

ArcGIS Data Reviewer : Leveraging Geoprocessing for data validation

CHANDAN BANERJEE

What is ArcGIS Data Reviewer?

Data Quality Management for ArcGIS

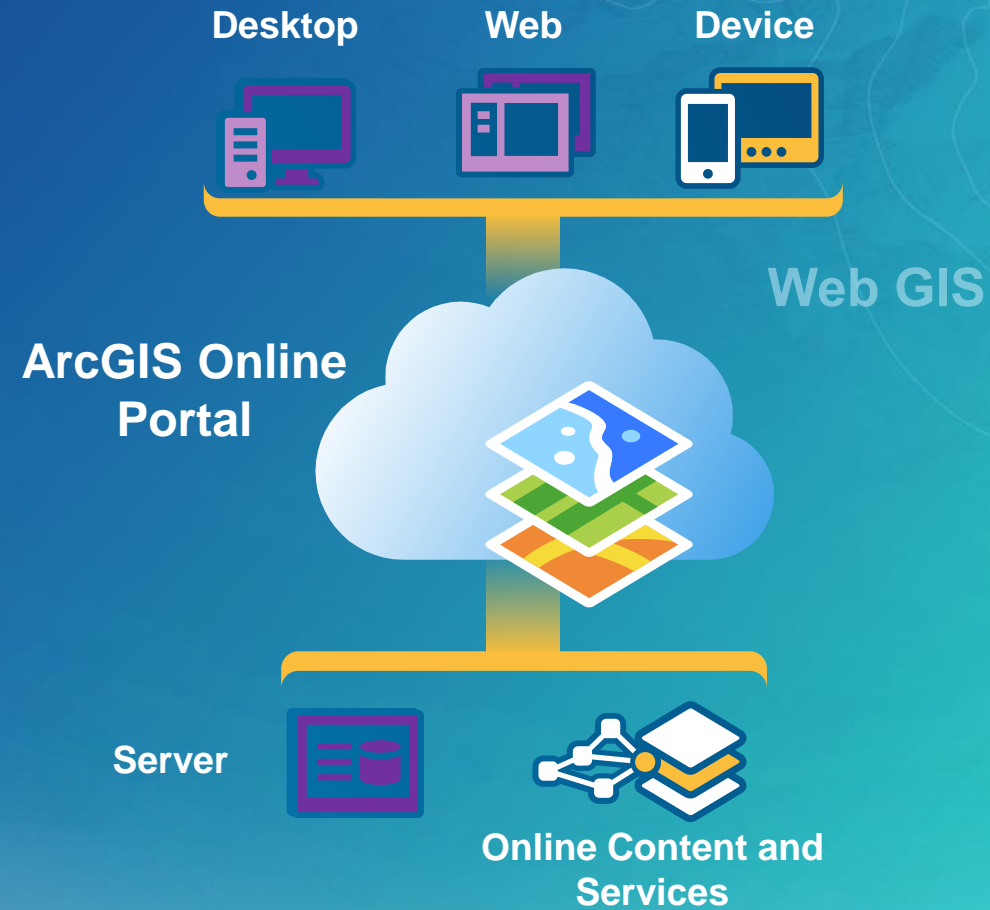
- Provides
 - Rule-based validation
 - Interactive tools
 - Track errors
- For individuals and enterprise
 - Saves time/money
 - Less rework
- For multiple domains
 - Configurable
 - Extendable



What is ArcGIS Data Reviewer?

