



# Using Relationships with your Inspection Workflows

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# Agenda

What are we going to cover today?

- **What are relationships**
- **Working with relationships**
- **Demo**

# What are relationships?

## Meaningful connections

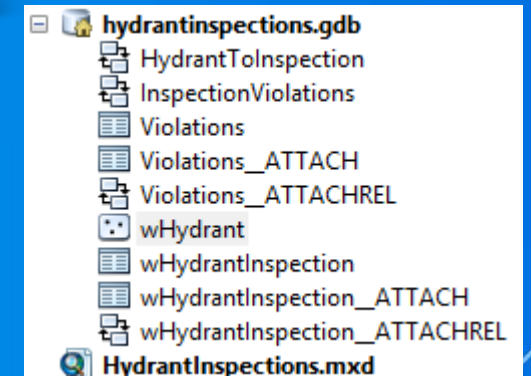
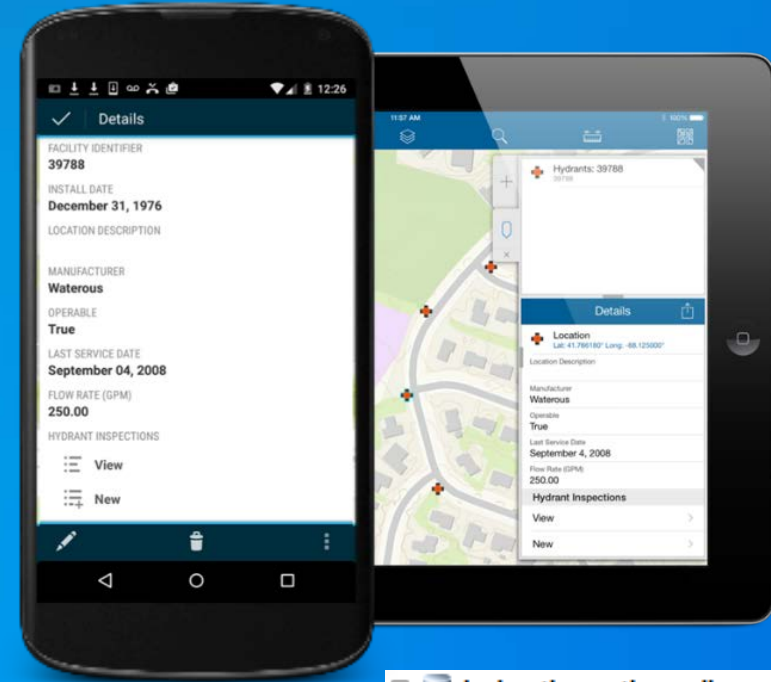
- A simple way to say in a database that some things (observations, features) relate to one another.
  - E.g. A pole has lights. Lights on a pole are related to the pole
  - Nest them together: A pole has inspections and lights and lights also have inspections
    - Combine it all together and you have a data collection form that lets you: create new lights, inspect new or existing lights, create new poles and also inspect new or existing poles
- Great for inspection workflows when you want a running history of every inspection



# Working with relationships

Did someone say inspections?

- Relationships are incredibly powerful for collecting information in the field
- Collector workflow is inspection oriented
- Requires ArcGIS Sever 10.3 or higher or AGO hosted services
  - If you are using server and archiving install <http://support.esri.com/en/downloads/patches-servicepacks/view/productid/66/metaid/2196>
- We support both feature and table based relationships
  - One to Many and One to One
  - The feature service supports three relationship levels deep
  - Collection of a new related record has to start with a feature, it cannot start directly from a table





# Working with relationships

Did someone say inspections?

- By default children features are not shown in the collect tool, to avoid orphaned records.
  - Advanced setting in Settings can override that for specific workflows
- Recent update of ArcGIS Online fixed a number of sync issues related to related records
- Strongly recommend using GUID based relationships
  - With user maintained relationships, records can be orphaned
- We do not support attributes fields directly on the relationship class

The screenshot shows a mobile application interface for an inspection form. The form is titled "Inspected February 18, 2015" and includes fields for Pressure (PSI), Facility ID, Inspector, and various required items (Chains, Paint, Marker, Lubrication, Stamped, Greased, Drain). A dropdown menu is open over the "Violations" field, showing options for "View" and "New".

Field	Value
Pressure (PSI)	45.00
Facility ID	39788
Inspector	Jeff Shaner
Chains Req'd?	No
Paint Req'd?	Yes
Marker Req'd?	No
Lubrication Req'd?	No
Stamped?	No
Greased?	No
Drain?	No
NOTES	
Inspection Date	February 18, 2015

Violations dropdown menu options:

- View
- New

# Relationships with

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# Questions ?

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- Using Relationships with your Inspection Workflows - (481 / 2618)
- Using Relationships with your Inspection Workflows - (481 / 2629)





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