PlantPAx™ Virtual Image Templates
Simplify and Leverage Virtualization

Features and Benefits

• Reduce engineering time and validation costs
  Virtual image deployment of process automation system components takes only hours and components can be duplicated in minutes, helping to reduce initial installation by several days.

• Ease lifecycle management
  A virtualized environment supports accelerated IT delivery of software upgrades. It simplifies patch management and nearly eliminates the possibility of errors during patching.

• Enhance scalability
  As new system components are needed, simply copy the template and order a new activation.

Reduce validation and engineering costs, and extend product life cycles with Virtual Image Templates

To meet the growing popularity of virtual environments within the process industry, Rockwell Automation offers a new option to deploy the PlantPAx process automation system. The PlantPAx Virtual Image Templates deliver the core system elements as pre-configured, drop-in templates on a USB hard drive. Delivered in an open, virtual-format file, and officially supported and tested for use with VMWare vSphere, the following templates are provided:

• Engineering Workstation (EWS): Contains all the necessary software to fully configure the control and visualization components of the PlantPAx process automation system.

• Operator Workstation (OWS): Consists of the software needed for visualizing and controlling the process.

• Process Automation System Server (PASS): Provides central name resolution and look-up services across multiple computers for central administration of data throughout the PlantPAx process automation system. The PASS also provides data, HMI and alarm server capability.

The pre-installed and pre-configured Virtual Image Templates help reduce validation costs and initial engineering time, simplify upgrades and patch management and enhance scalability.
The Value of Virtualization

In general, a virtual environment, which the PlantPAx Virtual Image Templates help create, offer the following advantages to end users.

Extends the hardware lifecycle resulting in reduced IT administration and support. The virtual environment allows multiple applications and operating systems to run on one hardware platform. Legacy software can run on newer hardware, and/or older hardware can run newer software.

Control system independence from hardware improves total cost of ownership and enhances high availability. Separating software from hardware extends the lifecycle of the control system and reduces risk associated with hardware, operating systems and applications.

Standardization of customized process control strategies results in easy distribution of best practices. Once a process control strategy is designed it is easily reproducible throughout the plant or in multiple plants around the world.

Virtual machines structured on end-user roles enhance security and increases flexibility. Operators and engineers are able to access their workstations through any number of thin clients, traditional desktops or tablets transparently and seamlessly. This feature allows an EWS to be converted to an OWS based on the login.

Dynamic movement of virtual machines minimizes lost revenue from planned or unplanned downtime. Virtual machines can be migrated between servers while the system is still running. Administrators can shift workloads with no impact to the system during scheduled outages and machines can automatically recover if a server fails.

Eliminating under-utilized servers improves operational efficiency. Traditionally, IT isolates servers based on task, which means many servers aren’t used to capacity. Independence from hardware prevents under-utilization in a virtual environment.

### PlantPAx Virtual Image Templates Catalog Structure

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9528-PAXVTENE</td>
<td>Consists of 3 Virtual Image Templates. Each template contains a Windows® operating system with all required Rockwell Automation software pre-installed but not activated. Microsoft® Full Packaged Product License included.</td>
</tr>
<tr>
<td>9528-EWSLICENE</td>
<td>Activation for the EWS-Rockwell Automation Software</td>
</tr>
<tr>
<td>9528-OWSLICENE</td>
<td>Activation for the OWS-Rockwell Automation Software</td>
</tr>
<tr>
<td>9528-PASS100ENE</td>
<td>Activation for PASS 100 Display-Rockwell Automation Software</td>
</tr>
<tr>
<td>9528-PASS250ENE</td>
<td>Activation for PASS 250 Display-Rockwell Automation Software</td>
</tr>
<tr>
<td>9528-PASSUNLNE</td>
<td>Activation for PASS Unlimited Display-Rockwell Automation Software</td>
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