Data quality management in the ArcGIS platform

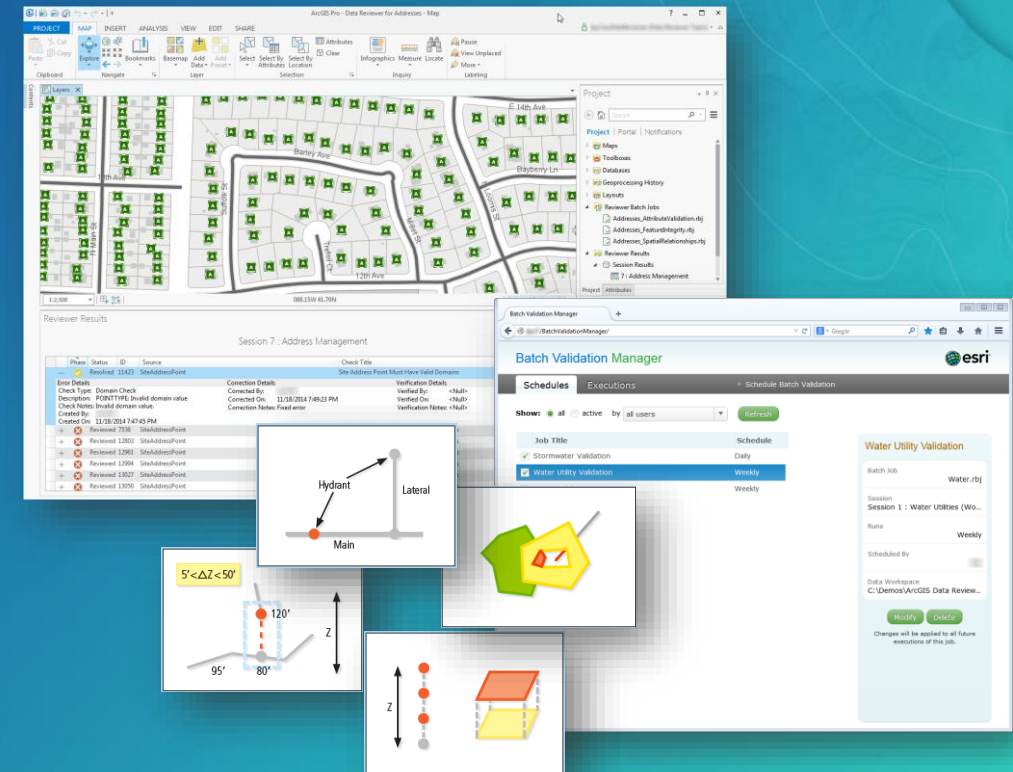
- Data Reviewer for Desktop
 - ArcGIS Pro
 - ArcMap
- Data Reviewer for Server
 - ArcGIS Server (standard or higher)
- Data Reviewer API
 - JavaScript
 - ArcGIS Pro SDK for Microsoft .NET
- Web AppBuilder for ArcGIS



ArcGIS Data Reviewer

Automate, Simplify, and Improve your Quality Control Process

- Extension to ArcGIS for Desktop and Server
- Supports complete QC process
- Provides
 - Rule based workflows
 - Interactive tools
 - Track errors
- Enables increased efficiencies
- Relevant to multiple domains

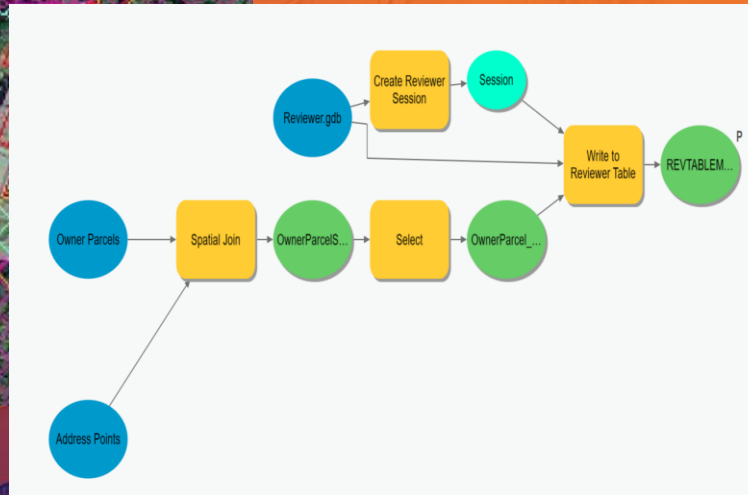


Data Reviewer GP Tools

At ArcGIS Pro 2.0, Data Reviewer has 5 GP Tools:

