

Unlocking the Power of the Job Processor

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Class summary

This class illustrates the use of the Job Processor with Vault and how it can be setup and customized to produce outputs beyond standard visualization files.

Key learning objectives

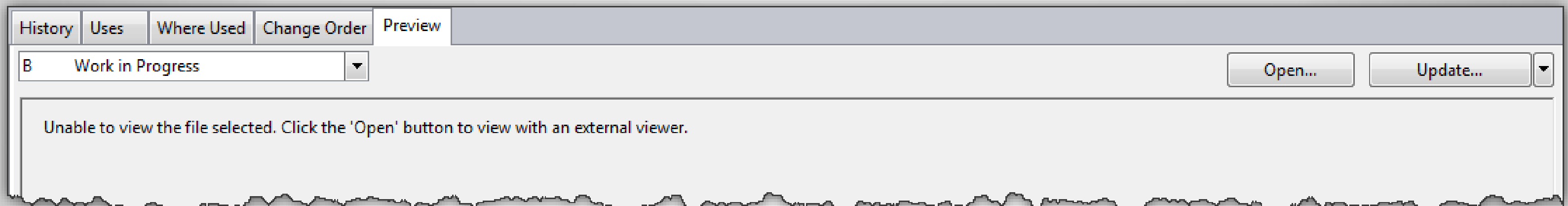
At the end of this class, you will be able to:

- Set up the Job Server and a job user with special permissions
- Understand ways to control where and when the Job Server runs
- Learn how to use the Job Server to create automatic revision tables
- Set up different triggers and publishing jobs for DWFs, PDFs & DXFs

An Overview of the Job Processor

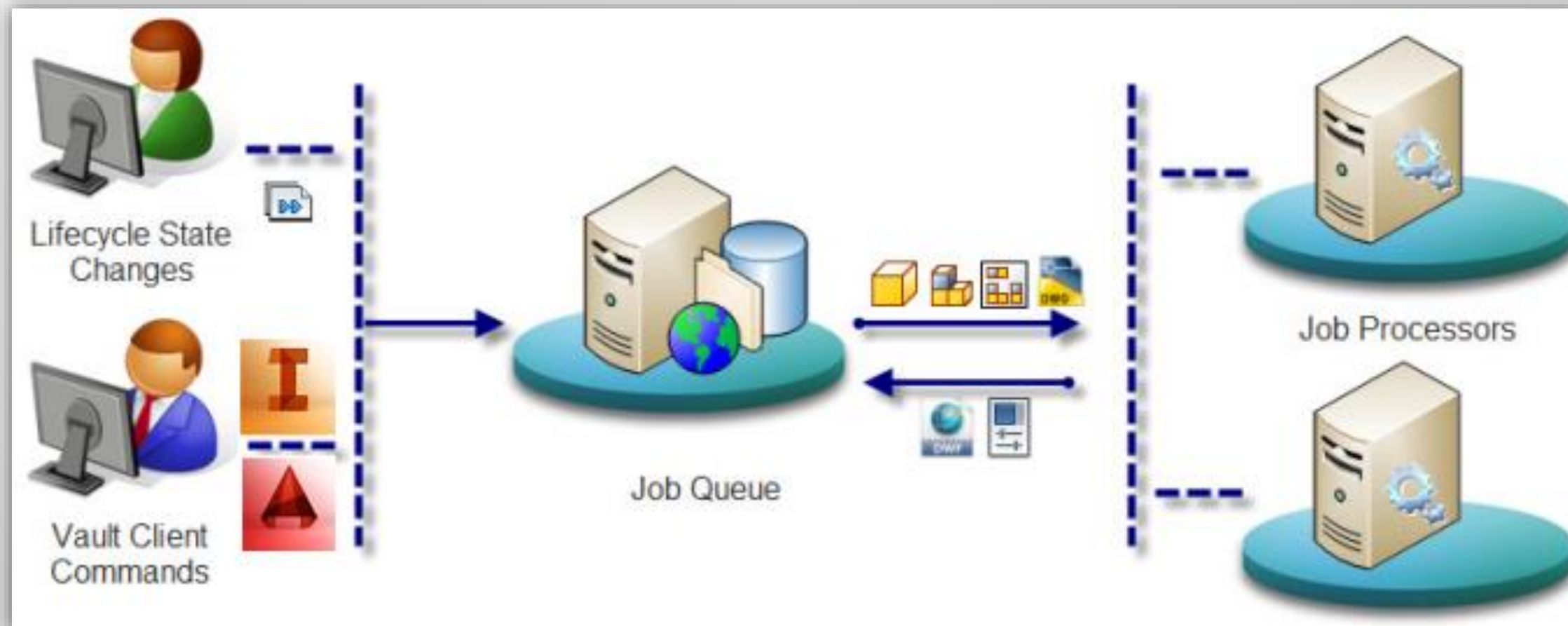
Overview

- Automate tasks that are otherwise performed manually
 - Missing DWFs
 - Property compliance warnings
 - And more...



Overview

- Job queue is hosted on the ADMS Console
 - Where jobs get in line to be processed
- The Job Processor is run on a CAD workstation



