



5G private network tests in EDF Lab – Road blocks still remains

09/03/2023

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R&D THROUGHOUT THE WORLD

**With 3 centres in France,
6 abroad and a delegation
in Brussels,** EDF conducts
research both nationally and
at international level.



R&D IN FIGURES



1,780 employees
in France and
225 employees
abroad



More than
200
research
professors

160
PhD students



9 R&D centres
in France and abroad

45
nationalities



More than
300 academic
and industrial
partnerships



More than
70 testing,
measurement
and simulation
platforms



2,158 patents



11 pétaflops of
computing capacity



20 joint
laboratoires

We all want to use MNO networks...

Because assuming telco services are not our main subject

- We are in energy generation, transmission, distribution, reselling, services around energy, trading of energy

But we encountered some technical limits

- Coverage
- Availability

That could translate in financial limits

- If an MNO is building an extended coverage for us, with the right availability, he will charge us all the CAPEX, OEPX, plus margin

...so we are still building private networks

The « EU » problem

PLMN

- Mobile phones & tablet don't work with our private PLMN
 - It is not a pb in 4G, nor with industrial routers
 - Impossible to use 208 92 (test France) or 208 500 (EDF) on OnePlus 8, Nokia X30, Google Pixel 6, Lenovo P11 & P12...
- How to easily register new PLMN in mobile & tablet

Impossible to connect to a private IMS with « data centric » UE

- « data centric » UE : no VoLTE, no IMS connexion Google PIXEL 6, OnePlus
- « voice centric » UE : VoLTE OK, IMS connexion OK Lenovo P11 & P12
- How to force a data centric UE to link to a private IMS ?
- How to have an easy integration with private IMS ?



Thanks

