



Esri International User Conference | San Diego, CA
Technical Workshops | Thursday, July 14, 2011 – 10:15 AM

Loading CAD data into the Geodatabase

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Agenda

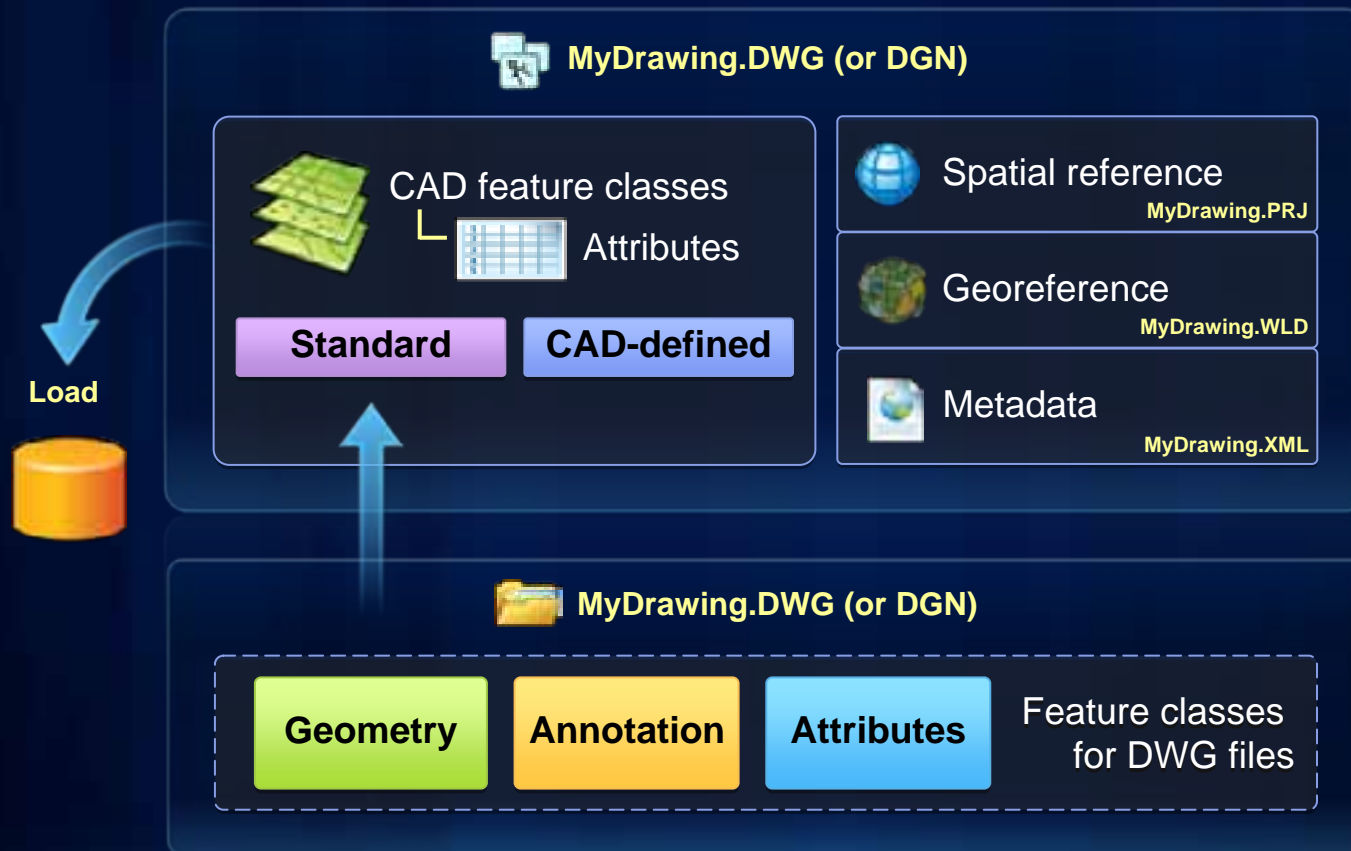
- **What is the direct-read CAD data model?**
- **Best practice geoprocessing tools**
- **The ETL pattern**
- **Extracting data**
 - Demo (loading geometry)
- **Loading CAD annotation that sizes correctly**
 - Demo (loading annotation)

