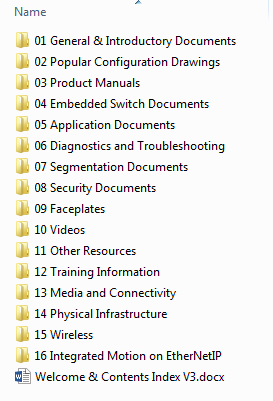
**Welcome to the EtherNet/IP Toolkit!**

**V3**

This toolkit includes resources you can use for all phases of your EtherNet/IP implementation (Design, Configuration, Commissioning, and Troubleshooting).

Now includes content from Rockwell Automation Encompass Partner Panduit.

Here are the contents of the Toolkit…



**Contents of Each Folder**

**01 General & Introductory Documents**

KB 57174 [Ethernet/IP Book of Knowledge](https://rockwellautomation.custhelp.com/app/answers/detail/a_id/57174/page/1)

(All in one PPT based reference)

ENET-TD001E-EN-P [Converged Plantwide Ethernet (CPwE) Design & Implementation](http://literature.rockwellautomation.com/idc/groups/literature/documents/td/enet-td001_-en-p.pdf)

Guide (DIG) (The authoritative source on the topic)

ENET-RM001 [The OEM Guide to Networking (ENET-RM001)](http://literature.rockwellautomation.com/idc/groups/literature/documents/rm/enet-rm001_-en-p.pdf)

ENET-WP024 [Guidelines for Designing an IT-Ready Machine (ENET-WP024)](http://literature.rockwellautomation.com/idc/groups/literature/documents/wp/enet-wp024_-en-p.pdf)

1783-TD001 [Stratix Ethernet Device Specifications Technical Data (1783-TD001)](http://literature.rockwellautomation.com/idc/groups/literature/documents/td/1783-td001_-en-p.pdf)

ENET-TD011 [Migrating Legacy IACS Networks to a Converged Plantwide Ethernet Architecture](http://literature.rockwellautomation.com/idc/groups/literature/documents/td/enet-td011_-en-p.pdf)

ENET-TD005 [Deploying the Resilient Ethernet Protocol (REP) in a Converged](http://literature.rockwellautomation.com/idc/groups/literature/documents/td/enet-td005_-en-p.pdf)

[Plantwide Ethernet System (CPwE) Design Guide](http://literature.rockwellautomation.com/idc/groups/literature/documents/td/enet-td005_-en-p.pdf)

ENET-RM002 [Ethernet Design Considerations Reference Manual (Overview document)](http://literature.rockwellautomation.com/idc/groups/literature/documents/rm/enet-rm002_-en-p.pdf)

ENET-WP022 [Top 10 Recommendations for Plantwide EtherNet/IP Deployments](http://literature.rockwellautomation.com/idc/groups/literature/documents/wp/enet-wp022_-en-e.pdf)

ENET-TD010 [Resilient Converged Plantwide Ethernet Architecture (ENET-TD010)](http://literature.rockwellautomation.com/idc/groups/literature/documents/td/enet-td010_-en-p.pdf)

ENET-QR001 [Stratix Switch Reference Chart](http://literature.rockwellautomation.com/idc/groups/literature/documents/qr/enet-qr001_-en-e.pdf)

**02 Popular Configuration Drawings**

IASIMP-QR029 [Stratix/Infrastructure Product Family Quick Ref Drawing](http://literature.rockwellautomation.com/idc/groups/literature/documents/qr/iasimp-qr029_-en-p.pdf)

[(Introductory overview of how to segment and maximize](http://literature.rockwellautomation.com/idc/groups/literature/documents/qr/iasimp-qr029_-en-p.pdf)

[Security on your EtherNet/IP network)](http://literature.rockwellautomation.com/idc/groups/literature/documents/qr/iasimp-qr029_-en-p.pdf)

IASIMP-QR030 [Stratix/Infrastructure Product Family NAT/VLAN Quick](http://literature.rockwellautomation.com/idc/groups/literature/documents/qr/iasimp-qr030_-en-p.pdf)

