Meet SOLiD at the Marketplace!

#SUMMIT25 · SEPTEMBER 2025

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#SUMMIT 25
Implement & Consolidate

i4y LAB

O-RAN integration into multi-operator DAS

with an example for a stadium

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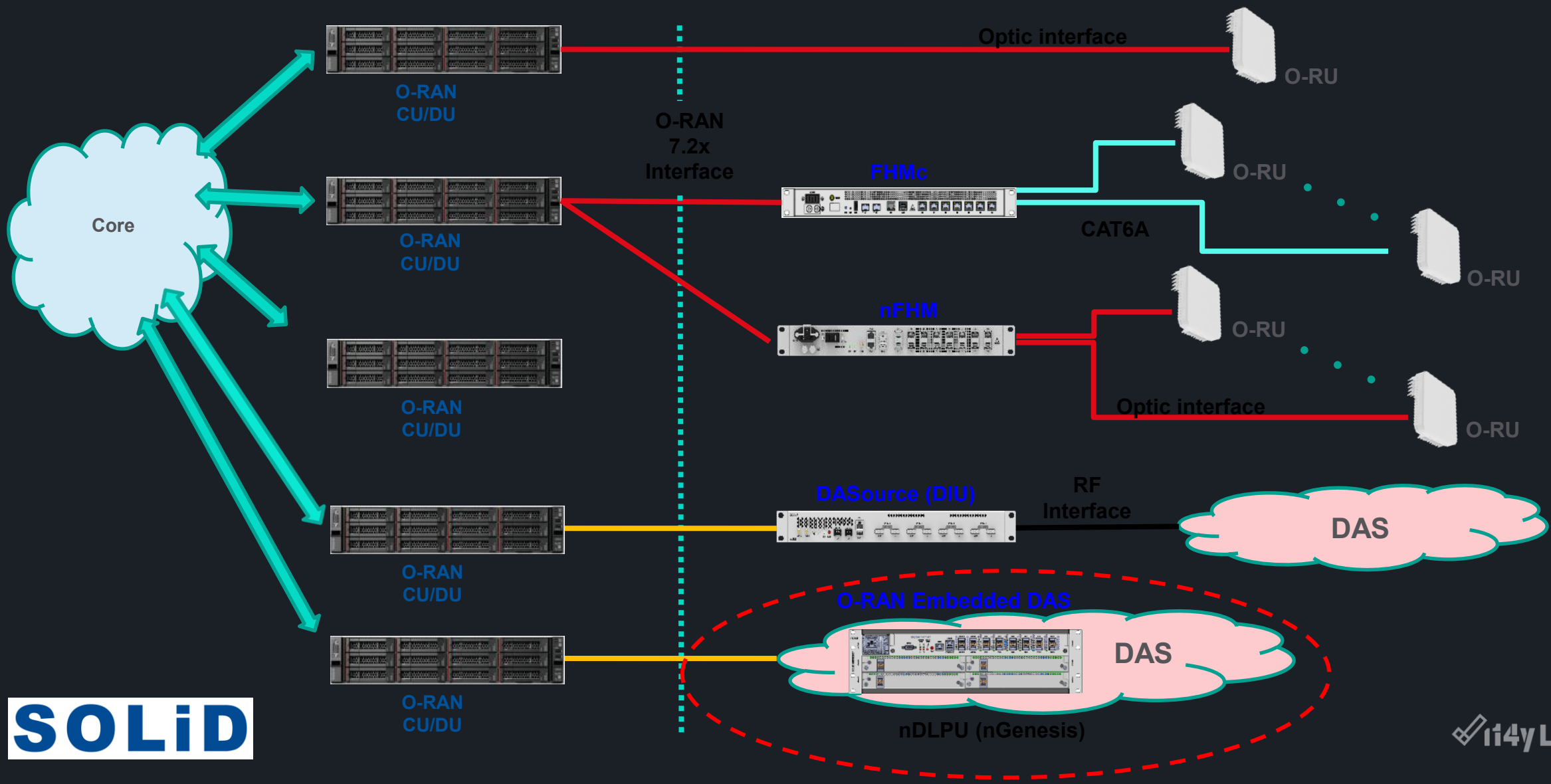
O-RAN Configuration



