

Archive — Technical Training Autodesk Topobase Administrator

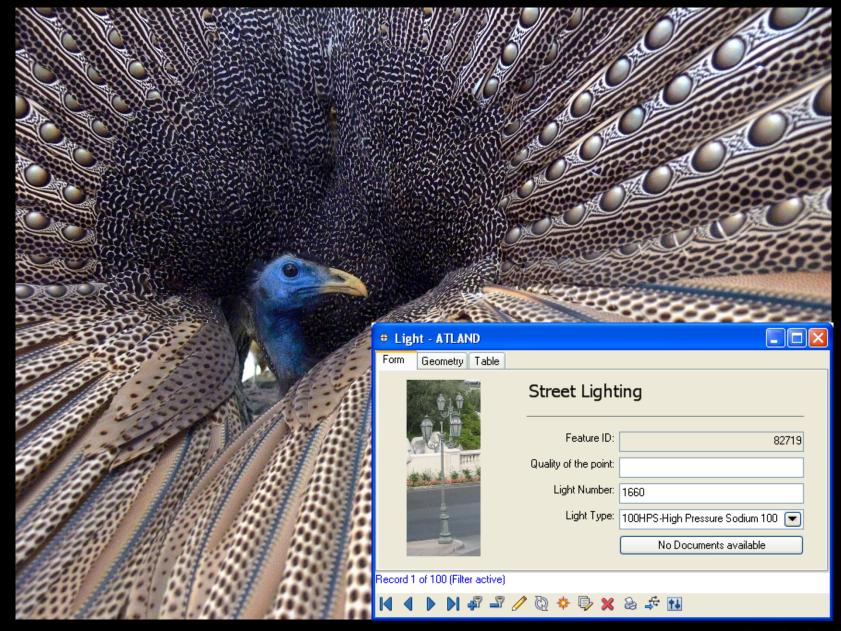


Disclaimers

This course was created for Autodesk Topobase 2009. The contents of this course are not intended for other versions of Autodesk Topobase.

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Chapter Overview

- This chapter shows you how to customize the appearance and functionality of Autodesk Topobase 2009.
- You can modify the forms which are the primary means for users to interact with data in the application.
- Understanding how to customize enables you to:
 - better enforce organizational standards and
 - organize your data in a way that best suits your needs.

Forms Designer

Chapter Objectives

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

- Explain how standards are enforced by means of customization
- Change the "look and feel" of a form
- Change properties of controls
- Add tabs for better clarity
- Modify the listed items of a combo box
- Create a Master-Detail form
- Show coordinates in a form
- Add spatial queries to forms
- Change the forms toolbar for a group of users
- Verify that changes in forms are made only once in Topobase Administrator, and that the changes are reflected in both Topobase Client and Topobase Web

6.2 Customizing Feature Class Forms

Using the Topobase Form Designer

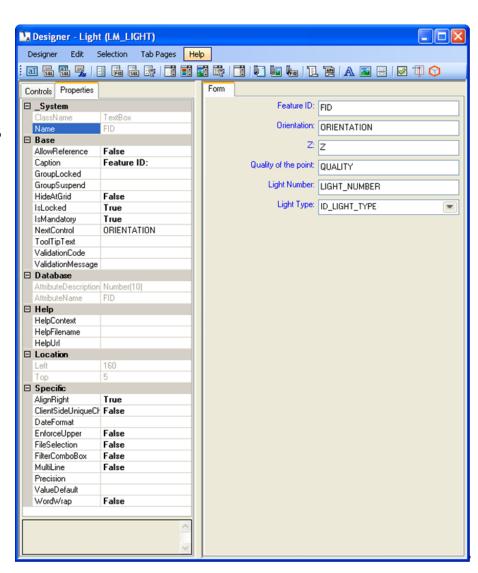
- Use the form designer to show or hide text boxes, or create controls, check boxes, radio buttons, or combo boxes.
- You must have Administrator login rights.
- Launch Topobase Administrator, and open a workspace.
- From the Document folder, select Form Designer.
- 3. Click the feature class, and then click **Designer**.

