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devicelab](http://ericsson.com/devicelab)

Portable Device Lab

Bringing advanced device
testing to your desk

The latest technology
Puts a complete Ericsson
4G and 5G network on
your desk

Plug and play
Works out of the box, zero
configuration

As a Service
Use for a day or for a year.
The choice is yours

Ericsson
Portable Device Lab

The Portable Device Lab is small deployment of Ericsson's renowned Device Lab as a Service and contains a fully functional and fully featured Ericsson mobile network allowing you to test devices and use cases against a 4G and 5G network.

The Portable Device Lab is delivered as a Service and can be used for shorter or longer periods depending on your needs. It comes pre-configured and ready to go within minutes after unpacking it.

Configurations can be small, with only the RAN in the box, or it can contain an edge core as well which will support even the most demanding time critical use case. In all configurations it is connected to Ericsson's shared core network.



Key features

Test on a real network

Access to the latest technology.

Full support for 4G, 5G, IoT,
RedCap

Several configurations available,
including setups with or without
local edge core. Always with local
RAN

Flexible payment model

Monthly Subscription

Pay as you use

Global accessibility

Flexible & scalable

Plug & Play

Ready to use Test Environment:

Quick shipment

Pre-installed system

GUI based Configuration

Management

Un-box and get connected in
minutes

Use Cases

Access to the latest features

4G & 5G Feature testing

Solution validation testing

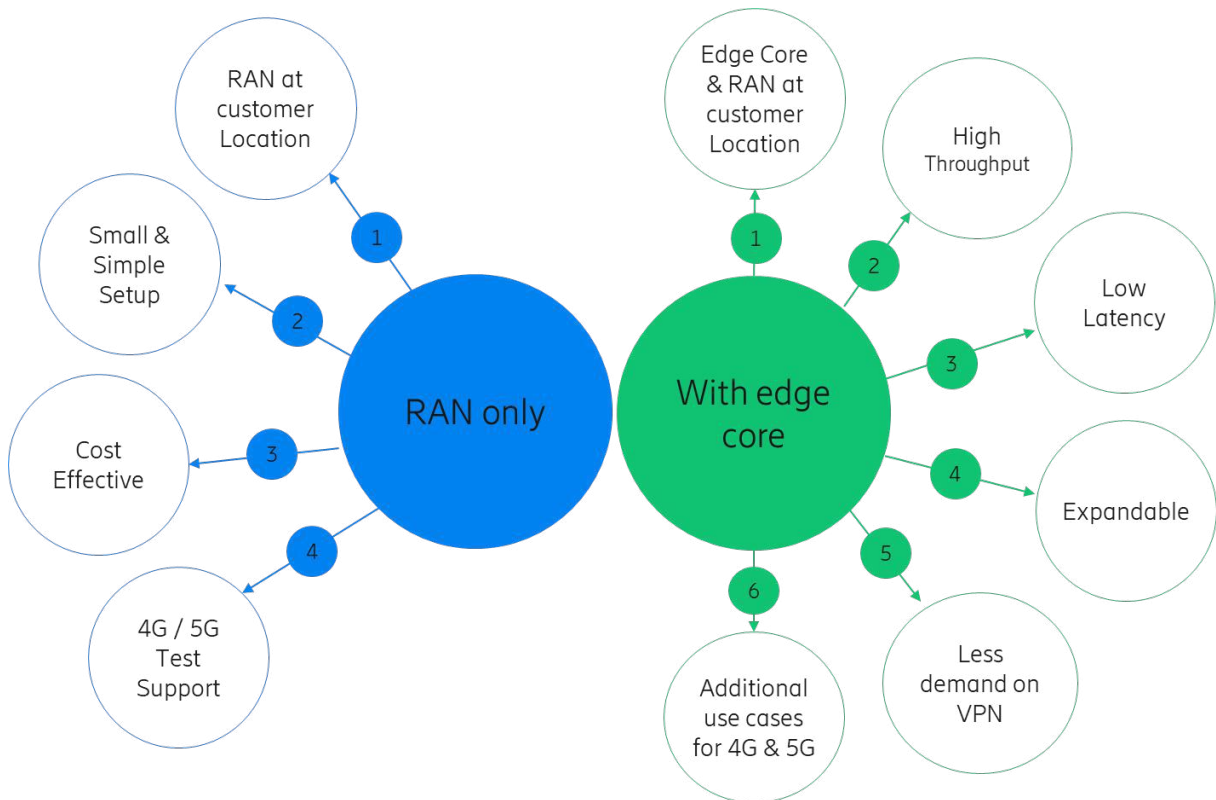
Proof of concept & demos

Device testing

Application Testing

Time critical use cases with edge
core





Local RAN connected to a remote core

The radio network equipment plus firewall will be located at the customer's facility and exclusively used by the customer. Core network elements (SMF, AMF, UDM, SAPC/PCRF, SMS-Center, IMS etc.) are located in Ericsson's facilities and shared with other customers.

Local RAN with edge core connected to a remote core

The radio network equipment and User Plane Function (UPF) plus firewall will be located at customer site and exclusively used by the customer. Core network elements (SMF, AMF, UDM, SAPC/PCRF, SMS-Center, IMS etc.) are located at Ericsson facilities and shared with other customers

Technical capabilities and features

4G, 5G NSA & 5G SA Connectivity
 Voice services (Incl. VoLTE, VoNR) LTE-CATM, NB-IoT & Redcap
 Multiple APN's per device
 Network Configuration Tool for easy configuration of your set-up

Example configurations

1 Baseband with 2 cells

2 Basebands with 2 cells and edge core

Available features

LTE
 5G NSA
 5G SA
 VoLTE
 VoNR
 CATM
 NB-IoT
 RedCap
 SMS
 NGeCall
 FR1
 FR2

Service status

Disconnect

Lab status: ● In operation

User: @username@company.com

Cell status: ● In service

Radio status: ● In service

Connected to core: ● In service

Last health check: 🕒 October 10, 2024 6:19 PM

Monthly usage

64 / 4800 minutes

Current license period: **October 1, 2024 - October 31, 2024**

Contract duration: **May 29, 2024 - October 31, 2024**

Service information | Command logs

Specifications

ISP IP (IPv4): **10.119.33.161**

ISP Ports: **5000 - 5003**

iPerf Server Version: **3.16**

Idle timeout: 🕒 15 minutes

Radio: **Band n78**

gNB: **SW Ver -2024Q1**

Performance test commands | 🗺️ Network diagram

iPerf

- iPerf TCP Download : `iperf3 -c [ISP IP] -t60 -i 1300 -i 1 -P 4 -R -p [ISP Port]`
- iPerf TCP Upload : `iperf3 -c [ISP IP] -t60 -b 200M -i 1300 -i 1 -P 4 -p [ISP Port]`
- iPerf UDP Download : `iperf3 -u -i 1 -fm -i 1360 -w16M -p [ISP Port] -t 60 -b 200M -c [ISP IP] -P 4 -R`
- iPerf UDP Upload : `iperf3 -u -i 1 -fm -i 1360 -w16M -p [ISP Port] -t 60 -b 200M -c [ISP IP] -P 4`

Ping

- Ping : `ping [ISP IP] -s 24 -i 1`

Network Configuration Tool (NCT)

NCT offers a Web GUI and RESTful API interface for customers to configure RAN, Core, and other network element parameters. It is a secure tool with each customer having a dedicated NCT. The Web GUI version supports configuration of eNB and gNB, simple parameter commands, complex script commands, and configuration history queries.

Customizable

Cost efficient

User friendly web interface and API interface

Secure

Role-based access control