Benefits

- High performance
- Out-of-the-box examples
- Simplified porting
- Minimized resources
- Rich set of features
- Scalable
- Secure

EIPS Contains

- Example scanner class application (binary and source provided)
- EIPS Scanner DLLs (32 & 64bit) with C++ function call API, C# API for .NET applications, and legacy COM API for EIPS stack with Windows and VB6 applications
- EIPS Getting Started and Software Reference manuals
- Sample STC file for pre-conformance testing
- Application notes with code samples
- Sample EDS file

NetStaX™ EIPS

ETHERNET/IP SCANNER DLL KIT

Pyramid Solutions' NetStaX™ EtherNet/IP Scanner DLL Kit (EIPS) allows you to quickly introduce secure EtherNet/IP Scanner Class functionality to your PC-based products.

It provides I/O server, I/O client, message server, and message client functionality and interfaces with your product's application software and socket level TCP/IP interface. EIPS also provides an Application Programming Interface (API) for using Common Industrial Protocol (CIP) via TCP/IP.

Rest assured that your connections will be secured with EIPS. It adds secure connection capabilities that will allow your product to communicate with other devices that support conformant CIP Security EtherNet/IP functionality. Secure connectivity prevents bad actors from attempting to spoof connections to your products and spoofing devices on your network. The EIPS stack seamlessly supports standard and secure EtherNet/IP connections based on the network configuration.*

This protocol stack can originate a variety of I/O connections based on the user connection configuration set via the application or the network. The EIPS connection configuration object (CCO) provides the interface necessary for software tools to configure connections across the network. Users can configure the EIPS Scanner through Rockwell Automation's RSNetWorx™ for EtherNet/IP or other devices supporting the CCO.

Features

Resource Utilization and Management

- All resources initialized at startup
- No dynamic memory or thread allocation
- Stack runs on a single thread
- Dynamic registration of additional objects for client application processing

EtherNet/IP Compatibility

- ODVA CT20 Conformant
- Enables EtherNet/IP Scanner Class functionality
- UCMM (unconnected) messaging client and server
- Class 3 (connected) messaging client and server
- Class 1 (I/O) connection client and server
- CIP Security*

Platform Compatibility

- Compatible with Microsoft Windows 7 through 11

- 32 and 64 bit DLLs included

Supported/Included Objects

- Message router
- Connection manager
- Port
- DLR**
- CIP Sync**
- Modbus translator
- Ethernet link
- TCP/IP
- Connection configuration object
- Assembly
- Identity
- Custom objects
- File object
- Class 0 support
- Energy object
- LLDP