



**Open Connectivity Foundation  
First IoT Platform to Combine  
OCF and Thread Capabilities  
Pioneers Strong Security  
Offering for Low Power, Large  
Area IP-Based Mesh  
Networks**

**20 October, 2021** – OCF welcomes the certification of the first ever standards-based, low power IoT platform to combine the end-to-end security benefits of Open Connectivity Foundation (OCF) technology and the low power and wide-area coverage advantages of Thread. Its availability creates an unprecedented opportunity for the rapid build and deployment of securely connected IP-based ultra-low-power devices, which lays a transformational foundation for highly secure smart building and smart city landscapes.

The certified platform from Cascoda is based on an open-source software development kit (SDK) and comprises the first ever module to offer OCF's secure IP framework and application layer, and Thread's low-power and scalable IPv6-based network layer protocol; the required Thread IP router; and OCF cloud connectivity functionality.

The unique combination of platform features, including a root of trust (RoT), cryptographic acceleration and hardware tamper protection features, combined with the unparalleled security features of OCF and Thread, have enabled it to gain both European and UK IoT security attestation through the IASME 'IoT Security Assured scheme'.

As a result, it aligns with OCF's mission by enabling secure end-to-end IoT deployments that encompass device-to-device, device-to-cloud, and cloud-to-cloud without the privacy concerns of consumer-driven cloud-connected systems.

This development supports another key aim of OCF, which is to drive demand-side energy efficiencies in commercial building automation systems (BAS) and smart city infrastructure through migration to secure IP solutions.

It also represents a significant step towards achieving the vision of IP-BLIS – a market interest group, which brings together standards organizations including OCF, KNX, DALI, BACnet, Thread Group, and Connectivity Standards Alliance to support the adoption of a secure, multi-standard IP-based infrastructure.

Mark Trayer, OCF Chair, comments: "This development is a milestone for OCF and for all IoT stakeholders wishing to take advantage of the highest levels of security on low power IP-based mesh networks. Until now, this hasn't been possible. Now, however, an opportunity has been unlocked for low power devices on mesh networks, and the services and applications they run, to leverage a chain of trust built on OCF's public key infrastructure (PKI) to ensure secure end-to-end encryption over IP. This unleashes lots of potential for organizations wishing to scale deployments without limitation, while maintaining simple and secure network control. For

example, a network initially built as part of a smart city scheme to control street lighting can be scaled up securely over time to add in other real-time public services, such as air quality or traffic monitoring. Permission-based access can be granted to different stakeholders, ensuring they can only see data from their own applications. We're excited by the possibilities presented by this platform and applaud Cascoda for leading the way with this development."

Bruno Johnson, CEO of Cascoda and OCF Member, adds: "By combining the unique advantages of OCF and Thread's low power wireless networking protocol into this now certified IoT platform, we have opened up the possibility for battery and energy-harvester powered devices to be uniquely addressable over the internet, while allowing them to benefit from the most advanced level of IoT security. As a result, we have eliminated the cost and complexity of the gateway. This opens up significant opportunities for those planning smart building and smart city infrastructure, where highly secure services can now be delivered through low power, IP-based mesh networks, covering large areas."

For more information on Open Connectivity Foundation, please visit: [www.openconnectivity.org](http://www.openconnectivity.org)

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**Notes to Editors:**

**About Open Connectivity Foundation**

The Open Connectivity Foundation (OCF) is a global, member-driven technical standards development organization. Its 500+ members are working to enable trust, interoperability, and secure communication between IP-connected IoT devices and services. It does this by fostering collaboration between stakeholders across the IoT ecosystem to deliver the freely-available ISO/IEC specifications, including the Secure IP Device Framework, its open-source reference implementation, and an industry-recognized certification program. This enables innovative new secure use cases and user experiences, reduces development costs, integration complexity and time to market, and simplifies regulatory compliance to IoT security and privacy baselines.

OCF members work across the enterprise layers of infrastructure, applications, and data. They collaborate to co-create and deploy systems in an open and standardized way, enabling devices to communicate over IP, regardless of form factor, operating system, service provider, transport technology, or ecosystem.

The vertical-agnostic technology has already seen significant adoption in the smart home sector and is now enabling the transition to secure, intelligent, Building Automation Systems (BAS) based on IP connectivity networks.

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### **About Thread Group**

Formed in 2013, the non-profit Thread Group is focused on making Thread the foundation for the internet of things in homes and commercial buildings. Built on open standards, Thread is a low power wireless networking protocol that enables direct, end-to-end, secure, and scalable connectivity between IoT devices, mobile devices, and the internet. And, because Thread is IP-based, it seamlessly integrates with many environments, apps, devices, and clouds. The Thread Group provides a rigorous certification program to ensure device interoperability and a positive user experience. Thread is backed by industry-leading companies including Amazon, Apple, Google/Nest, Lutron, Nordic Semiconductors, NXP Semiconductors, OSRAM, Qualcomm, Siemens, Silicon Labs, Somfy, and Yale Security.

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