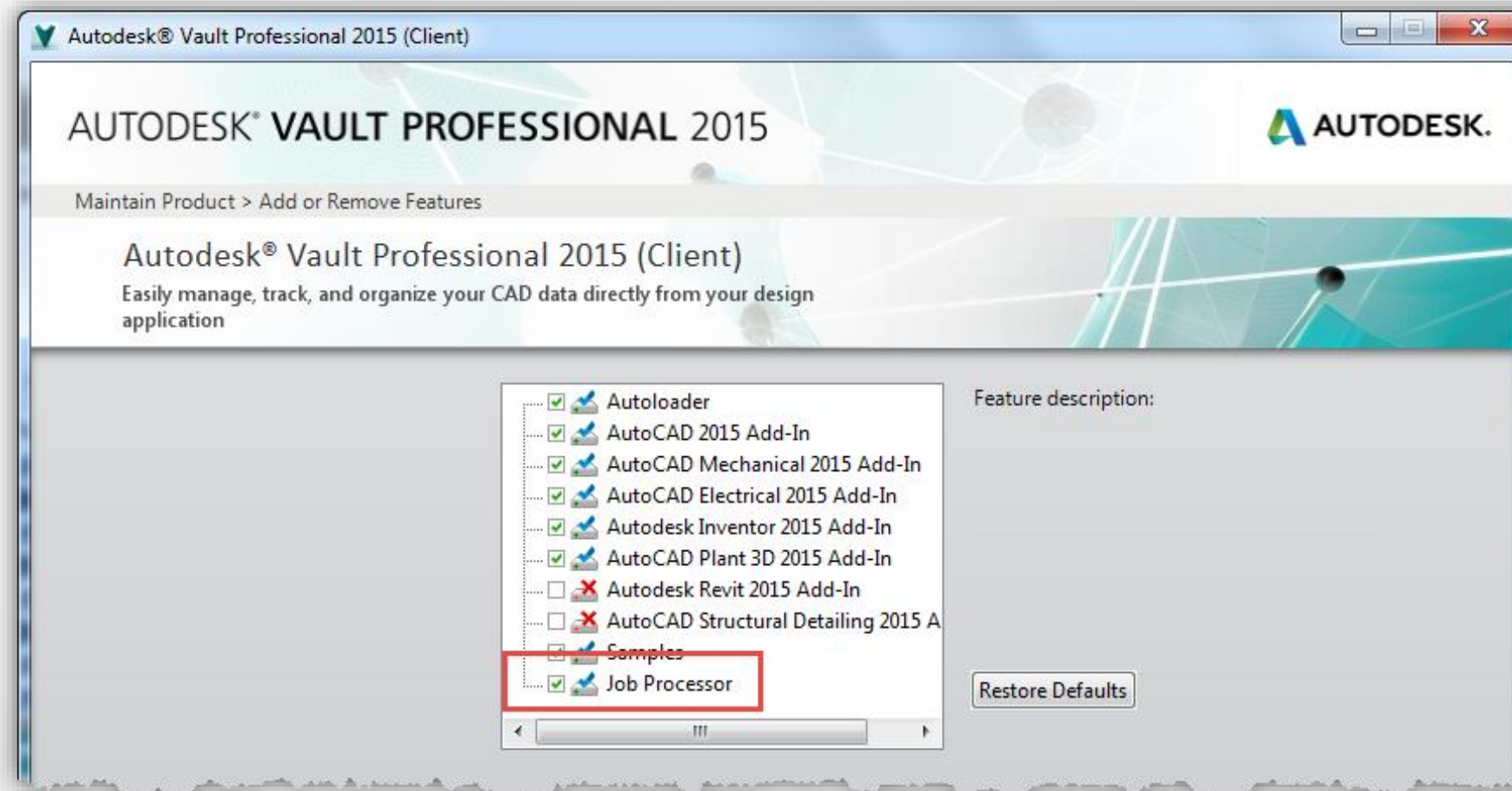
Setting up the Job Processor

The Machine the Job Processor Runs On

- A Dedicated Machine
 - Best option; ensures that jobs can be processed 24/7
 - Jobs will run with full resources available
 - Most expensive option
- A Shared Server
 - Can be on the same server as the ADMS Console
 - May affect critical server applications

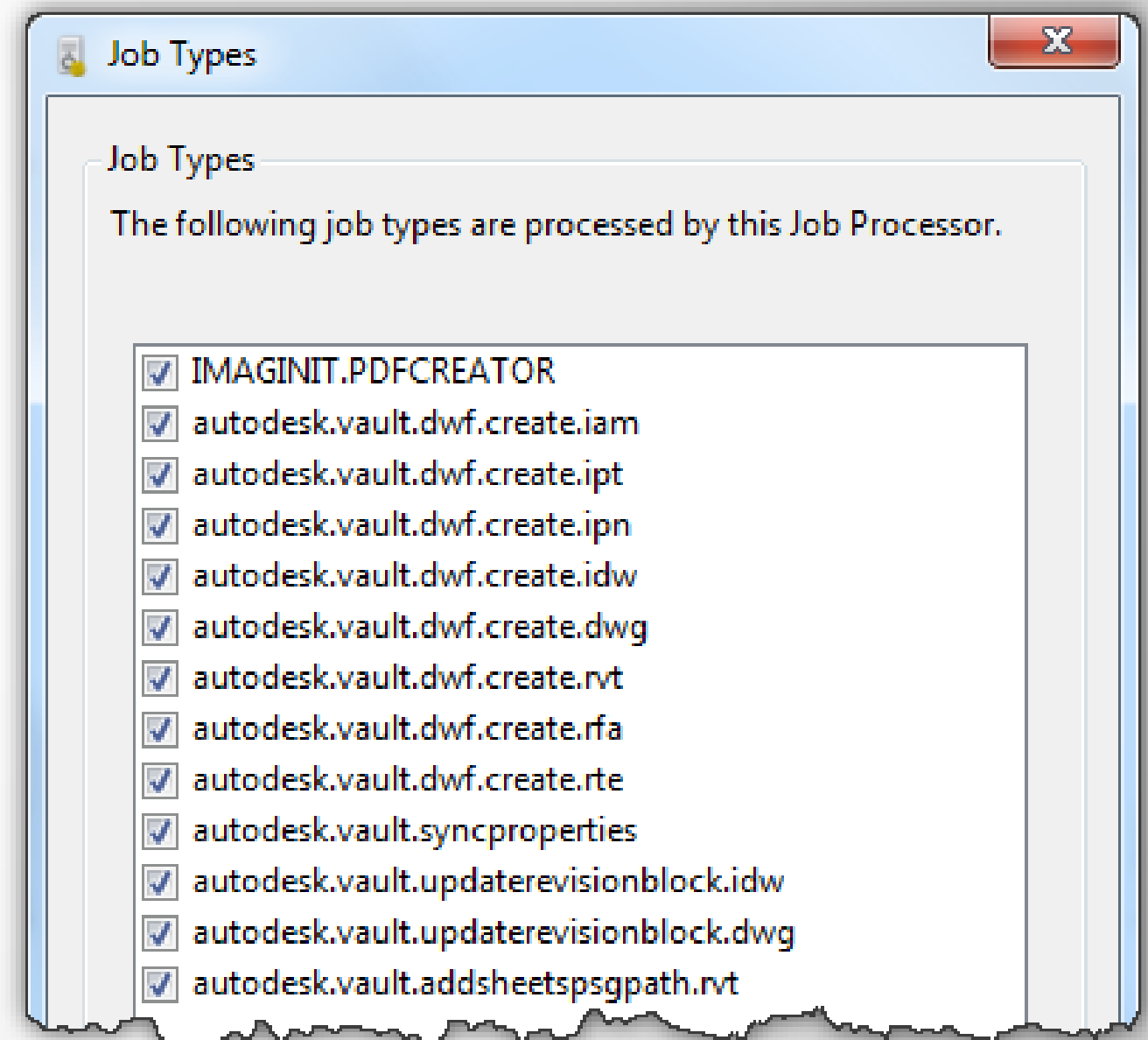
The Machine the Job Processor Runs On

- A CAD Workstation
 - Advantage standalone licenses
 - May impact the CAD user's machine



Software Required by the Job Processor

- Vault Explorer
- CAD applications for job types
- Any extended functionality
 - IMAGINiT Utilities for Vault Client
 - powerJobs
 - More...