[Reference Drawings](http://literature.rockwellautomation.com/idc/groups/literature/documents/qr/iasimp-qr030_-en-p.pdf)

[(Use cases for NAT and VLAN capabilities of the products)](http://literature.rockwellautomation.com/idc/groups/literature/documents/qr/iasimp-qr030_-en-p.pdf)

PCD0001 [(Panduit) Overview Drawing of Industrial Switch Deployment](http://www.panduit.com/ccurl/833/630/industrial-switch-deployment-popular-configuration-drawing-pcd001.pdf)

PCD0002 [(Panduit) Deploying a Stratix 5700 Industrial Ethernet Switch](http://www.panduit.com/ccurl/915/643/stratix-5700-industrial-ethernet-switch-on-machine-pcd002.pdf)

[on Machine](http://www.panduit.com/ccurl/915/643/stratix-5700-industrial-ethernet-switch-on-machine-pcd002.pdf)

PCD0003 [(Panduit) Fiber Switch Ring (REP) Deployment for High Availability](http://www.panduit.com/ccurl/166/514/fiber-switch-ring-deployment-allen-bradley-stratix-pcd003.pdf)

**03 Product Manuals**

1783-UM008 [1783-NATR Configurable NAT Router User Manual](http://literature.rockwellautomation.com/idc/groups/literature/documents/um/1783-um008_-en-p.pdf)

ENET-UM004 [EtherNet/IP Communication Modules in Logix5000 Control Systems User Manual](http://literature.rockwellautomation.com/idc/groups/literature/documents/um/enet-um004_-en-p.pdf)

ENET-IN002 [EtherNet/IP Modules Installation Instructions](http://literature.rockwellautomation.com/idc/groups/literature/documents/in/enet-in002_-en-p.pdf)

ENET-UM001 [EtherNet/IP Network Configuration User Manual (User Manual for the entire family of EtherNet/IP Modules)](http://literature.rockwellautomation.com/idc/groups/literature/documents/um/enet-um001_-en-p.pdf)

1783-UM006 [Stratix 5100 Wireless Access Point User Manual](http://literature.rockwellautomation.com/idc/groups/literature/documents/um/1783-um006_-en-p.pdf)

1783-UM005 [Stratix 5900 Services Router User Manual](http://literature.rockwellautomation.com/idc/groups/literature/documents/um/1783-um005_-en-p.pdf)

1783-UM010 [Stratix 5950 Security Appliance User Manual](http://literature.rockwellautomation.com/idc/groups/literature/documents/um/1783-um010_-en-p.pdf)

1783-UM007 [Stratix Managed Switches User Manual](http://literature.rockwellautomation.com/idc/groups/literature/documents/um/1783-um007_-en-p.pdf)

**04 Embedded Switch Documents**

ENET-AP005F-EN-P [EtherNet/IP Embedded Switch Technology App Guide](http://literature.rockwellautomation.com/idc/groups/literature/documents/ap/enet-ap005_-en-p.pdf)

PUB00316R0 [ODVA Guidelines for Using Device Level Ring (DLR) with EtherNet/IP](https://www.odva.org/Portals/0/Library/Publications_Numbered/PUB00316R0_Guidelines_for_Using_Device_Level_Ring_%28DLR%29_with_EtherNetIP.pdf" \t "_blank)

**05 Application Documents**

ENET-WP027 [CIP Motion: Performance without Compromise](http://literature.rockwellautomation.com/idc/groups/literature/documents/wp/enet-wp027_-en-e.pdf)

ENET-AT002 [EtherNet/IP Socket Interface Application Technique](http://literature.rockwellautomation.com/idc/groups/literature/documents/at/enet-at002_-en-p.pdf)

ENET-AT001 [EtherNet/IP QuickConnect Application Technique](http://literature.rockwellautomation.com/idc/groups/literature/documents/at/enet-at001_-en-p.pdf)

IA-AT003 [Integrated Architecture and CIP Sync Configuration](http://literature.rockwellautomation.com/idc/groups/literature/documents/at/ia-at003_-en-p.pdf)

