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Getting Started with Bentley Map

Keith Raymond, Product Manager Bentley Map

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Sustaining Infrastructure

Agenda – XFM Project

- MicroStation GeoGraphics Project Conversion

- Feature Consolidation

- Featurizing existing design files
  - Promote tool
  - ReadScoredFeature
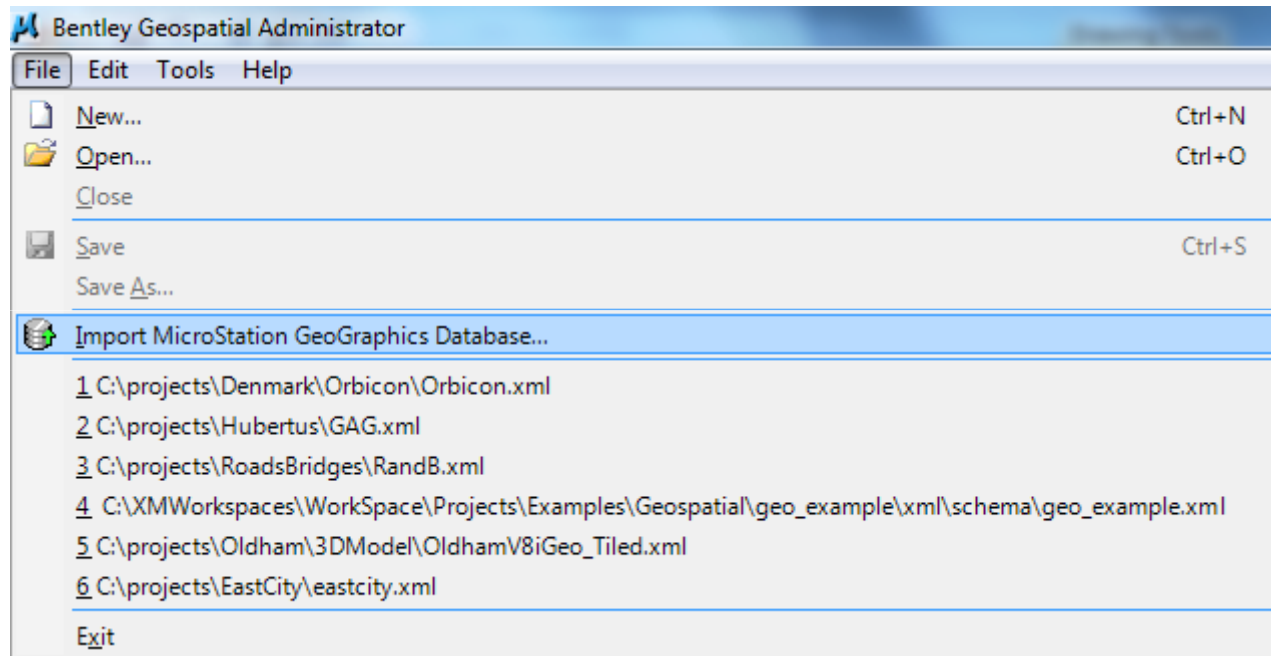 - DFS (Dynamic Feature Scoring)

Agenda - No project required!

- Map Manager
  - Feature groups
  - Analysis
  - Review features

- Annotation and Labeling

- Print Preparation

GeoGraphics Project Conversion

- Straight forward import to work right away

Import GeoGraphics Project

Tips to Improve Import

- Make sure feature types are well defined

- Make sure symbology is well defined

- Remove any ugcommands as they can likely be replicated by standard XFM placements