6.2.1 Using the Topobase Form Designer

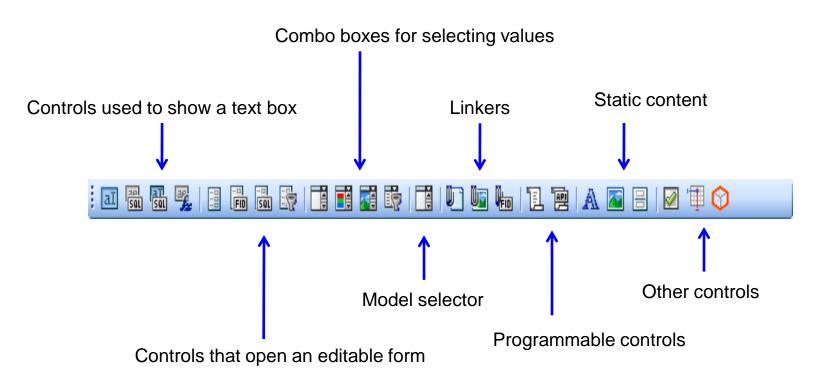
Right pane = Existing controls

Left pane = Modifiable properties

Use the Controls tab to define what appears in the form.

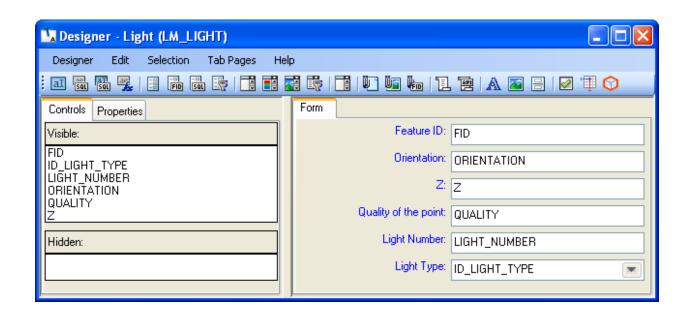


6.2.2 Forms Designer Controls



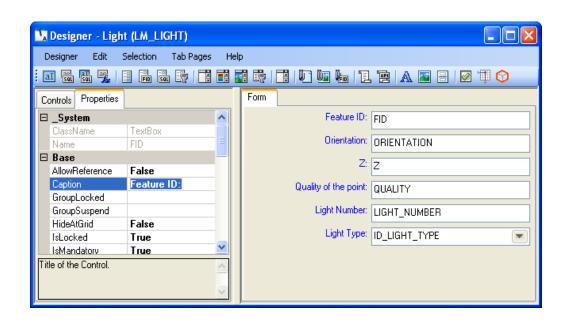
6.2.3 Hiding or Showing Controls

 To hide an attribute so that users do not see it, drag it to the Hidden box.



6.2.4 Modifying the Caption (Field Name) and Displaying Tool Tips

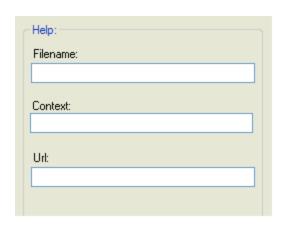
- Use the Properties tab to modify:
 - Captions
 - Tool tips



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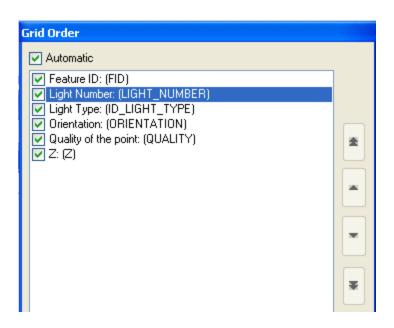
6.2.5 Assigning a Help File to a Form Control or Entire Form