WP-16 [(Panduit) Introduction to Micro Data Center White Paper](http://www.panduit.com/ccurl/839/798/UPISolutionIA-MDC_WP_WW-CPWP-16_ENG,0.pdf)

ENET-WP030 [Time Synchronization Protocol/1756-TIME Module](http://literature.rockwellautomation.com/idc/groups/literature/documents/wp/enet-wp030_-en-e.pdf)

**06 Diagnostics and Troubleshooting**

KB [41068 Setting Ethernet Port Speed and Duplex](https://rockwellautomation.custhelp.com/app/answers/detail/a_id/41068)

KB 29328 [Ethernet Alignment and FCS Errors](https://rockwellautomation.custhelp.com/app/answers/detail/a_id/29328)

KB 57174 [EBoK\_ENIP\_Troubleshooting\_Jan2016](https://rockwellautomation.custhelp.com/app/answers/detail/a_id/57174)

KB 67297 [Capturing Diagnostic Webpages](https://rockwellautomation.custhelp.com/app/answers/detail/a_id/67297)

KB 66326 [1756-ENXXX V3.0 Performance Increase FAQ](https://rockwellautomation.custhelp.com/app/answers/detail/a_id/66326)

ENET-AT003 [Troubleshoot EtherNet/IP Networks App Technique](http://literature.rockwellautomation.com/idc/groups/literature/documents/at/enet-at003_-en-p.pdf)

Also included are several Knowledgebase Tech Notes with useful diagnostic and troubleshooting information

**07 Segmentation Documents**

9300-IN001 [9300-ENA Installation Instructions](http://literature.rockwellautomation.com/idc/groups/literature/documents/in/9300-in001_-en-p.pdf)

GMSP-PP001 [9300-ENA Network Address Translation Device Product Profile](http://literature.rockwellautomation.com/idc/groups/literature/documents/pp/gmsp-pp001_-en-p.pdf)

ENET-TD007 [Deploying Network Address Translation (NAT) within a CPwE Architecture](http://literature.rockwellautomation.com/idc/groups/literature/documents/td/enet-td007_-en-p.pdf)

ENET-WP032 [Stratix 5700 Network Address Translation White Paper](http://literature.rockwellautomation.com/idc/groups/literature/documents/wp/enet-wp032_-en-e.pdf)

CPAT13--WW [(Panduit) Scaling the Plant Network White Paper](http://www.panduit.com/ccurl/532/386/scaling-the-plant-network-zone-architecture-white-paper.pdf)

IASIMP-QS038 [Stratix 5700 Network Address Translation Quick Start](http://literature.rockwellautomation.com/idc/groups/literature/documents/qs/iasimp-qs038_-en-p.pdf)

ENET-TD007 [Deploying Network Address Translation (NAT) within a CPwE Architecture](http://literature.rockwellautomation.com/idc/groups/literature/documents/td/enet-td007_-en-p.pdf)

**08 Security Documents**

ENET-UM003 [1756-EN2TSC User Manual](http://literature.rockwellautomation.com/idc/groups/literature/documents/um/enet-um003_-en-p.pdf)

ENET-WP031 [Design Considerations for Securing Industrial Automation](http://literature.rockwellautomation.com/idc/groups/literature/documents/wp/enet-wp031_-en-e.pdf)

[and Control System Networks](http://literature.rockwellautomation.com/idc/groups/literature/documents/wp/enet-wp031_-en-e.pdf)

SECUR-AT001 [Industrial Security Best Practices](http://literature.rockwellautomation.com/idc/groups/literature/documents/at/secur-at001_-en-e.pdf)

ENET-WP025 [Scalable Secure Remote Access Solutions for OEMs](http://literature.rockwellautomation.com/idc/groups/literature/documents/wp/enet-wp025_-en-p.pdf)

ENET-TD012 [Site-to-site VPN to a Converged Plantwide Ethernet Architecture)](http://literature.rockwellautomation.com/idc/groups/literature/documents/td/enet-td012_-en-p.pdf)

**09 Faceplates**

These Faceplate/AOI sets make use of these existing EtherNet/IP product tags with code for your controller and graphics for your HMI. Simply install and configure it for your application using the straightforward instructions included in the install file.