- Note: Need to index files and assign features
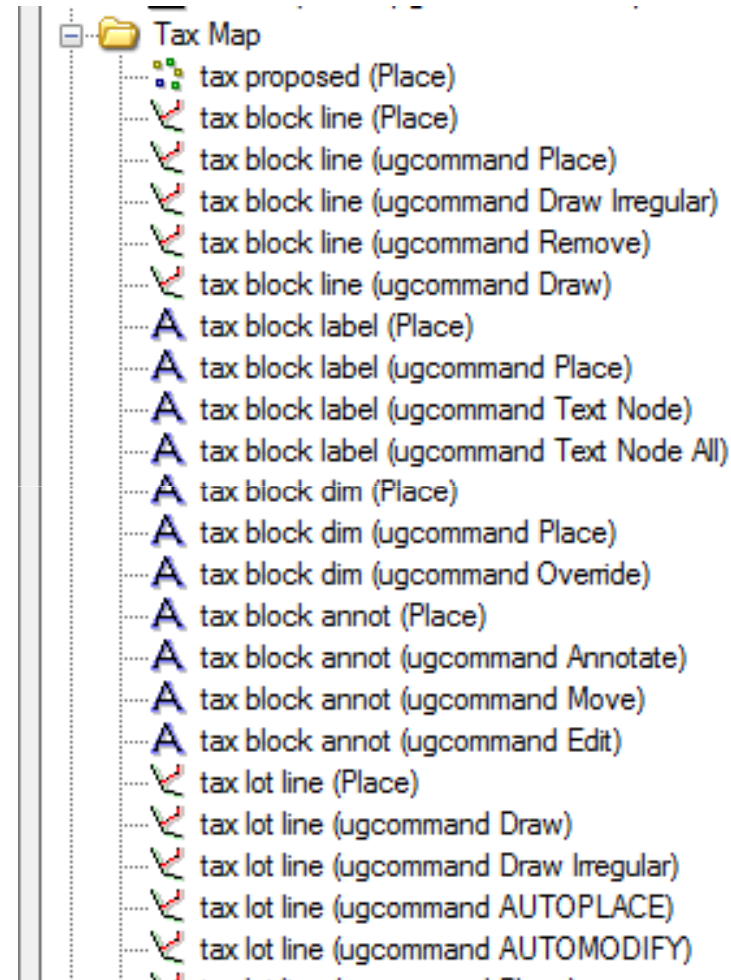
Feature Consolidation

- PBS and PBA can be used to consolidate features
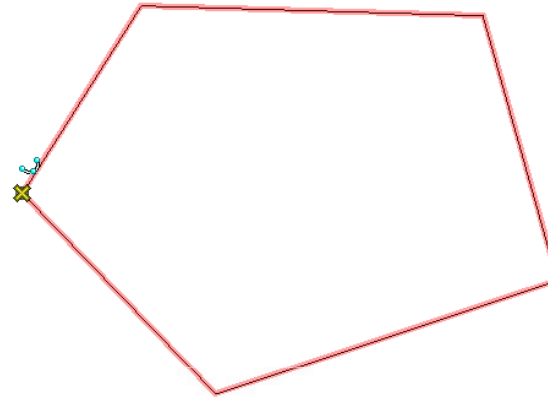 - Annotation on a feature
  - Symbology based on attribution

Two features, lot lines and lot text

One feature with annotation
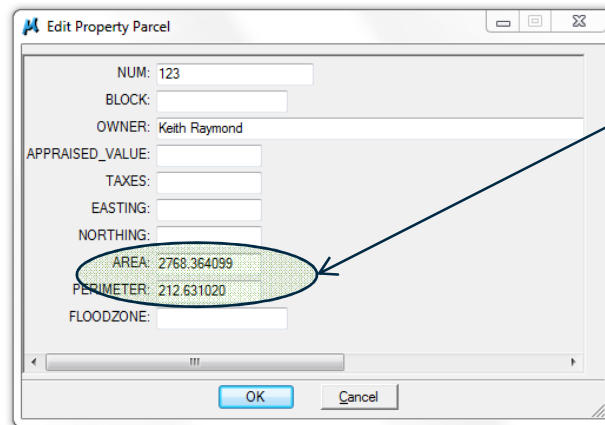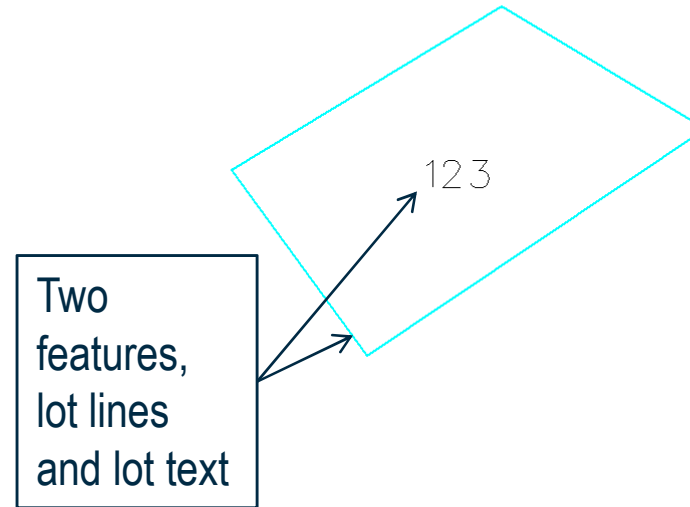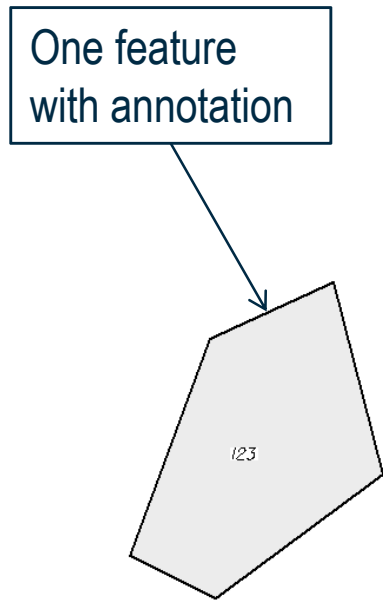
Area and perimeter calculated automatically