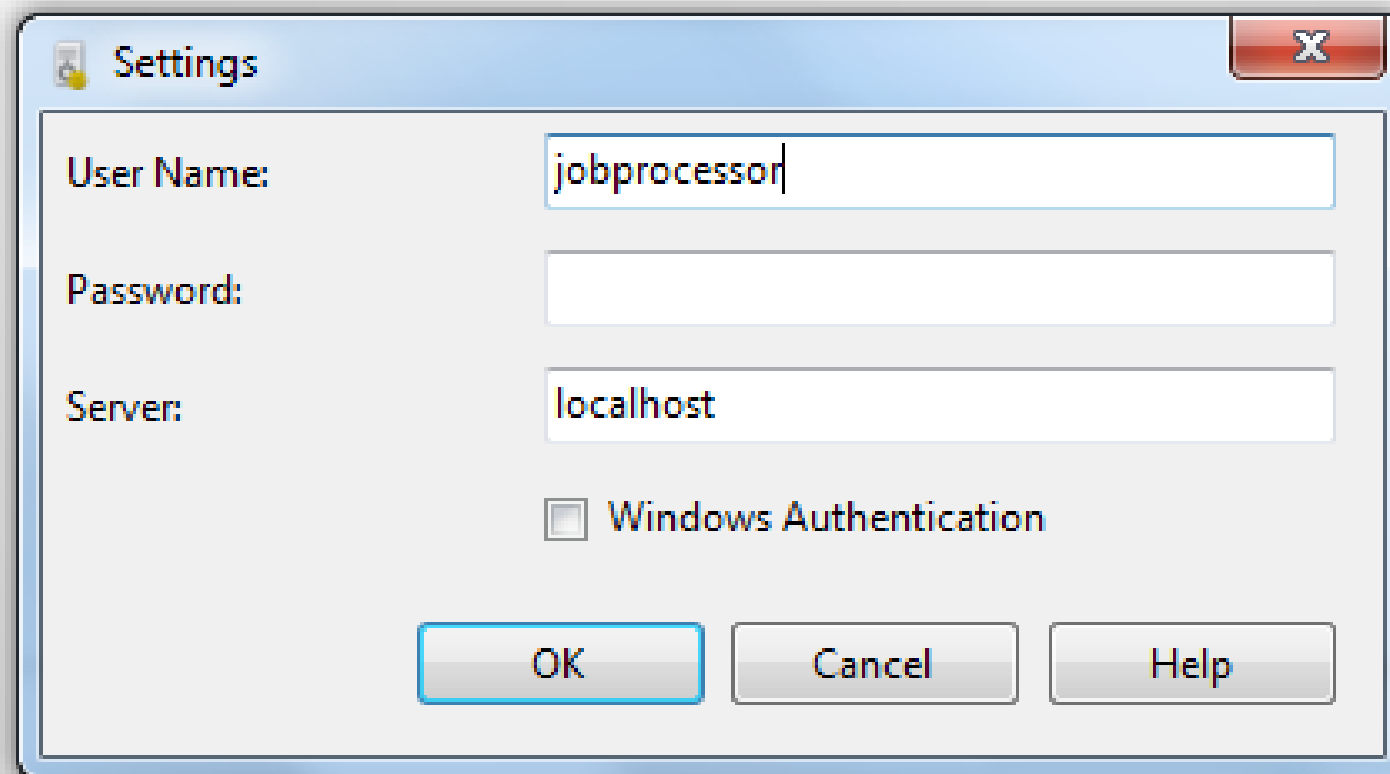


A Look in to Licensing

- Vault Licenses
 - Log in to Vault regularly to check the queue
 - Second, license consuming, login if a job is in the queue
- CAD Licenses
 - Network – User based
 - Standalone – Hardware based