By implementing these pre-programmed, pre-tested Faceplate/AOI sets for EtherNet/IP the user can configure, commission and operate devices without the need to write a single line of code. The faceplates also include many diagnostic functions to assist the maintenance and troubleshooting of your system.

[EtherNet/IP DLR Network Diagnostics Faceplate v3.02](http://search.rockwellautomation.com/search?client=samplecode&oe=UTF-8&ie=UTF-8&output=xml_no_dtd&proxystylesheet=samplecode&site=sample_code&getfields=*&lang=en&hl=en&sort=date:D:L:d1&wc=200&wc_mc=1&ud=1&filter=0&q=dlr)

[ME-SE Faceplates/AOIs v7.1 for Stratix 8000 Switches](http://search.rockwellautomation.com/search?client=samplecode&oe=UTF-8&ie=UTF-8&output=xml_no_dtd&proxystylesheet=samplecode&site=sample_code&getfields=*&lang=en&hl=en&sort=date:D:L:d1&wc=200&wc_mc=1&ud=1&filter=0&q=8000)

[ME-SE Faceplates AOIs v1.04 for Stratix 5400 switches](http://search.rockwellautomation.com/search?client=samplecode&oe=UTF-8&ie=UTF-8&output=xml_no_dtd&proxystylesheet=samplecode&site=sample_code&getfields=*&lang=en&hl=en&sort=date:D:L:d1&wc=200&wc_mc=1&ud=1&filter=0&q=5400)

[ME-SE Faceplates/AOIs v4.01 for Stratix 5700 switches](http://search.rockwellautomation.com/search?client=samplecode&oe=UTF-8&ie=UTF-8&output=xml_no_dtd&proxystylesheet=samplecode&site=sample_code&getfields=*&lang=en&hl=en&sort=date:D:L:d1&wc=200&wc_mc=1&ud=1&filter=0&q=5700)

[Stratix 5100 Wireless Access Point Faceplate](http://search.rockwellautomation.com/search?client=samplecode&oe=UTF-8&ie=UTF-8&output=xml_no_dtd&proxystylesheet=samplecode&site=sample_code&getfields=*&lang=en&hl=en&sort=date:D:L:d1&wc=200&wc_mc=1&ud=1&filter=0&q=5100)

[Stratix 5410 Faceplate for Factory Talk View SE and ME](http://search.rockwellautomation.com/search?client=samplecode&oe=UTF-8&ie=UTF-8&output=xml_no_dtd&proxystylesheet=samplecode&site=sample_code&getfields=*&lang=en&hl=en&sort=date:D:L:d1&wc=200&wc_mc=1&ud=1&filter=0&q=5410)

**10 Videos**

How to videos for setting up NAT on the Stratix 5700.

**11 Other Resources**

This section contains the following tools:

IAB Info Advanced Communication Details in IAB

(Panduit Doc) Design Tool Wizard Landing Page

**12 Training Information**

GMST10-PP689 [IMINS2: Managing Industrial Networks for Manufacturing with Cisco Technologies](http://literature.rockwellautomation.com/idc/groups/literature/documents/pp/gmst10-pp689_-en-e.pdf)

GMST10-PP648 [Training Course Description: IMINS: Managing Industrial Networks with Cisco](http://literature.rockwellautomation.com/idc/groups/literature/documents/pp/gmst10-pp648_-en-e.pdf)

GMST10-PP681 [Training Course Description: CCP182: IoT Essentials for an OT Professional](http://literature.rockwellautomation.com/idc/groups/literature/documents/pp/gmst10-pp681_-en-p.pdf)

GMST10-PP561 [Training Course Description: CCP180: EtherNet/IP Fundamentals and Troubleshoot](http://literature.rockwellautomation.com/idc/groups/literature/documents/pp/gmst10-pp561_-en-e.pdf)

GMST10-PP557 [Training Course Description: CCP179: Stratix 5700 Switch](http://literature.rockwellautomation.com/idc/groups/literature/documents/pp/gmst10-pp557_-en-e.pdf) Configuration

