Collector for ArcGIS: Using Relationships with your Inspection Workflows

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What we will cover today

- Relationship overview
- Feature to feature relationships
- Feature to table relationships
- Additional tips
- Q&A

Relationship Overview – Part 1

- Cardinality
  - 1 to 1 – ex. Parcel related to its legal description, etc.
  - 1 to m – ex. Asset inspections, single owner with many parcels, etc.
  - M to m – ex. Property has several owners, owners have several properties

  *Note – m to m is not supported in Collector

- Types
  - Simple – Parent and child records independent
  - Composite – Parent and child records feature linked

Relationship Overview – Part 2

- **Setups**
  - **Basic – ex. Parent > Child**
  - **Nested tables – ex. Parent > Child > Grandchild 1 > ……**
  - **Multiple tables – Parent > Child 1**
    > Child 2
    > …….

  Pairings
  - **Feature – to - Feature**
  - **Feature – To – Table**

Relationship Overview – Part 3

- Setting up primary and foreign key fields
  - GlobalID (parent)-> GUID (child)
  - User defined ID (parent)-> User defined ID(child)

Note: ObjectID based isn’t supported.

Field inspections setup - How to choose? (Part 1)

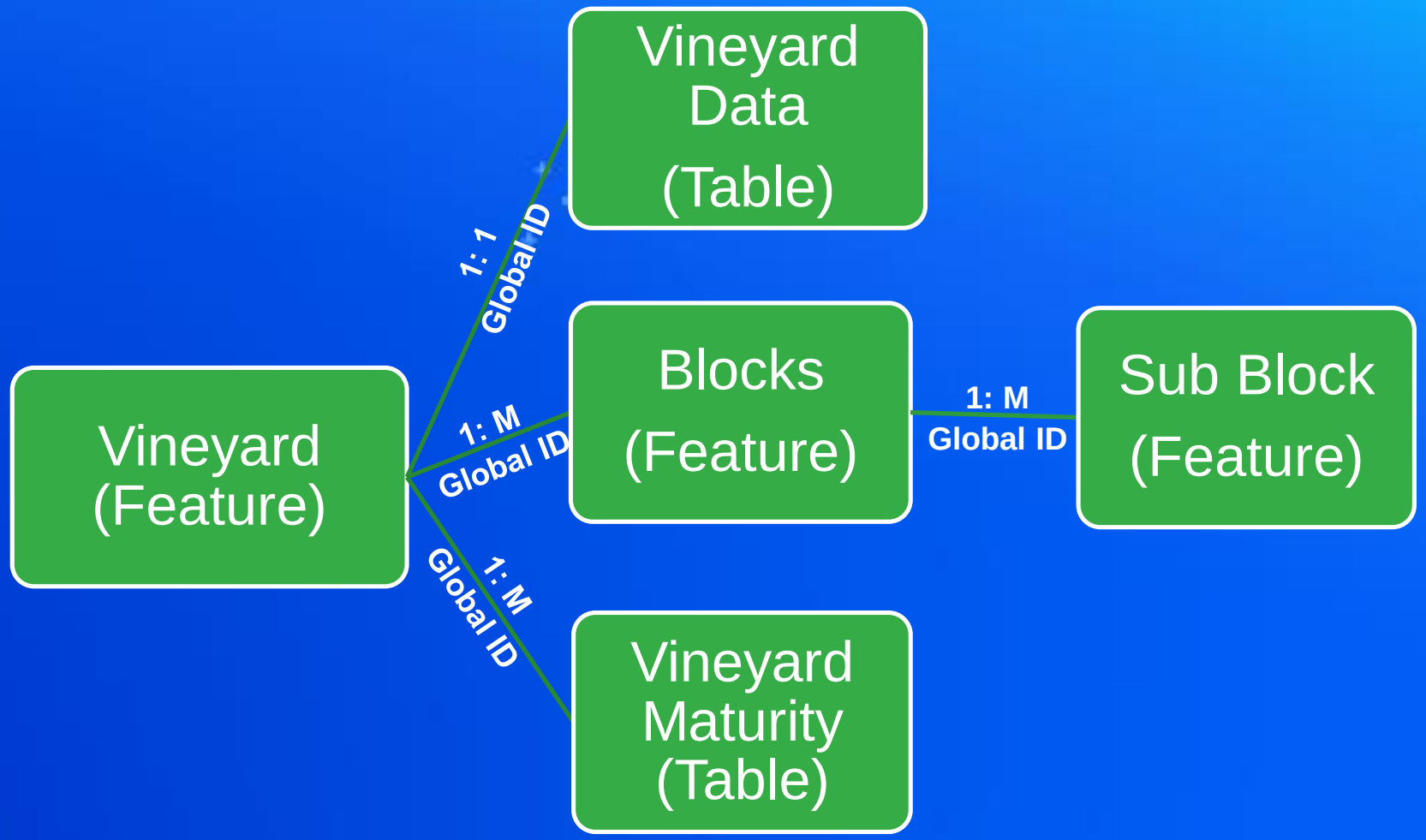
- Cardinality
  - Will multiple inspections occur for the asset throughout its life?
  - Do I want/need to maintain an audit trail for past inspections?
- Types
  - Do I want to maintain past inspection records in the event the asset feature were removed/replaced?
- Setups
  - What type of inspection am I performing?
  - How many tables do I require to properly inspect the desired asset?
  - Is the asset itself being inspected or some other related component of it?

