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Topobase™

Archive – Technical Training

Autodesk Topobase Client



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Chapter Overview

- This chapter teaches you how to:
 - symbolize existing data and
 - use powerful tools to generate expressions for the stylization of features.

Display Model

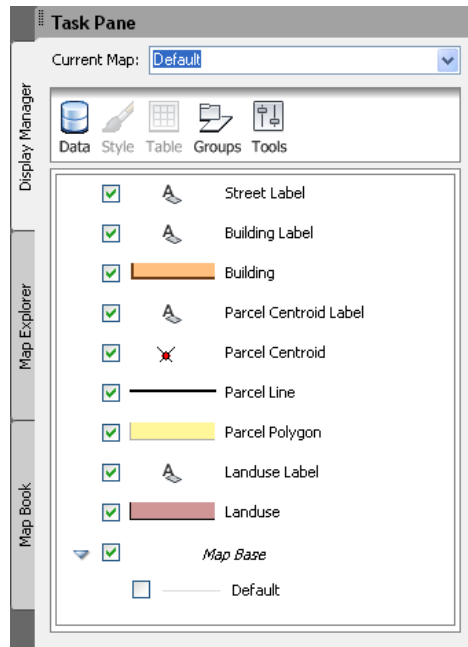
Chapter Objectives

By the end of this chapter, you will be able to:

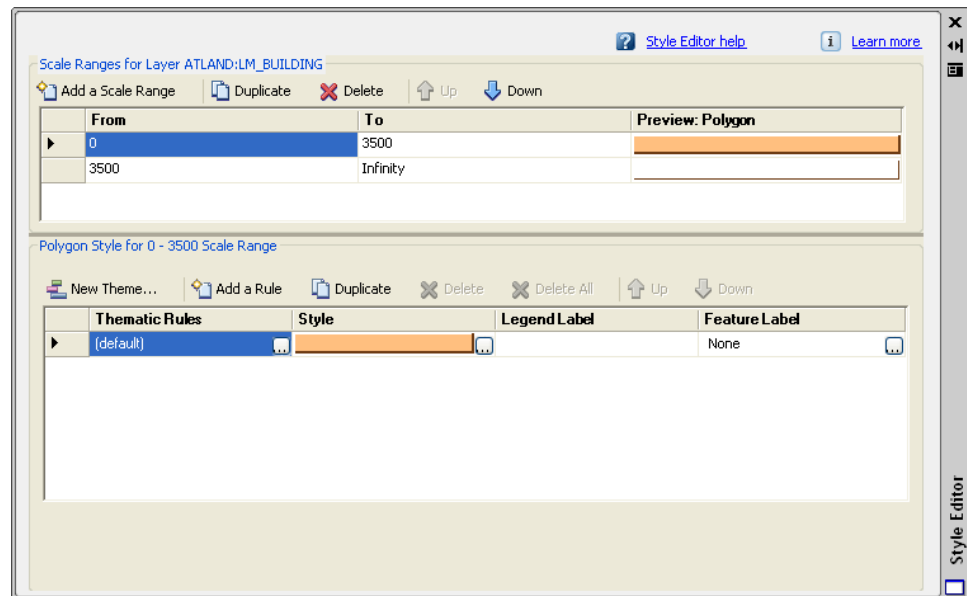
- Symbolize data for different feature types
- Connect to a Topobase data source
- Use the enhanced stylization
- Use scale ranges to vary the stylization
- Save and load Display Models

2.2 Display Manager

- To assign different display styles to feature classes, use the Display Manager.