Edit Property Parcel

NUM: 123
BLOCK:
OWNER: Keith Raymond
APPRAISED_VALUE:
TAXES:
EASTING:
NORTHING:
AREA: 2768.364099
PERIMETER: 212.631020
FLOODZONE:

OK   Cancel

MS_GEOXFM_DISABLE_GEOMETRIC_PROPERTIES=1

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Featurizing existing design files - Promote

- Promote converts simple geometries to intelligent features
    - Single, fence, selection set

- Assigns properties at conversion time

- Edit feature to add annotation

DFS – Dynamic Scored Features

- Similar in concept to GeoGraphics Best Feature Score tool

- Used to define and recognize features on the fly
  - XFM features – automatically recognized
  - GeoGraphics features – recognized by entity number from imported project
  - Regular features – based on level

- MS_GEOXFM_NO_DYNAMICSCOREDFEATURES=1
  - Turns off DFS behaviour

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Define feature based on SHP file

- Creates an XFM feature with the same properties as the selected SHP file

- Modifies an existing project to add the new feature
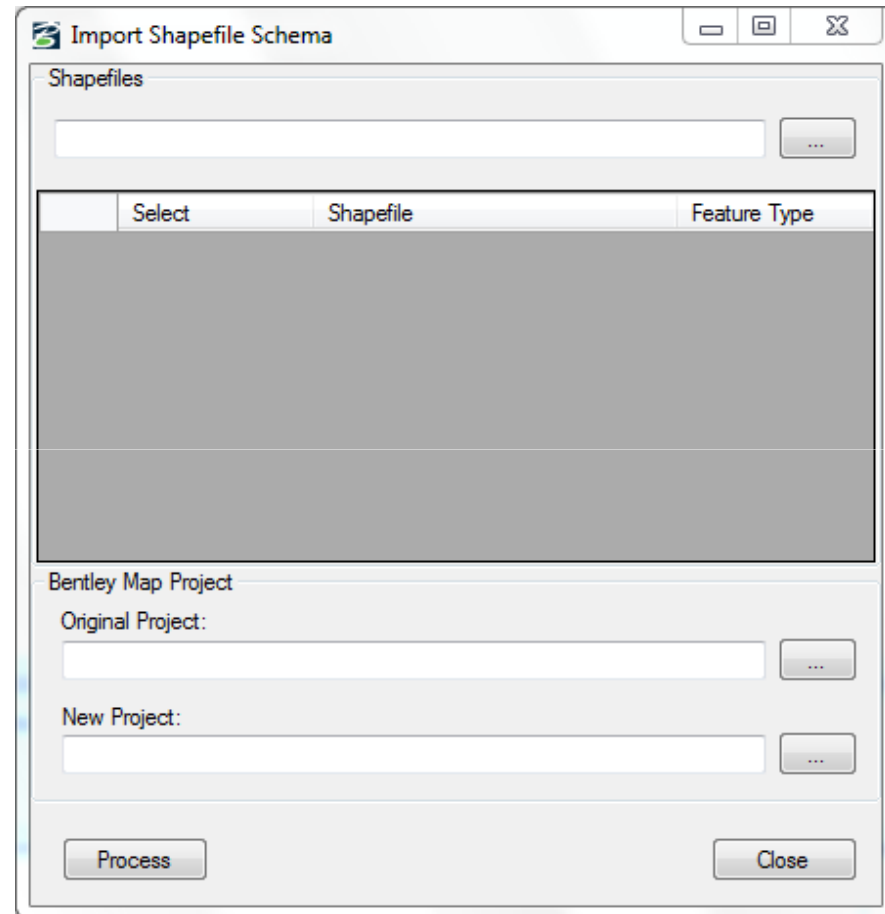
http://communities.bentley.com/other/old_site_files/member_folders/m/joao_salissos_files/default.aspx

