



Press Release - Current/OS Foundation & Open Compute Project Foundation

OCP and Current/OS Advance Strategic Alliance to Enable Direct Current Adoption in AI Data Centers at 2026 OCP EMEA Summit in Barcelona

The Open Compute Project Foundation and the Current/OS Foundation progress joint development efforts to accelerate the emergence of next-generation data centers powered by direct current.



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In lead-up to the 2026 OCP EMEA Summit in Barcelona (April 29–30, 2026), the Current/OS Foundation highlights the progress of its strategic collaboration with the Open Compute Project Foundation (OCP), formalized in December of 2025 through the signing of an alliance aimed at accelerating the development of direct current-powered data center architectures.

This participation marks a key milestone in driving industry alignment around DC solutions for AI-driven infrastructures, reflecting a shared ambition to transform digital infrastructures into more efficient, sustainable, and high-performance systems, and to establish new standards for the electrical architecture of next-generation data centers.

Driving Industry Alignment at OCP EMEA Summit

At the Summit, a joint keynote session will present the progress of the OCP Data Center Facility sub-project focusing on Low Voltage Direct Current (LVDC) power distribution. Industry experts will outline the required transformation of electrical architectures, highlight practical barriers to adoption, and share the path forward for implementing DC solutions to meet the escalating demands of modern AI workloads.

Delivering Open Standards, Education, and Technical Frameworks

In parallel, the collaboration is structured around several key deliverables:

- a comprehensive white paper, [*Data Center Facility – Low Voltage Direct Current Power Distribution*](#), detailing architectures and best practices for scalable AI infrastructure;
- a training program available in the OCP Academy to educate engineers and professionals on open-standard system design and deployment;
- and a formal specification document defining technical requirements, interfaces, and interoperability standards to enable vendor-agnostic innovation.

A Key Solution for Efficient, Resilient, and Scalable AI Data Centers

Faced with the exponential growth of computing needs—particularly driven by cloud computing, artificial intelligence, and digital services—the optimization of data center energy systems has become a major challenge.

Direct current (DC) is a promising solution to reduce energy losses, simplify electrical architectures, and improve infrastructure reliability.

The alliance between Current/OS and OCP aims to promote the adoption of open standards for DC architectures in data centers and to unite an ecosystem of industrial, technological, and academic stakeholders around this transition, addressing the growing challenges of power consumption, performance, and sustainability.

This collaboration is expected to deliver tangible benefits for the design and operation of next-generation data centers. The two organizations will work to reduce electrical conversion stages, increase power density for AI workloads, and enhance infrastructure resilience while simplifying electrical architectures. The initiative also aligns with open and interoperable standards to foster innovation, industrial adoption, and compatibility across the ecosystem.

James Kelly, VP Market Intelligence & Innovation, Open Compute Project Foundation: “By uniting OCP’s open data center leadership with Current/OS’s open DC microgrid standards, we’re shaping a path toward a vendor-neutral industry framework for DC-native data centers, making them more adaptable to next-generation AI infrastructure while improving overall facility efficiency and resilience.”

Vincenzo Salmeri, President of Current/OS: “This collaboration with OCP is a crucial step in accelerating the transformation of digital infrastructures toward more energy-efficient and resilient models. Direct current offers significant gains in energy efficiency and architectural simplicity.”



About Current/OS

The Current/OS Foundation promotes a unified approach to direct current power microgrids. It brings together an ecosystem of manufacturers and stakeholders to define guidelines for the design and installation of interoperable systems operating safely within DC power distribution networks.

For more information: <https://currentos.org/>

About the Open Compute Project Foundation

The Open Compute Project (OCP) brings at-scale innovations and hyperscaler best practices to all, spanning technology domains from the data center to the edge, and the technology stack from silicon, to systems, to site facilities and services. The international OCP Community is made up of organizations and people from hyperscale, neocloud and cloud data center operators, communications providers, colocation providers, diverse enterprises, and technology providers. With The OCP Tenets of Openness, Impact, Efficiency, Scale and Sustainability, the OCP Foundation engages with industry ecosystems, our growing membership, and educates thousands of engineers and industry leaders, every year. Across many projects and initiatives, the OCP Foundation and its Community are meeting the AI Data Center market evolution today and shaping the future. Learn more at: www.opencompute.org.

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