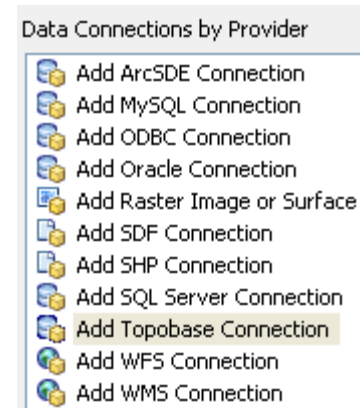
Display Manager



Style Editor

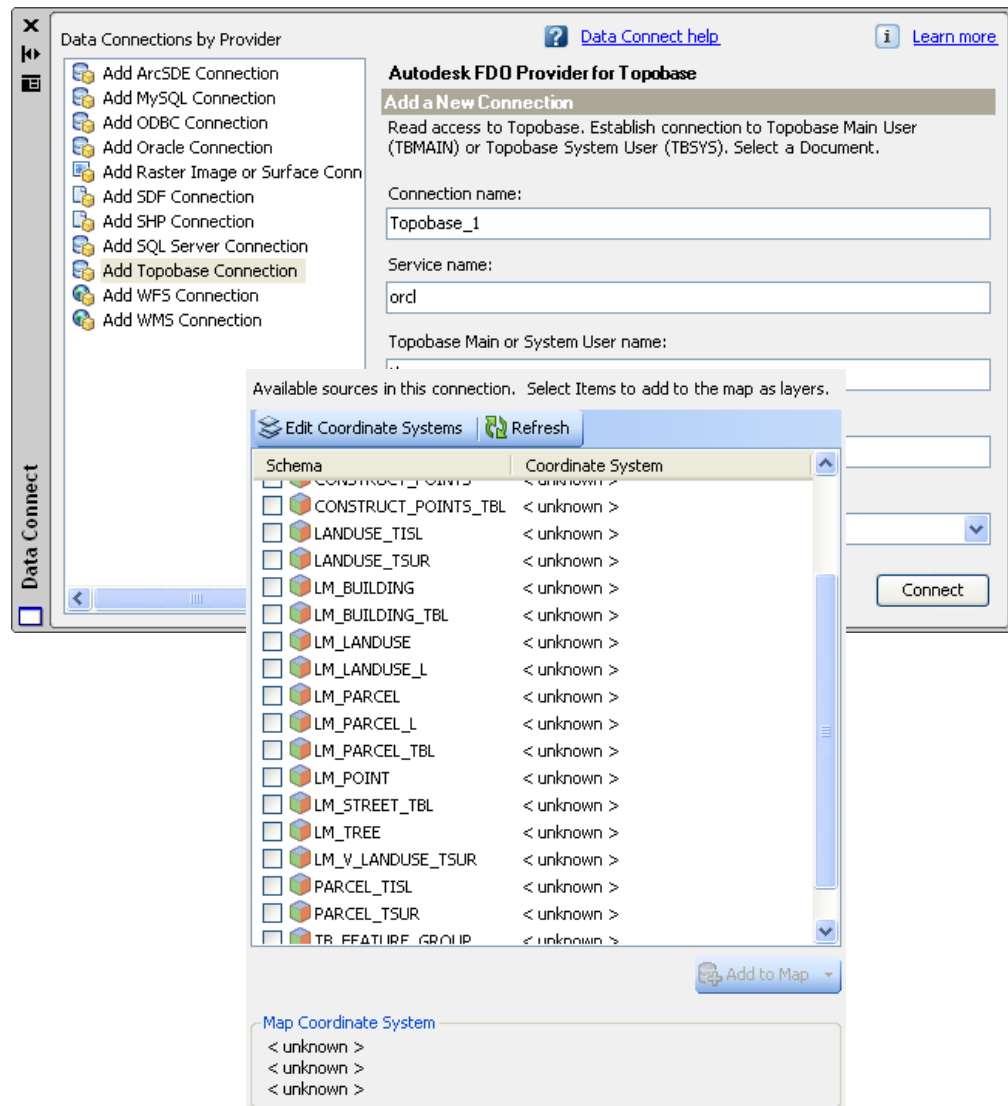
2.3 Data Connections

- The workspace you created or opened is a container for geospatial data.
- Map 3D connects to feature data through *Feature Data Object*, or FDOs.
- To connect to feature data, click the **Data** icon , and select **Connect to Data**  from the shortcut menu.
- The Map 3D Data Connect window appears.



