Integrating Data Reviewer and Workflow Manager to Automate Data Quality Control Workflows

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Demo Theater Overview

- Introduction to
  - ArcGIS Workflow Manager
  - ArcGIS Data Reviewer
- Automated validation
- Validation workflow
- Demo: Execution of Reviewer Batch Job using WMX
What is ArcGIS Workflow Manager?
A framework for continuous process improvement

- Allows users to:
  - Plan and create workflows efficiently
  - Execute and manage standardized workflows
  - Evaluate and improve performance continuously
What is ArcGIS Data Reviewer?

- System to support data quality management for ArcGIS
- Automates quality control process
- Monitor and Measure data quality
Automated Validation
Implementation workflow

- Identify Quality Requirements
  - Industry standards / Specifications
  - Subject matter experts
  - Training and experience
  - Quality assurance plans

- Configure as Rule-based Checks
Automated Data Validation

Different Type of Issues in GIS Data

- Attribution
- Spatial Relations
- Feature Integrity
- Metadata

http://j.mp/DRCheckPoster104
Automated Validation
Implementation workflow

• Identify Quality Requirements
  - Industry standards / Specifications
  - Subject matter experts
  - Training and experience
  - Quality assurance plans

• Configure as Rule-based Checks

• Author Reviewer Batch Job
Demo Scenario

• **Background**
  - The organization has implementing process improvements to streamline operations, increase productivity and reduce costs.

• **Goals**
  - Standardize practices
  - Improve productivity
  - Reduce costs
  - Improve quality *
  - Increase transparency *
Workflow Manager Integration

Reviewer Custom Steps
- Create Reviewer Session
- Run Reviewer Batch Job
- Provide
  - Return codes for branching
  - Configurable messaging
  - Detailed logging
  - Desktop/Server execution

Token
- StartSession
- Used with Launch ArcMap step
Validation Workflows
Summary

• Introduced
  - Workflow Manager
  - Data Reviewer

• Discussed automated validation

• Highlighted integration of
  - automated validation into Workflow Manager jobs
  - job status and error reporting in custom dashboard

• Implemented desktop and server workflows
Questions?
<table>
<thead>
<tr>
<th>Day and Description</th>
<th>Type</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Wednesday June 29</td>
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<tr>
<td>ArcGIS Data Reviewer: An Introduction</td>
<td>Technical Workshop</td>
<td>3:15 – 4:30pm</td>
<td>Sapphire Ballroom A/B</td>
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<td>Thursday June 30</td>
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<tr>
<td>ArcGIS Data Reviewer: Advanced Data Validation Concepts</td>
<td>Technical Workshop</td>
<td>8:30 – 9:45am</td>
<td>Room 32 A/B</td>
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<td>ArcGIS Workflow Manager: Advanced Workflows and Concepts</td>
<td>Technical Workshop</td>
<td>10:15 – 11:30am</td>
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<td>ArcGIS Workflow Manager: An Introduction</td>
<td>Technical Workshop</td>
<td>3:15 – 4:30pm</td>
<td>Room 16B</td>
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Want to learn more?

- Product pages
  - www.esri.com/workflowmanager
datareviewer
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- GeoNet (geonet.esri.com)
  - Data Reviewer
  - Workflow Manager