

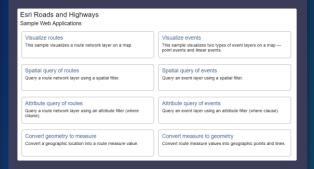
Esri Roads and Highways Solution Overview

Desktop



- LRS Network editing
- LRS management tools
- Geoprocessing tools
- Internationalized

Enterprise



- LRS web services
- Developer API samples
- Portal security and identity

Web Apps



- Event Editor
 - Web based Event editing
 - Address Management
- Roadway Reporter
 - Mileage reports
 - Road Log reports
- Bookmarks and saving Web Maps new in Event Editor for version 10.5.1

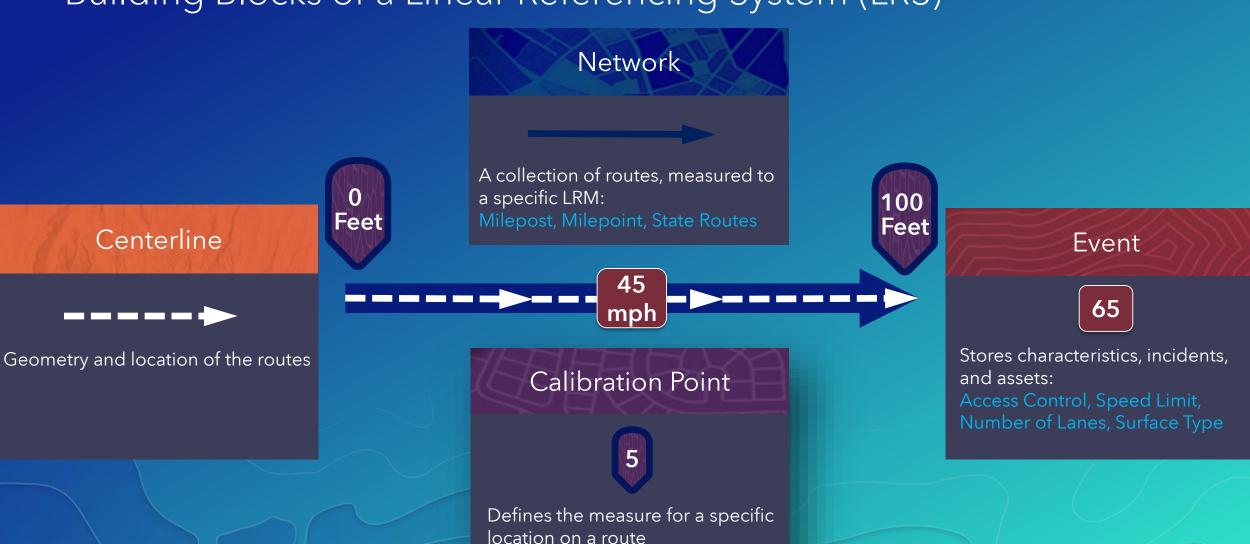
Community



- GeoNet
- GitHub
- Esri Support Services
 - Full support for solution
 - Log a support ticket on MyEsri