ReadScoredFeature

- A feature key that is used to evaluate element symbology

- Can be used to assign property values based on symbology

- Syntax:
  - IIf(lot_shapes.Fill=4, "Residential", IIf(lot_shapes.Fill=3, "Commercial", IIf(lot_shapes.Fill=5, "Government", "Church")))Which says
  - If the fill color is 4 then assign a value of Residential, if 3, assign a value of Commercial, if anything else assign a value of Church
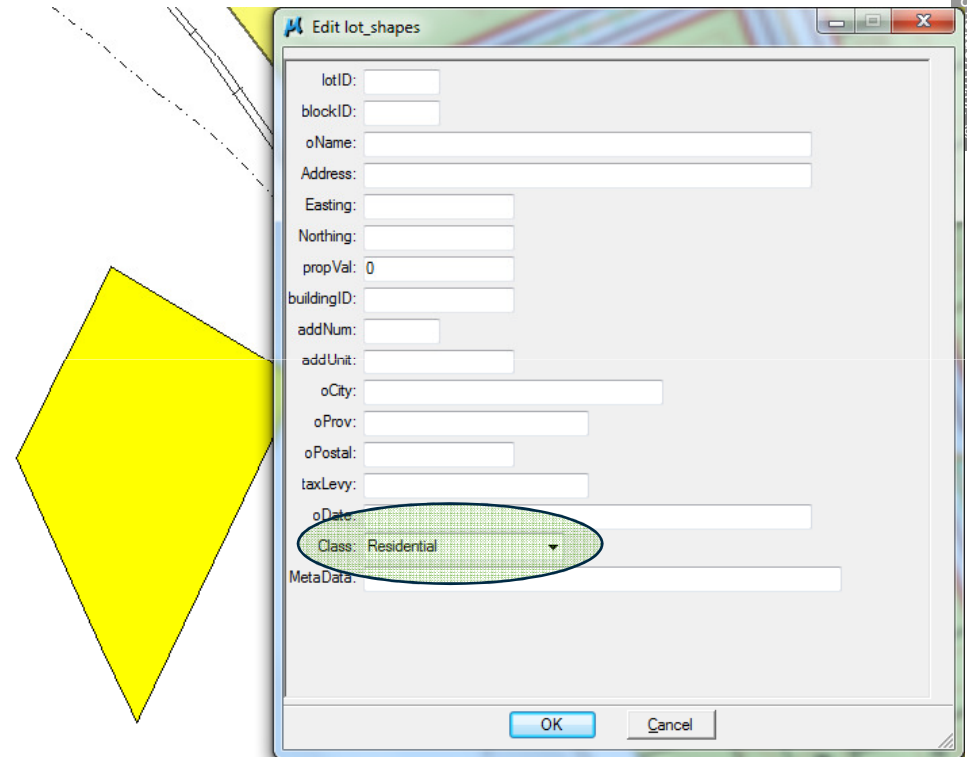
Getting started: No project required

- Sample Motorway project provided by Erik Wirring

- Add GCS to Master file
  - GKT_Koegevej_EUREF89.dgn

- Create Map model in empty file (work.dgn)
  - Make sure Map model is not part of actual data