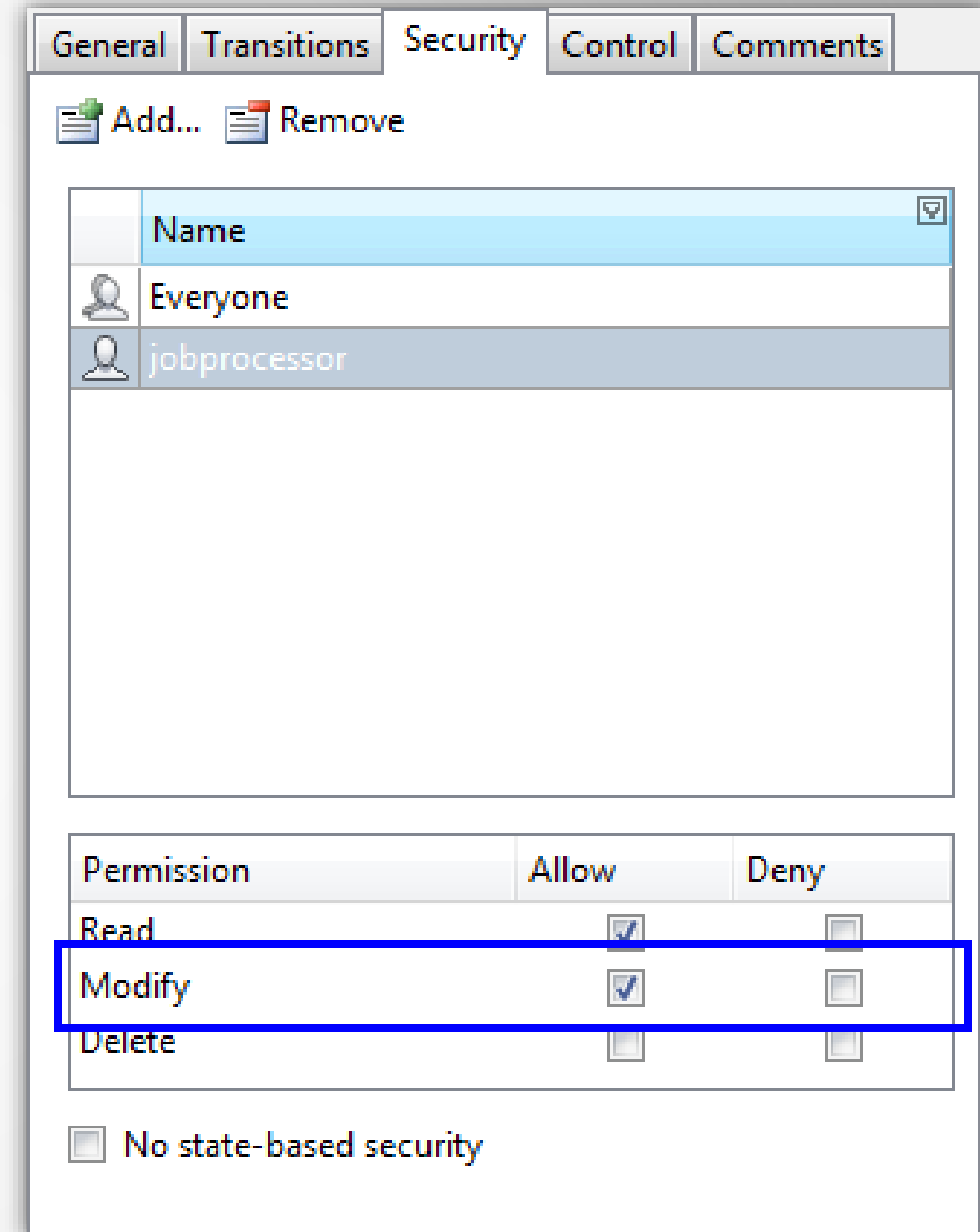
The Job User

- Drafting/Engineering group
- Special permissions
 - Can change released files
- State security not assigned Role



The Settings dialog box for the Job User is shown. It has a title bar with a close button. The fields are: User Name: jobprocessor, Password: (empty), Server: localhost. There is a checkbox for Windows Authentication which is unchecked. At the bottom are buttons for OK, Cancel, and Help.

User Name:	jobprocessor
Password:	
Server:	localhost
☐ Windows Authentication	
OK Cancel Help	



The Security tab of the Job User settings is shown. It has tabs for General, Transitions, Security, Control, and Comments. Below the tabs are buttons for Add... and Remove. A list of users is shown with 'jobprocessor' selected. Below the list is a table of permissions.

Permission	Allow	Deny
Read	☒	☐
Modify	☒	☐
Delete	☐	☐

☐ No state-based security

HOW TO... Create and Setup the job user

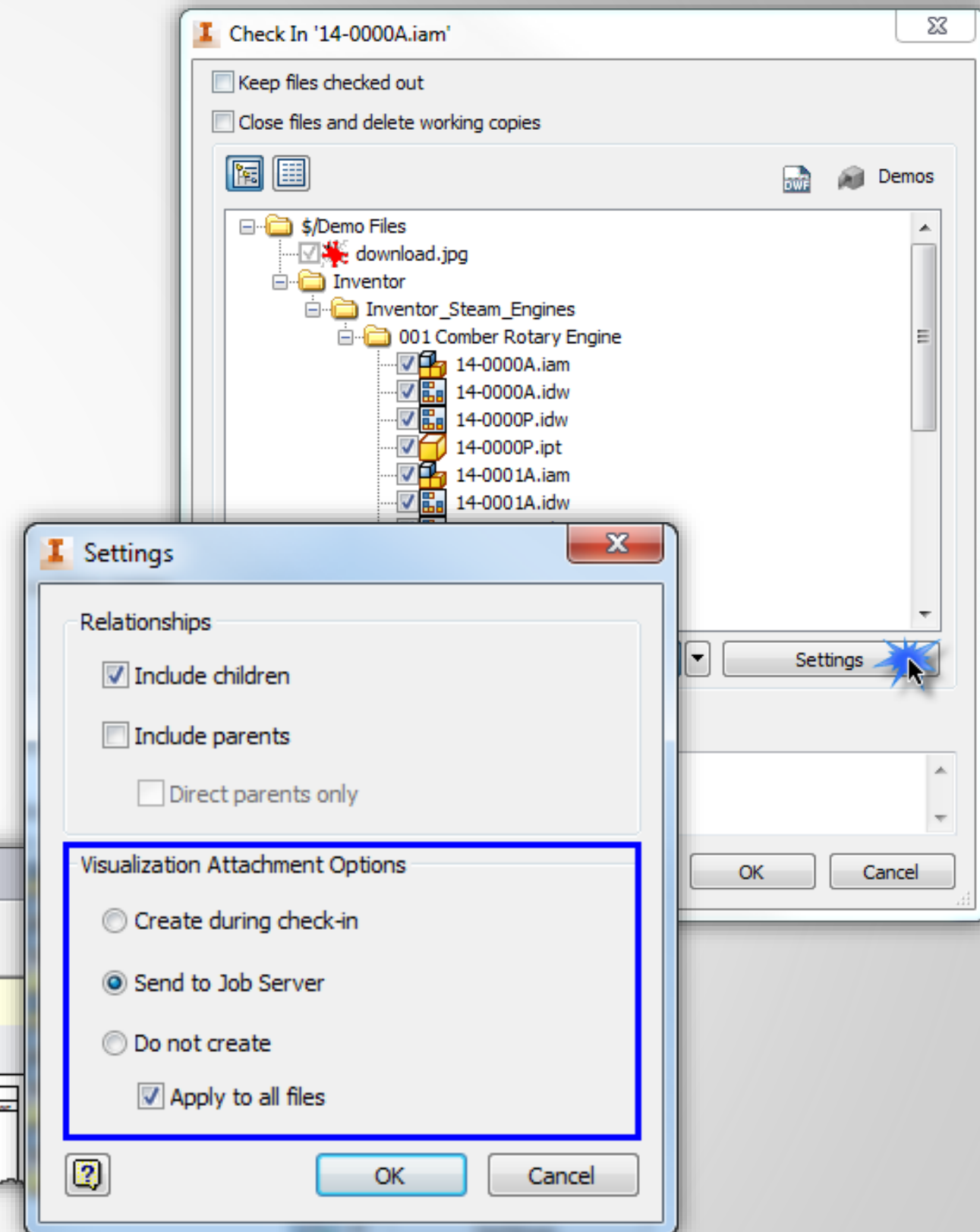
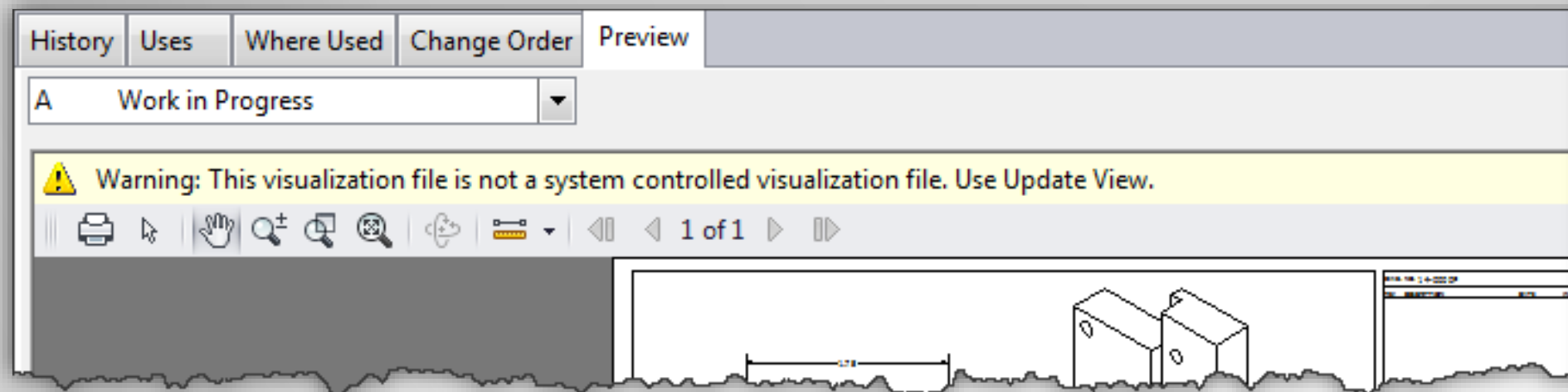
HOW TO... Turning on the Job Processor



