

# NetStax EtherNet/IP™ Quick Start Plus – 20 Hours EADK

Many new customers seeking to implement the EtherNet Industrial Protocol into their product offerings for the first time are also searching for in-depth introductory support that targets their engineering teams.

The Quick Start Plus EADK Package includes 20 hours of engineering support for your team to help them implement the protocol into their development project.

## Protocol Education

Support includes an initial session focused on adapter functionality that is an engineering-level walkthrough of the protocol and a review of all required objects of the protocol including:

### REQUIRED OBJECTS

- Identity
- Message Router
- Connection Manager
- Assembly Objects
- File Object
- TCP/IP
- Ethernet Link
- Port
- QOS
- LLDP

### OPTIONAL OBJECTS

- DLR
- CIP Sync
- CIP Energy Objects
- Rockwell PCCC
- Connection Configuration Object
- Custom Objects

### NETSTAX CIP-SECURITY OPTION

- CIP Security Object
- EtherNet/IP Security Object
- Certificate Management Object
- EtherNet/IP Confidentiality Profile
- Push Model
- Secure Connections and Messaging

Review of connections and messaging types coupled with interactive discussions with attendees ensures that there is a solid understanding of the differences between the connection types and a familiarity of when to use each type.

## CONNECTIONS AND MESSAGING

- Class 1 IO/Implicit Connections
- Class 3 Explicit Connections
- UCMM Explicit Messaging
- List Identity















































**NetStax™**

## GET SUPPORT TODAY

To learn more or receive engineering support for your team, go to [www.pyramidsolutions.com/contact](http://www.pyramidsolutions.com/contact).

## REVIEW SOURCE CODE EXAMPLE DOCUMENTS

Attendees will also gain valuable knowledge of the extensive source code examples and guide manuals:

 Adapter Demo Manual.pdf	 EIP0023 - Dynamic Assembly Support.pdf	 EIP0008 - Originate Class3 Connection.pdf
 Adapter Reference Manual.pdf	 EIP0024 - LLDP.pdf	 EIP0009 - DebugSocketApp.pdf
 C# API Support.pdf	 ESDK Architecture Guide.pdf	 EIP0010 - Multiple Request Service.pdf
 CIP Safety Extension Reference Manual.pdf	 ESDK-Secure Reference Manual.pdf	 EIP0011 - Identity Object Information.pdf
 CIP-Modbus Support.pdf	 Getting Started - Adapter.pdf	 EIP0012 - Application Objects.pdf
 EADK Architecture Guide.pdf	 Getting Started - Scanner.pdf	 EIP0013 - Application Verified Connections.pdf
 EADK-Secure Reference Manual.pdf	 Initializing the EtherNet/IP Stack.pdf	 EIP0014 - List Identity.pdf
 EIP0001 - Single Logix Read & Write using Unconnected Messaging.pdf	 LLDP Support.pdf	 EIP0015 - Backplane Port Support.pdf
 EIP0002 - Multiple Logix Reads & Writes using Unconnected Messaging.pdf	 Porting Guide.pdf	 EIP0016 - Saving Originated Connections.pdf
 EIP0003 - PCCC Messaging.pdf	 S_EIP0001 - CIP Security Unconnected Messaging Client.pdf	 EIP0017 - Originate Redundant Class1 Connections.pdf
 EIP0004 - File Object Support.pdf	 S_EIP0002 - CIP Security Explicit Messaging Server.pdf	 EIP0018 - Originate Class1 Connection Using EPATH.pdf
 EIP0005 - Unconnected Messaging.pdf	 S_EIP0003 - CIP Security Target Class1 Connection.pdf	 EIP0019 - Target Variable Class1 Connection.pdf
 EIP0006 - Target Class1 Connection.pdf	 S_EIP0004 - CIP Security Originate Class1 Connection.pdf	 EIP0020 - Data Table Reads and Writes.pdf
 EIP0007 - Originate Class1 Connection.pdf	 S_EIP0005 - CIP Security Originate Class3 Connection.pdf	 EIP0021 - CIP Energy Objects.pdf
 EIP0008 - Originate Class3 Connection.pdf	 Scanner Demo Manual.pdf	 EIP0022_O - Originate Class1 Connections to Multiple Adapters.pdf
	 Scanner Reference Manual.pdf	

## NETSTAX PRODUCT TOOLS DEMONSTRATION

A demonstration of some of the NetStax protocol tools provided with the SDKs so attendees can test connectivity between scanners and adapters following any coding changes.

- ▶ **NetStax Demo Application** – New users get acquainted with the EtherNet/IP stack interface and its most basic functions.
- ▶ **EtherNet/IP Scanner Simulator (EIPScan)** – Learn how to connect to, test and debug EtherNet/IP products, perform end-of-line testing and field testing, and how to demonstrate your EtherNet/IP products to end customers. EIPScan also provides both scanner and adapter simulation capabilities by allowing assembly instances to be registered in the tool that can be connected to by other devices.

EIPScan is a user-friendly PC/Windows™ application that allows you to test EtherNet/IP messaging and connections on a standard PC or laptop. No additional software or hardware is required.

**NetStax Porting Guide** – Gain technical knowledge on how to apply the SDK to your target platform such as Linux or an RTOS platform through example files and guides. NetStax is agnostic to any platform.

## ADDITIONAL OFFERINGS

- ▶ **NetStaX QuickStart Plus ESDK** is a 40-hour engineering support option offering a deeper dive of both scanner and adapter functionality and includes engineering support hours to assist teams while they implement the protocol into their products.
- ▶ **NetStaX QuickStart** is a four-hour engineering support option focused on the essentials of the required objects as mandated by ODVA.

## ABOUT PYRAMID SOLUTIONS

Headquartered in metro Detroit, Pyramid Solutions simplifies complex systems with intelligent automation by leveraging best-in-class technology to solve big problems—from process needs to software, industrial device management, and more.