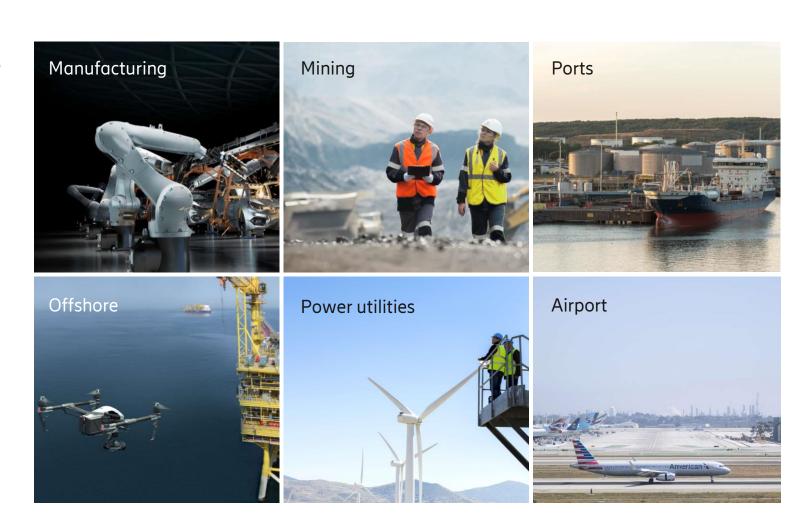# Ericsson e-Um5G solution, Ericsson Private 5G

박동주
테크니컬 디렉터

Industry needs

- Easy integration with IT/OT systems
- Easy installation and management
- High reliability and availability
- Easy operation and maintenance
- Additional use cases like positioning, voice
- Coverage at multiple sites
- Local survivability
- High security and privacy
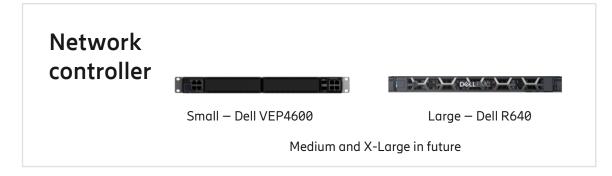- Data stays local
- Low latency

Manufacturing

Mining

Ports

Offshore

Power utilities

Airport

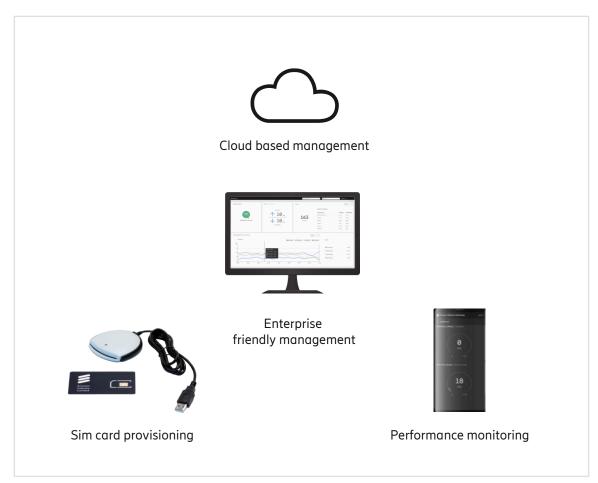# Ericsson Private 5G product offering: Pre-Packaging
5G sized for industry. Fast to deploy. Easy to operate. Lifecycle assured.

A fully automated cellular network offering that addresses the need and the future business models of Enterprises

Network controller

Small – Dell VEP4600   Large – Dell R640

Medium and X-Large in future

Radio portfolio

Baseband   BTS   Radio dot   AIR

Cloud based management

Enterprise friendly management

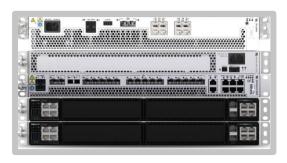Sim card provisioning

Performance monitoring

Ericsson Private 5G — hardware details

Small

Up to 1k Users
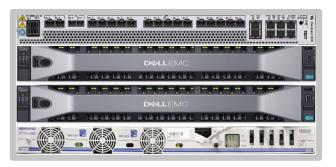
1 Gbps traffic

Power supply

Baseband 6630

Dell VEP 4600 Network
Controller *)