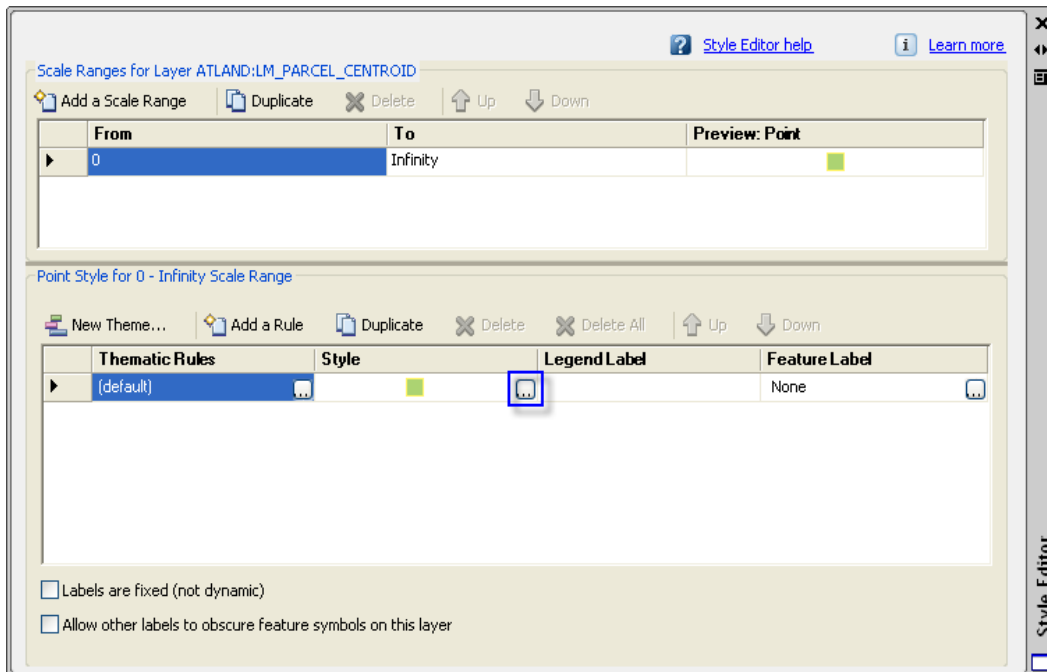
2.3.1 Connecting to Autodesk Topobase 2009 Data

- Add Topobase Connection.
- The feature classes (Oracle tables) available in the schema are listed in the Data Connect window.



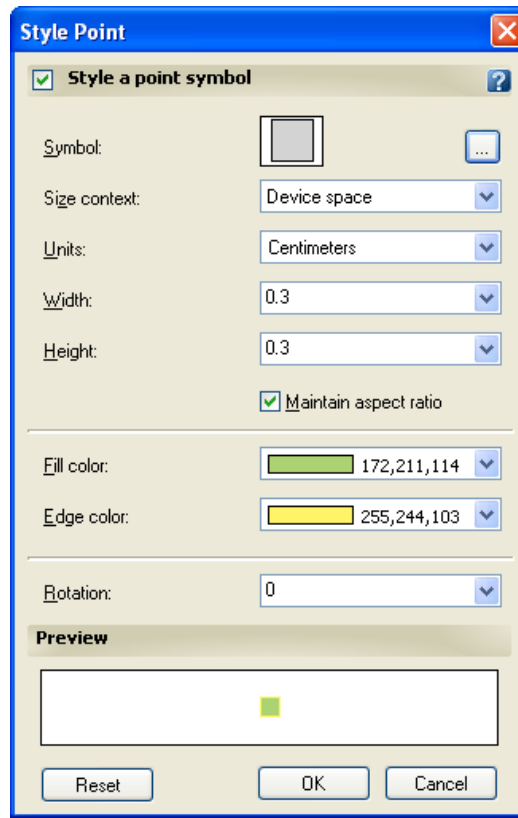
2.4 Symbolizing Data

You can control the appearance of data by *symbolizing* it using the Map 3D Style Editor Window.