Triggering Jobs to Run

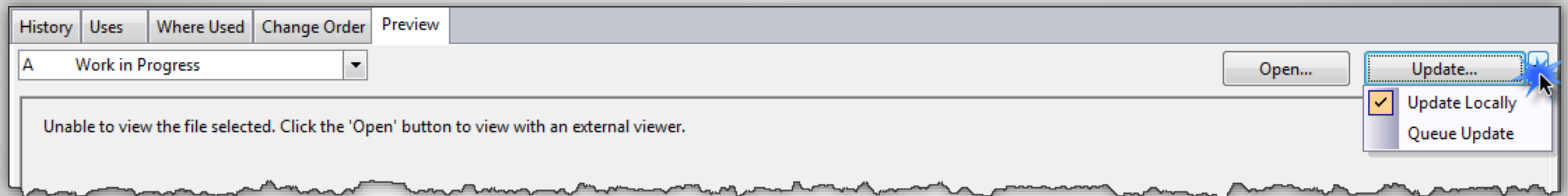
Jobs Triggered on Check-In

- DWF only
- Local or Job Server
 - Local method is not system generated



Jobs Triggered by Hitting the Update... Button

- Update Locally
 - Run on a CAD workstation
- Queue Update
 - Sends the DWF job to the job server
- Both are system generated



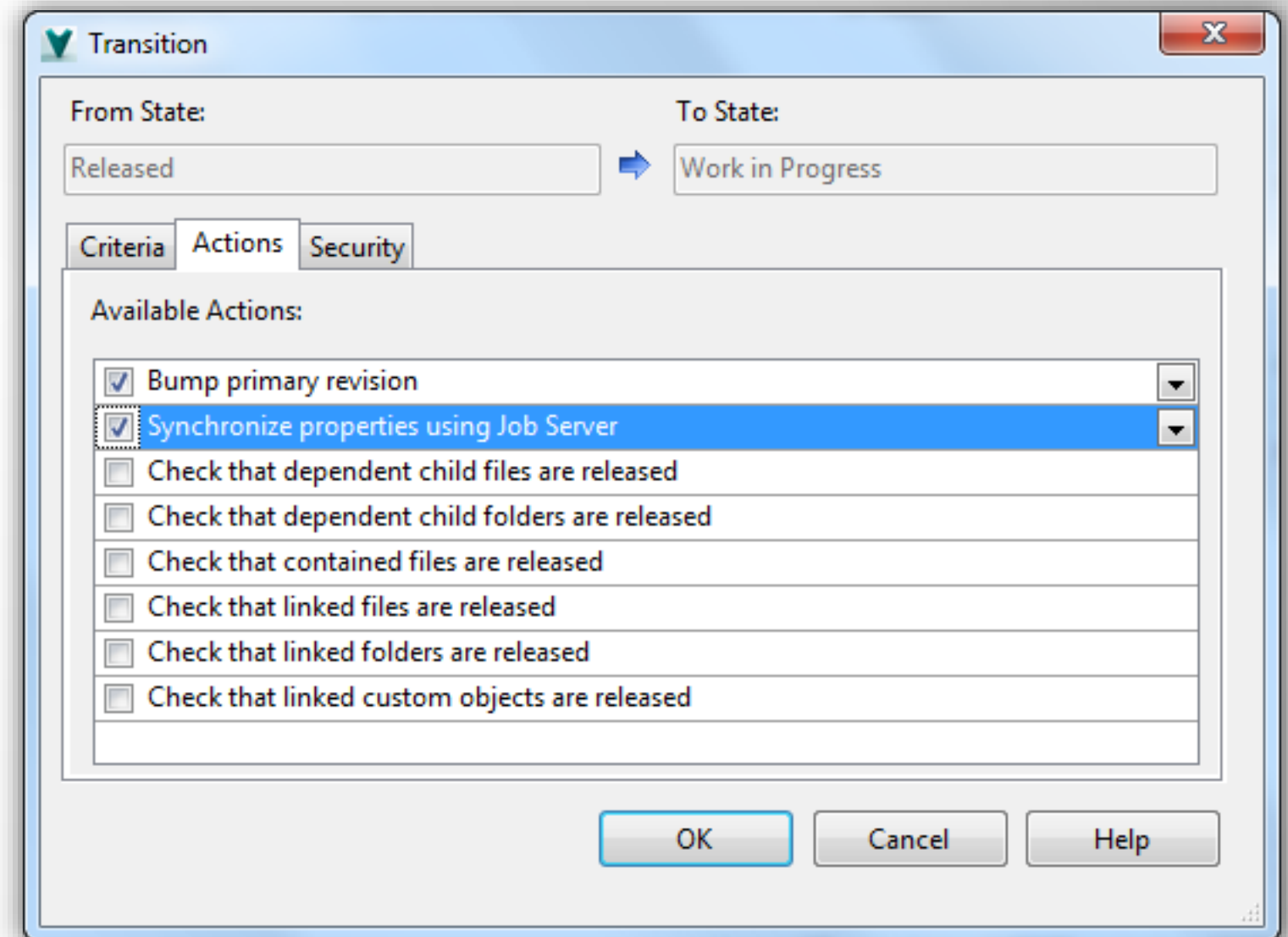
Creating a Visualization File in the Vault Thin Client

