

ArcGIS Data Reviewer -Implementing Ready-To-Use Rules Across the Platform

Shankar Chandrasekaran



SEE
WHAT
OTHERS
CAN'T

Agenda

- What is ArcGIS Data Reviewer?
- Attribute Rules
 - Overview
 - Types
- Ready To Use Rules
 - Overview
 - Supported Checks
- Demo
- Summary

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ArcGIS Data Reviewer

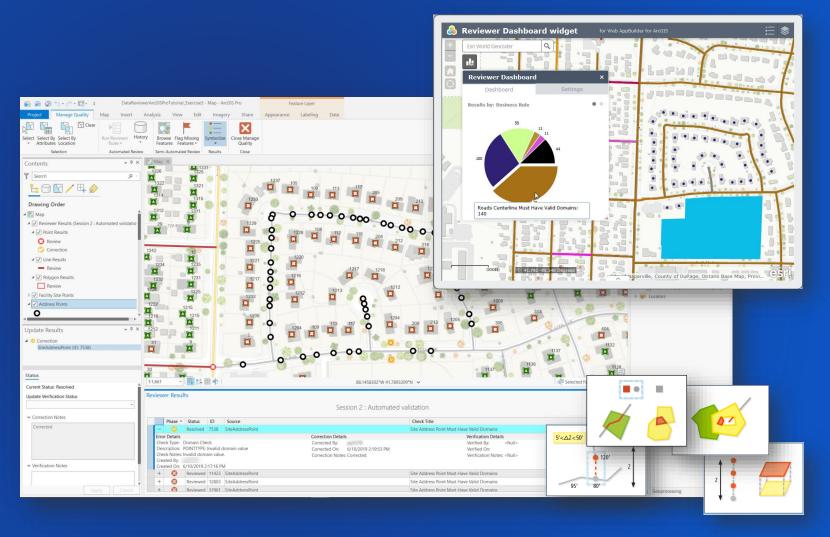
Reduce risk in decision-making

Lower data management costs

Streamline quality control workflows

Implement repeatable processes

Increase transparency

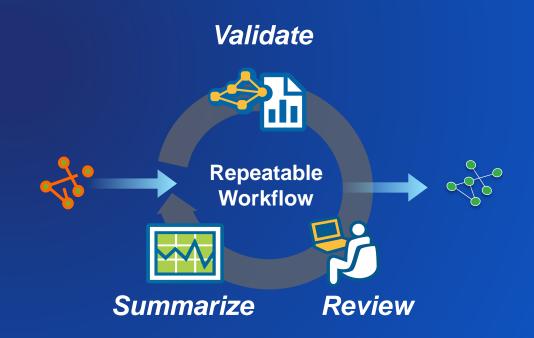


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What is ArcGIS Data Reviewer?

Data Quality Management for ArcGIS

- Provides
 - Rule-based automated validation
 - Semi-automated workflows
 - Track and report quality
- For individuals and enterprise
 - Saves time/money
 - Less rework
- For multiple domains
 - Configurable
 - Extendable



Attribute Rules

Overview



User defined rules for simple features using Arcade scripting



Ensures data quality during data collection and maintenance



Enforces data integrity



Defined in feature classes or tables



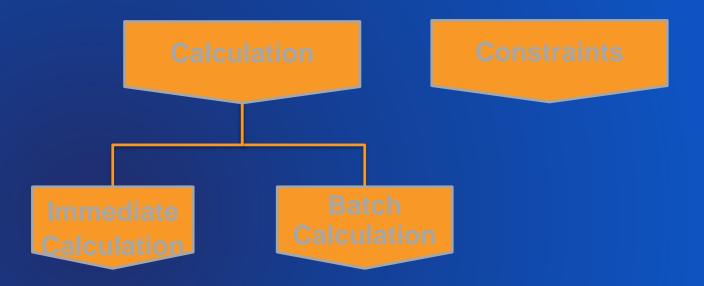
Supported across the ArcGIS platform

Types - Overview

Validation Calculation **Constraints Batch Immediate** Calculation Calculation

Types - Validation

Validation Evaluated using validation service Creates errors in error tables Evaluation only on dirty features Post – feature creation evaluation