The direct-read CAD data model



The direct-read CAD data model

Organizes and displays contents in ArcGIS desktop applications



Best practice tools



Best practice tools

Tools that accept a dataset, feature class or feature layer as input

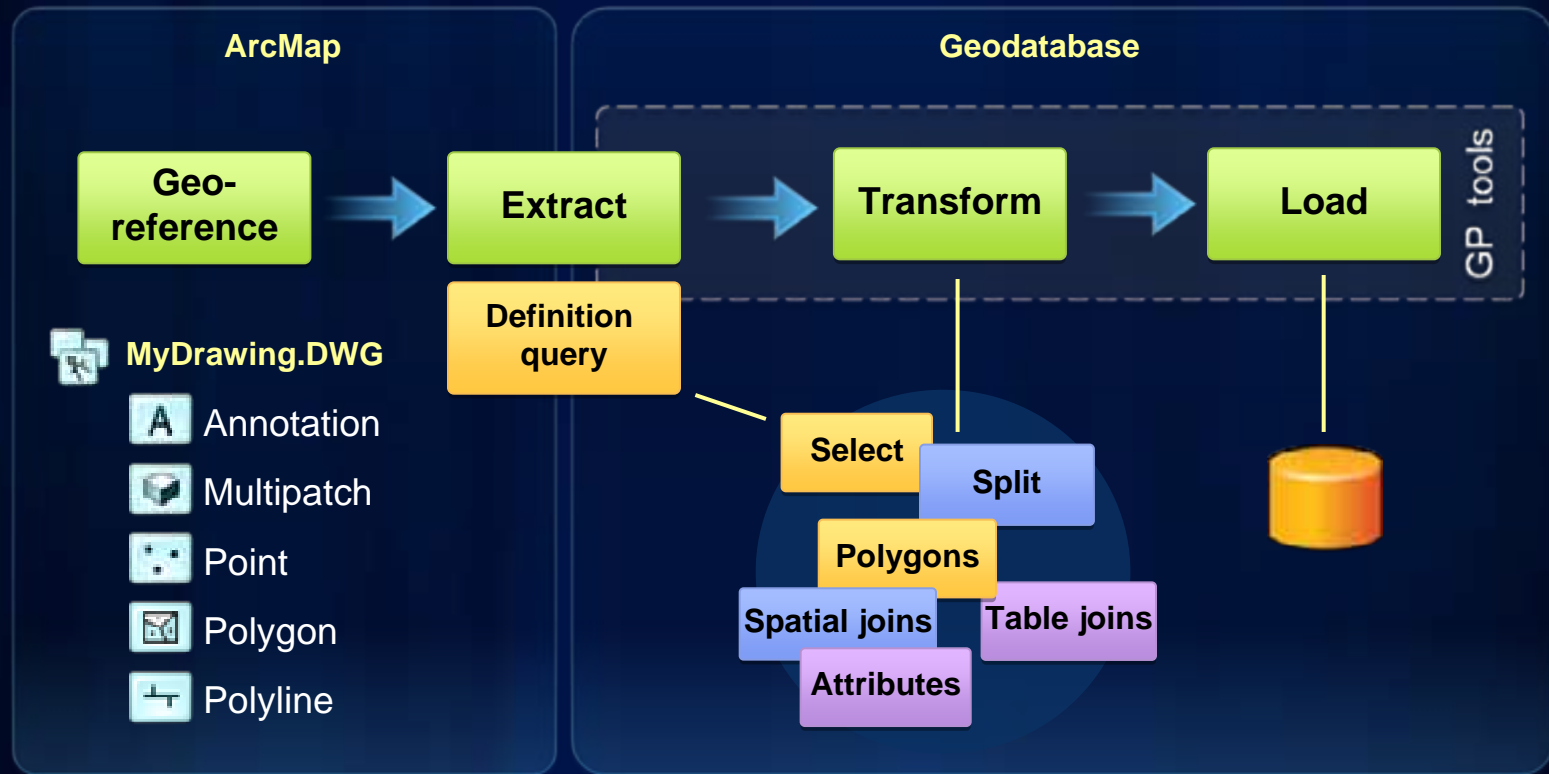
- Copy Features
- ✓ • Feature To Polygon
 - Feature Class To Feature Class
- ✓ • Delete Fields and Append
 - CAD To Geodatabase (complete datasets)
- ✓ • Import CAD Annotation (annotation only)

