



BAG Files from a TIN Model

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New in the HYPACK 2010 release will be the ability to export BAG files in the TIN Model.

The Bathymetric Attribute Grid (BAG) file type is the standard for The National Ocean Service (NOS) hydrographic data files. They contain XML metadata and two Layers in a matrix format one of Elevation and another Uncertainty. Also contained is a list of post file creation edits to the data.

To create a BAG file in TIN MODEL:

1. **Open TIN MODEL and build the model of your data.**
2. **Select EXPORT-SELECT** to open the Export window.
3. **Enter the metadata.** In the Bag tab, you have the option to set the metadata yourself or import the information from a pre-existing BAG file or from an XML file that follows the correct schema.

FIGURE 1. *Generating BAG Files from TIN MODEL*

The screenshot shows the 'Export' window with the 'Bag' tab selected. The 'Metadata' section has 'Set' selected. The 'Spacing' section shows 'Cell Width' as 15 and 'Cell Height' as 10. The 'Tin 1' checkbox is checked. The 'Output File' button is visible, and the file path 'CK 2010\Projects\Sample_TIN_MODEL\bag.BAG' is entered. The 'Export' button is at the bottom. A 'Metadata Set' dialog box is open, showing the 'Basics' tab with fields for 'BAG' (1/ 1/2010), 'Survey Date' (1/29/2007), 'Abstract' (Hydrographic Survey Data of Shallow Water Survey Test Area, Portsmouth, NH), 'Purpose' (Test Data to Check Out Bag Option), 'Survey Name' (empty), and 'Status' (Complete).

4. **Click [Output File]** and provide a name for the BAG file.
5. **Click [Export].** The program will generate the BAG file that includes your metadata and the TIN data as the elevation layer. Since the TIN MODEL program does not include uncertainty, it is undefined in the BAG file.