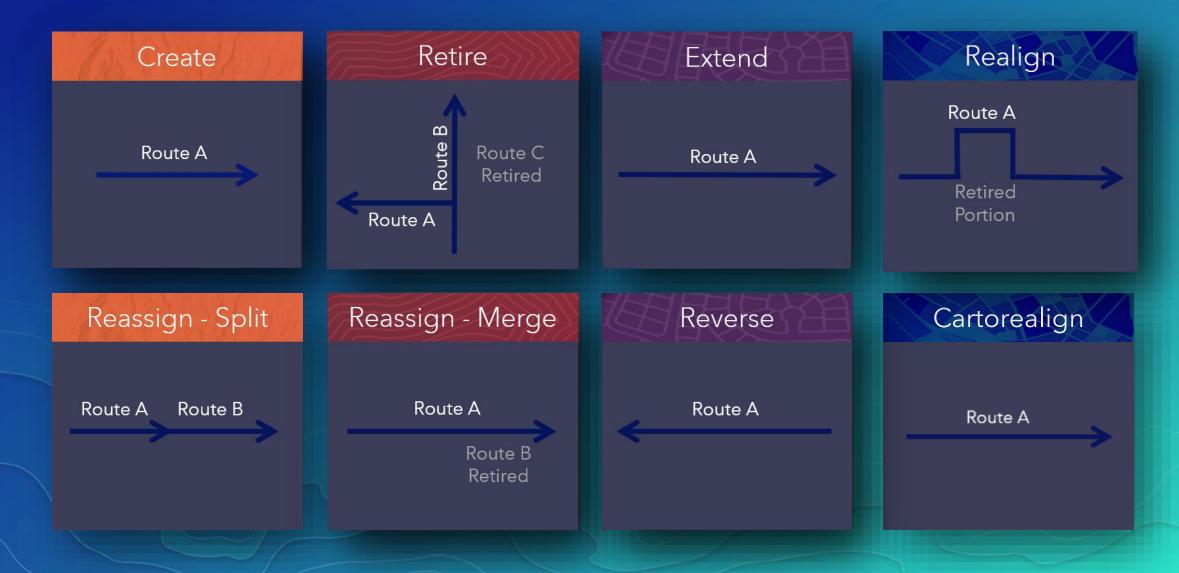


Building Blocks of a Linear Referencing System (LRS)





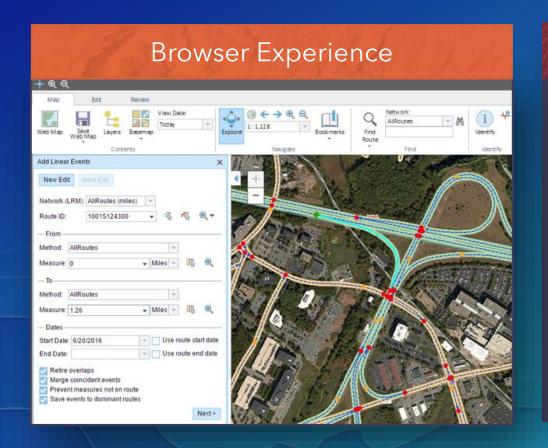
LRS Route Editing Tools





Event Editor

Take advantage of enterprise geodatabase versioned editing directly in your web browser



Selection

- Select By:
 - Route
 - Attribute
 - Geometry
 - Proximity
- View Results:
 - Single Layer
 - Attribute Sets

Editing

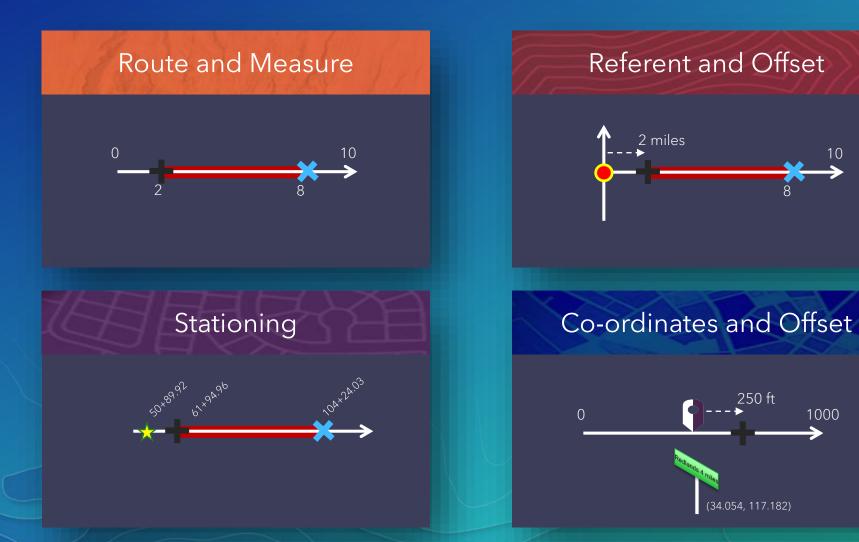
- Line Events
- Point Events
- Event Attributes
- Attribute Set Results