- For non CAD or read-only users
- Requires job server



Jobs Triggered on a Lifecycle Change

- More possibilities than just DWF files
- Synchronize properties
- Update revision tables
- Extended functionality
 - PDF, DXF, STEP

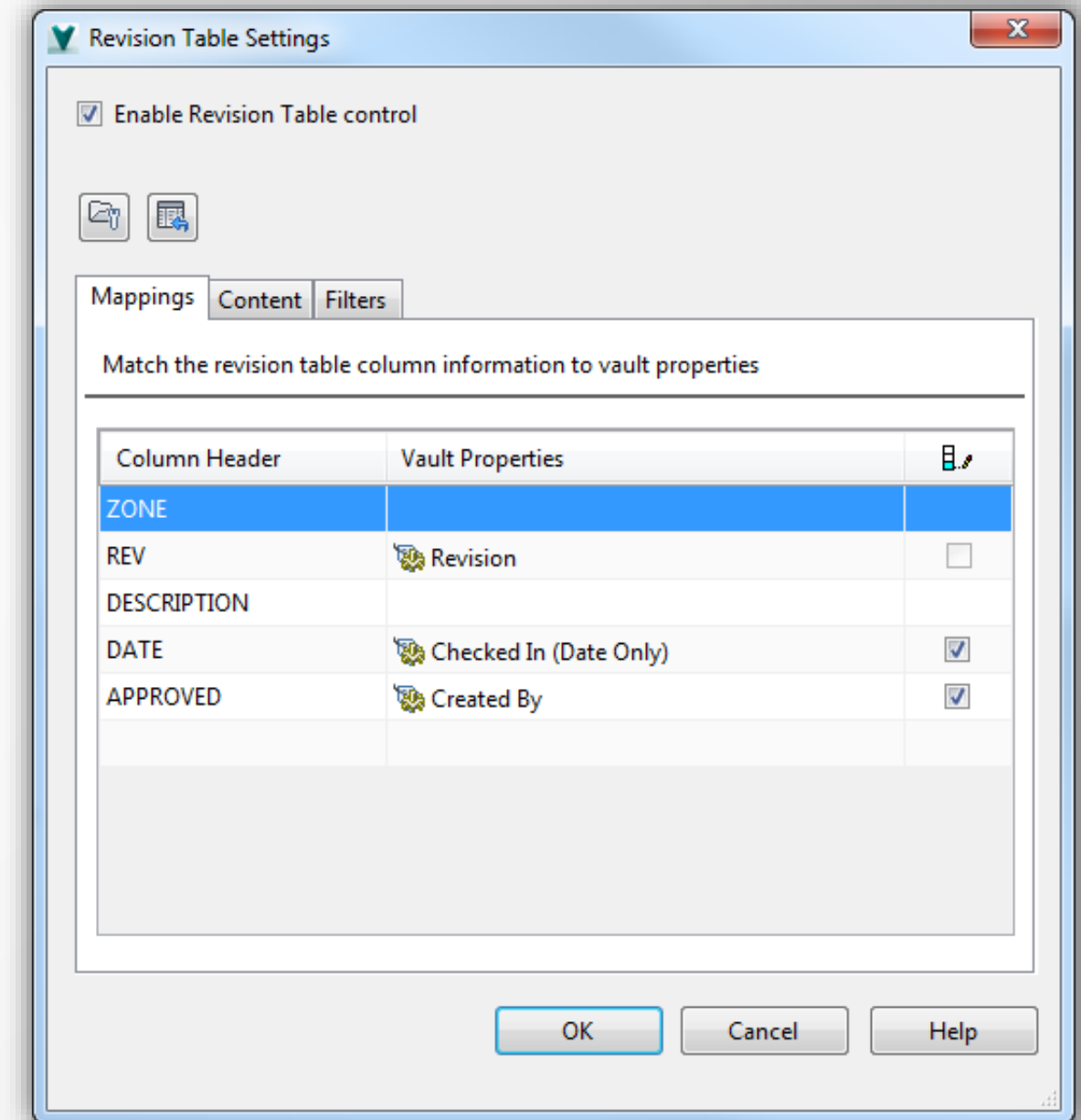


HOW TO... Sync Properties and Create a DWF on State Change



Job Processor and Vault Revision Tables

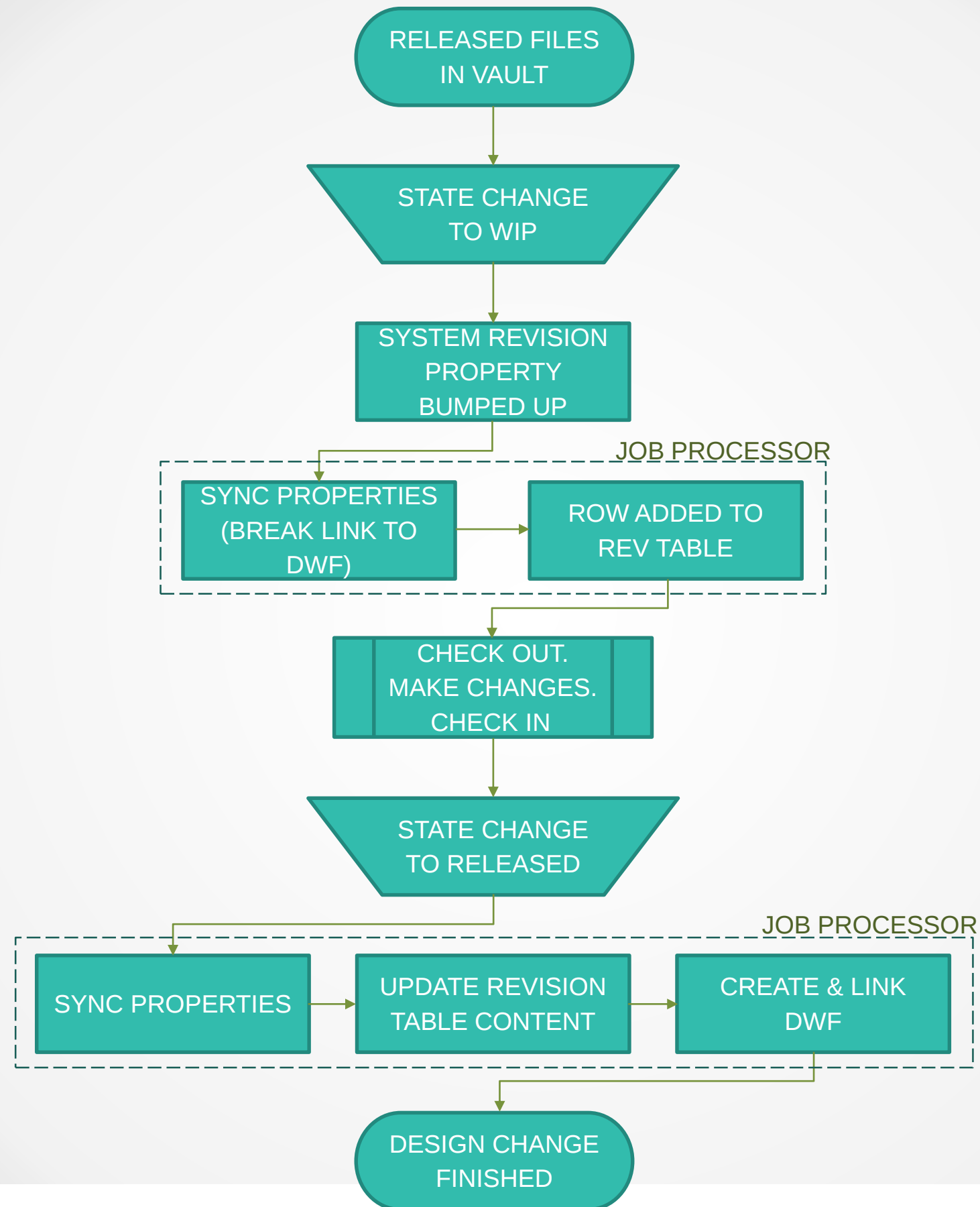