Types - Calculation

Validation

Calculation

Automatically populate attributes

Applied on a field in a dataset

Evaluation order can be defined

Immediate Calculation

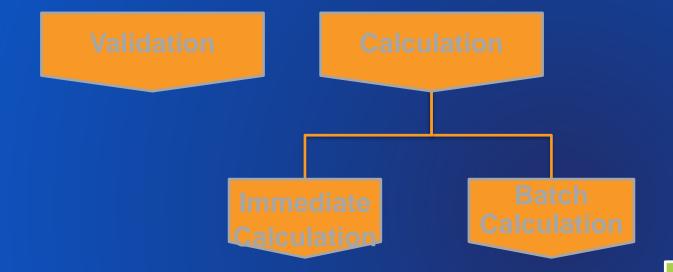
Evaluated during Edit operation

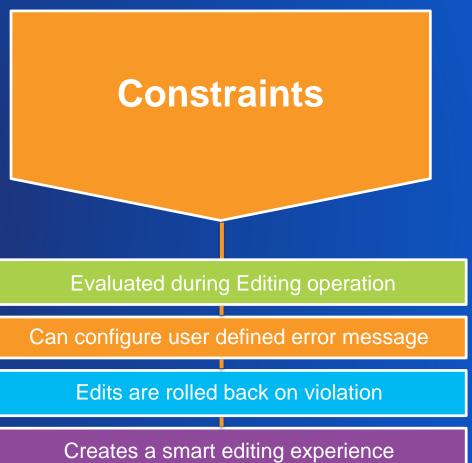
Batch Calculation

Evaluated using Validation Service

Constraints

Attribute Rules - Types







Ready To Use Rules

Reviewer Configurable Attribute Rules

Overview

Ready To Use Rules - Attribute Constraint Rules



Easily Configurable Attribute Rules (no scripting required)



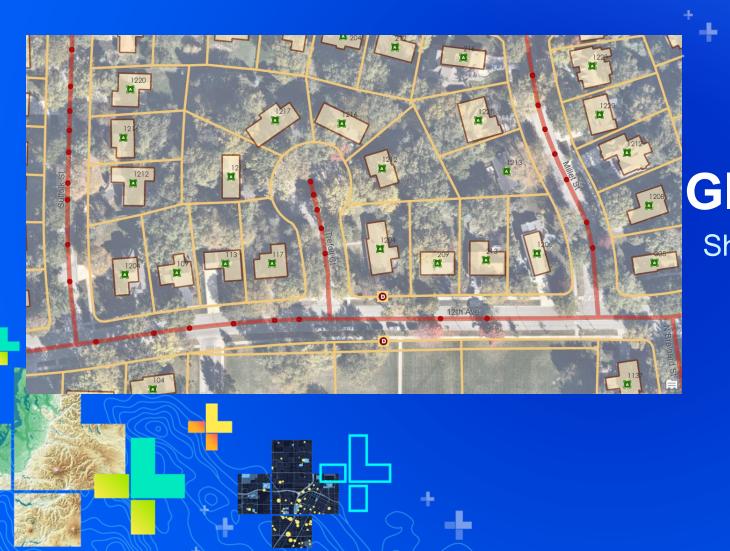
Templated Arcade scripts with parameters



Assess feature's Integrity and geometric properties



Evaluate Spatial relationship across feature classes



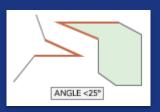
GIS Data Editor Demo

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Supported Checks

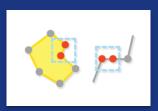
Ready To Use Rules

- Supported as part of constraints
- Assess a feature's
 - Integrity
 - Spatial relationships
 - Geometric properties



Cutbacks

Finds segments where the angle between segments in a polygon or polyline is below a specified minimum value.



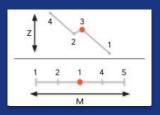
Duplicate Vertex

Finds vertices from the same feature that are collocated or within a specified tolerance of one another.



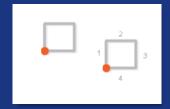
Feature on Feature

Finds features that have a specific relationship, either from two different feature layers or within the same feature layer.



Monotonicity

Searches Z or M-enabled polylines for vertices that are not strictly increasing or decreasing in value or are trending based on specified conditions.



Polyline or Path Closes on Self

Finds paths or lines in polyline features that close themselves.

Supported Checks (Contd.)

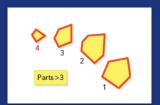
Ready To Use Rules

- Supported as part of constraints
- Assess a feature's
 - Allowed Geometric properties like Length, vertices, area or perimeter



Evaluate Polyline Length

Finds polyline segments, parts or features that have a line length within a specified tolerance.



Evaluate Part Count

Finds features with a part count that is within a specified value.



