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Oggetto : SECO announces the release of Clea OS with advanced IoT capabilities and expanded hardware support

*Testo del comunicato*

Vedi allegato



PRESS RELEASE

## SECO announces the release of Clea OS with advanced IoT capabilities and expanded hardware support

Arezzo, Italy, September 9, 2024 – SECO, a leading provider of end-to-end technological solutions for next-generation digital devices, today announced the release of Clea OS, an embedded Linux framework, as a new member of the Clea software stack. Clea OS marks a significant step towards the development of integrated IoT solutions, empowering developers and organizations to build and deploy innovative IoT infrastructure more efficiently and effectively.

### Introducing Clea OS: The Secure Foundation for IoT Edge Device Development & Operations

Clea OS is an industrial-grade embedded Linux operating system designed to simplify the development and maintenance of electronic products that demand high reliability and security. Seamlessly integrated with Clea's cloud components, Clea OS simplifies and integrates management of the development and deployment processes, device monitoring, and remote access, enabling designers to focus on accelerating product development.

Clea OS is compatible with nearly the entire SECO edge product catalog and supports both x86 and Arm® processors. It offers a robust networking and provisioning framework, prioritizes long-term operational reliability, and facilitates a streamlined developer workflow. Having been a core component of the Clea software suite for years, Clea OS is now available as a standalone operating system. This release allows a broader audience to benefit from and contribute to the advancements in running containers on connected devices.

### Key Updates and Features in Clea OS

Clea OS is meticulously designed to optimize DevOps for industrial embedded systems. It offers two distinct versions:

- **Minimal version:** Includes only the essential services needed for secure updates and reliable Docker operation on embedded devices.
- **Full version:** Pre-configured with all the tools necessary for testing and developing complex applications, including human-machine interface (HMI) systems.

Clea OS minimizes maintenance requirements through frequent updates and long-term support (LTS). It fully supports SECO hardware and facilitates continuous integration and delivery (CI/CD), ensuring a streamlined and efficient development process.



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Security is a top priority for Clea OS, continually integrating the latest kernel patches provided by microprocessor vendors and keeping its components up-to-date.

Clea OS includes all necessary components and services to facilitate reliable updates using an A/B partitioning layout scheme. This ensures that updates are applied safely and reliably, reducing downtime and maintaining system integrity. An out-of-the-box connection to the Clea IoT technology stack enables the management of devices remotely. This includes secure remote over-the-air (OTA) updates, device monitoring, and remote access.

Leveraging the Yocto Project, Clea OS allows developers to create custom Linux distributions tailored to specific requirements. This includes modifying recipes, adding custom layers, and configuring the system to meet unique application needs, enhancing the overall user experience. Clea OS is built on top of open-source software, offering flexibility that makes it easy to port to any hardware, avoiding vendor lock-in. It is highly customizable to meet specific product requirements.

This new release supports a broader range of hardware platforms, including devices based on NXP, Intel®, Qualcomm®, Mediatek, and Rockchip processors, the Raspberry Pi 4, as well as QEMU emulation for Arm®, Arm64, and x86 architectures. This extended compatibility allows developers to deploy Clea OS across various environments and hardware configurations, fostering greater flexibility and scalability in IoT infrastructure.

Future plans include introducing secure boot, software bill of materials (SBOM) generation across all SECO hardware solutions, and continuous vulnerability assessment for security posture, enhancing security compliance and protecting systems from the ground up.

*"Clea OS is a unique industrial grade Linux distribution that stands out for its unified compatibility with a wide range of processor architectures and silicon vendor support - from low-power Arm® SoC, to high-end x86 server platforms. Its added value lies in its seamless integration with the Clea suite, enabling the latest IoT and security functionalities right out of the box,"* said **Marco Sogli, Head of Global Software of SECO**.

*"We are working hard to bring an open, end-to-end IoT developer platform solution to the market and empowering developers and organizations to focus on their use cases rather than solving IoT technology challenges. We are proud to release the latest version of Clea OS, which goes in this exact direction,"* said **Davide Catani, Chief Technology Officer of SECO**.

SECO will participate at the **embedded world North America exhibition in Austin, Texas, from October 8 to 10**. Stop by booth #2315 to learn about Clea, including the latest Clea OS release, and SECO's range of IoT solutions.

Detailed information about Clea and Clea OS can be found at [clea.ai](https://clea.ai).



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### SECO

SECO (IOT.MI) is a high-tech company that develops and manufactures cutting-edge solutions for the digitalization of industrial products and processes. SECO's hardware and software offerings enable B2B companies to easily introduce edge computing, Internet of Things, data analytics, and artificial intelligence to their businesses. SECO's technology spans across multiple fields of application, serving more than 450 customers across sectors such as medical, industrial automation, fitness, vending, transportation, and many others. Through live monitoring and smart control of in-the-field devices, SECO solutions contribute to low environmental impact business operations via a more efficient use of resources.

For more information: <http://www.seco.com/>

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