Dell VEP 4600 Network
Controller *)

Large

Up to 20k Users

10 Gbps traffic

Baseband 6630

Dell R640 Network
Controller *)

Dell R640 Network
Controller *)

Power supply

*) Redundant core

Medium and X-Large in future
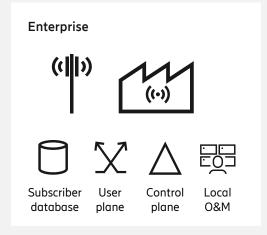
Ericsson Private 5G
All of Ericsson in one box

Cloud based Management (by Ericsson)

O&M and LCM (e2e)
Option A

Partner / Owner Management (by Enterprise)

O&M and LCM (e2e)
Option B

Enterprise

Subscriber database | User plane | Control plane | Local O&M

Enterprise

- Ericsson Radio System portfolio

- Ericsson Radio Dots for indoor coverage (4.72-4.82 GHz)

- BTS and/or Ericsson AIR for indoor/outdoor coverage (28.9 – 29.5 GHz with NR-DC 4.7GHz)

User plane **Control plane**

- Container based full 5G SA

- Dual mode Core

- Open API to integrate into your IT/OT environment

- Multi-site deployment

O&M and LCM (e2e)

- Fully life cycled management system

- Easy installed software in less than one hour

- Zero downtime update/upgrade

- Easy to use interface

Easy to order, install and manage

Easy to order

— Online ordering
— Base package and expansion kit
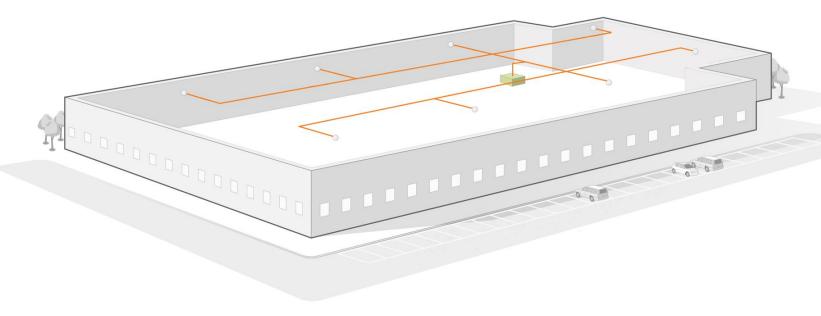— Simple price list

Easy to set up

— Set up in less than an hour
— Equipment is pre-configured for the environment
— Automatic discovery of equipment

Easy to manage

— Cloud-based portal with all the information you need
— No telco experience needed
— Cloud-based lifecycle management

Small footprint

— Fewer than 5 rack units, less than 40 cm deep
— Ericsson Radio Dots

Ericsson Private 5G (EP5G)

Radio Dot 4479 (4.7GHz)
- Indoor optimized ultra compact radio
- Discreet and easy to install
- Radio and power over LAN cable up to 100m

Indoor Radio Unit (IRU 8846)
- Power and control for Radio Dots
- Frequency band independent
- FDD/TDD Software defined radio
- Remote or co-located with baseband

Radio Dot 4479 (4.7GHz)

1x CAT 6A per Dot

IRU 8846

Streetmacro (28GHz, BTS)

Streetmacro
- Indoor / outdoor
- CU/DU/RU/antenna
- 128T 128R
- Upto 600 MHz
- NR-DC (4.7GHz anchoring, mid 2022 available)

Fiber cable

Fiber cable

Cloud based Management

GNSS Synch

Koax

GPS antenna (phase and time synchronisation)

Baseband 6630

48 V Power Supply

Network Controllers

VEP4600 / R640

VEP4600 / R640

SIM Card writer with 50 SIM cards

Internet connectivity

Network Management Portal

GbE or 10G SFP

Data / API

Customer Network

For any inquiries
related to Ericsson Private 5G

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