2.4.1 Point Style

- Use the Style Point window to symbolize a point feature class



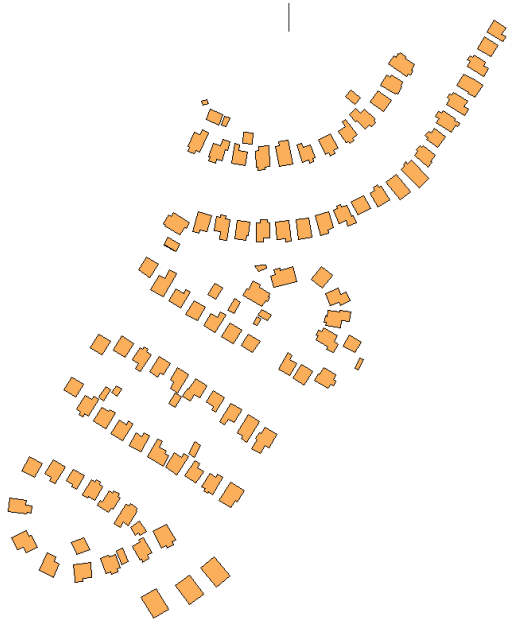
2.4.1 Point Style +

Size context

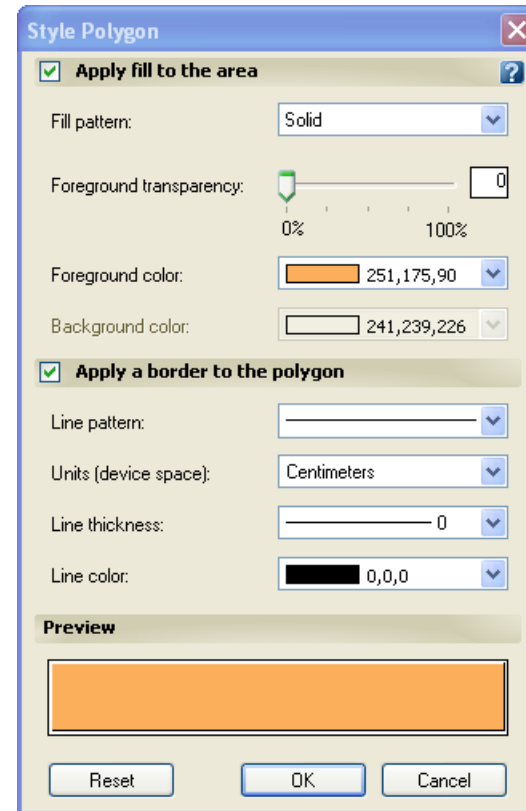
- Device space
 - Device space units are absolute screen units.
 - This ensures that the size of a symbol or text display is always the same size on the screen.
- Map space
 - Map space units are proportional to map units
 - This ensures that the size of the symbol bears a fixed relationship to the map it is in.

2.4.2 Area Style

- Use the Style Area to symbolize a polygon feature class.

