Production Line Tool Sets

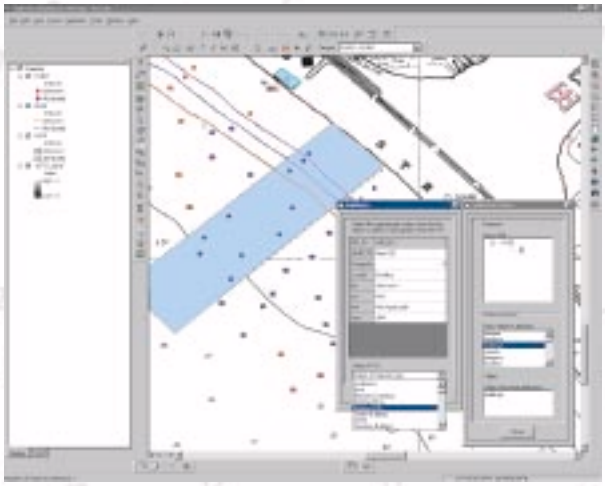
Digital Nautical Charts

DNC Production

The ESRI® Production Line Tool Set (PLTS) tools are now integrated into the ArcInfo™, ArcView®, and ArcSDE™ desktop applications, thus enhancing the core functionality of these applications for producing Digital Nautical Chart (DNC) databases. This seamless integration was performed using Visual Basic®, Visual C++®, and ArcObjects™ software.

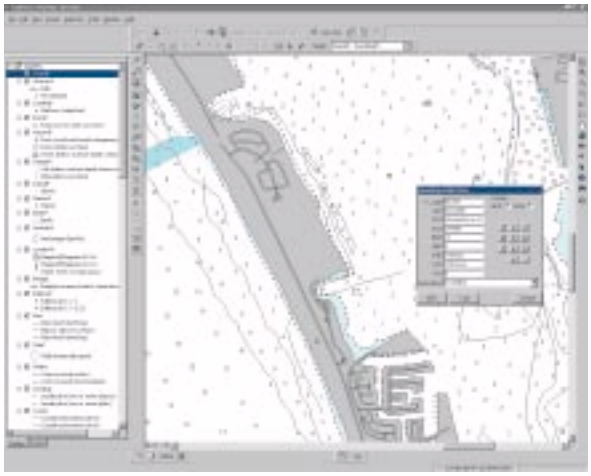
General

The DNC PLTS is used to produce NIMA, VPF-standard, DNC databases from existing hard-copy sources; perform maintenance on existing VPF libraries; and import ocean bathymetric survey data. The DNC tool set is used for high-volume production and maintenance of DNC libraries. Custom processing toolbars, developed within ArcMap™ software, now allow for editing, adding attribution, and inputting Notice to Mariner updates. Predefined work flows provide a highly efficient and effective manner in which to process data.



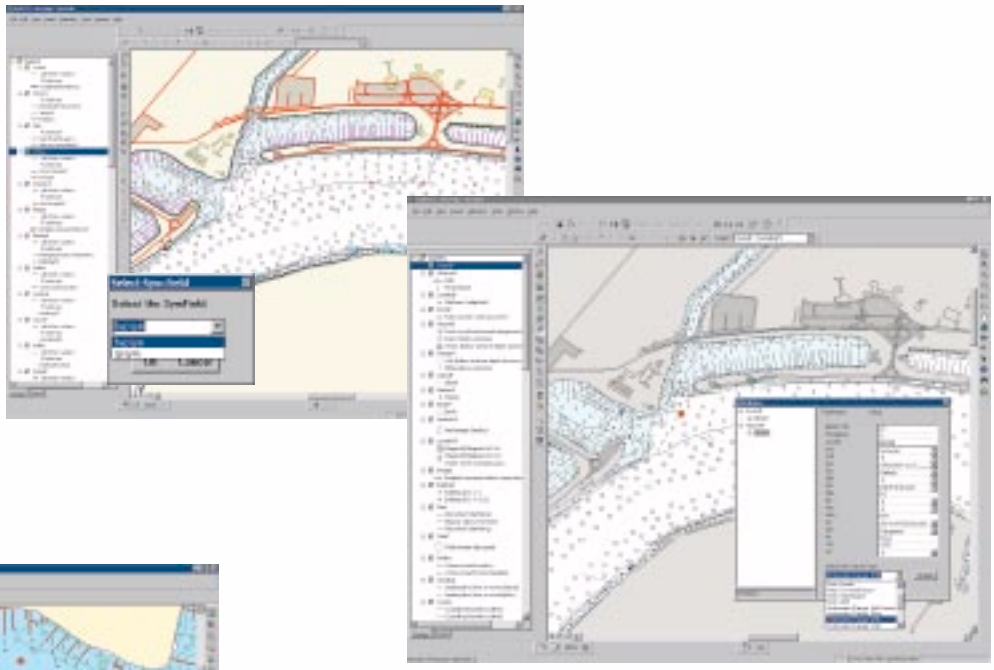
Geodatabases

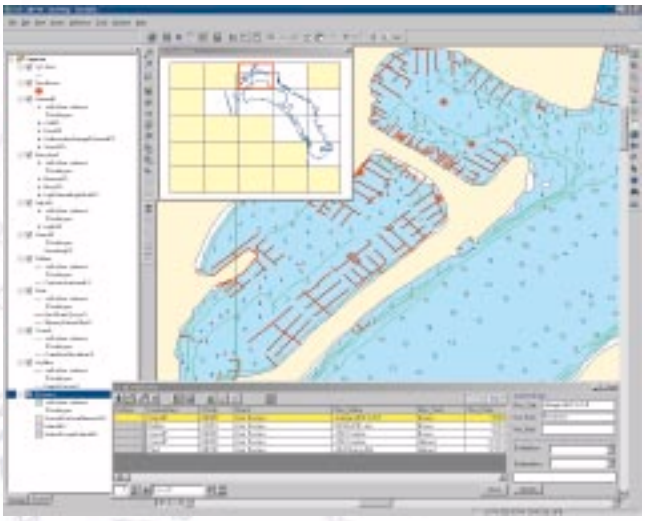
Included with the PLTS tools are custom geodatabases that have been built to store the DNC data structure. These geodatabases mirror the VPF data structures and are defined using feature classes, subtypes, and coded value domains. Also included in the PLTS are data loading tools for importing VPF data directly into these models.



Valid Value Tables

Valid Value Tables (VVTs) contain all of the valid attribute combinations, as well as the attribute descriptions, and can be used to add fully coded features to a database. When importing data into a geodatabase, VVTs are used to ensure that the data within the database meets the attribute combination consistency. Symbology, stored with each valid attribute combination, is used within ArcMap to render the database.





Quality Control

Quality control of the database is done using the Validate command from within the ArcMap application and with the GIS Data ReViewer. Domain errors and errors found during visual inspection are logged into an error tracking table. More specific checks can also be run on the data to check for such errors as overlapping polygons and invalid attribute combinations. Once logged, these errors can be revisited for correction and validation and then stored for data history.

For further information and pricing, please contact

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