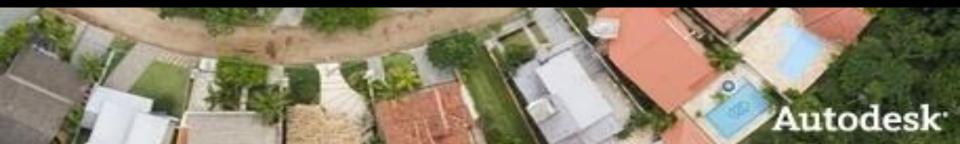


Archive – Technical Training Autodesk Topobase Client



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

- Chapter provides basic information about Autodesk Topobase 2009:
 - Layout
 - Functionality
- Enables novice user to:
 - Launch Topobase.
 - Understand introductory Topobase terminology.
 - Gain familiarity with basic user interface.

Topobase Basics

Chapter Objectives

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

- Launch Topobase.
- Understand introductory Topobase terminology.
- Identify the components of the document explorer.
- Explain workspace, document, topic, feature class and domain
- Navigate in the map window.
- Effectively use the Autodesk Topobase 2009 interface.
- Use forms to extract attribute information for a given feature.

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1.2.1 Launching Autodesk Topobase 2009

- From Windows desktop:
 - Select Start > Programs > Autodesk > Autodesk Topobase 2009 > Autodesk Topobase Client 2009.
- On first login, click **Options** and provide:

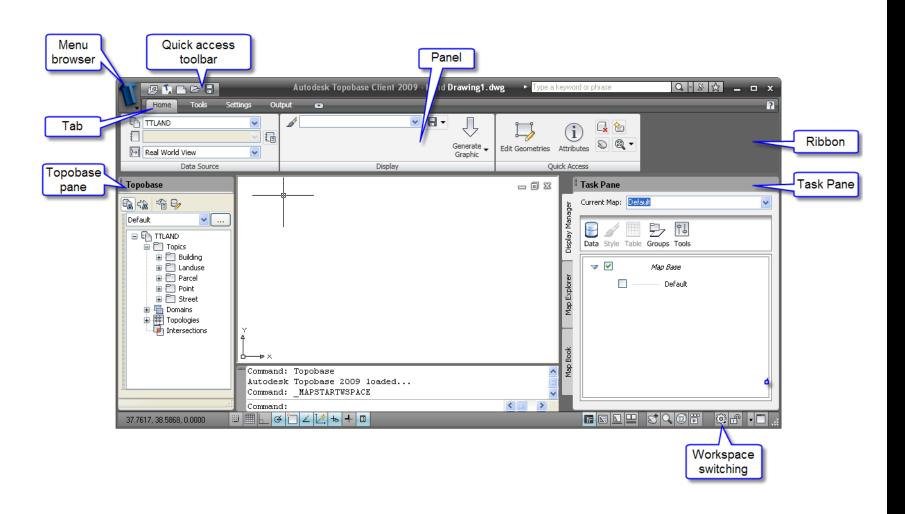
Username: TBSYS or TBMAIN

Password: *****

Oracle net service name: orcl

- Select Workspace to be opened.
- Topobase Client task pane appears in Map 3D window.

1.2.2 User Interface Overview



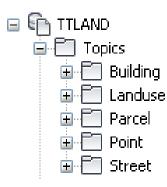
1.3.1 What is a Workspace?

- The starting point for working with any Topobase data
- Contains all necessary objects, including menus and toolbars
- Launch the workspace by clicking the window icon (<a>I

1.3.2 What is a Document?

 A document is related to an Oracle schema, which contains all your Topobase data.

 A document contains one or more topics. Think of a topic as a container that organizes feature classes.



1.3.3 Feature Classes

- Topic—contains one or more feature classes.
- Feature class—an Oracle database table containing geometry and attribute data about features such as polygons, points, or lines.
- Tables—basic unit of data storage in an Oracle database.
 - A column refers to an attribute that describes the data.
 - A row is a collection of column information corresponding to a single record.

