Streamlining system maintenance with unattended AVEVA™ System Platform client installs

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A member of the S&P 500 Index, Martin Marietta is an American-based company and a leading supplier of building materials including aggregates, cement, ready mixed concrete and asphalt.

- Around 135 automated sites
- Locations spread across the US + Bahamas/Nova Scotia
- Enterprise deployment based in our datacenter
High-level architecture

Data center
- Galaxy repository
- T2 Historian
- Licensing

Remote plant 1
- Operator
- T1 Historian

Remote plant n...
- Operator
- T1 Historian
Business value

- Business challenge
- Physical vs. virtual
- Pre/post times
- Deployment time
- Standardization
- New release change control
- Single image
- Physical machines vs. virtual environment images

<table>
<thead>
<tr>
<th>Task</th>
<th>Pre-Script Development</th>
<th>Post-Script Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows Image</td>
<td>45 Min</td>
<td>45 Min</td>
</tr>
<tr>
<td>SQL/SSMS Install</td>
<td>~30 Min</td>
<td>0 Min</td>
</tr>
<tr>
<td>System Platform</td>
<td>~35 Min</td>
<td>0 Min</td>
</tr>
<tr>
<td>Tools/Config</td>
<td>~15 Min</td>
<td>0 Min</td>
</tr>
<tr>
<td>Single Script Install</td>
<td>0 min</td>
<td>~35 Min</td>
</tr>
<tr>
<td>Configuration Time</td>
<td>~80 Min</td>
<td>~35 Min</td>
</tr>
<tr>
<td>Total Time</td>
<td>~120 Min</td>
<td>~80 Min</td>
</tr>
</tbody>
</table>

AVEVA
What are we doing?

What are we installing

• SQL Server
• Tools
  o SQL Management Studio
  o Avamar – File Backup Utility
• System Platform
What are we doing?

Enterprise deployments

• Different OS Support
• Different Hardware Specs
What are we doing?

Updatable

- Don’t have to rebuild full image
Single install across different environments

- AVEVA InTouch HMI – “Plant View”
- AVEVA OMI – “Plant OMI”
- AVEVA Historian – “Plant Historian”
Issues and considerations

• Installation Order
• MS Patches
  o Making sure the correct one is on the machine. Even if you have a newer install.
What are we doing?

Configuration

- Network Adaptor Configuration
- Cross Node User Account
- MS KB Installs
  - EULA Fix
  - .net Hosting Bundle
  - Registry Key Tatoos
Martin Marietta streamlines operator PC deployment

Challenge
• Standardize operator PC deployment
• Increase deployment speed
• Ease transition as version updates become available
• Remove human error with install

Solution
• Use AVEVA response files and PowerShell to create a single install script for all tools required for field plant computers, including SQL, backup agent and AVEVA System Platform.

Results
• Lowered deployment time approximately 25%
• Removed human error from build process
• Increase speed with updating as technology changes

“By automating the AVEVA deployment we removed the manual configuration risk, improved our implementation success, and created administrative efficiencies.”

David Jastrow, Senior Manager Infrastructure and Ops, Martin Marietta
Questions?
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