- Help for a feature class control appears if users press F1 while the focus is on that control.
- Values include:
 - HelpFilename
 - HelpContext
 - HelpUrl



6.2.6 Changing the Alignment of the Form Controls

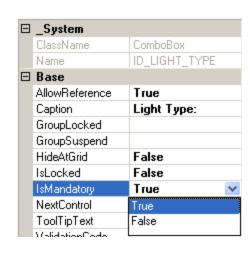
- The easiest way is to drag the controls.
- To change the sort order, Designer > Grid Order.
 - Use arrows to change the order.



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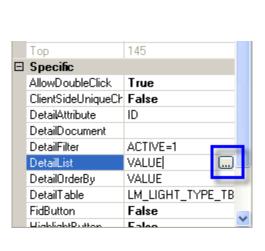
6.2.7 Using Mandatory Fields and Locking Input

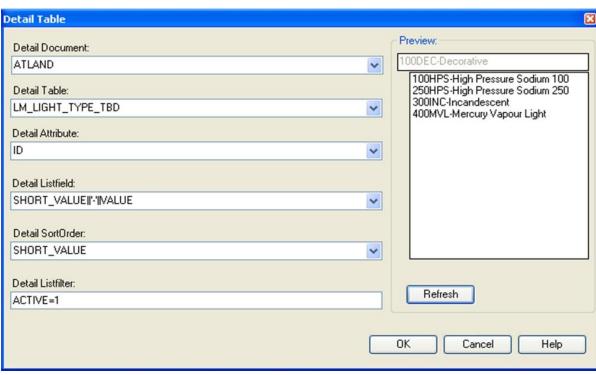
- By default, all fields are set to IsMandatory = false.
- Setting the property to true creates a light red background in Edit mode.
 - Users cannot close the form unless they enter data.
- 1. Select the control.
- Click Properties tab.
- 3. Under IsMandatory, select **True**.



6.3.1 Modifying the List Displayed in Combo Boxes

- A combo box is automatically assigned and populated for all attributes related to a domain table.
- You can change the text displayed in a combo box.



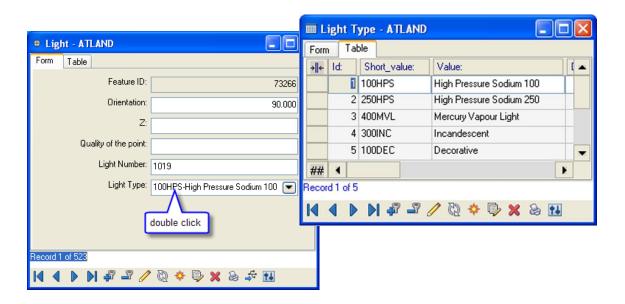


6.3.2 Enabling Double-Clicking for Combo Boxes

 Select a combo box in the sample form and set AllowDoubleClick = True on the Properties tab.

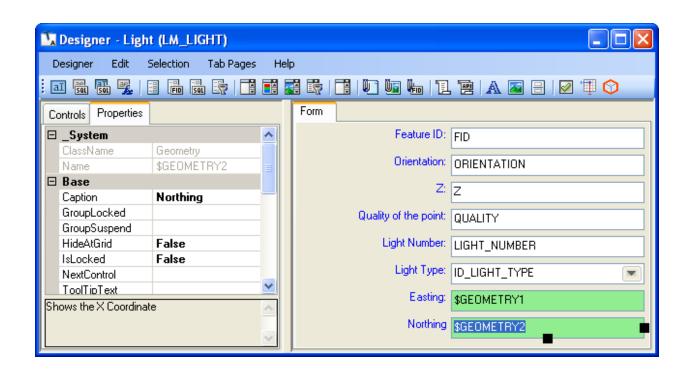


 Users can double-click the form combo box to make the form of the related domain form appear.