- Reference the various files to the Map Model

- Database required?
  - MS_GEOXFM_DISALLOW_INFERRED_DBCONNECTION = 1
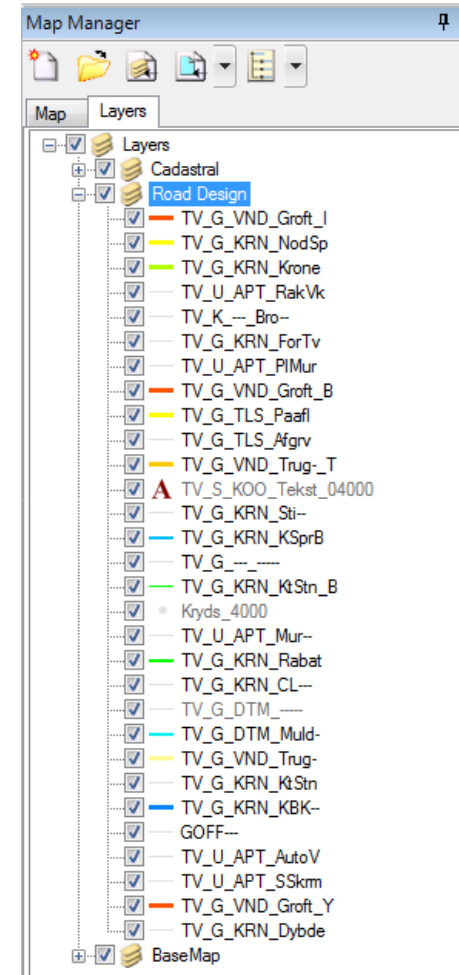 - Turns off database required for editing

