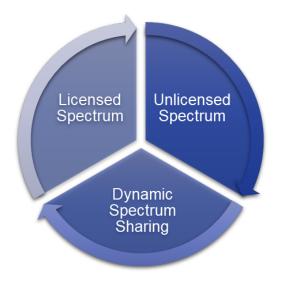
R - CORD
Subscriber Mgmt

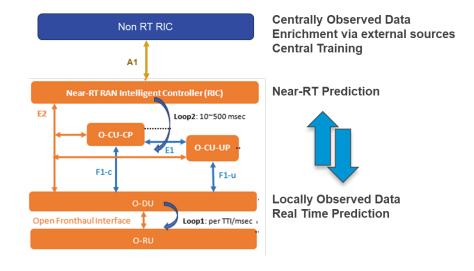
BROADBAND

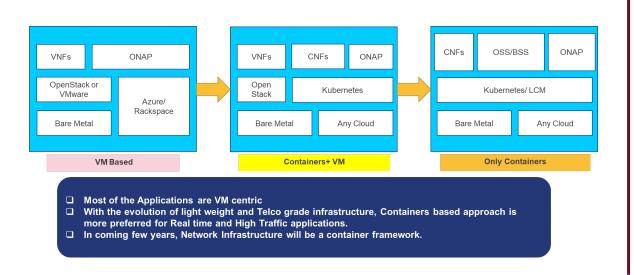
- Converged User Plane
  - coDBA
- OMEC leveraged
  - Multiple Open Source EPC
- O-RAN Controller
  - RIC (Near RT and Non RT)
- Common SDN Infrastructure
- Common data model
  - Netconf / Yang

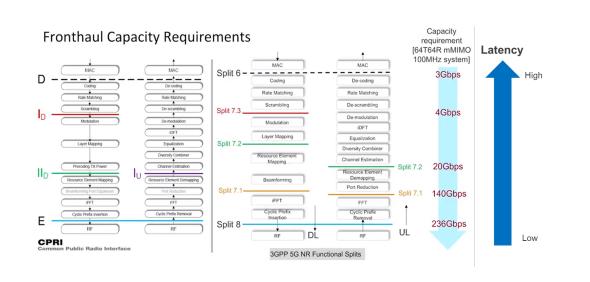
### Spectrum | Cloudification | AI – ML | Fronthaul Latency





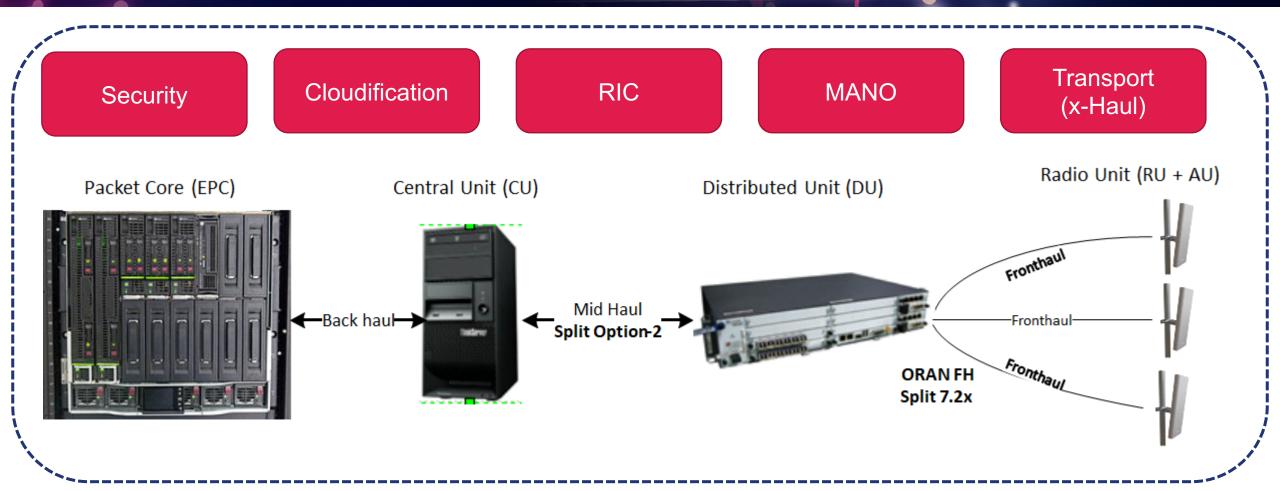






- CSPs want a product level solution but with principles of disaggregation
  - Multi vendor | CUPS | hardware software disaggregation
- Open Source is not just open source software
  - Open Architectures | Open APIs | Open Interfaces | Open Hardware
- Radisys can provide sandbox for
  - Architecture considerations
    - Split options, integrated vs. split, RIC and its placement
  - PNF vs. VNF vs. CNF
  - Performance dimensioning
  - Deployment scenarios
  - Use Cases
  - Conformance & Interoperability





Radisys will aggregate this disaggregation from the multi vendor ecosystem

Life Cycle Management: Tested | Validated | Documented | Supported