Evaluate Polygon Perimeter and Area

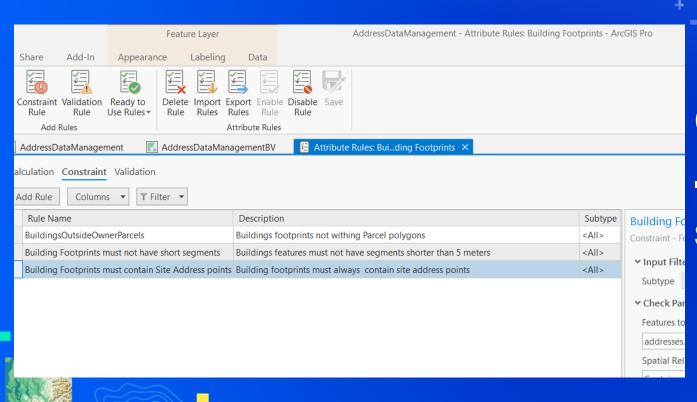
Finds polyline segments, parts, or features that have a line length within a specified tolerance.



Evaluate Vertex Count

Finds polyline or polygon features that have a vertex count within a specified tolerance.





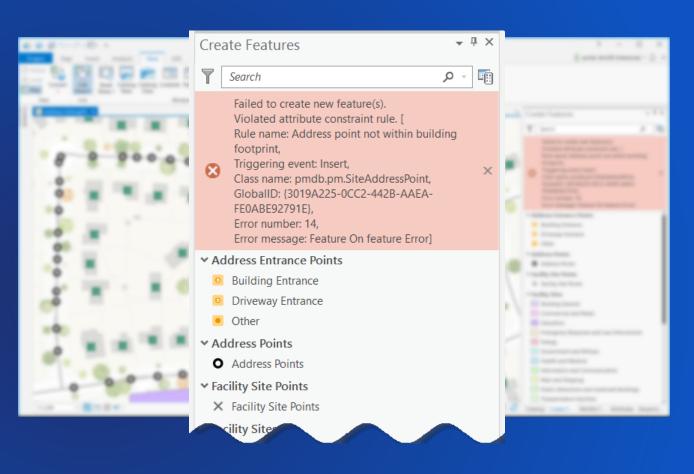
GIS Data Analyst - Configure Rules

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Evaluation

Ready To Use Rules

- Supported as part of constraints
- Triggered during
 - Creation
 - Modification
 - Deletion of a feature







Smart Editor - Demo

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Summary

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See Us Here

Tuesday

ArcGIS Data Reviewer: An Introduction (Offering #1) Room 30 C 08:30 am - 09:30 am

Wednesday

ArcGIS Data Reviewer: An Introduction (Offering #2) Room 30 E 08:30 am - 09:30 am

ArcGIS Data Reviewer: Implementing Ready-to-Use Rules across the Demo Theater 4 10:00 am - 10:45 am platform

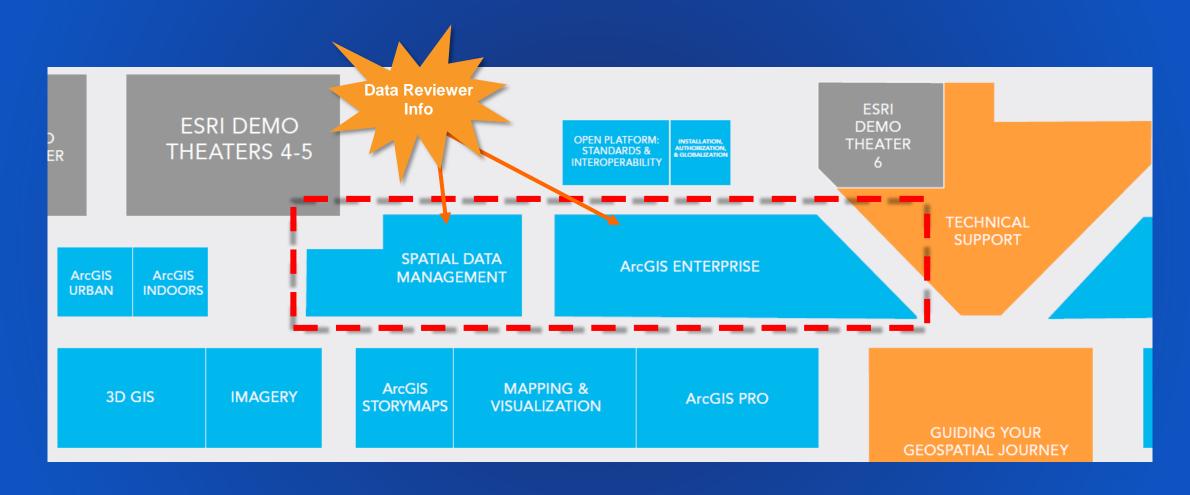
ArcGIS Data Reviewer: Deploying Data Quality Web Services Demo Theater 5 11:15 am - 12:00 pm

