NetStaX™ EADK-SECURE

ENABLES CIP SECURITY FUNCTIONALITY FOR THE NETSTAX ETHERNET/IP ADAPTERS DEVELOPERS KIT

Benefits

- Tested with ODVA CT19
- Adds Secure Connections to the base EADK EtherNet/IP connections and messaging
- Prevents malicious EtherNet/IP communications and spying
- Pre-built package for easy integration of existing EADK applications
- Pre-tested with common Rockwell Automation and Siemens EtherNet/IP devices

Pyramid Solutions' NetStaX EADK-SECURE option adds CIP Security features to the base EADK Adapter Class stack and enables the development of Adapter devices that can support non-secure (standard) and secure EtherNet/IP connections.

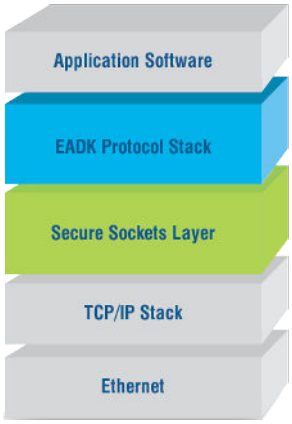
Without built-in security, your devices have no protection from bad actors attempting to interfere with or spy on EtherNet/IP communications. When you add CIP Security to your devices you ensure they will protect themselves from malicious CIP communications.

Built as a code overlay to base EADK stack, you will have the ability to build base EADK products as well as the devices that support CIP Security. The EADK-SECURE option can be purchased as a package with the EADK or as an upgrade to a compatible EADK version.

The EADK-SECURE option comes with 12 months of download access to the latest version and built in phone / email tech support.

Additional services options are available to assist you with EtherNet/IP requirements, design, EADK and EADK-SECURE stack integration, pre-conformance testing and more.

Our experienced developers created EADK-Secure to ensure proper functionality and compatibility with EtherNet/IP conformance.



Features Include:

Concurrent Secure and Non-Secure Communications

CIP Security Confidentiality Profile

- Device Authentication
- Data Integrity
- Data Confidentiality

CIP Messaging Over TLS

- UCMM Client
- UCMM Server
- Class 3 Originator
- Class 3 Target

CIP IO Over DTLS

- Class 1 Target

Required CIP Security Objects

- CIP Security Object Revision 4
- EtherNet/IP Security Object Revision 8
- Certificate Management Object Rev 1
- File Object Revision 3
- TCP/IP Object Revision 4

ODVA Conformance

- Tested with ODVA CT19

Security Configuration

- CIP object interface through the network
- Through the API for vendor-specific configuration support
- Platform-specific non-volatile storage through platform interface

Security Related API

- Security configuration by application
- Device private key retrieval

SSL Library Interface

- Generic interface allows for porting to the specific SSL library being used
- Example SSL interface implementations are provided for the following SSL Libraries: *
  - » WolfSSL and mbedTLS
    - – Linux
    - – Windows

Customer is responsible for purchasing and licensing the chosen SSL Library which is not included

PYRAMID SOLUTIONS

CIP Security™