

LISTEN.
THINK.
SOLVE.®

Integrating Ethernet- Enabled Motor Control and Process Control Systems

Goals of Lab

- You will learn how to use IntelliCENTER software to connect to your CENTERLINE MCC via EtherNet/IP, and how to monitor and configure devices such as solid-state motor overloads, Smart Motor Controllers, and PowerFlex drives.
- You will learn how to extend the capabilities of your solid-state motor overloads by integrating them into your Integrated Architecture platform with pre-engineered Add-On-Instructions (AOI) and Faceplates
- You will also learn about the EtherNet/IP Communications Auxiliary module for E3 Plus overload relays and how to use it to retrofit your existing DeviceNet E3 Plus motor overloads onto Ethernet.
- This lab exercise demonstrates the concept of using EtherNet/IP enabled motor control to extend visibility throughout your enterprise and ease integration into your architecture with RSLogix 5000 software.

What You'll Do

- You will see how easy it is to monitor and configure devices in a EtherNet/IP MCC using IntelliCENTER Software
- You will see how easy it is to integrate Intelligent Motor Control devices into the Rockwell Automation Integrated Architecture
 - Add an E1 Plus AOI to your RSLogix 5000 project, and integrate it with the FactoryTalk View Machine Edition E1 Plus Faceplate.
- You will experience retrofitting a DeviceNet E3 Plus onto Ethernet

The Equipment

- ControlLogix (CL41) Demo Box (03P303A):
- IMC Demo Box (11P012A):
 - PowerFlex 755
 - E1 Plus
 - E3 Plus
- Computer

Why EtherNet/IP Matters

Integrate

- Simplify start-up with a single programming environment for Logix controllers, soft starters, variable speed drives, overload relays & now CENTERLINE MCCs
- Reduce programming time and errors with automatic tag generation
- Configuration at the same time to help eliminate errors associated with redundant programming
- Configuration is stored in the controller to simplify device replacement

Manage

- Seamlessly integrate production data from devices and your business systems - removing a network layer
- Leverages your already-in-place IT support infrastructure
- Easy to startup & maintain with enhanced remote access
- Maximize maintainability without sacrificing control efficiency or information access & visibility

Expand

- Future-proof your installation with a network that the rest of the world is developing features for.
- Access to component web pages information, email alerts, etc
- Easy to add voice, video, remote services, email
- Uses established design practices for a less complex network with fewer parts

