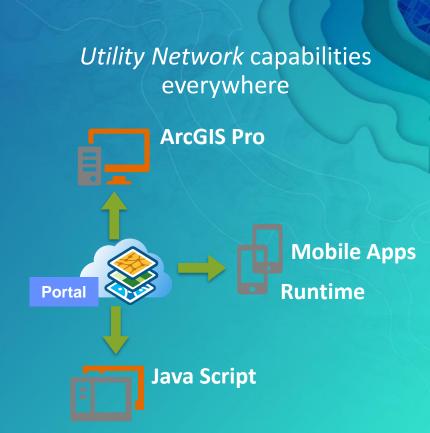


## The Network Management Project

**Vision Statement** 

- Esri's model for the next 10-15 years
- Services based architecture provides the ability to model, edit, and analyze complex networks across the entire Esri platform
- Rules enforce modeling concepts to better support true representations of assets in greater detail allowing for greater analysis
- Easy exchange of network information with other mission critical systems like DMS, WMS, network analysis...
- Simplified data models provides increased performance and a highly responsive editing and analysis environment



# **Getting Started**

1 Setup Portal

Learn ArcGIS Pro

Assess data

# Data Assessment

Common errors on utility networks

Overlaying lines

Missing relationships

Connectivity

# Challenges in Data Assessment

Limited procedures

Inconsistent procedures

Not measurable

How to clean up

# Organizing the Data Assessment

### **Basic Integrity**

Attributes
Null Values
Relationship Class
Unique ID

Geometry
Invalid Geometry
Multipart Lines
Short Segments

**Spatial Integrity** 

**Duplicate Devices** 

**Device Connectivity** 

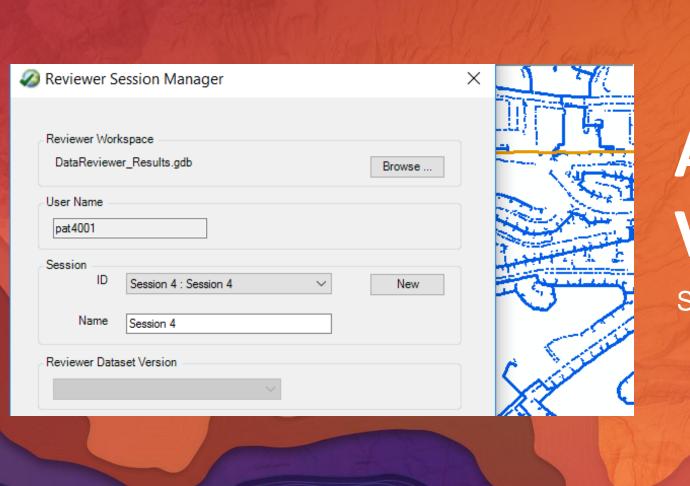
Overlapping Conductors

**Tracing Integrity** 

**Phasing Connectivity** 

**Voltage Connectivity** 

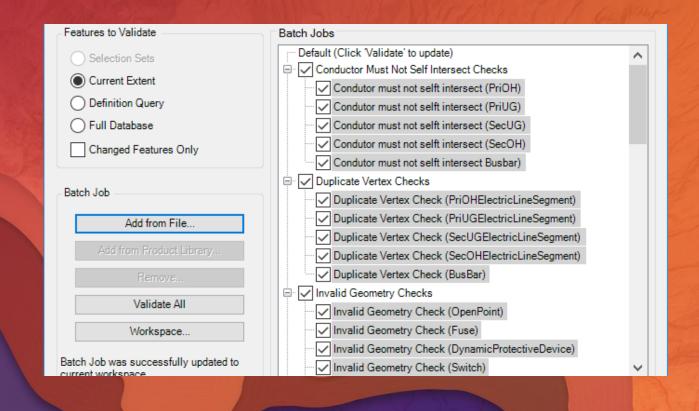
**Feature Connectivity** 



# **Automated Validation**

## **Automated Validation**





# Reviewer Batch Job

# Validation Results



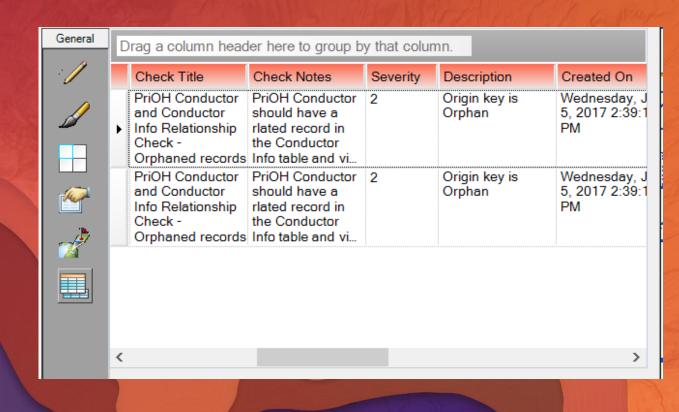
**Reviewer Workspace** 

Geodatabase Sessions



**Reviewer Table** 

Grouping Error Tracking



# Reviewer Workspace

### **ArcGIS Data Reviewer**

# **Quality Control Extension**





Automated Checks



Manual Review



Data Inspection



Reporting

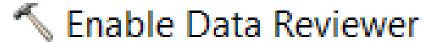




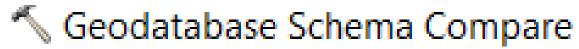














# **Additional QC** Tools

#### Lessons Learned

How to address Limited procedures

Basic, Spatial, and Tracing Integrity checks

How to address Inconsistent procedures

Batch Jobs

How to measure data quality

Reporting Tools

#### Resources

http://solutions.arcgis.com/

**Data Reviewer Templates** 

**Electric Utilities Gas Utilities** 

Addresses

Basemaps

Tax Parcels

**Water Utilities** 



#### Increase Quality of Utility Data

Data Reviewer for Electric Utilities is a preconfigured set of jobs for performing quality control on electric distribution data.



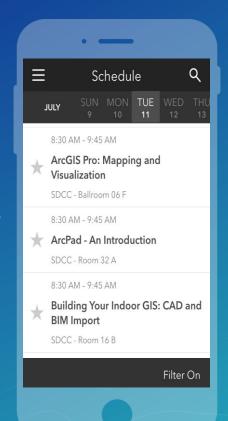


# Please Take Our Survey on the Esri Events App!

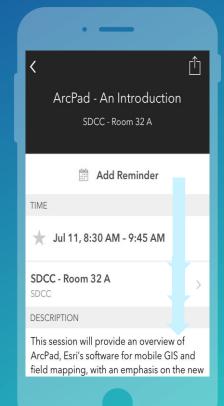
#### Download the Esri Events app and find your event



# Select the session you attended



# Scroll down to find the survey



# Complete Answers and Select "Submit"