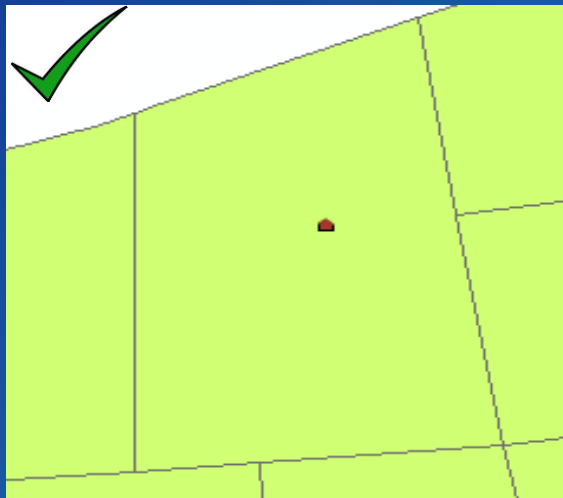
- Enable Data Reviewer
- Create Reviewer Session
- Execute Reviewer Batch Job
- Delete Reviewer Session
- Write to Reviewer Table

Leverage GP model to perform data validation

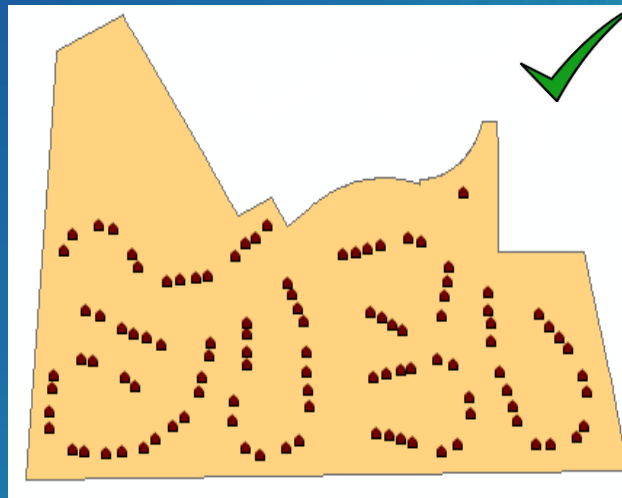


Leverage GP model to perform data validation

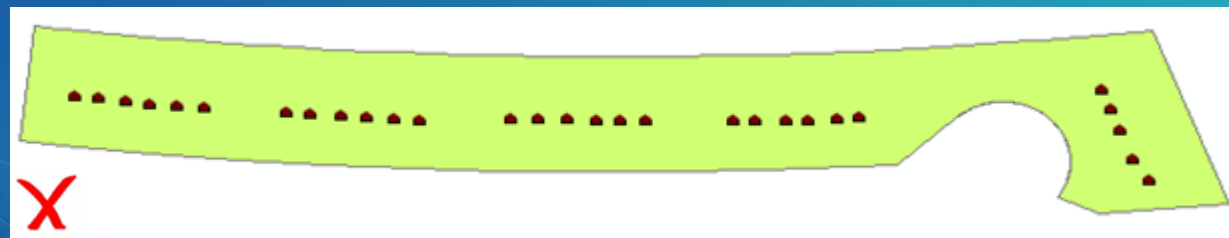
Business rule: Single family parcels must not contain more than one address