Field inspections setup - How to choose? (Part 2)

- Pairings
  - Can the location of the inspection record be derived from the main parent features location?
- PK/FK fields
  - Should I manage keys or system manage keys?

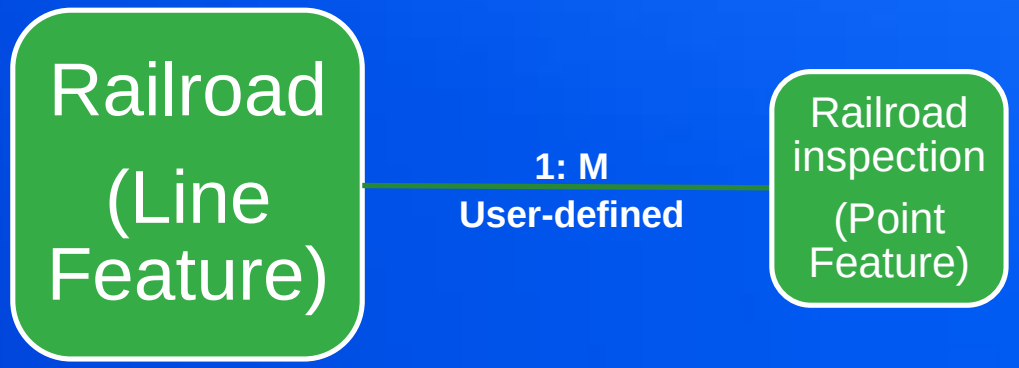
Demo

Feature-To-Feature – Part 1 - Simple



Demo

Feature-To-Feature – Part 2 - Composite

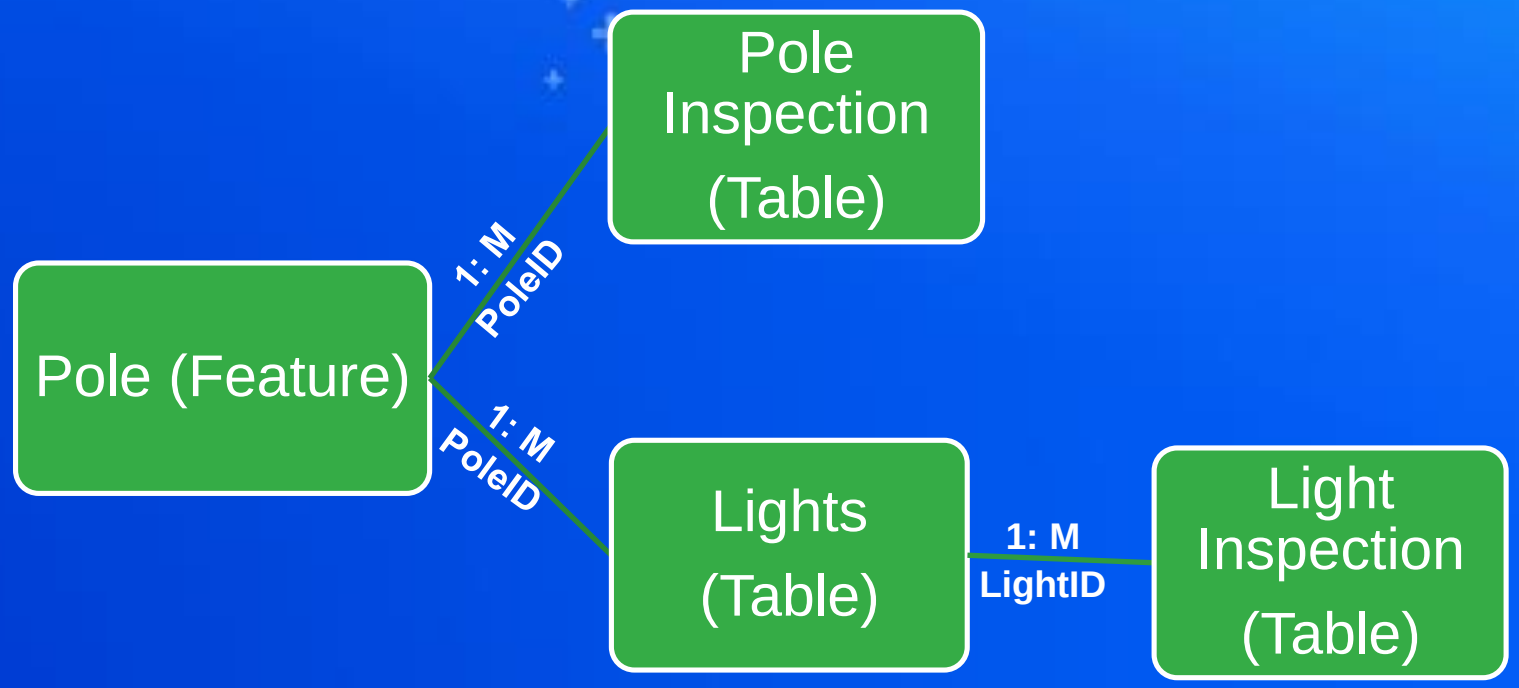


Demo Recap

- Relationship setup
  - Feature to Feature relationship
  - Simple vs. Composite
  - GlobalID based vs. user-defined
  - Sort options
  - Improved UX
  - Capturing attachments for child features

Demo

Feature-To-Table



Demo Recap

- Relationship
  - Feature to table relationship
  - User defined ID based
- Copy related records
- Join view to show inspected or not (can’t taken offline)
- Refresh interval
- Feature search with barcode
- Disabled editing on parent feature
- Improved UX

Additional Tips:

- Make sure to include all related tables in your map document before you publish as a feature service.
- Where possible use GlobalID fields to model relationships and enforce referential integrity
- When authoring your web map, make sure to enable pop-ups on the related tables and spend the time to rename layers and configure the title, sort options and fields.