[Training Guide: Networks](http://literature.rockwellautomation.com/idc/groups/literature/documents/pp/gmst10-pp291_-en-e.pdf" \t "_blank)

**13 Media and Connectivity**

FBSP63--WW-ENG [(Panduit) IndustrialNet™ Rail Mount Patching Solutions](http://www.panduit.com/heiler/SpecificationSheets/D-FBSP63--WW-ENG-IndNetDINRailMount-W.pdf)

FBSP57--WW-ENG [(Panduit) Opti-Core® Dielectric Conduited Fiber Cable](http://www.panduit.com/heiler/SpecificationSheets/D-FBSP57--WW-ENG-DielectricCondFibCabl-W.pdf)

1585-TD001 [Ethernet Media Tech Data](http://literature.rockwellautomation.com/idc/groups/literature/documents/td/1585-td001_-en-p.pdf" \t "_blank)

[ENET-TD003A](http://literature.rockwellautomation.com/idc/groups/literature/documents/td/1585-td001_-en-p.pdf" \t "_blank) [[Fiber Optic Infrastructure Application Guide](http://literature.rockwellautomation.com/idc/groups/literature/documents/td/1585-td001_-en-p.pdf" \t "_blank)](http://www.panduit.com/ccurl/150/459/FiberOpAppGuide2011_GU_ENET-TD003A-EN-E_ENG,0.pdf)

ENET-WP007 [Guidance for Selecting Cables for EtherNet/IP Networks](http://literature.rockwellautomation.com/idc/groups/literature/documents/wp/enet-wp007_-en-p.pdf)

1585-BR001B [Industrial Ethernet Media](http://literature.rockwellautomation.com/idc/groups/literature/documents/br/1585-br001_-en-p.pdf)

PN557 [(Panduit) IndustrialNet DIN Rail Mount Copper Patch Panel](http://www.panduit.com/heiler/SpecificationSheets/D-COSP309--WW-ENG-IndNet8-PortDINRailMnt-W.pdf)

(Panduit Doc) [Network Infrastructure Color-Coding Technology Brief](http://www.panduit.com/heiler/TechnologyBriefs/Network%20Infrastructure%20Color-Coding%20Technology%20Brief.pdf)

FS036B [(Panduit) LC Crimp & Cleave Fiber Optic Connectors](http://www.panduit.com/heiler/InstallInstructions/N-FBPCFTermInstrucFS036B--001B--ENG.pdf.pdf)

FBSP51--WW-ENG [(Panduit) Opti-Core® Industrial Net™ PCF Cable](http://www.panduit.com/heiler/SpecificationSheets/D-FBSP51--WW-ENG-OptiCoreIndNetPCFCbl-W.pdf)

(Panduit Doc) [Polymer Coated Fiber Cable (PCF)](http://www.panduit.com/heiler/TechnicalReferences/D-FBTR106--WW-ENG-PCFCableTR106.pdf)

ODVA pub. 148 [ODVA EtherNet/IP Media Planning and Installation Manual](http://www.odva.org/Portals/0/Library/Publications_Numbered/PUB00148R0_EtherNetIP_Media_Planning_and_Installation_Manual.pdf)

KB60492 [Stratix Switch Fiber Connection](https://rockwellautomation.custhelp.com/app/answers/detail/a_id/60492)Facts

WW-COSP182 ([Panduit)TX7000™ Shielded Marine Copper Cable – S/FTP](http://www.panduit.com/ccurl/34/870/Spec%20Sheet%20TX7000%20Shielded%20Marine%20Cable%20WW%20COSP182%20039628,0.pdf)

(Panduit Doc) [Marine Environment Copper Cabling Solutions](http://www.panduit.com/heiler/TechnologyBriefs/TX7000%20Shielded%20Marine%20Copper%20Cable%20Technology%20Brief.pdf)

**14 Physical Infrastructure**

COSP309—WW [IndustrialNet Rail Mount Copper Patching Solution](http://www.panduit.com/heiler/SpecificationSheets/D-FBSP63--WW-ENG-IndNetDINRailMount-W.pdf)

