Introduction
to the PlantPAx System

PlantPAx
Process Automation System

One stop solution for industrial products and services

Introducing Rockwell Automation Modern DCS

PlantPAx® (Process Automation with the "x" signifying excellence)

PlantPAx® is the Rockwell Automation modern distributed control system. PlantPAx has been around since 2008, now being released in version 5.0.

PlantPAx is the Rockwell Automation modern **distributed control system** for large, medium and small applications. It is hardware and software that scales to your needs.

PlantPAx is a **characterized system** that delivers known performance by providing Guidelines and Reference manuals to size and build your PlantPAx system.

Following selection guidelines, design reference manuals, and rules makes it a PlantPAx system. **You get known performance before you assemble the system.**

PlantPAx is a System

PlantPAx is the process automation system from Rockwell Automation with all core capabilities expected in a world-class distributed control system (DCS). PlantPAx is the only process automation system capable of managing the entire range of automation applications, including motion and drive systems.

Tools and Solutions

- Process System Estimator (PSE)
- Rapid Code development (ACM)
- Process Object Library Migration Tool

Library of Objects

- Standard Objects reusable objects
- Class-based solutions
- Known performance characterization
- Digital Device & Instrumentation Interface Objects
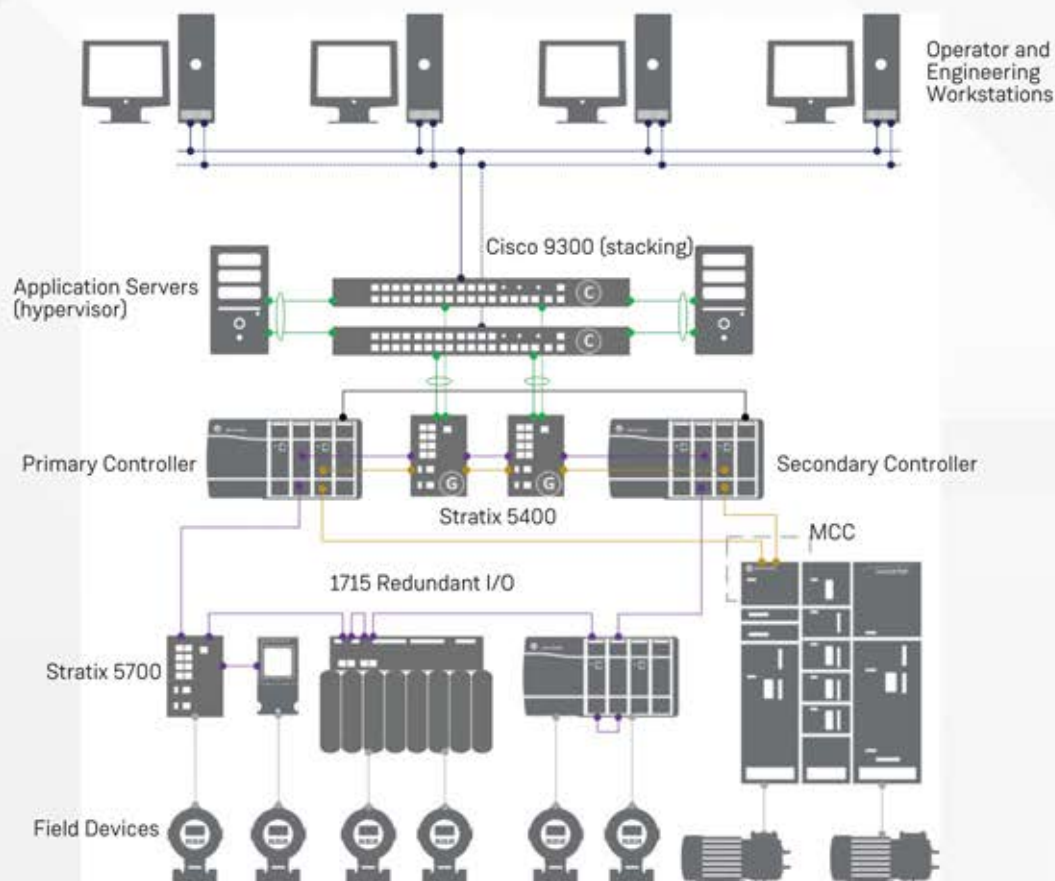
Reference Architecture

- Network Infrastructure
- Integration Skids
- Cybersecurity

Product Development

- Key Process Features
  - Controller
  - Power
  - HMI
  - Historian
  - Asset Management

Documentation

- System Guidelines
- System References
- User Manuals
- Selection Guides
- Infrastructure Manual
- Online Help

Operator and Engineering Workstations

Cisco 9300 (stacking)

Application Servers (hypervisor)

Primary Controller

Secondary Controller

Stratix 5400

MCC

1715 Redundant I/O

Stratix 5700

Field Devices

PlantPAx System 5.0

PlantPAx was built for plant-wide process and batch control. From the dedicated Process Controller to the firmware embedded Process Objects, PlantPAx 5.0 is designed to serve larger and more complex operations in a more secure manner.

The following features will be introduced in the lab:

- High-performance Process Controllers
- Sample architectures and sample code make systems easier to deploy
- Embedded Process Objects, native to the controller firmware, drive consistency and simplify lifecycle management
- Alarms in objects for single configuration
- Improved HART configuration/HART data structures
- New Organization, Ownership and Arbitration functionality

Benefit

- Systems that are easier to deploy and simpler to maintain
- Promotes consistent delivery from site to site

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