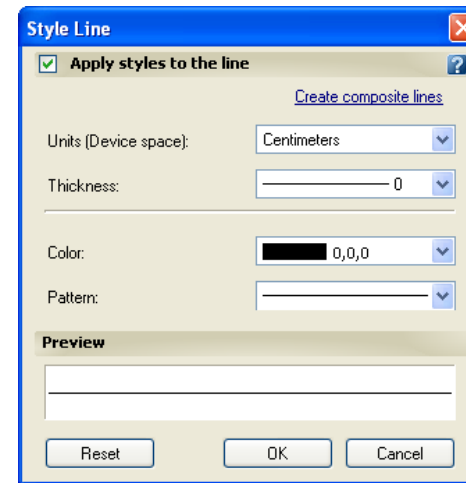


Buildings in the LM_BUILDING polygon feature class



2.4.3 Line Style

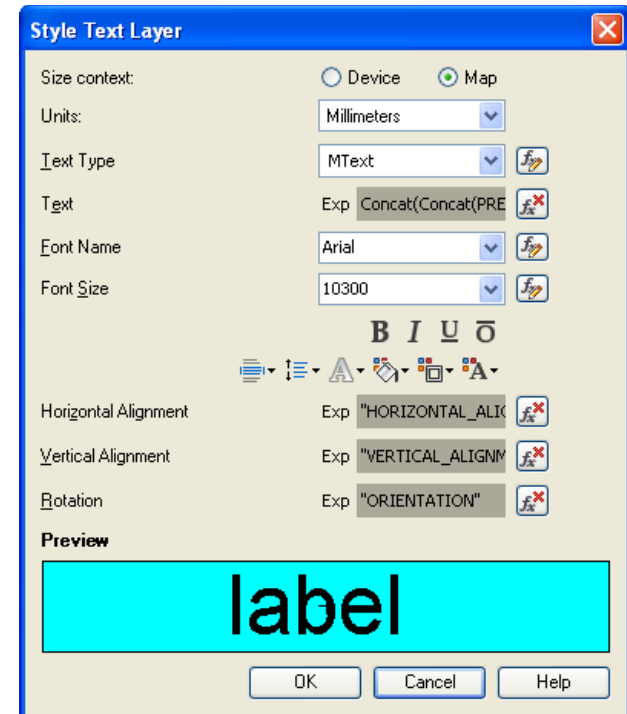
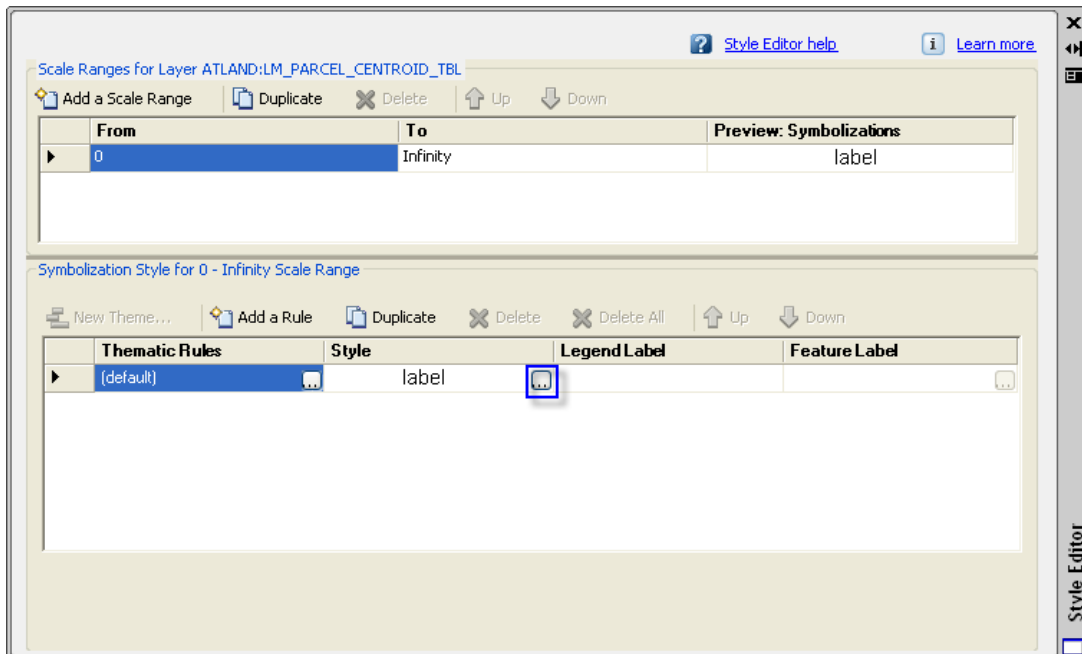
- Use Style Line to symbolize a line feature class.



