



Import Lines from a DXF File

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If you have already used another program to create planned lines in DXF format, there's no need to recreate your line files in HYPACK®. HYPACK®, has long had the ability to export planned lines from a DXF, but we still get several calls about it every month so I thought a refresher might be in order.

First, some things you need to know before you begin to use this feature of HYPACK®.

For 2 D Lines:

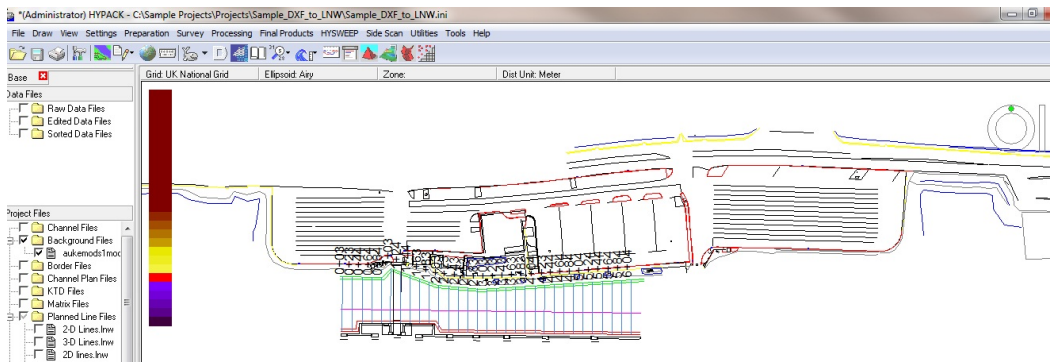
- DXF file must be created with planned lines on its own designated layer.
- You are only allowed 2 waypoints per line.

For 3D Lines:

For 3D Lines we also have some rules to follow.

- You must have a DXF file with Planned Lines (2D or 3D polylines) on a distinct layer.
- The Centerline (3D), Left Toe Line, Left Top of Slope, Right Toe Line, Right Top of Bank must each be on a distinct layer.

FIGURE 1. Example of a DXF file with Planned Lines, Loaded as a Background File in the HYPACK® Shell



1. **Load the DXF file into HYPACK® as a background file.**
 - a. **Right-click on the Background files folder and select ADD FILE AND COPY-DXF FILES.**
 - b. **Select your DXF file and click [Open].** This will copy the file to your project file and display it in the current project.

Now that we have a DXF file with planned line information to work with we're ready to begin the export.

2. **Launch the DXF TO LNW program.** In the Background Files list, right-click on the DXF file that contains your planned line information and select the 'Export to LNW' choice. The DXF TO LNW dialog will open listing all the layers found in the DXF file.
3. **Tell HYPACK® which layer contains the planned lines.** In our example, CAD user who created the DXF file was nice to us and named the layer 'Planned Lines'.
 - a. **Right-click on the Planned Lines layer in the listing.** The layer name will be highlighted and a pop-up menu will appear.
 - b. **Select 'Planned Lines' to identify the highlighted layer.** In this case, it is Planned Lines.

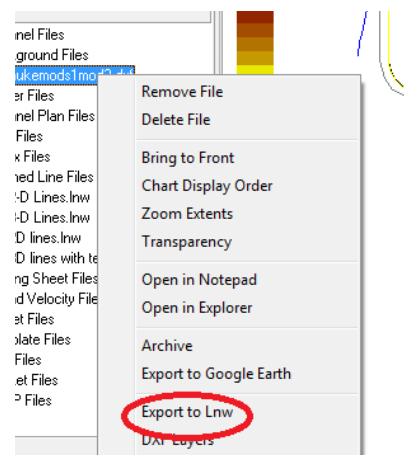


FIGURE 2. Identifying the Planned Line Layer in DXF TO LNW

Note: If this were a 3D file, you need to identify the layer for each channel line in the same manner.

4. **Set the export options.**
 - **Starting chainage** will default to 0. If yours is different, simply type the starting chainage in the correct field.
 - **Naming Scheme** you have three choices, use the drop down to make a selection.
 - **Export Format:** Indicate what the export result will be. Is it just Planned Lines? Is it Planned lines with a Template? Or is it just Channel Lines?
In our example, it's simply Planned Lines so we select 'Planned Lines Only'.
5. **Click [Export]** . The Save As window will open giving you a chance to name your file. Give your file a meaningful name and click [Save]. A HYPACK® Planned Line file will be generated based on the information in the DXF file.

