wolfSSL and SYSGO have teamed up to integrate wolfSSL’s SSL/TLS crypto library into PikeOS real-time operating system (RTOS), which includes a type 1 hypervisor. With this integration, wolfSSL brings a FIPS crypto library to PikeOS’ EAL 3+ certified Separation Kernel in a pre-integrated bundle that ensures robust, proven Security for your project’s architecture.

**Benefits:** Sold as a bundle with SYSGO products:

1. Via the integration of wolfSSL SSL/TLS libraries
   - Customers can build a secure Root of Trust
   - The software gets more secure via additional signing and verification capabilities
   - Pre-integration into Secure Automotive Connectivity Platform (SACoP) and other Security solutions of SYSGO helps reducing time to market
   - Can also be used as add-on technology for ELinOS
   - The solution has low memory footprint and no impact on the system performance

2. Use of wolfcrypt as crypto library
   - SYSGO can support hardware and software supported cryptography

3. wolfMQTT
   - MQTT (Message Queuing Telemetry Transport) is a network protocol used in machine to machine communication
   - PikeOS POSIX partitions can run as MQTT GATEWAY thus reducing the footprint size (instead of using a full Linux) and having nevertheless the possibility to use TLS (via wolfSSL)
   - Security certification story add-on
   - Added cert artefacts for RTCA DO-178C level A certification in Avionics
   - In Automotive, supports MISRA-C capabilities
   - For government customers, wolfSSL has a strong history in FIPS 140-2, with upcoming Common Criteria support increasing the Security assurance

**INDUSTRIAL SECURITY**

We support critical embedded applications in Avionics, Automotive, Railway industries and beyond.

wolfSSL and SYSGO integrated technology supports:

- Elements of PikeOS
- Elements of ELinOS
- Secure Automotive Connectivity Platform (SACoP)
- Secure Railway Connectivity Platform (SeRCoP)

**MARKET-READY WITH A DIVERSE PORTFOLIO**

wolfSSL and SYSGO’s partnership brings pre-integrated Security technology with the following products:

From wolfSSL

- wolfSSL
- wolfMQTT
- wolfSSH
- wolfTPM
- wolfBoot

From SYSGO

- PikeOS
- ELinOS
- CODEO as IDE
- SACoP

**About wolfSSL** - wolfSSL focuses on providing lightweight and embedded Security solutions with an emphasis on speed, size, portability, features, and standards compliance, such as FIPS 140-2 and 140-3, RTCA DO-178C level A certification, and support for MISRA-C capabilities. wolfSSL supports industry standards up to the current TLS 1.3 and DTLS 1.2, is up to 20 times smaller than OpenSSL, offers a simple API, an OpenSSL compatibility layer, is backed by the robust wolfCrypt cryptography library, and much more.

**About SYSGO** - Founded in 1991, SYSGO became a trusted advisor for Embedded Operating Systems and is the European leader in hypervisor-based OS technology offering worldwide product life cycle support. We are well positioned to meet customer needs in all industries and offer tailor-made solutions with highest expectations in Safety & Security.