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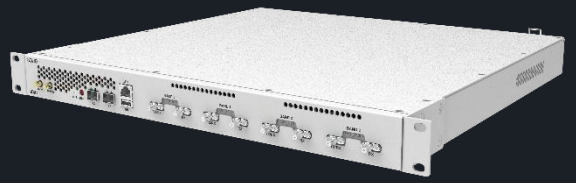
SOLiD DASource® and Front-Haul MUX

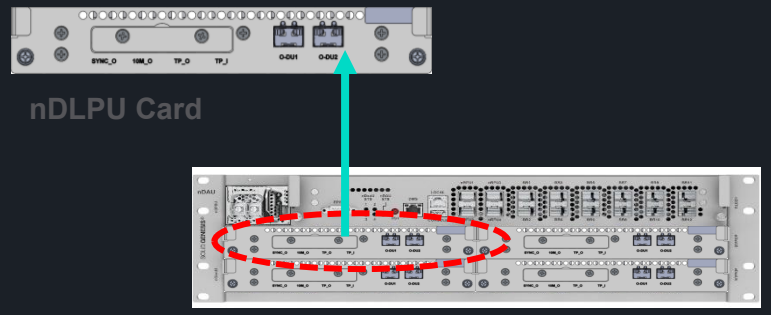
DASource® DIU

- O-RAN WG4 CUS/M-plane compliant
- 4G LTE, 5G NR sub-6GHz
- 4T4R capability, RF interface toward DAS
  - Quad Band : 4G 4 bands SISO
  - Triple Band : 5G 1 band 2x2 MIMO + 4G 2 bands SISO
  - Dual Band : 4G/5G 2 bands 2x2 MIMO
  - Single Band : 5G 1 band 4x4 MIMO
- Simplex/Duplex port
- 19” rack mountable, 1U



SOLiD GENESIS® nDLPU

- O-RAN WG4 CUS/M-plane compliant
- Embedded Modular type for nDAU
- 4G LTE or 5G NR
- Any Carrier specified in 3GPP TS in FR1
- Max. 8 component carriers
- Low PHY processing
- 2x 10G/25G optic interface for CU/DU



FHM

- O-RAN WG4 CUS/MP Spec. compliant
- COPY and COMBINE: shared cell features
- 4G LTE, 5G NR Sub-6GHz
- FHMc : Copper version
  - ✓ 7 x 10G Cat6A with PoE in FHMc
- nFHMo : Optic version
  - ✓ 14 x 25G/10G Optic in nFHMo (Q2, 2024)
- 19” rack mountable, 1U

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SOLiD O-RUs for In-building and Macro outdoor coverage

O-LRU (Low Power O-RU)

- O-RAN WG4 CUS/MP Spec. compliant CAT-A
- Max. 24dBm @ Antenna port
- 4G LTE and 5G NR for Sub-6GHz
- 4T4R Platform
  - Dual band : 4G 2 bands 2x2 MIMO
  - Single band : 5G 2x2 or 4x4 MIMO
- Internal or External antenna

O-MRU (Medium Power O-RU)

- O-RAN WG4 CUS/MP Spec. compliant CAT-A
- +37dBm @ Antenna port
- 4G LTE and 5G NR for Sub-6GHz
- TDD + FDD Mixed configuration
- TDD 4T4R, FDD 4T4R
- 8T8R Platform
  - Triple band : 5G 4x4 MIMO + 4G 2 bands 2x2 MIMO
  - Dual band : 4G 4x4 MIMO + 5G 4x4 MIMO
- External antenna

O-HRU (High Power O-RU)

- O-RAN WG4 CUS/MP Spec. compliant CAT-A
- +46dBm @ Antenna port
- 4G LTE and 5G NR for Sub-6GHz
- 4T4R single band
- External antenna

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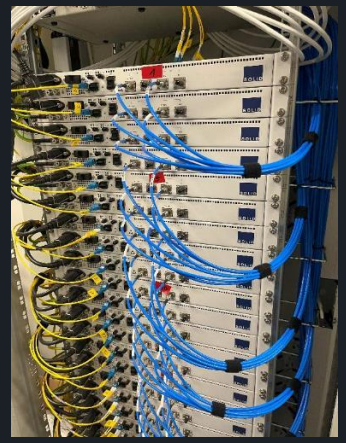
O-RAN European Deployment

Read Our Case Study

Signal Iduna Park is now the world's first Open Radio Access Network (O-RAN) stadium

SOLiD, in partnership with 1&1 and Rakuten, to deliver a step change in the football experience