ArcGIS Data Reviewer: Validating linear-referenced events Demo Theater 4 11:15 am - 12:00 pm

Thursday

ArcGIS Data Reviewer: Advanced Data Validation Room 30 E 08:30 am - 09:30 am

See Us Here



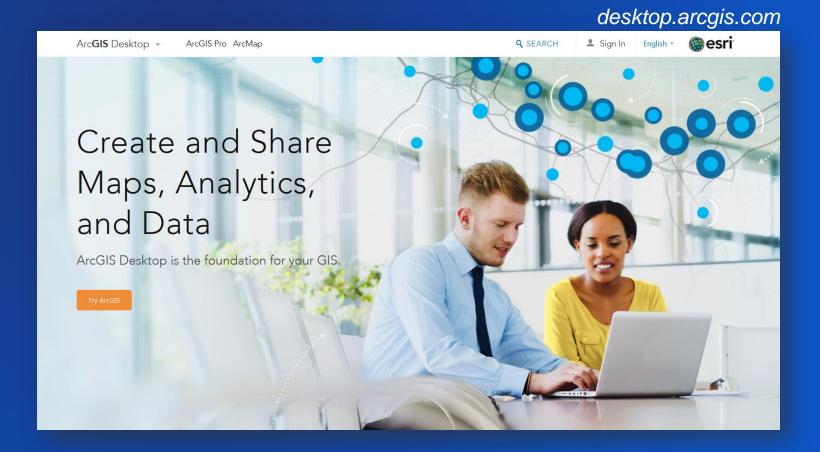
Product page

www.esri.com/datareviewer





- Documentation
 - Desktop



- Documentation
 - Desktop
 - Server

enterprise.arcgis.com ArcGIS Enterprise Portal Server Data Store Cloud Q 🚨 Sign In English 🗸 Data Reviewer Integrate data quality capabilities into your ArcGIS Enterprise workflows. Released Version: 10.6.1 (June 2018) | What's new | System requirements | Installation guide | Template gallery | Help archive: 10.3 Get Started Use ArcGIS REST or Manage quality feedback Report data quality Deploy data quality services JavaScript APIs Supplement out-of-the-box validation Monitor data health and identify error Automatically detect errors in your data checks with simple-to-use visual review Interact with ArcGIS Data Reviewer for trends in quality dashboards. Reduce risk

- Documentation
 - Desktop
 - Server
- Training





- Documentation
 - Desktop
 - Server
- Training
- GeoNet Community

GeoNet
The Esri Community

My News

Browse GeoNet
GIS > Solutions

GeoNet Resource Hub

ArcGIS Ideas



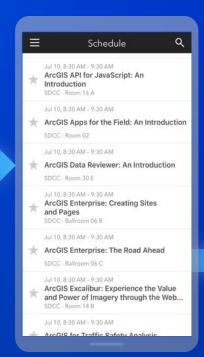


Please Share Your Feedback in the App

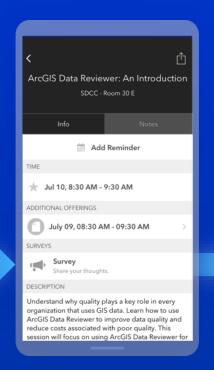
Download the Esri Events app and find your event



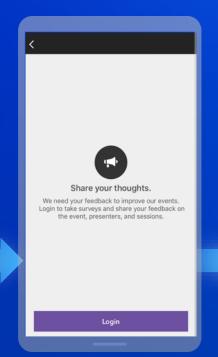
Select the session you attended



Scroll down to "Survey"



Log in to access the survey

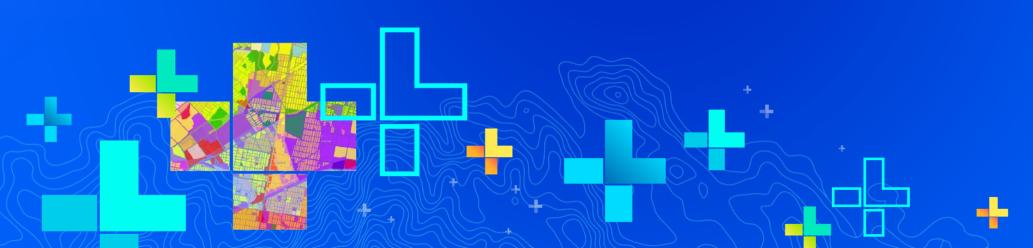


Complete the survey and select "Submit"





Questions?



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