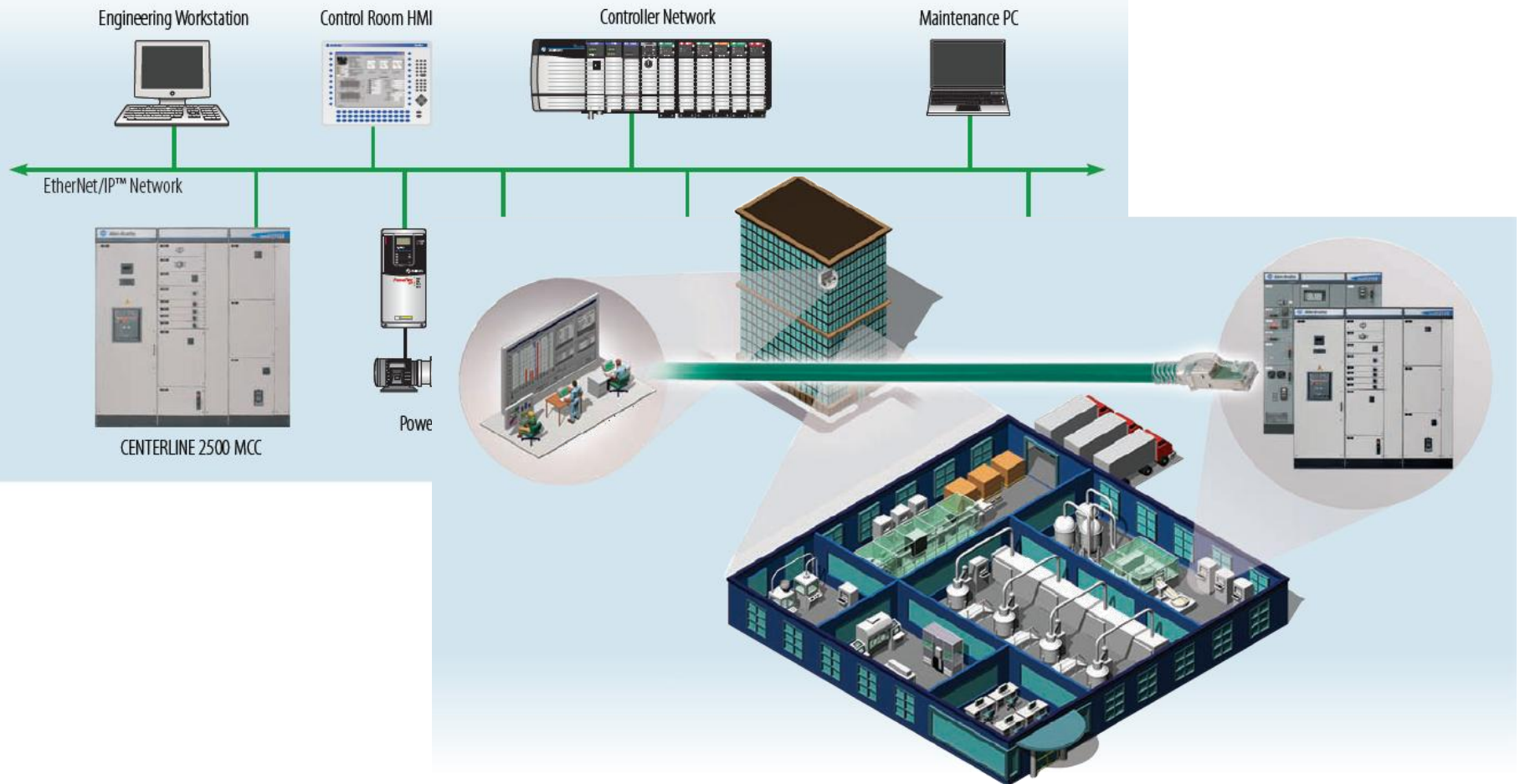
Premier Integration with RSLogix 5000

- Device parameters are mapped automatically to controller tags in RSLogix 5000
- Configure and program all intelligent motor control devices in RSLogix 5000
- Configuration is stored in the controller to simplify device replacement (in ACD file)

E1_Plus:I.TripPresent	0	Decimal	BOOL
E1_Plus:I.WarningPresent	0	Decimal	BOOL
E1_Plus:I.OutputA	0	Decimal	BOOL
E1_Plus:I.Input1	0	Decimal	BOOL
E1_Plus:I.Input2	0	Decimal	BOOL
E1_Plus:I.MotorCurrentPresent	0	Decimal	BOOL
+ E1_Plus:I.PercentFLA	0	Decimal	INT
+ E1_Plus:I.PercentTCU	0	Decimal	INT
E1_Plus:I.OverloadTrip	0	Decimal	BOOL
E1_Plus:I.PhaseLossTrip	0	Decimal	BOOL
E1_Plus:I.JamTrip	0	Decimal	BOOL
E1_Plus:I.OverloadWarning	0	Decimal	BOOL
E1_Plus:I.JamWarning	0	Decimal	BOOL
E1_Plus:I.UnderloadWarning	0	Decimal	BOOL
E1_Plus:I.ProgModeWarning	0	Decimal	BOOL
E1_Plus:I.TripLogOverload	0	Decimal	BOOL

Premier Integration now available in CENTERLINE® MCCs

EtherNet/IP for all Control and Information needs



- A single network for all Automation and Process control equipment
- Seamlessly linked to the front office for increased access to information

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Questions?
Comments?
Concerns?

Please ask your lab instructor.