

# RANsemi and TechPhosis Enable 5G OCUDU for Integrated Small Cells

*SCF FAPI interoperability enables open source CU/DU software and commercial PHY integration for compact, low-power 5G small cells*

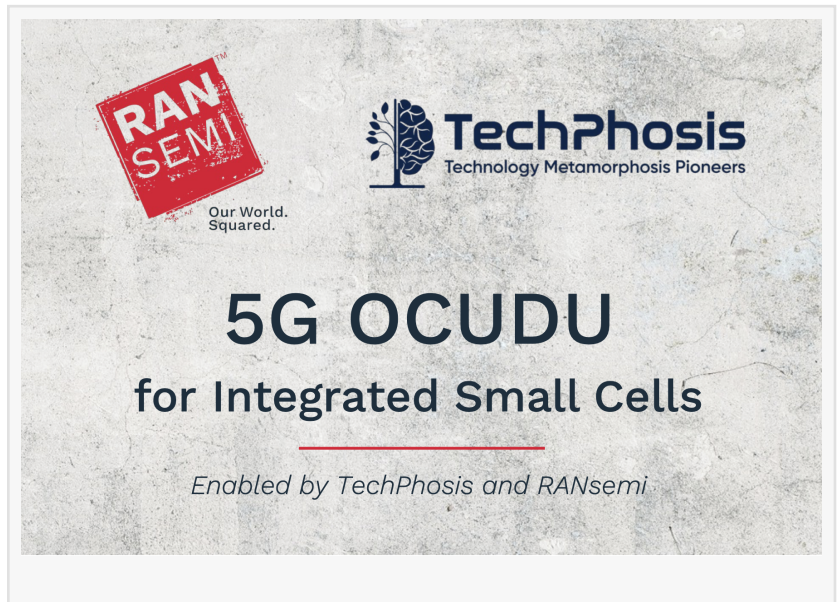
BRISTOL, UNITED KINGDOM, June 23, 2026 /EINPresswire.com/ -- Bristol, UK, and Gurugram, India – Tuesday 23rd June 2026 – RANsemi Limited, the British semiconductor innovator pioneering Open RAN baseband System-on-Chip (SoC) platforms for 5G networks, and TechPhosis Private Limited, one of India's leading 5G

CU/DU stack solution providers and Open RAN integration specialists, have integrated the Linux Foundation's open source 5G OCUDU CU/DU software stack with the RANsemi RNS802 baseband PHY using the [Small Cell Forum](#) (SCF) [FAPI interface](#).

The work demonstrates that open source CU/DU software can be combined with an optimised commercial PHY via industry-standard interfaces, creating a practical path to low-SWaP (size, weight and power) 5G integrated small cell deployments. While OCUDU is often associated with O-RAN architectures (Split 7.x), the collaboration shows that the software can also apply to compact, integrated small cell systems.

Hosted by the [Linux Foundation, OCUDU](#) (Open Centralized Unit / Distributed Unit) is an open source CU/DU software platform designed for commercial deployment in 5G and future wireless networks. Unlike proprietary software platforms, open source software does not come with a vendor responsible for integration. Through its deep RAN L2/L3 and system integration expertise, TechPhosis bridges the gap between open source software and commercially deployable 5G infrastructure products.

“Open source software and standards-based interoperability are becoming increasingly important within wireless infrastructure. This cooperation with TechPhosis illustrates how open



ecosystems and commercial wireless technology can work together to create greater flexibility and choice for future wireless infrastructure deployments,” said Peter Claydon, CEO of RANsemi.

Using an RNS802 development platform, OCUDU software was integrated with RANsemi’s optimised PHY software to create a complete 5G gNB architecture, validating the open source approach for integrated small cell deployments.

The work builds on the collaboration announced by RANsemi and TechPhosis in November 2025 to develop an Integrated Small Cell Starter Kit, extending the partnership's focus on practical, deployable 5G infrastructure.

Beyond integrated small cells, the collaboration supports a software architecture that can span multiple deployment models. The same OCUDU-based approach can extend to O-RAN 7.2 architectures using the RANsemi RNS805 O-RU SoC, offering developers both integrated and disaggregated deployment options with a single, consistent software approach.

“Open source software provides an important foundation for innovation, but customers also require enhancements, integration and support. Our joint work with RANsemi shows how open source innovation can be translated into deployable 5G infrastructure, helping customers move from software availability to real-world networks,” said Mangal Singh, Co-Founder and COO of TechPhosis.

Applications include private networks, mission-critical communications and defence-related wireless infrastructure, where open source software, standards-based interoperability and flexibility can help simplify deployment and expand technology choices.

To find out more, contact RANsemi at [ransemi.com/contact/](https://ransemi.com/contact/) or TechPhosis at [techphosis.com/contact-us/](https://techphosis.com/contact-us/).

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Note to Editors

OCUDU (Open Centralized Unit / Distributed Unit) is an open source CU/DU software project hosted by the Linux Foundation's OCUDU Ecosystem Foundation. Designed for commercial deployment, broad industry adoption and advanced research and development, the project provides a complete 5G RAN software stack aligned with 3GPP and O-RAN Alliance specifications.

For more information, visit [ocudu.org](https://ocudu.org).

About RANsemi

RANsemi Limited is a British semiconductor company creating silicon and software platforms

that underpin 4G, 5G and emerging 6G radio access networks (RANs). Headquartered in Bristol, UK, with a global sales and support presence, RANsemi develops advanced wireless infrastructure technology for public, private and mission-critical communications networks. Its technology supports trusted, scalable connectivity across Neutral Host, Defence & Security, Non-Terrestrial Networks (NTN), Small Cells and enterprise wireless networks.

For more information, visit [ransemi.com](https://ransemi.com).

#### About TechPhosis

TechPhosis Private Limited is an Indian deep tech company building the future of intelligent communications through advanced wireless, AI, and network software technologies. The company focuses on innovative solutions across Private 5G, Open RAN, Network Core, IMS, Network Automation, NTN, and emerging 6G ecosystems. Through collaborations with leading global semiconductor and equipment vendors, TechPhosis accelerates the development and deployment of next-generation wireless infrastructure, supporting the evolution of open and interoperable 5G networks.

For more information, visit [techphosis.com](https://techphosis.com).

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