Single Family Home

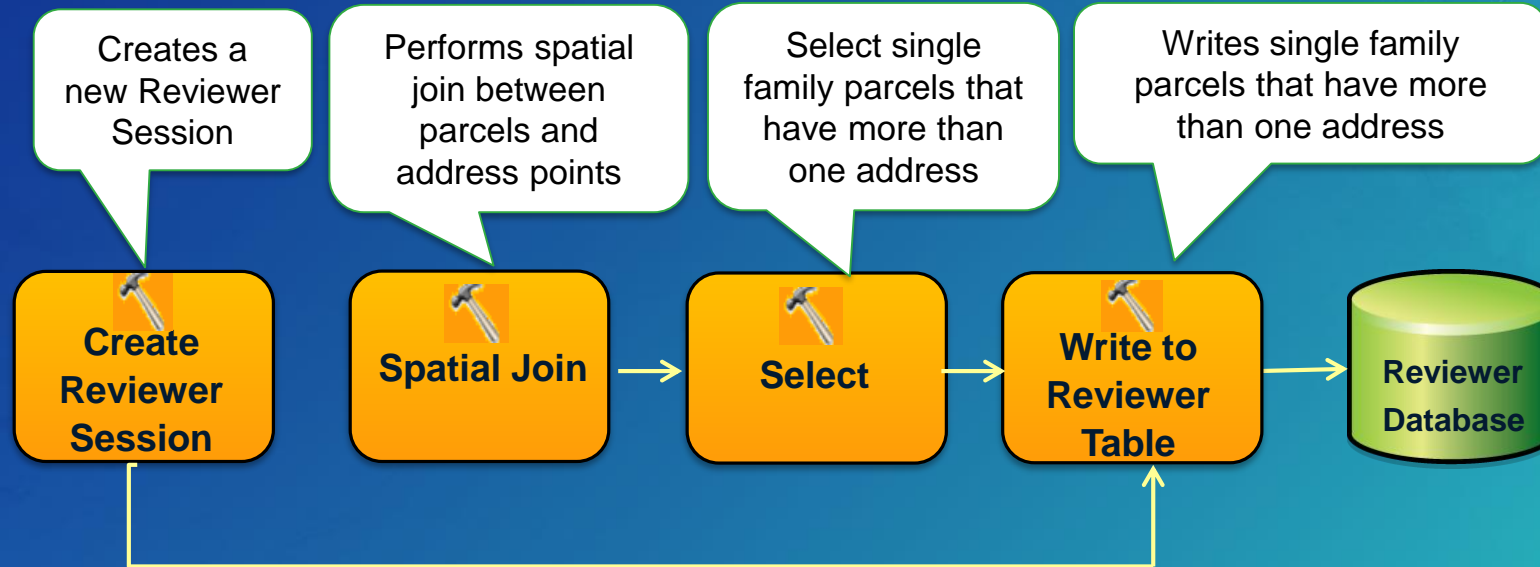


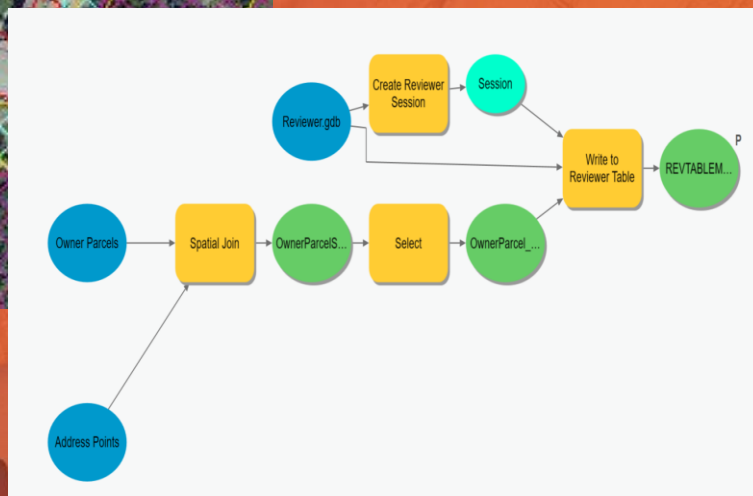
Apartment Complex



Single Family Home

Model






**Leverage GP
model to perform
data validation**

Summary

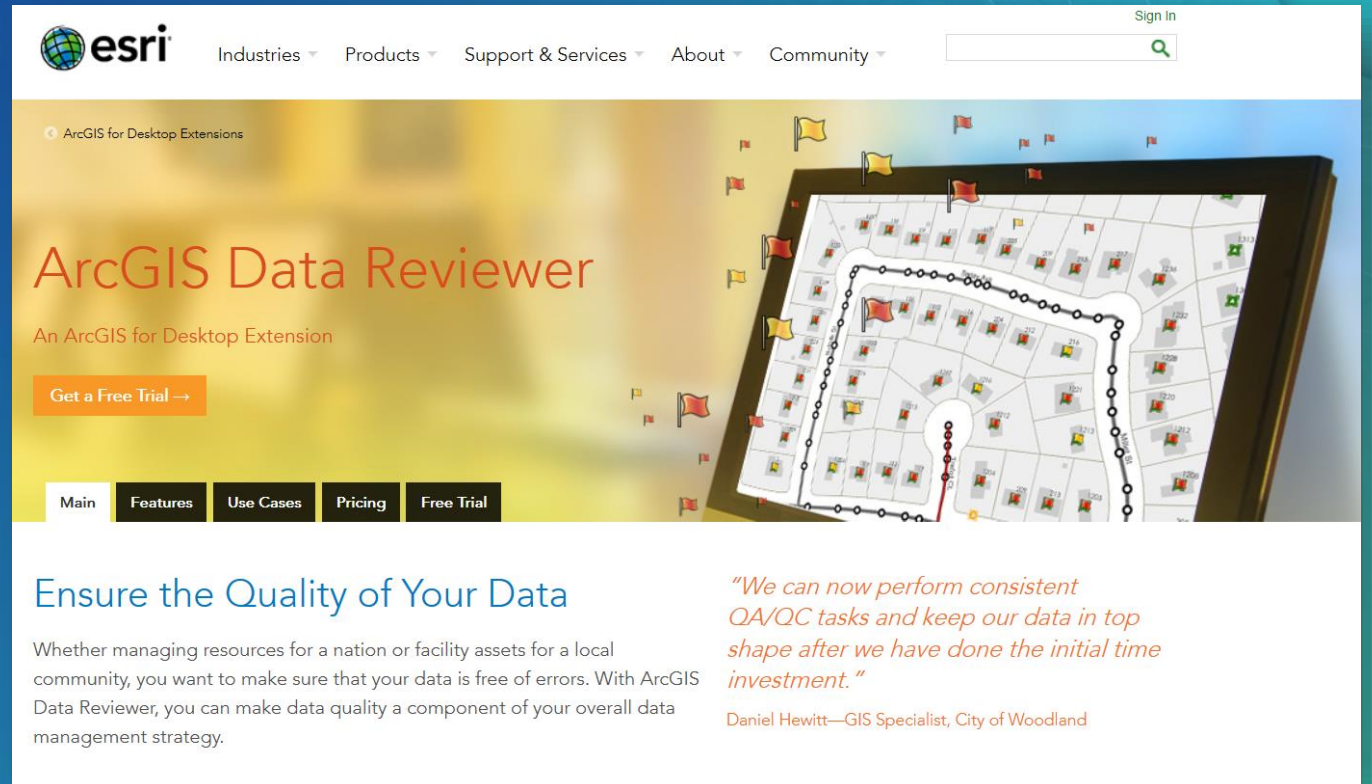
- **Data Reviewer extension**
- **ArcGIS Data Reviewer GP tools**
- **Write to Reviewer Table GP tool can be used to enhance data QC beyond the standard checks**

Want to learn more this week?

Day and Description	Type	Time	Location
Tuesday, July 11			
ArcGIS Data Reviewer: An Introduction	Technical Workshop	10:15 - 11:30am	Room 31B
Wednesday, July 12			
ArcGIS Data Reviewer: An Introduction	Technical Workshop	3:15 - 4:30pm	Room 31B
ArcGIS Data Reviewer: Integrating Data Validation Capabilities into Web Applications	Demo Theater	3:30 - 4:15pm	Demo Theater 8 Enterprise
ArcGIS Data Reviewer: Implementing Data Quality Reporting in Web	Demo Theater	4:30 - 5:15pm	Demo Theater 8 Enterprise
Thursday, July 13			
ArcGIS Data Reviewer: Advanced Data Validation	Technical Workshop	8:30 - 9:45am	Room 31A
ArcGIS Data Reviewer: Leveraging Geoprocessing for Data Validation	Demo Theater	9:30 - 10:15am	Demo Theater 6 Spatial Data Mgmt
 ArcGIS Data Reviewer: Validating Linear-Referenced Events	Demo Theater	10:30 - 11:15am	Demo Theater 6 Spatial Data Mgmt

Want to learn more?