Quality Control

- Gaps
- Overlaps
- Invalid Measures
- Data Reviewer
 Batch Checks

Event Location Model

Flexibility in event location referencing

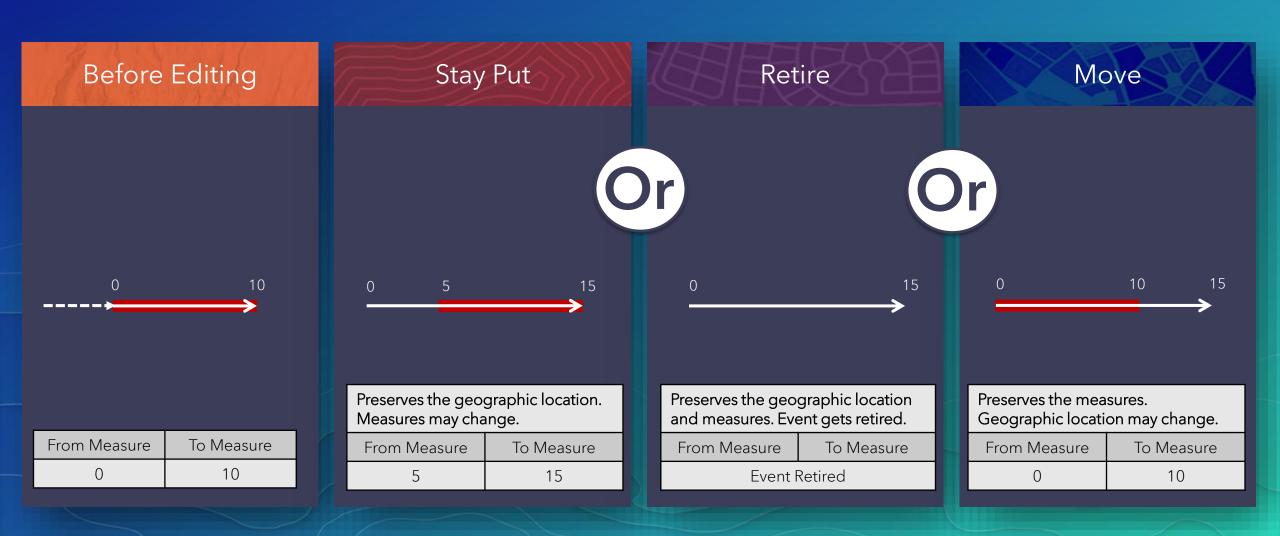


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Event Behaviors

After route edits, measure behavior rules can be applied to events automatically

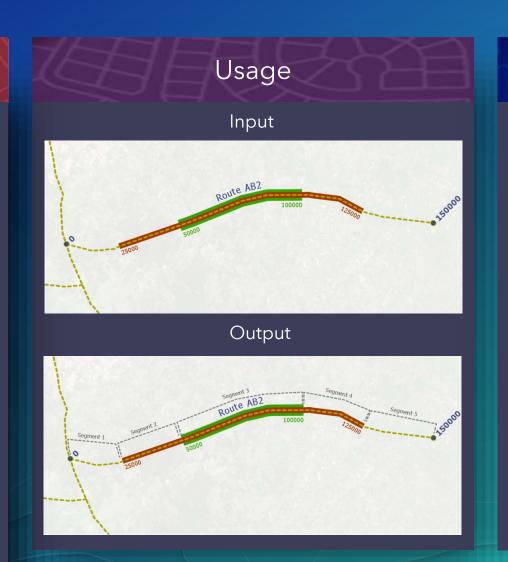


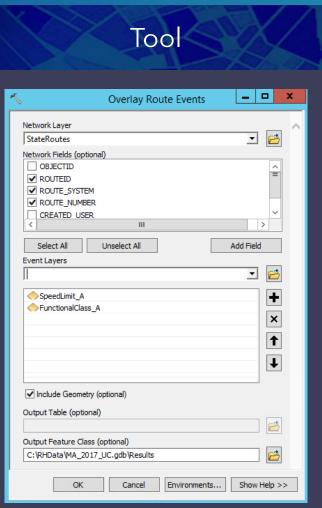


Geoprocessing Tools

Toolbox

- Append Events
- Calculate Route Concurrencies
- Convert M-value Units Of Measure
- Convert Table to CSV File
- Detect Gaps For Linear Events
- Detect Measures Out Of Range
- Detect Non-monotonic Routes
- Detect Overlaps For Linear Events
- Generate Events
- Generate Routes
- Overlay Route Events
- Relocate Events
- Translate Events From LRM To LRM
- Update Calibration Points
- Update Intersection Points

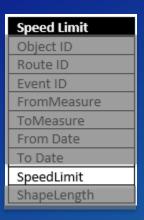






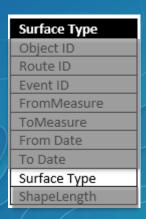
Attribute Sets

Collection of linear event attribute fields that can be edited as a logical group

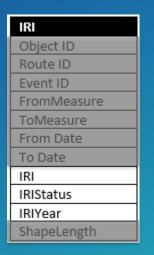


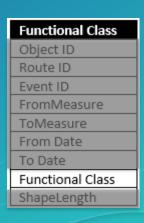






Attribute Set
Speed Limit
IRI
IRIStatus
IRIYear
TollRoad
FunctionalClass
AccessControl
SurfaceType