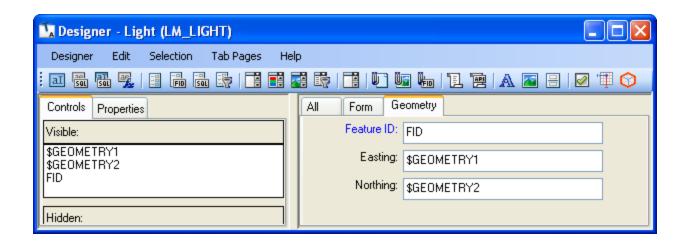
6.3.3 Showing Coordinates on a Form

Use the Geometry tool to add x and y coordinates.



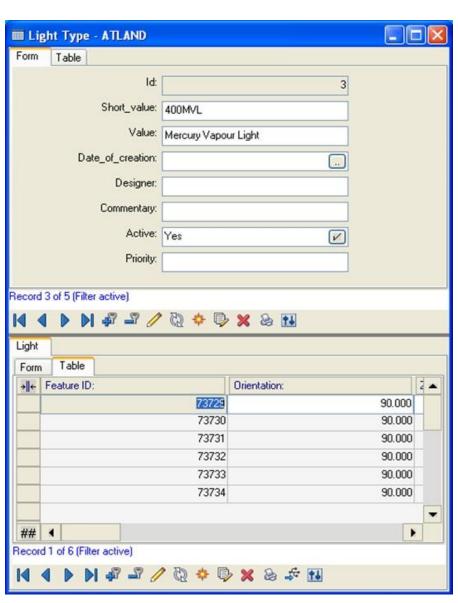
6.3.4 Adding Tab Pages to Forms

- From the form designer menu, select Tab Pages > Add Tab.
- Enter the name of the new tab.
- Note: After you create a second tab, the system adds an All tab.
 - Controls visible on the All tab appear on every tab.



6.3.5 Creating a Master-Detail Form

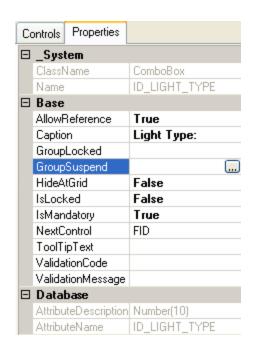
- In the form designer, select
 Designer > Master-Detail.
- Drag the table to Current
 Details.
- After you restart, you will see the form you created.



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6.3.6 Controlling Access to Form Controls

- You define access in the form designer.
- Use the GroupSuspend property to specify which user groups have access to which form controls.





6.3.7 Configuring a Form Toolbar

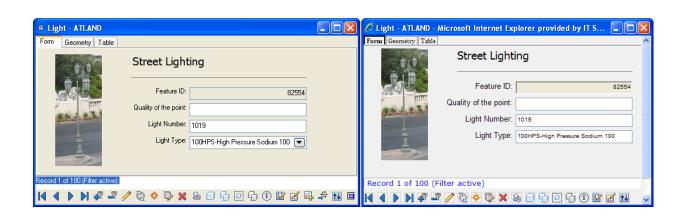
- You can create a custom toolbar.
- In the Forms tab, click Add and provide a name for the new item.
- Enable/disable the various tools available.



- To associate a custom toolbar with a form:
- Open the form designer for the feature class you want.
- Select **Designer** menu > **Options**.
- 3. Use the Toolbar combo box to associate the custom toolbar.

6.3.8 Configuring a Topobase Web Form

- The configuration settings of any changes done to the forms in the Topobase Administrator are stored in the database.
- The application reads the forms configuration directly from the database.
- Any changes are reflected in Topobase Client and Web.