Parcel lines and polygon features over aerial photo

2.4.4 Label Style

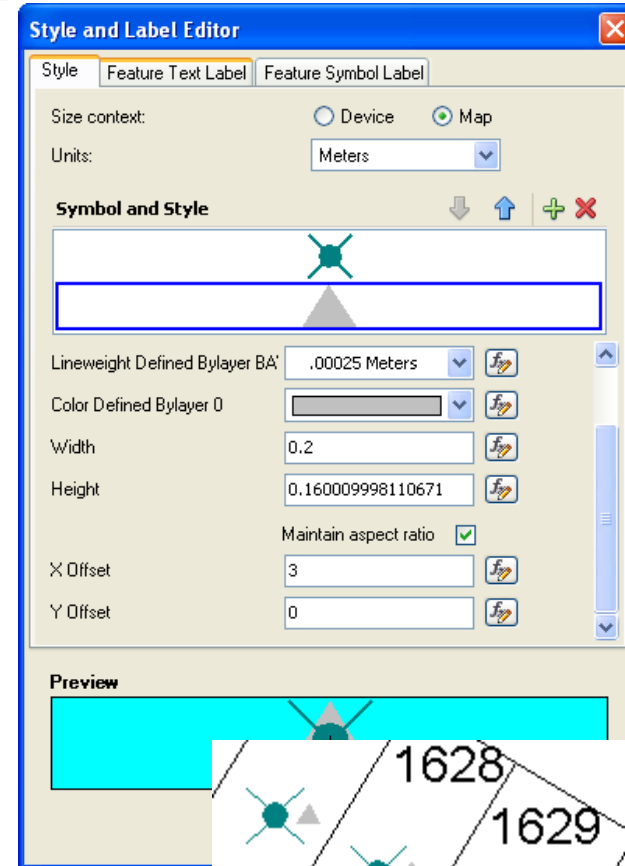
- Autodesk Topobase 2009 stores labels as special point feature classes
- Text to be displayed is stored, as is its orientation and offset relative to the feature being labeled.



2.4.5 Enhanced Stylization

Point Style



- When layers have been connected with enhanced stylization, a more complex styling is available.
 - You can compose point stylizations from more than one block.
 - You can use attributes of related tables for stylization.
- For example, the feature class LM_PARCEL is generated in enhanced style, too. You need a symbol that is built from two symbols from a dwg.



2.5 Stylization by Scale Range

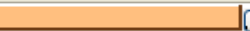
Scale Ranges for Layer TTLAND:LM_BUILDING

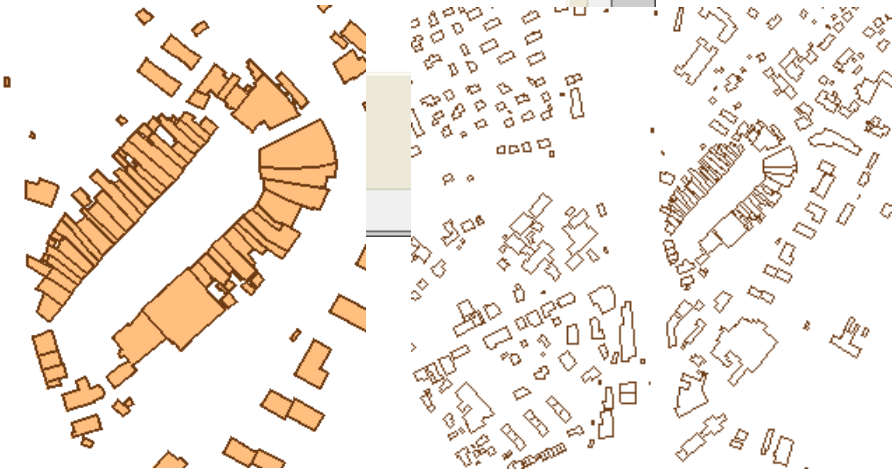
Add a Scale Range Duplicate Delete Up Down

