

Industrial Security for extremely critical embedded Applications

WOLFSSL AND SYSGO'S INTEGRATED SOLUTION

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.

PERFECT FOR YOUR EMBEDDED DEVICE

wolfSSL is a fully-featured, progressive, and easy-to-use SSL/TLS library perfect for resource-constrained systems. With a footprint size of 20-100kB, runtime memory usage of 1-36kB, and support for a large number of platforms, it is the perfect solution for securing your embedded project today.

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

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)

- 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

MARKET-READY WITH A DIVERSE PORTFOLIO

wolfSSL and SYSGO's partnership brings pre-integrated Secuity technology with the following products:

From wolfSSL From SYSGO

- wolfSSL
- wolfMQTT
- wolfSSH
- wolfTPM
- wolfBoot
- 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 hypervisorbased 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.