In the news

- For one operator, SOLiD supplied DASource® O-RAN signal sources connected to a 3rd party CU/DU
- 30 sectors for 4G and 5G
- Minimum footprint with a single 19” rack for each technology
- Two racks vs. 300 sq. ft. each for other operators
- Significantly reduced power consumption and heat load
- Multi-operator DAS
- 900, 1800, 2100 and 2600MHz for 4G plus full band n78 4T4R
- All 4 operators share the system
- Slim-size radio units with optimized power consumption
- Three different power classes
  - Low power for high-capacity indoor and VIP lounges
  - Medium power for the bowl
  - High power for lower capacity indoor and parking lot

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CASE STUDY
Dortmund stadium

Case Study for a 4T4R application with OpenRAN feeding

General

Dortmund’s Signal Iduna Arena is home of 1. League BvB football club and is the biggest stadium in Germany, hosting up to 85’000 visitors.

SOLiD provides entire 4G and 5G coverage with 30 sectors for all four German operators, using the innovative GENESIS digital DAS for highest capacity and maximum user experience.

As a first in Europe SOLiD is providing OpenRAN feeding for one of the operators which reduces the impact on power consumption, size and weight significantly.

GENESIS DAS

- Fully digital multi-operator DAS
- 900, 1800, 2100 and 2600MHz for 4G plus full band n78 4T4R
- All 4 operators share the system
- Slim size radio units with optimized power consumption
- Depending on the application three different power classes are used:
  low power: for high capacity indoor and VIP lounges
  Medium power: for the bowl
  High power: for lower capacity indoor and parking lot
- More than 150 radio units in total

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OpenRAN

- For one operator SOLiD is supplying OpenRAN feeding using the SOLiD DIU, connected to a 3rd party CU/DU
- 30 sectors for 4G and 5G
- Minimum footprint with a single 19” rack for each technology
- Minimzed size and weight
- Highly reduced power consumption (typ less than 2000W per technology (for all sectors)