From	To	Preview: Polygon
0	3500	
3501	Infinity	


Polygon Style for 0 - 3500 Scale Range

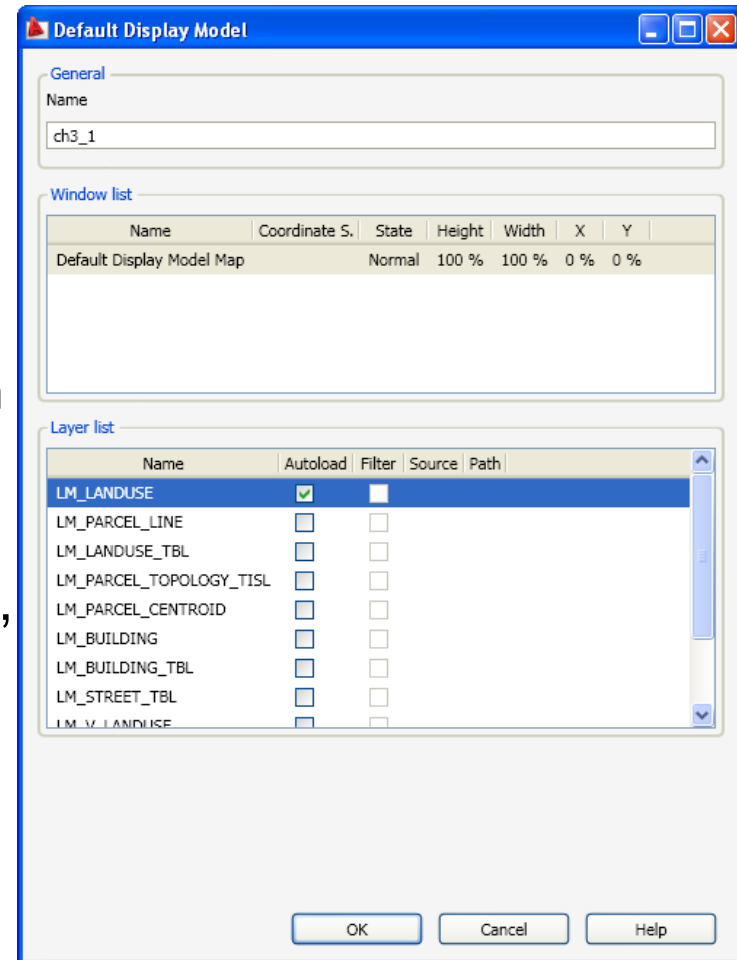
New Theme... Add a Rule Duplicate Delete Delete All Up Down

Thematic Rules	Style	Legend Label	Feature Label
(default)			None



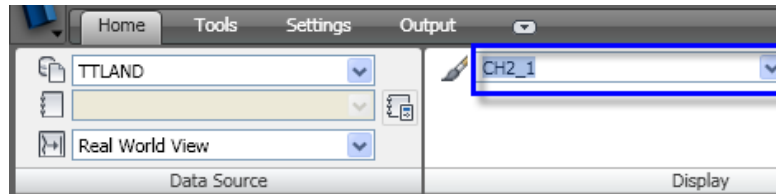
2.6.1 Saving a Display Model

- Select the **Save Display Model As** icon 
- **Filter:** If you see fields in the Filter row toggled on, you have zoomed in before clicking **Save Display Model As**.
- **Autoload:** If you toggle on Autoload, the layers are loaded automatically when opening the workspace.
- The next time you open Topobase the layer will load automatically in the display model map.



2.6.2 Select a Display Model

- You can select display models from the combo box in the Display panel.



- To obtain a Map Stylization you have 3 possibilities:
 - **Open Display Model**
 - **Open Default Display Model**
 - Select a formerly used Display Model from the drop-down list

2.7 Chapter Summary

You should now be able to:

- Symbolize data for different feature types.
- Connect to a Topobase data source
- Use some options of the enhanced stylization
- Use scale ranges to vary the stylization
- Save and load Display Models

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