6.4 Spatial Queries in Forms

- Autodesk Topobase 2009 data comprises:
 - Spatial data—specifies locations relative to a map
 - Attribute data—supplies qualitative or quantitative information
- Users request information or pose questions about data by making queries to a database.
- Topobase supports two types of queries:
 - Spatial queries
 - Attribute queries

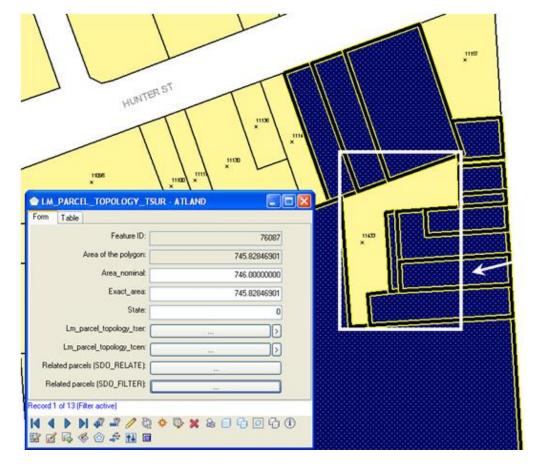
6.4.1 Opening Forms Based on Queries

- The SQL Form Launcher control is designed to open a form given an attribute or spatial query.
- The main properties of this control are:
 - DetailTable: Specify the name of the feature class to be opened
 - Filter: Specify the attribute or spatial query

SDO_FILTER

Used to perform the primary filter in spatial queries

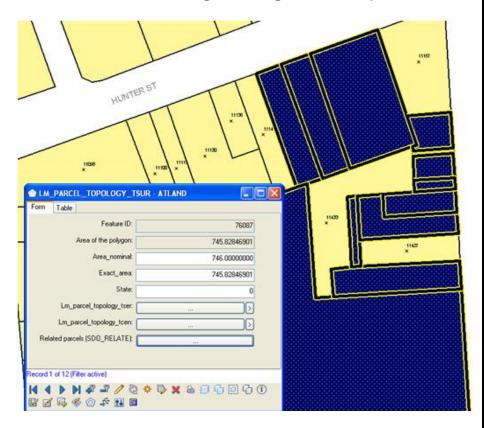
```
SDO_FILTER
(<geometry-1>,
<geometry-2>
) = 'TRUE'
```



SDO_RELATE

 Performs both primary and secondary filtering, returning as a result the exact set of geometries that interact with a given geometry.

```
SDO_RELATE
(<geometry-1>,
<geometry-2>,
'mask=<topological-relation>'
)
```



SDO_WITHIN_DISTANCE

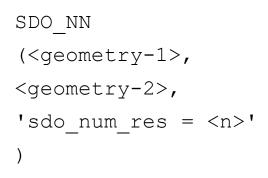
Determines the features that are within a given distance from a feature

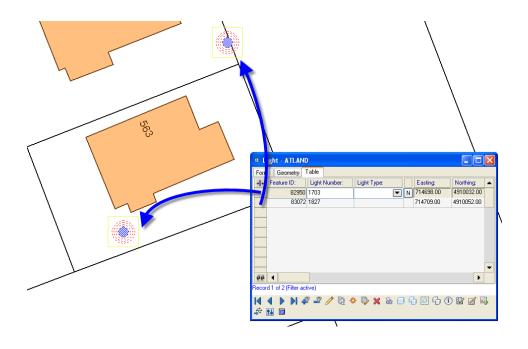
```
SDO_WITHIN_DISTANCE
(<geometry-1>,
<geometry-2>,
'distance = <n>'
)
```



SDO_NN

Determines the nearest neighbors of a feature





SDO_RELATE convenience operators

- These operators apply a specific mask.
- An example is the SDO_INSIDE operator
 - Evaluates the features that are inside a given feature. This is equivalent to using the SDO_RELATE operator with the mask INSIDE.

```
SDO_INSIDE
(<geometry-1>,
<geometry-2>
)
```

6.6 Chapter Summary

You should now be able to:

- Explain how standards are enforced by means of customization
- Change the "look and feel" of a form
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