NetStaX™ ESDK-SECURE

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

Benefits

- Prevents malicious EtherNet/IP communications and spying
- CT20 compliant
- Pre-built package for easy integration of existing ESDK applications
- Pre-tested against common Rockwell Automation and Siemens EtherNet/IP devices

PYRAMID SOLUTIONS

Pyramid Solutions' NetStaX ESDK-Secure is an easy to enable security feature set that adds CIP Security functionality to your EtherNet/IP devices.

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

Built as a simple code overlay, ESDK-Secure can be added to any compatible ESDK. In addition to CIP Security functionally, ESDK-Secure is packaged with 12 months of download access and built in support.

CIP Security

This software solution created by our experienced developers has been thoroughly tested 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 Originator
- Class 1 Target

Required CIP Security Objects

- CIP Security Object
- EtherNet/IP Security Object
- Certificate Management Object
- File Object
- TCP/IP Object
- LLDP Object

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
- Secure messaging flag for request and connection origination

SSL Library Interface

- Generic interface allows for porting to the specific SSL library being used
- SSL interface implementations provided for the following SSL libraries (SSL Libraries not included and must be licensed separately from the 3rd party licensor)
  - » Samples provided for WolfSSL and mbedTLS
    - – Linux
    - – Windows