- Ensures displayed info in the rev table is current
- User defined properties
 - Partial automation
- System properties
 - Full automation



HOW TO... Configure Vault Revision Tables



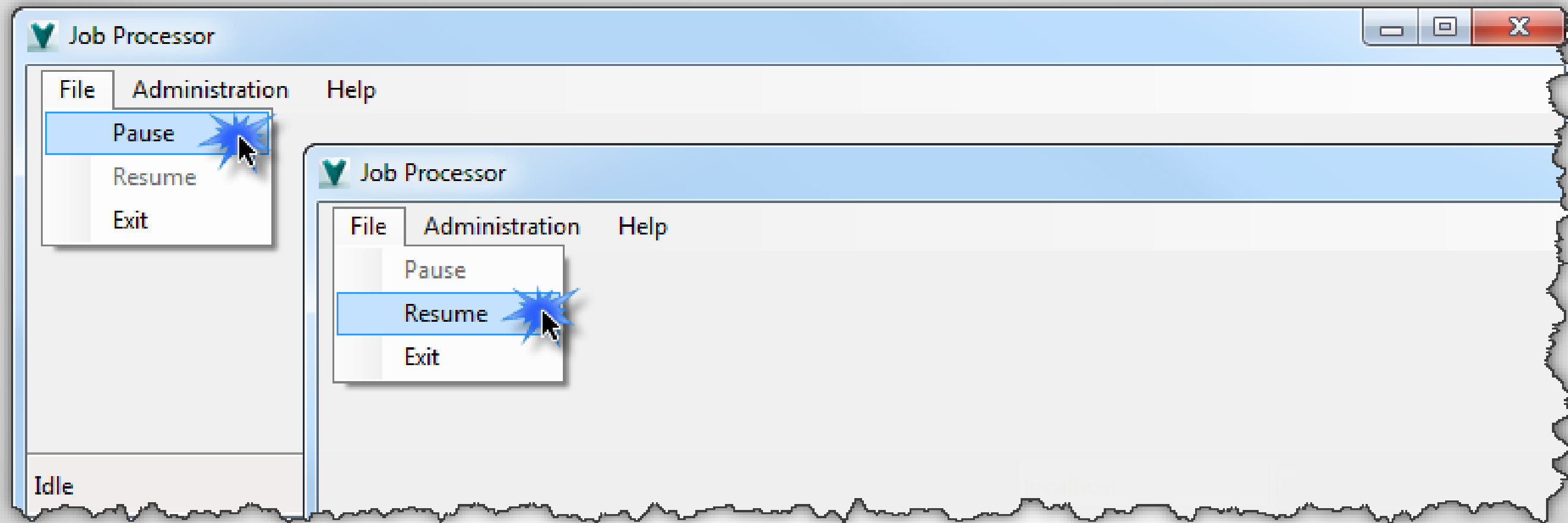
Recap



Controlling the Job Processor – When & Where

Manually Triggering the Job Processor

- Job Processor checks the queue every 10 minutes
- Pause & Resume to manually check the queue



