



Creating Features with Digitize Options in the ENC Editor

By Judy Bragg

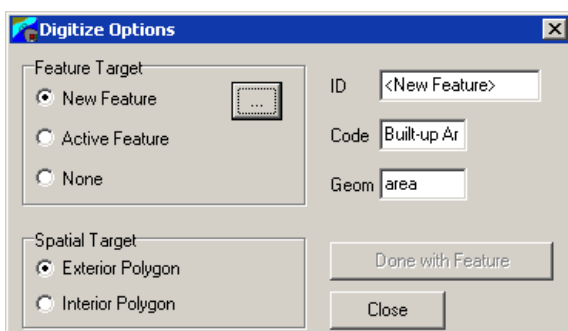
In early versions of the ENC Editor, to add a feature to the S57 chart required a complex, multi-step process. It was not difficult, once you understood the concepts and how to navigate between the editor and the object manager, but nonetheless a little lengthy particularly for line and area features. To create line and chain features, required that you define the spatial positioning record separately from the feature description, then put them together so the feature could be placed correctly in the chart.

As development of the ENC Editor has progressed, Bill Bergmann ('ENC Editor wizard') has been able to build in a few routines that begin to combine and automate some of the work to make the task of chart editing a little more simple. The Digitize Options (DigiOps) is one such example.

When you use your cursor to digitize a feature in the Editor map display, the DigiOps routine automatically generates both the spatial and feature records, then assigns the spatial records to the feature.

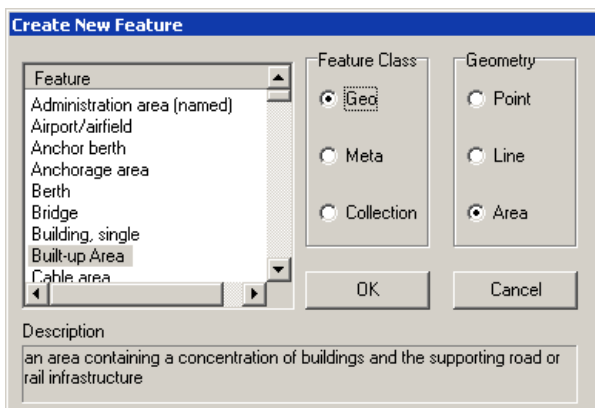
1. **Click [DigiOps].** The Digitize Options dialog will appear.

FIGURE 1-1. Digitize Options Dialog



2. **Select New Feature and click [...].** The Create New Feature dialog will appear.

FIGURE 1-2. Create New Feature Dialog



3. **Select the feature with its class and geometry and click [OK].**

If you have chosen a feature with Area geometry, the Spatial Target options will be enabled in the Digitize Options dialog.

4. **If you are creating an area object, choose a spatial target.**
 - **Exterior Polygon:** You are describing the area inside the polygon. In Figure 1-3, it describes the outer border of the land area.
 - **Interior Polygon:** You are describing an area outside the polygon. In Figure 1-3, it describes the inner border of the land area.

Note: Take care to describe your polygon in the correct direction—clockwise for exterior polygons and counterclockwise for interior polygons.

FIGURE 1-3. Exterior and Interior Polygons

5. **Use the cursor tools ([+chain], [+CON],...) to digitize your feature in the map display.** When the first spatial is completed, the feature and its spatial reference automatically appear in the Object Manager. As each chain or node is added to the feature, the spatial is added in the feature's reference list.
6. **Click [Done with Feature].**
7. **For each additional feature, repeat the process from step 2.**
8. **When you have finished digitizing features, click [Close].**