Useful features

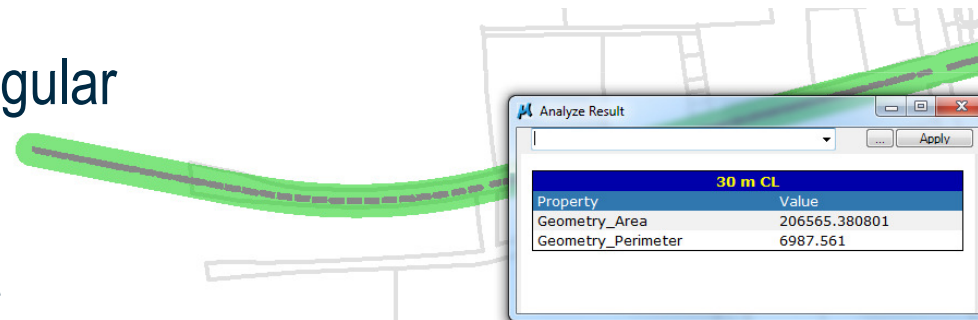- Feature groups

- Analysis tools

- Thematics
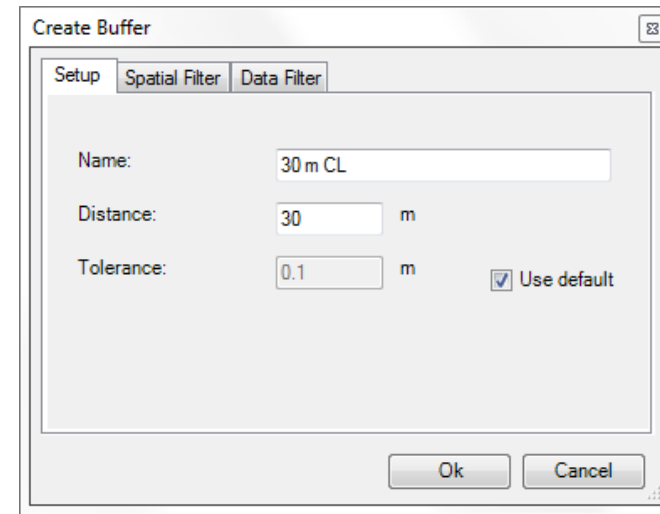
- Annotation

- Print Preparation
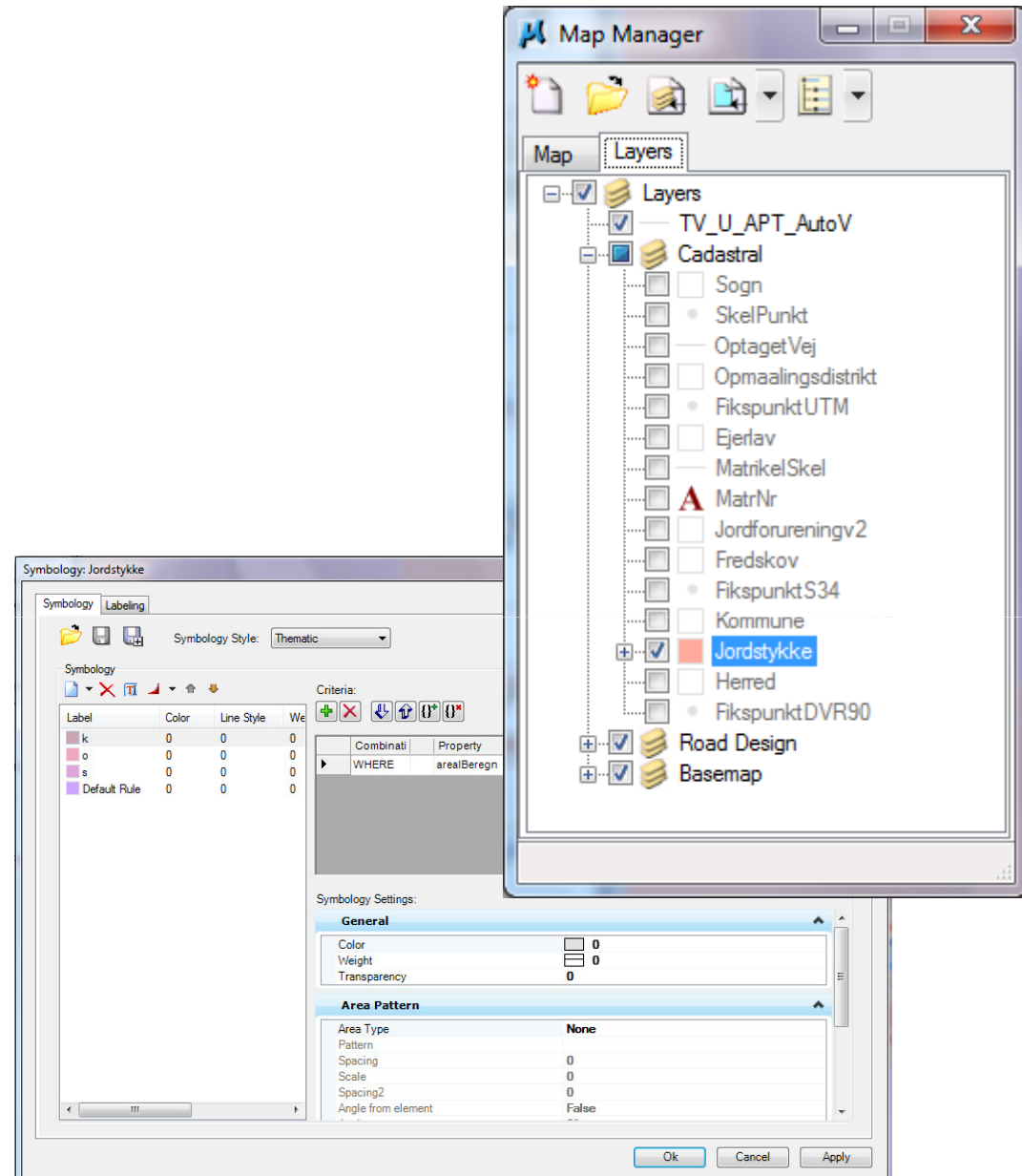
Feature Groups

- Add file to feature group

- Easy to turn off and on all features in group.

- Drag features in and out of groups as required

Analysis

- Create buffers around selected features

- Areas and perimeters calculated automatically

- Free draw areas with regular MicroStation tools

- Overlay polygons to get affected areas

- Browse and create report

Print Preparation

- Custom templates for one-off prints

- Multiple view ports

- References, clips to border

- North arrow, scale, user defined text

- Legends in next release