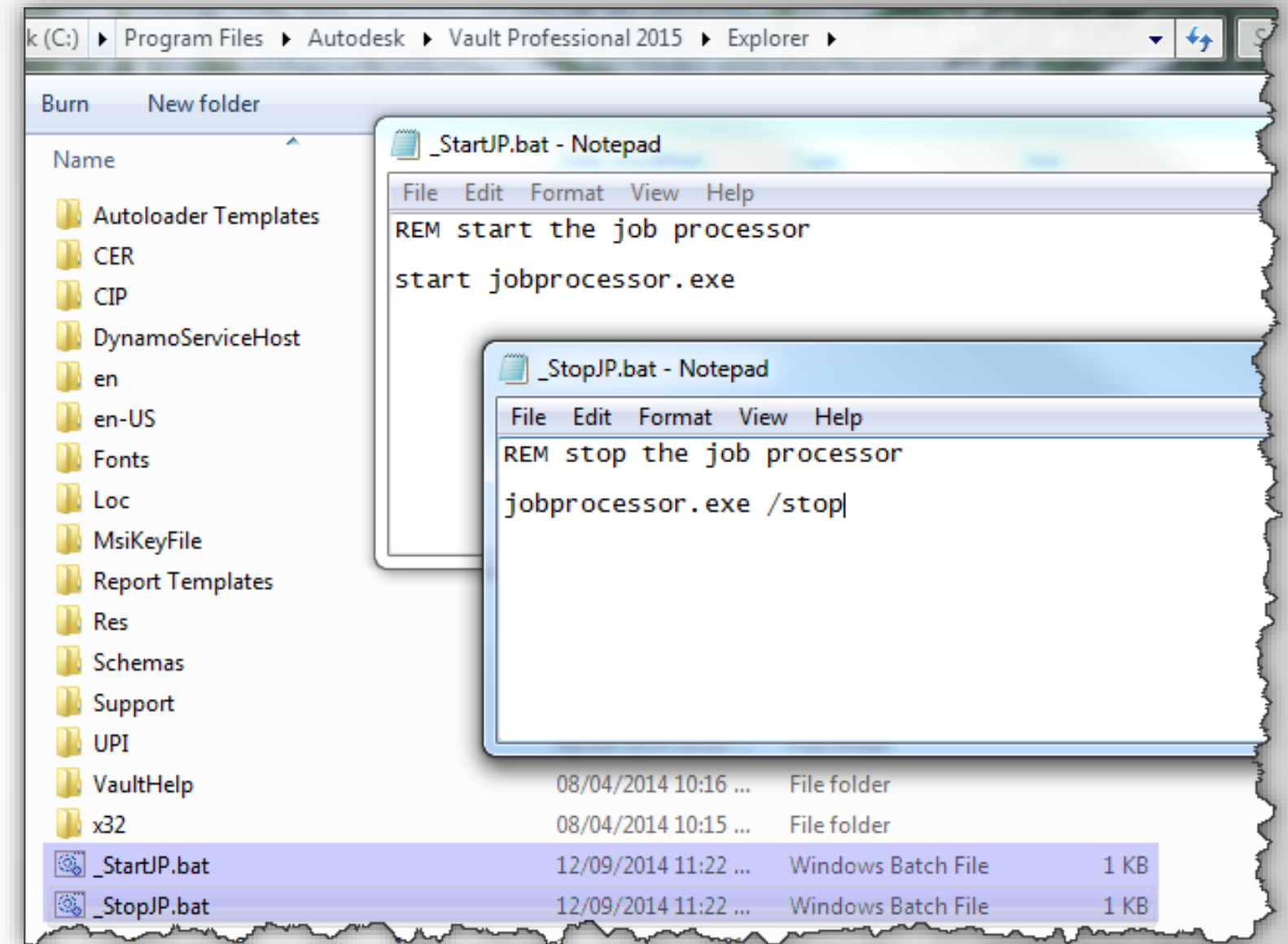
Changing the Job Processor's Query Timing

- Customize the timing of the queue being checked
 - JobProcessor.exe.config (on the processor machine)

```
<appSettings>  
<add key="PeriodInMinutes" value="10"/>  
<!-- Webservice timeout (in milliseconds)-->  
<add key="WebServiceTimeout" value="1000000"/>  
<!-- 1000 secs = 1000000 milli -->  
<!-- RequestSendTimeout (in minutes)-->  
<add key="RequestSendTimeout" value="90"/>  
<!-- RequestReceiveTimeout (in minutes)-->  
<add key="RequestReceiveTimeout" value="90"/>  
<!-- HostServiceSendTimeout (in minutes)-->  
<add key="HostServiceSendTimeout" value="10"/>  
<!-- HostServiceReceiveTimeout timeout (in minutes)-->  
<add key="HostServiceReceiveTimeout" value="90"/>  
<!-- PingTimeout timeout (in seconds)-->  
<add key="PingTimeout" value="30"/>
```

Using the Command Line

- Use the command line to:
 - Start and login
 - Start
 - Stop
 - Pause
 - Resume



- Use the task scheduler to automate when the job processor can run

Things to Keep an Eye On

- Check the queue and remove/diagnose jobs that fail
- Check the jobprocessor.log to help diagnosis
- Search for error codes and solutions
 - It's All Just Ones And Zeros – Doug Redmond
- Make sure job types are being handled by processor machines with the right apps

Added Functionality for Publishing Jobs

Extended functionality with app add-ins

- Extend beyond out-of-the-box capability
- Autodesk App Exchange and other developers
- Not all apps are job processor related
 - Sync settings
 - License report
- IMAGINiT Utilities for Vault Client & powerJobs

IMAGINiT Utilities for Vault Client

- Lifecycle Change Notifier (Vault 2015 only)
- BoM Extraction and Export
- Batch Checkout of Files
- Create Folder(s) from Template
- Create PDF files
 - Manually by selection
 - Automatically on a state change

HOW TO... PDF by Selection



HOW TO... PDF on State Change



coolOrange powerJobs

- DWF & PDFs attached to source file
- 3D DWG from an IAM or IPT file
- DXF of sheet metal flat pattern
- Report of all released files

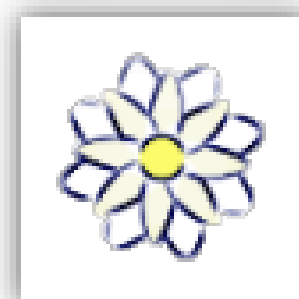
HOW TO... powerJobs Out-of-the-Box



HOW TO... Custom Jobs



Other App Exchange Add-Ons



Take Away

- Take common manual tasks away from users by automating common processes
- Manage costs by configuration
- Accuracy through system control
- Out-of-the-Box
 - DWFs
 - Property Sync
 - Revision Tables
- Extended functionality with apps
 - PDFs, STEP, DXF, etc.

Conclusion



Session Feedback

- Via the Survey Stations, email or mobile device
- AU 2015 passes given out each day!
- Best to do it right after the session
- Instructors see results in real-time







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