- Product information
www.esri.com/datareviewer



The screenshot shows the ArcGIS Data Reviewer product page. At the top is the Esri logo and a navigation menu with links for Industries, Products, Support & Services, About, and Community. A search bar is located on the right. Below the navigation is a banner for 'ArcGIS for Desktop Extensions' featuring the product name 'ArcGIS Data Reviewer' in large orange text, followed by 'An ArcGIS for Desktop Extension' and a 'Get a Free Trial' button. To the right of the text is a 3D illustration of a tablet displaying a map with various colored flags and a white path. Below the banner is a horizontal menu with tabs for Main, Features, Use Cases, Pricing, and Free Trial. The main content area has the heading 'Ensure the Quality of Your Data' and a paragraph explaining the product's purpose. A quote from Daniel Hewitt, GIS Specialist at the City of Woodland, is displayed on the right side of the page.

esri Industries Products Support & Services About Community Sign In

ArcGIS for Desktop Extensions

ArcGIS Data Reviewer

An ArcGIS for Desktop Extension

Get a Free Trial →

Main Features Use Cases Pricing Free Trial

Ensure the Quality of Your Data

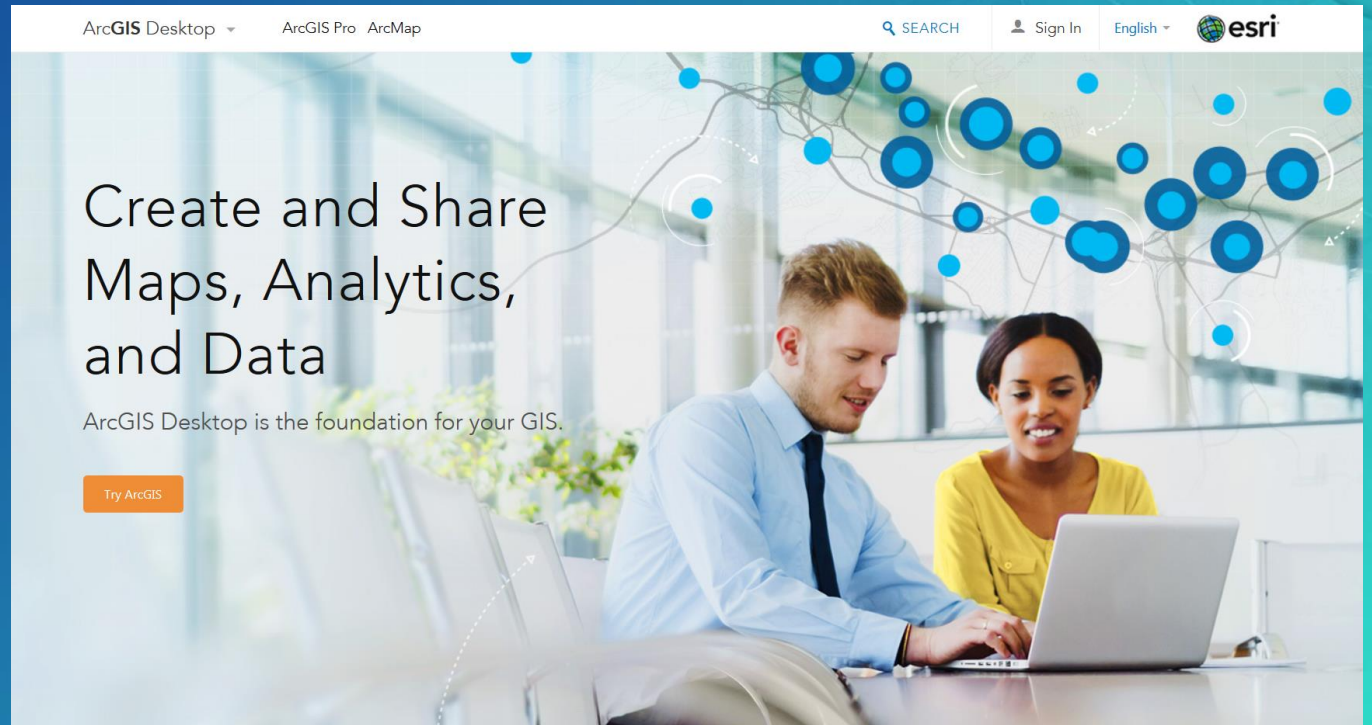
Whether managing resources for a nation or facility assets for a local community, you want to make sure that your data is free of errors. With ArcGIS Data Reviewer, you can make data quality a component of your overall data management strategy.