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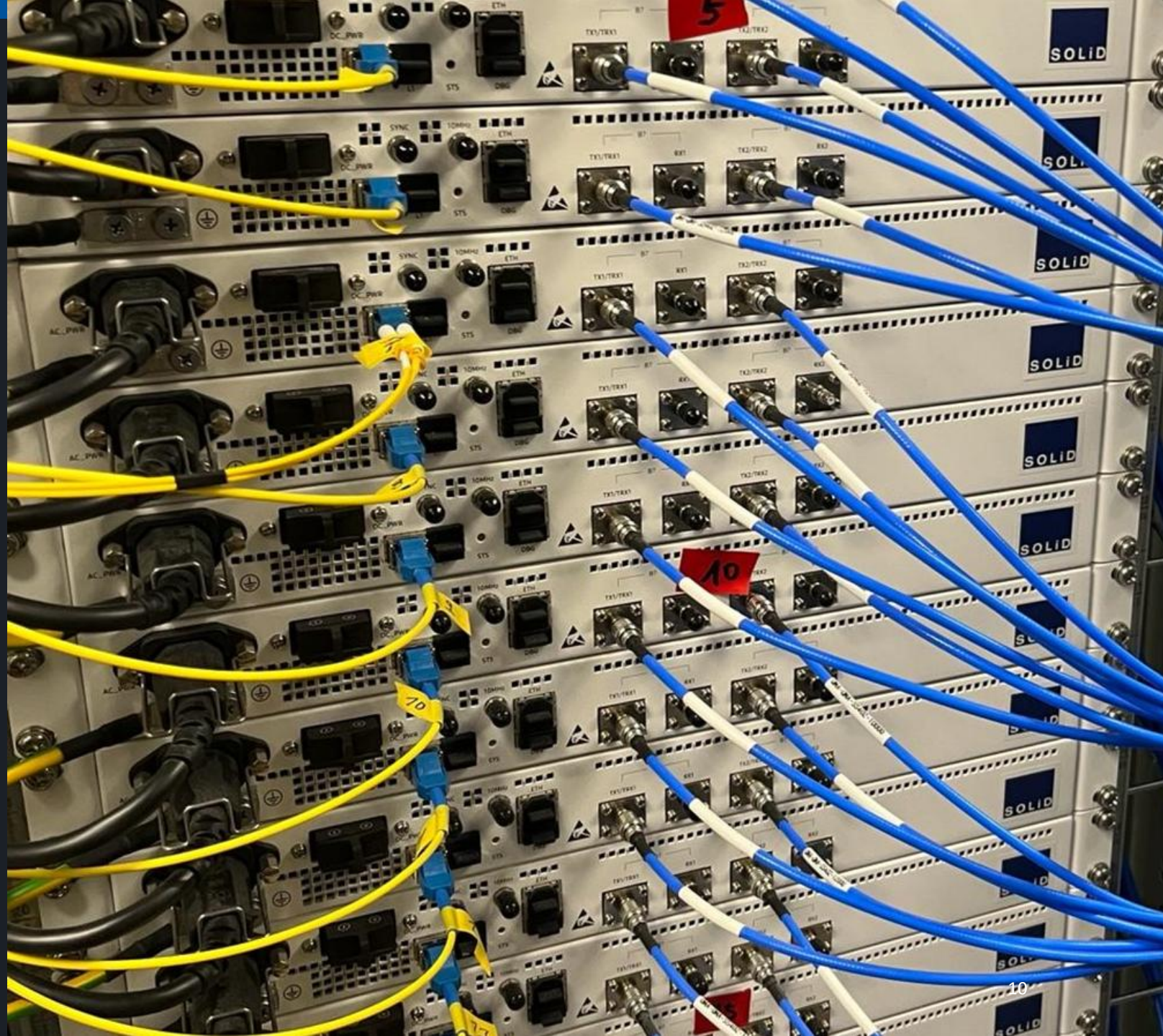
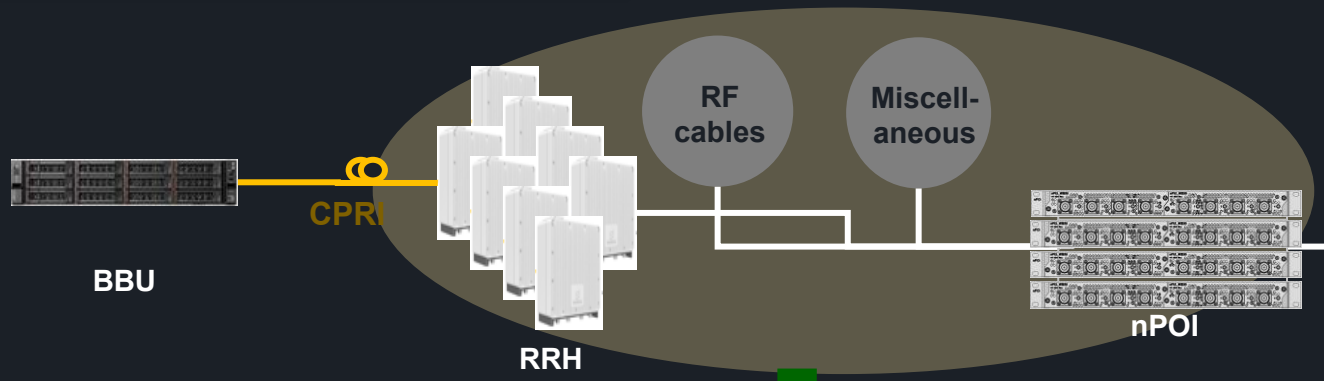


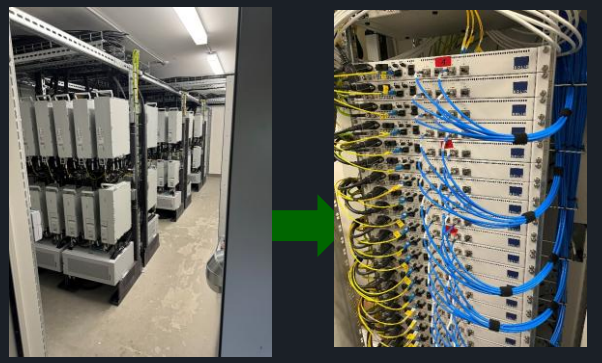
Results - SOLiD DASource® - Why use ORAN?

Future-proof – Sustainable – Interoperable – Total Cost of Ownership - Scalable

GOLD | Top 5% ecovadis Sustainability Rating JAN 2025

Existing solution;
BBU + RRH + RF Cable + nPOI + nDAU





DASource ® ;
O-RAN CU/DU + DASource ® + nDAU

Savings:
- 81% Power Consumption
- 89% Space
- Cooling expense

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Thank you!

Please talk to us:

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