ZCCB04—SA [(Panduit) Integrated Network Zone System](http://www.panduit.com/heiler/ProductBulletins/D-ZCCB04--SA-UKE-IntegratedNetworkZoneSys-W.pdf)

ENCOMP-PP001\_-EN-E Blockout & Lock-in Devices

ENET-TD003\_-EN-E Fiber Optic Infrastructure Application Guide

ENET-WP012 [Location Based Services within a Converged Plantwide Ethernet Architecture](http://literature.rockwellautomation.com/idc/groups/literature/documents/wp/enet-wp012_-en-p.pdf)

CPCB108—SA [(Panduit) Industrial Automation Brochure](http://www.panduit.com/ccurl/38/141/panduit-industrial-automation-brochure-092415.pdf)

N-ZCZ11NCM633  [(Panduit) Integrated Network Zone System Z11N](http://www.panduit.com/heiler/InstallInstructions/N-ZCZ11NCM633--100A--ENG.pdf)

RKSP99—WW [(Panduit) Pre-Configured Micro Data Center](http://www.panduit.com/en/solutions/industrial-solutions/offerings/micro-data-center)

GRFL02--SA [(Panduit) StructuredGround™Telecommunications Bonding](http://www.panduit.com/heiler/Flyers/D-GRFL02--SA-ENG-StructuredGrndTelecm-W.pdf)

RKCB29--SA [(Panduit) Wyr-Grid® Overhead Cable Tray Routing System](http://www.panduit.com/heiler/SpecificationSheets/D-FRSP13--WW-ENG-WyrGridOvrhdCbleTray-W.pdf)

**15. *Integrated Motion on EtherNet/IP***

ENET-WP035 [Design and Implementation Guide for Using Integrated Motion on EtherNet/IP](http://literature.rockwellautomation.com/idc/groups/literature/documents/wp/enet-wp035_-en-p.pdf)

MOTION-UM003 [Integrated Motion on EtherNet/IP Network Configuration and Startup User Manual](http://literature.rockwellautomation.com/idc/groups/literature/documents/um/motion-um003_-en-p.pdf)

MOTION-RM003 [Integrated Motion on EtherNet/IP Network Reference Manual](http://literature.rockwellautomation.com/idc/groups/literature/documents/rm/motion-rm003_-en-p.pdf)  IASIMP-QR019 [Integrated Motion on EtherNet/IP Example Architecture Drawings](http://literature.rockwellautomation.com/idc/groups/literature/documents/qr/iasimp-qr019_-en-p.pdf)

**16.Wireless**

ENET-TD006 [Deploying Wireless LAN Technology within a CPwE Architecture Design Guide](http://literature.rockwellautomation.com/idc/groups/literature/documents/td/enet-td006_-en-p.pdf)

ENET-WP014 [Implementing CIP Sync with 802.11 Wireless Technology](http://literature.rockwellautomation.com/idc/groups/literature/documents/wp/enet-wp014_-en-p.pdf)

ENET-WP012 [Location Based Services](http://literature.rockwellautomation.com/idc/groups/literature/documents/wp/enet-wp012_-en-p.pdf)

IASIMP-QR033 [Wi-Fi for Industrial Applications](http://literature.rockwellautomation.com/idc/groups/literature/documents/qr/iasimp-qr033_-en-e.pdf)

**Links to Further Resources**

For the main Allen-Bradley product website go to

<http://ab.rockwellautomation.com/>

For more literature, go to the Literature Library at

<http://literature.rockwellautomation.com/idc/groups/public/documents/webassets/browse_category.hcst>

For Select, Design and Configure resources including Integrated Architecture Tools and Product Drawings go to

<http://www.rockwellautomation.com/rockwellautomation/support/overview.page>

For more information on training, go to

<http://www.rockwellautomation.com/rockwellautomation/services/training/curriculum/networks.page?#/tab1>

For the Industrial IP Advantage website go to…

<http://www.industrial-ip.org/>