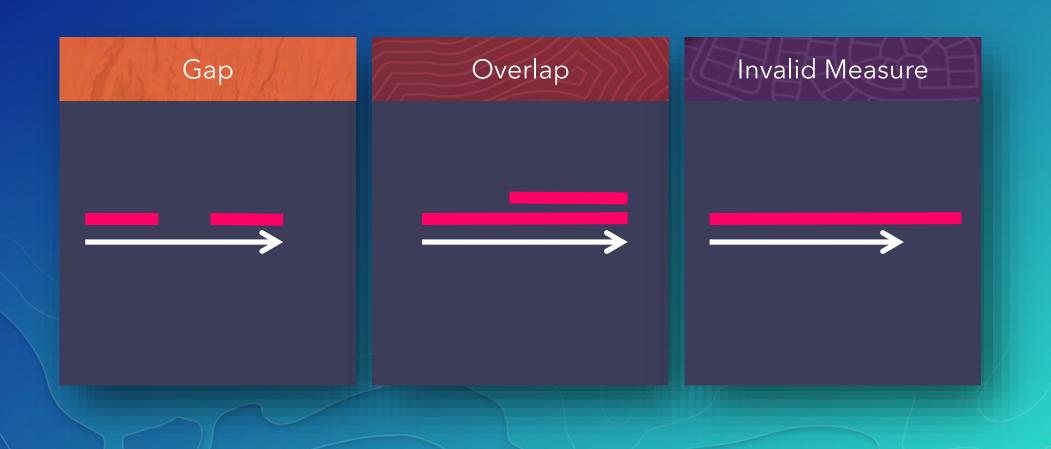






Event Quality Checks

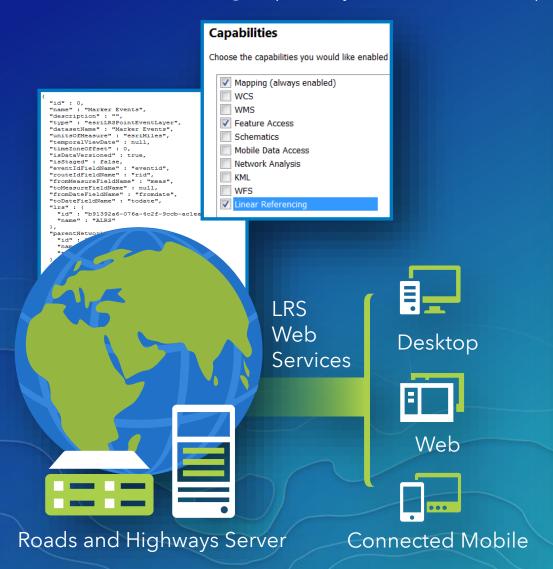
Checks to detect gaps, overlaps, and invalid measures within Event Editor





Roads and Highways Server

Linear Referencing capability for ArcGIS Enterprise



ArcGIS Enterprise

- Mapping
- Query
- Geoprocessing

- Enterprise security
- Scalability
- Identity

Roads and Highways Server Features

- Event editing
- Coordinate to measures
- Measure to coordinate
- Query attribute sets
- Measure translation
- Measure updates for external systems
- Check events for gaps, overlaps and invalid measures