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Building

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Buildina

Parcel Line

Parcel Centroid

1.3.3 Feature Classes +

- Example
- Building topic contains
- Building polygon feature class
- Parcel topic contains
- Parcel line feature class
- Parcel centroid feature class
- You can group multiple feature classes into the same topic as shown in the Parcel topic.

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1.3.3 Feature Classes ++

==	Attributes	Attribute table (without geometry)
*	Centroid	A special point that represents an area defined by line strings
*6	Collection	Features with arbitrary geometry (line, point, etc.)
□ Sample Dimensioning □ → EX_dimension_DIM □ T EX_dimension_TBL	Dimension	A dimensioning feature class consists of three related tables: Attribute feature class, Dimension feature class, and Label feature class
≡	Label	A Label feature class is used for text

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1.3.4 Domains

- Domains are look-up tables in Oracle database that contain valid values for attributes of feature classes to guarantee the integrity of database information.
- A domain is represented by a stacked look-up table icon.

The Landuse feature class attribute
 ID_LANDUSE_TYPE is related to the domain Landuse
 Type (ID_LANDUSE_TYPE_TBD).

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1.4 Using Generate Graphics

- When a workspace is opened its features do not automatically appear in the Map 3D drawing area.
- To begin working with the data you must display the features in the map window: you have to generate a graphic.



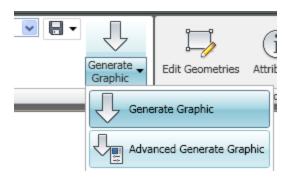
1.4.1 Select Styling

- Default styling is an option for immediately displaying
 Topobase data sources. The styling is done with random colors and standard symbols and texts.
- To get a map with default stylization, select Default Display Model
 In the display panel.
- Predefined styling: Usually predefined display models are provided by the administrator and should be applied by the users.
 - You can switch easily between different predefined display models for the same dataset.

1.4.2 Generating Graphics with a Viewport

 A viewport limits the geographic extent of the data that will be drawn.

To access the viewport window, select Generate
 Graphic > Advanced Generate Graphic.



1.4.2 Generating Graphics with a Viewport

Creating a Viewport with a Window, Point, or Polygon

In the Generate Graphic form, if you click	You are prompted to
Window	Draw a rectangle in the map window to define the extent of the viewport.
Point	Click a point in the map window.
Geometry	Click any feature in the map window.
Polygon	Draw a polygon in the map window.

1.4.2 Generating Graphics with a Viewport

Editing Viewport Properties

Using the Edit () icon next to the viewport name shows the following functions:



1.5 Showing Attribute Information

- The document explorer has many tools to help you efficiently manage data.
- Two options for displaying attribute information about features:
- Click the Information icon, and then select features of interest in the graphic display.
- Open attribute information forms for features in the document explorer.

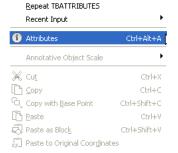
1.5.1 Open Topobase Forms

There are 5 ways to get information about features shown in a map:

1. Click the Information (information (information.) icon in the quick access panel to get

2. Click a feature in the generated map and right-click.

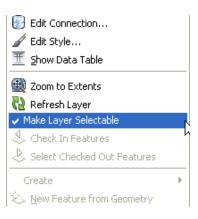
Select Attributes.



- Press Ctrl+Alt+A.
- 4. Type **tbattributes** in the command line.
- 5. Double-click a feature in the generated map.

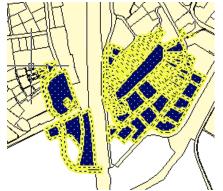
1.5.2 Feature Selection in the Map

- If no selection is possible, the layer is not selectable.
- There will be no check mark next to Make Layer Selectable in the context menu.
- Right-click the layer in the Display Manager and select Make Layer Selectable.