"We can now perform consistent QA/QC tasks and keep our data in top shape after we have done the initial time investment."

Daniel Hewitt—GIS Specialist, City of Woodland

Want to learn more?

- Documentation
 - Desktop (desktop.arcgis.com)



Want to learn more?

- Documentation
 - Desktop
 - Server (server.arcgis.com)

The screenshot shows the ArcGIS Data Reviewer for Server documentation page. The header includes navigation links for ArcGIS for Server, Documentation, Pricing, and Support, along with a search bar, sign-in link, and language selector. The main content area features a 'Released Version: 10.4.1 (May 2016)' section, a brief description of the tool's capabilities, and four featured topics: 'Find Dangles', 'Monotonicity', 'Deploy Data Quality Services', and 'Manage Quality Feedback'. Each topic includes a brief description and a 'Show me how' link. The bottom section highlights 'Report Data Quality' and 'Quality Review in Workflows'. A 'Quick Links' sidebar on the right provides shortcuts to various resources, and a 'Community and support' sidebar at the bottom right lists links to the blog, discussions, ideas, and technical support.

ArcGIS for Server Documentation Pricing Support

SEARCH Sign In English esri

ArcGIS Data Reviewer for Server

Home Help

Released Version: 10.4.1 (May 2016)

ArcGIS Data Reviewer for Server gives the ability to integrate data quality capabilities in workflows for web and mobile client applications.

Find Dangles

Finds polyline features with nodes that are within a user-defined tolerance but not connected to other polyline or polygon features.

Monotonicity

Finds polylines with vertices that are not strictly increasing or decreasing in value or are trending based on specified conditions.

Deploy Data Quality Services

Automatically detect errors in your data using out-of-the-box validation checks. Configure these checks to meet the unique business requirements of your industry or organization without writing custom code.

Show me how >

Manage Quality Feedback

Some errors in data get overlooked using automated methods. Implement simple-to-use visual review tools to identify missing or misplaced features, improperly attributed features, and other errors that can not be detected automatically.

Show me how >

Report Data Quality

Communicating the quality of data used in decision-making with analytical dashboards reduces risk and improves outcomes. Implement simple-to-use quality dashboards to monitor data health and identify error trends.

Quality Review in Workflows

Integrate comprehensive data quality control processes into your daily routine when using ArcGIS Workflow Manager. Ensure that the output of your work, whether it is hardcopy maps or web services, meets the defined level of quality.

Quick Links

What's new?
What is Data Reviewer for Server?
System requirements
Installation guide
[ArcGIS REST API](#)
[ArcGIS API for JavaScript](#)
[Template gallery](#)

New to ArcGIS?
[Learn ArcGIS lessons](#)
[Training courses](#)

Community and support



[Blog](#)
[Discussions on GeoNet](#)
[ArcGIS Ideas](#)
[Esri Technical Support](#)

Want to learn more?

- Documentation

- Desktop
- Server

- Training (*training.esri.com*)

-  - Assessing Data Quality using ArcGIS Data Reviewer (*Seminar*)
-  - Evaluating Positional Accuracy Using ArcGIS Data Reviewer for Desktop (*Seminar*)
- Data QC with ArcGIS: Automating Validation (*Web Course*)
- Data QC with ArcGIS: Visual Review (*Web Course*)
- Quality Control Using ArcGIS Data Reviewer for Desktop (*Instructor-Led*)

Want to learn more?