- Integrated with:
 - ArcGIS Data Reviewer
 - ArcGIS Workflow Manager





Roadway Reporter

Reporting available across the enterprise from a web application

Mileage Report

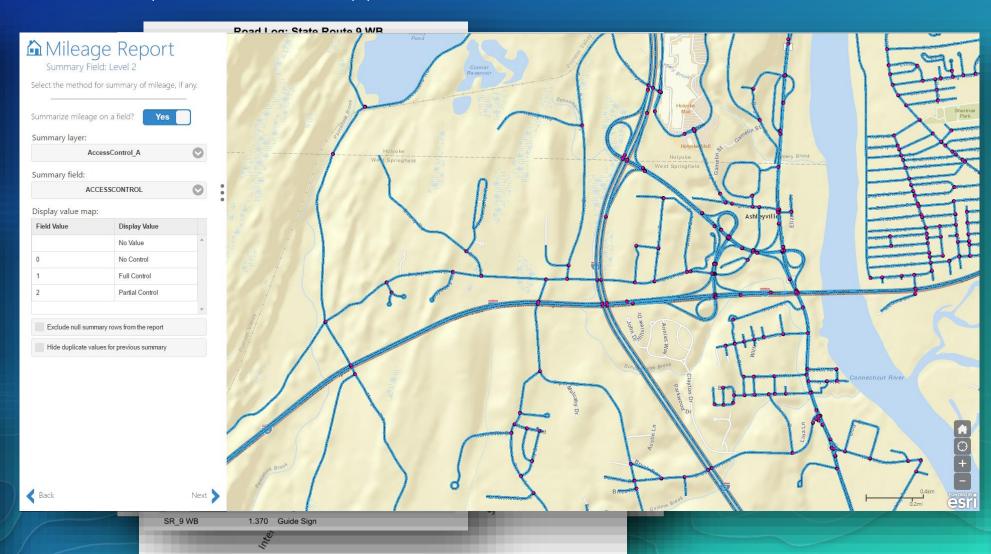
 Mileages for routes and events

Segment Report

 Dynamically segment event layers into one record set

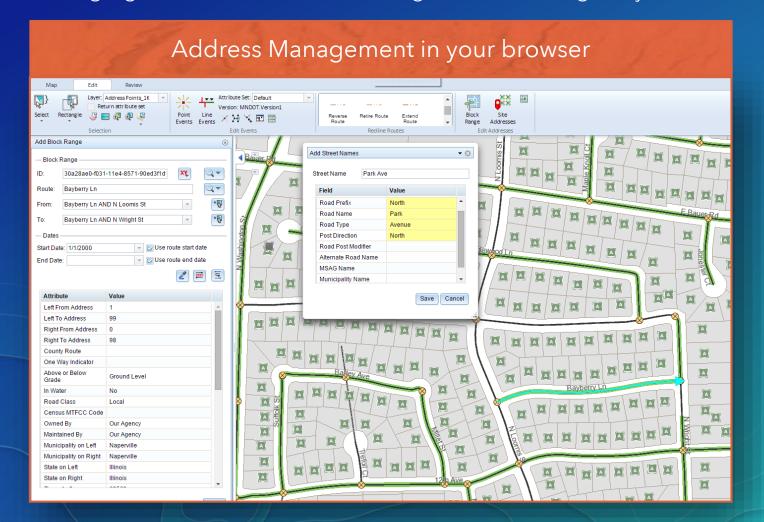
Road Log Report

 Logging events that occur in measure order when traversing a route



Address Management

Managing address information using Roads and Highways



Editing

- Add/Edit Block Ranges
- Add/Edit Site Address Points
- Add Master Street Names

Quality Control

- Fishbone Diagrams
- Data Reviewer Batch Checks

Roads and Highways Community

Community

Resources

- HPMS Geoprocessing Tools https://goo.gl/tVkjsB
- Sample Web Application https://goo.gl/YGXczN
- GeoNet (transportation) https://goo.gl/zDoj2f

Data and Data Models

- Sample Data https://goo.gl/t8Dko2
- Roadway Inventory Data Model https://goo.gl/Dbb8qE

GitHub

- Address Management https://goo.gl/SMFWKT
- Web App Builder sample widget https://goo.gl/bJrRRb

Esri Support Services

• Fully supported solution and extension - Desktop, Enterprise Server, and Web Apps - Domestic and Premium Support

Esri Roads and Highways Solution Roadmap*



Product releases, dates, and availability are estimates and subject to change



Thank you for attending

Questions?

¿Preguntas? الأسئلة؟

有问题吗?

Vragen?

Des questions?

Fragen?

प्रशन?

Le domande?

質問ですか?

Pytania?

Questões?

Вопросов?

Frågor?

คำถาม?

Sorular?

سوالات؟

Please Take Our Survey on the Esri Events App!

Esri Roads and Highways: An Introduction

SDCC - Room 31 B



Rahul Rakshit

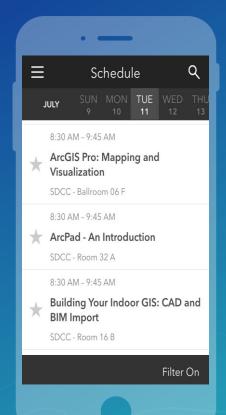


Matthew Ziebarth

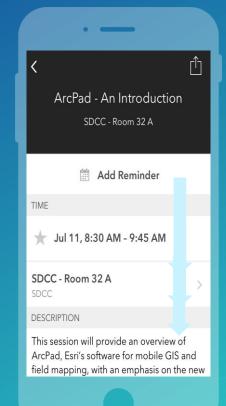
Download the Esri Events app and find your event



Select the session you attended



Scroll down to find the survey



Complete Answers and Select "Submit"