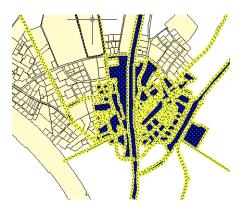


1.5.2 Feature Selection in the Map +

- Selecting in a rectangle has 2 modes:
- Selecting from left to right finds all features which are completely in the rectangle
 - Especially long features like streets or rivers are not included.

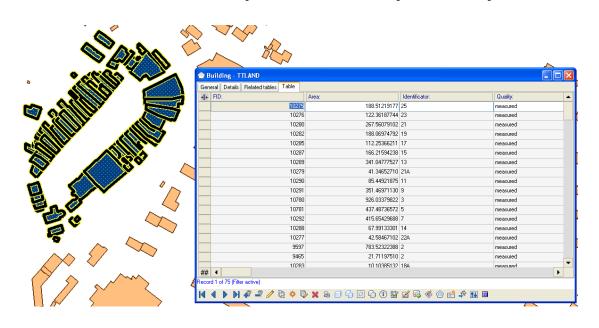


- Selecting a similar rectangle from right to left finds all features which are partly and completely in the rectangle.
 - Now also the intersected long features like streets or rivers are included.



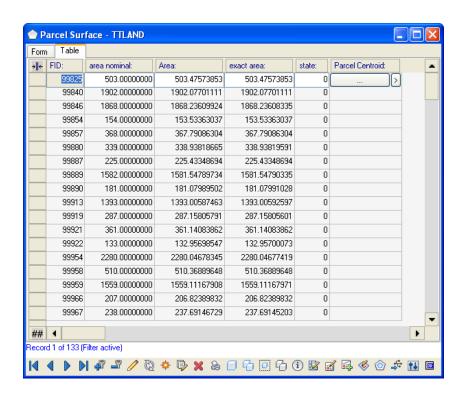
1.5.3 Spatial Selection

- With a spatial selection in the map you are able to select features in a rectangle, a polygon, or at a point in the map (intersected features are included).
- The spatial selection starts from the Feature Class context menu in the Topobase Explorer pane.



1.5.4 Forms of Feature Classes

 The attributive information is displayed in the Topobase form for any feature class.



1.5.4 Forms of Feature Classes

Icon	Description
	Move to the first record.
4	Move to the previous record.
	Move to the next record.
▶I	Move to the last record.
4 7	Add a filter based on attribute criteria.
-	Remove the current filter.
	Edit the selected record.
<u>\$5</u>	Refresh the form to obtain the latest information.
*	Insert a new record into the feature class.
	Perform a global update to modify every selected record in the feature class. Click <i>before</i> you change a value.
×	Delete the selected record(s).
	Print a report containing attribute information about the selected record(s).

1.5.4 Forms of Feature Classes +

Icon	Description
	Highlight the selected record in the map. The default highlight color is a black line highlighted with a yellow lining.
6	Highlight the features in the graphic that are part of the current filter selection in the form.
6	Highlight all the features in a graphic that are bounded by the selected feature.
6	Remove highlight from all highlighted features.
(i)	Use to select features in the map and then display their attribute information.
	Use to digitize new features which become selected in the form.
	Use to digitize new geometry for the selected feature.
F	Use to connect an existing geometry with a selected feature.
	Digitize an inner ring and add it to the selected polygon.
\bigcirc	Insert an existing geometry as an inner ring and add it to the selected polygon.
	Create and position a label for the selected feature.
4	Reverses the direction of the line.
హా	Reverses the direction of all features selected in the form. (Only available for lines)

1.5.4 Forms of Feature Classes ++

Icon Description

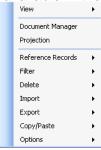
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Shows the Connectivity Manager for the selected feature. (Only available for features that belong to a logical topology)

Add this feature to the schematics workflow feature explorer.

Accesses the Tools which are available in the right-click context menu.



Dock the form window in or out of the Autodesk Topobase 2009 task pane.

1.6 Chapter Summary

You should now be able to:

- Launch Topobase.
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- Explain workspace, document, topic, feature class and domain
- Navigate in the map window.
- Effectively use the Autodesk Topobase 2009 interface.
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