4.4.3   **Using VBA/ArcObjects to Develop a New Statewide Linear Referenced Geodatabase From Legacy Formats**

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With the advent of the Geodatabase, transportation data developers have new capabilities to help deliver data to customers. Users also have the challenge of determining ways to bring legacy data to the new format without losing the utility of existing applications or spending extensive time in transition.

Enterprise Information Solutions, Inc. has worked with Maryland State Highway Administration (MDSHA) to minimize the impacts of migrating to ArcGIS technology while maximizing new capabilities when appropriately applied to the business processes at MDSHA.

MDSHA now uses a form-based VBA/ArcObjects tool inside ArcMap to:

•   Convert more accurate and complete road centerlines from multiple formats into an Oracle/SDE geodatabase

•   Update arcs and attribution as needed

•   Add calibration points and polyline attribution

•   Convert polylines to Geodatabase route feature class

•   Maintain route geometry and measures using the custom tool

This conversion process is an integral part of a larger movement at MDSHA toward interoperability among State and Local Government. The efficiency and timeliness of the conversion is vital to feeding data to other upcoming efforts. With the use of the custom tool, MDSHA has maximized efforts with users of various skill levels to accelerate the conversion timeline and maintain data quality.