Fujitsu’s end-to-end Open RAN solutions

- Service Management & Orchestration
  - SMO
  - RIC
  - RAN Intelligent Controller

- Virtualized CU/DU

- Front haul

- Radio Unit
  - User Equipment
    - More Users
    - Less Users

- Optimization by AI
  - Digital annealer

- Resource control

- Sleep control

Station #8

Station #6, 7

Station #1

Station #3
Fujitsu 5G utilizes GPUs to AI processing and 5G processing on a single server

**Realization of extra-low latency services**

**Realization of small start of services**

The technology for this product utilizes part of the results of the "Research and Development of Enhanced Infrastructures for Post-5G Information Communication Systems" (JPNP20017) of the New Energy and Industrial Technology Development Organization (NEDO).
5G vRAN AIO (All In One) Edge Solution

Consolidate vDU, vCU, UPF, and Edge AI Apps on a single server.

Enterprise services with extra low latency

- Smart places
  - Car Movements, Bike-Share Taxis, Security, Civic Cameras
- Industrial
- Media & Entertainment
  - Video Streaming with real-time input
- Retail
5G vRAN AIO (All In One) Edge Solution

- Optimal co-existence of 5G processing and AI processing on a single server by sharing compute resources
- Small start-up of services with a single server
Fujitsu vRAN (vCU/vDU) software handle a variety of use cases.

- All in One 5G
- Edge computing
- SMO and slicing ready

MWC exhibition booth

AIO
vCU/vDU/5GC

- vCU at central office
- vDU at cell site
- Rural ~ Urban

High scalability and capacity
- vCU/vDU at central office
- Dense Urban

Enterprise deployment

Distributed Carrier deployment

Centralized Carrier deployment
Fujitsu vCU/vDU Differentiators

Carbon Neutral
Dynamic resource allocation using digital annealers & AI technology to save power

Edge Site Reduction
Reduction by extending fronthaul and reducing L1 and L2 processing time

Service Deployment with less equipment
Minimizing equipment by maximizing the performance of accelerator cards.
Dynamic resource allocation using digital annealers & AI technology to optimize computing resources and save power.
Minimized number of Edge sites by extending fronthaul up to 50 km and reducing L1 and L2 processing time.
Minimizes equipment on site by maximizing the performance of accelerator cards. Space-saving service deployment can be achieved.
Thank you