- Documentation
 - Desktop
 - Server
- Training
 - Assessing Data Quality using ArcGIS Data Reviewer
 - Evaluating Positional Accuracy Using ArcGIS Data Reviewer for Desktop
 - Data QC with ArcGIS: Automating Validation
 - Data QC with ArcGIS: Visual Review
 - Quality Control Using ArcGIS Data Reviewer for Desktop
- GeoNet (geonet.esri.com)
 - Data Reviewer place

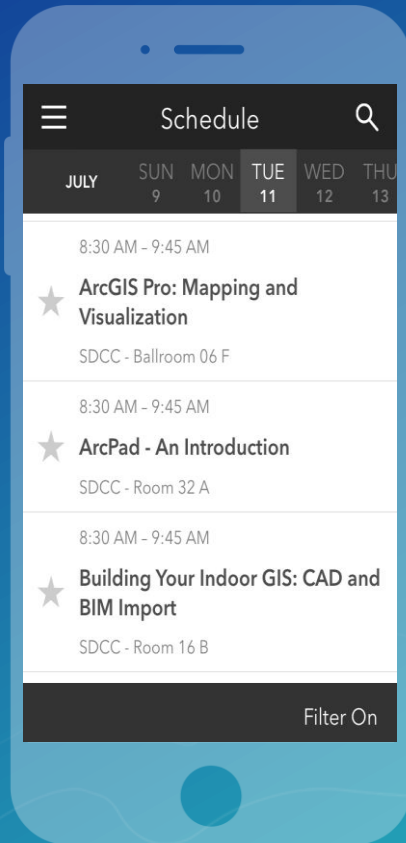


Please Take Our Survey on the Esri Events App!

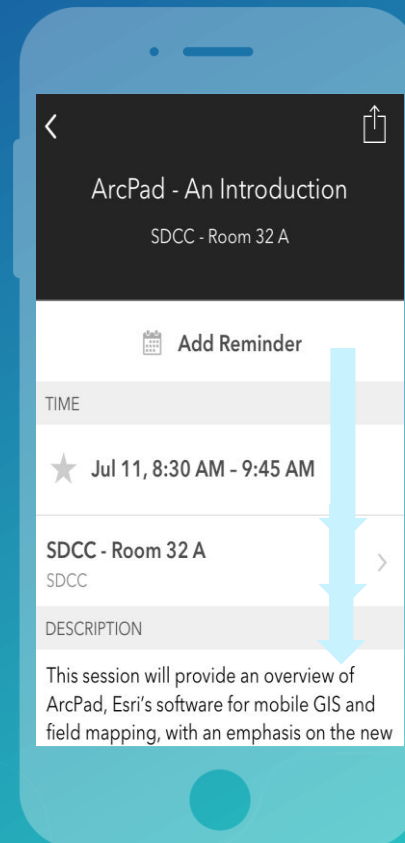
Download the Esri Events app and find your event



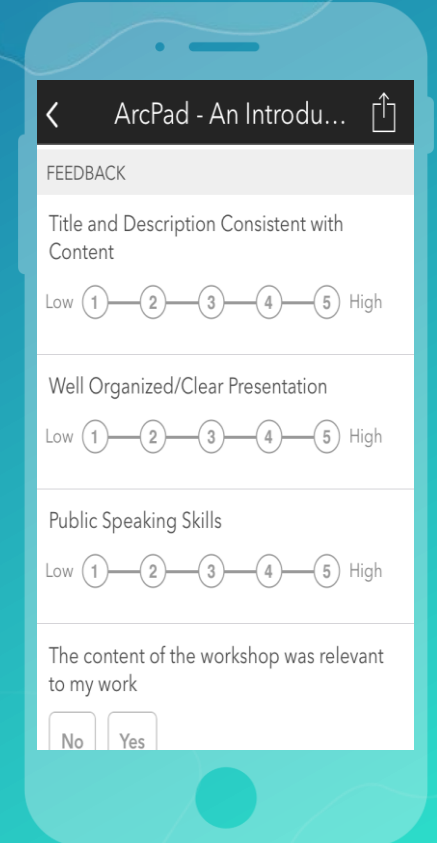
Select the session you attended



Scroll down to find the survey



Complete Answers and Select "Submit"





esri

THE
SCIENCE
OF
WHERE