Traditional Cartography
What you really want
Cartographic Workflow

Output

Cartographic Data

Symbology

Layout

Cartographic Edits
What is ArcGIS Workflow Manager?
Automation

- Faster Data Actualization
- Adhere to Standards
- Free Resources for New Products
- Lower Costs
Civilian Topographic Map
Enabling Production Mapping for Topographic Mapping

Template Maps
Cartographic Rules
Generalization Rules
Validation Rules
Editing Rules
Workflows

Sample Data
Derived from NFDD
https://github.com/esri/ctm
Methods for Automating Workflows

Workflow Manager
Custom Steps

Geoprocessing Tools

CTM Python Scripts
Automation – Extended Property Tables
Civilian Topographic Map: Data Production Workflow
Automation Tips – Auto Execution of Steps

Automatically Execute Steps

Options
- Proceeds to the next step after execution
- Step can be skipped
- Automatically executes when reached
- Can start parallel execution

Return Codes

Conditional Return Codes
- Operator: =
- New Return Code: 0

Flowchart:
- Assign Job to Editor
- Job Version or Check Out
- Create Job Directory
- Create Job (Replica (Check Out))
- Resource MOD to Replica Database
- Edit Data (Job Version)
- Edit Data (Check Out Replica)
- Execute Data Reviewer Batch Job (Job Version)
- Execute Data Reviewer Batch Job (Replica)
- Correct Errors
- Increase Data Review Loop Count
Automation Tips – Auto Job Assignment

Extended Properties

CTM Job Artifacts Table

Job Replica Database Path: C:\Data\MCS_POD\WorkflowManager\WMX_Store\WMX_JOB_3239\job_3239_Replica.gdb

Job Folder: C:\Data\MCS_POD\WorkflowManager\WMX_Store\WMX_JOB_3239

Reviewer Loop Count: 1

Data Extraction Technician: Clint Loveman

Quality Control Technician: Kevin Twombly

Flowchart:

Assign Job to Quality Control Tech

Correct Errors

Increase Data Review Loop Count

Assign Job to Editor

Data Extraction Check

Data Quality Check

Assign Job to Kevin Twombly
<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Time</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Esri Production Mapping: Creating Smart Surround Elements</td>
<td>Wed.</td>
<td>5:30</td>
<td>Demo Theaters 03</td>
</tr>
<tr>
<td>ArcGIS Extensions: Tools for Improving Data and Map Production</td>
<td>Thurs.</td>
<td>3:15</td>
<td>Room Ballroom 06 B</td>
</tr>
<tr>
<td>Esri Production Mapping: Map Automation &amp; Advanced Cartography</td>
<td>Thurs.</td>
<td>10:15</td>
<td>Room 30 E</td>
</tr>
<tr>
<td>Esri Production Mapping: Creating Color Separations and “Press-ready” PDFs</td>
<td>Thurs.</td>
<td>10:30</td>
<td>Demo Theaters 03</td>
</tr>
<tr>
<td>Supporting Daily Workflows with Tools</td>
<td>Thurs.</td>
<td>8:30</td>
<td>Room 29A</td>
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</tbody>
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