The ETL pattern



The ETL pattern

CAD conversions follow a common ETL pattern

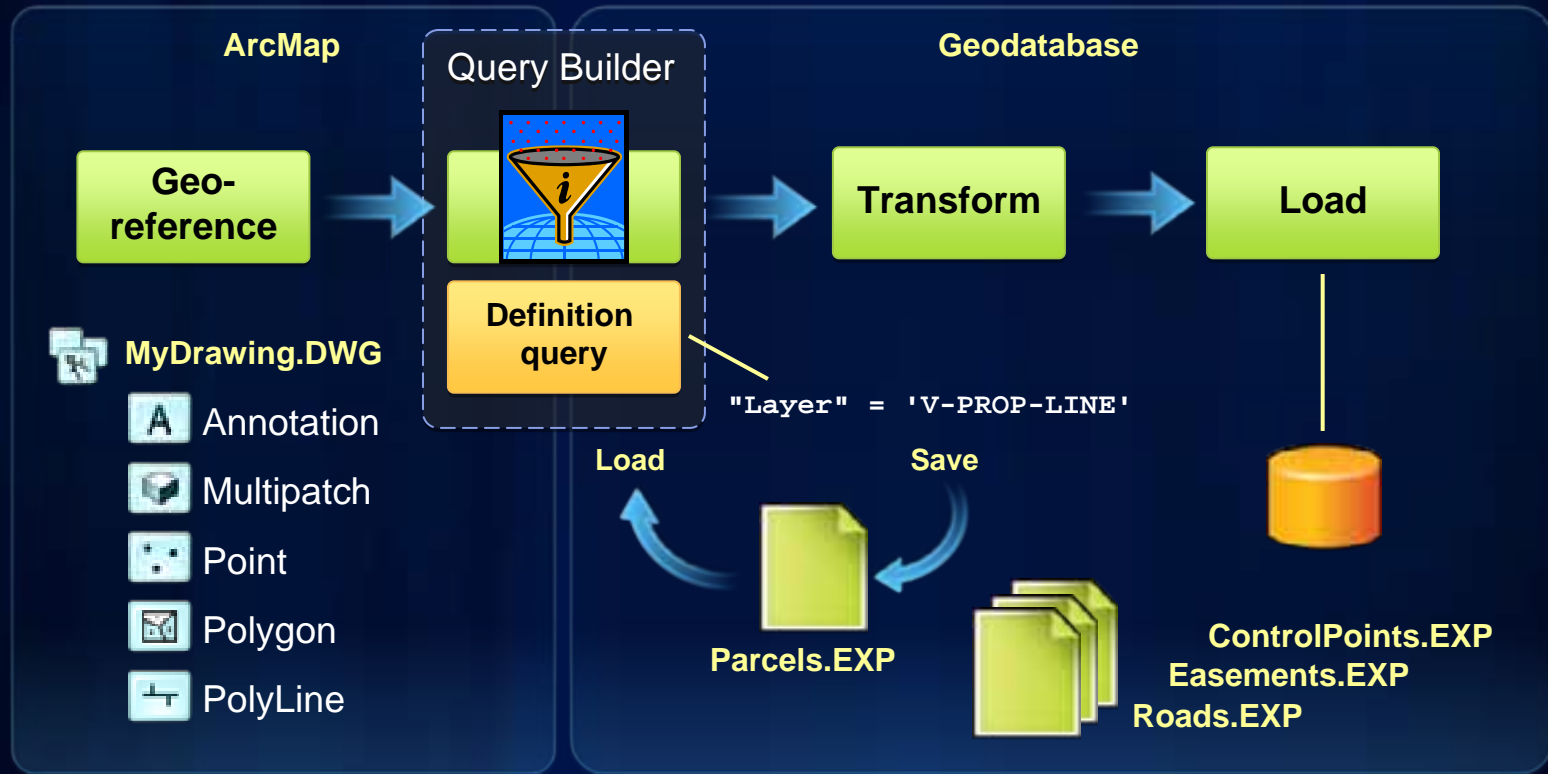


Extracting CAD data

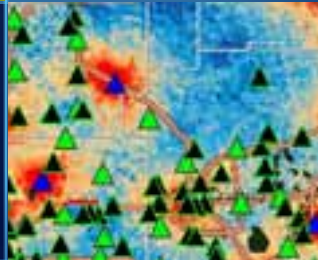


Extracting CAD data

Use Query Builder and leverage EXP files



Demo - Loading CAD data



Converting CAD Annotation



Loading CAD annotation

Assign a units definition that matches the target data frame



Demo – Loading CAD Annotation



Loading CAD data into the Geodatabase

Review

- CAD conversion workflows follow a common ETL pattern.
- Use Query Builder and leverage EXP files.
- You can use any tool that accepts a dataset, feature class or feature layer as input.
- Assign a coordinate system with linear units that match the target data frame when loading annotation.

Thank You

- Please fill out evaluations at www.esri.com/sessionevals
- Sessions are recorded and can be purchased



CAD Technical Workshops

Remaining sessions

- **Using ArcGIS Map Services in Microstation**
 - Thursday, July 14, 10:40AM - 11:00AM (24 A)
- **Integrating CAD Data with the Parcel Fabric**
 - Thursday, July 14, 11:05AM - 11:25AM (24 A)
- **Georeferencing CAD datasets**
 - Thursday, July 14, 3:15PM - 3:35PM (24 A)
- **Exporting GIS Features to CAD Drawings**
 - Thursday, July 14, 3:40PM - 4:00PM (24 A)
- **Using CAD Data in ArcGIS**
 - Friday, July 15, 9:00AM - 10:15AM, (7 A/B)



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