Q & A

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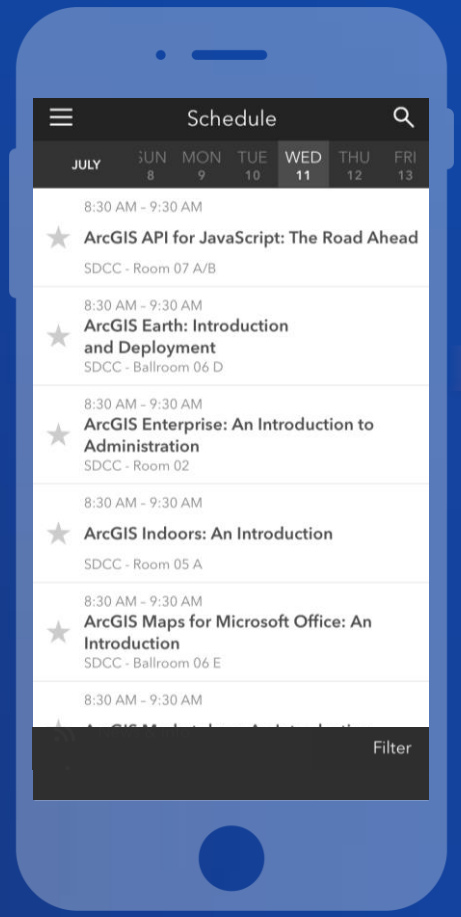
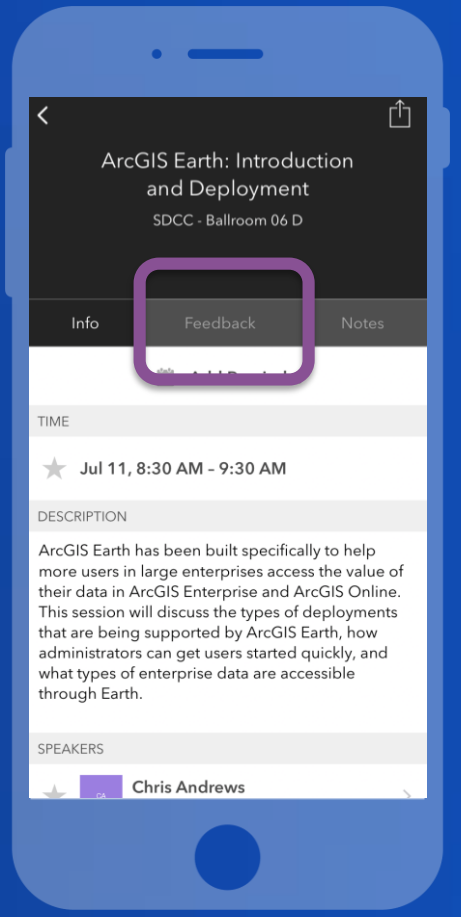
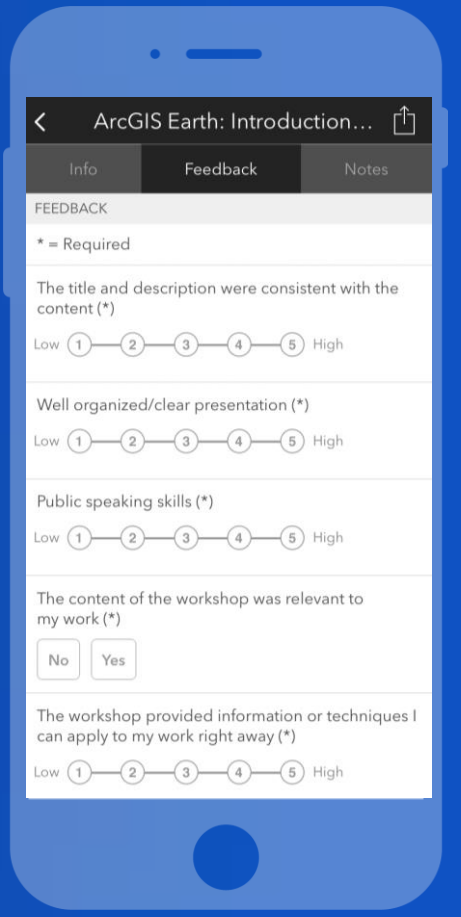


Scroll down to find the feedback section



Complete answers and select “Submit”



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