



FEATURE DATA COLLECTION

The collection of feature data is critical to the overall success of any geospatial production operation. The earlier in the process you can detect and correct errors, the more efficient your workflow will be. Intergraph®'s Feature Data Collection application, powered by GeoMedia® Feature Topographer and GeoMedia GI ToolKit, enables organizations that collect data to detect anomalies at the point of entry, allowing for quick remediation. This has a direct impact on the quality assurance cycle later in the workflow and reduces the amount of time spent tracking down data errors late in the process.

Feature Data Collection is a component of Intergraph's Geospatial Intelligence Production Solution (GIPS). GIPS is an enterprisewide solution for feature data collection, creation and maintenance of geospatial data warehouses, and digital or hardcopy production of geospatial intelligence products suitable to support local, regional, national, and multi-national activities, including military operations or emergency response.

GEOMEDIA FEATURE TOPOGRAPHER

The GeoMedia Feature Topographer environment accelerates the collection process while ensuring that collection parameters conform to your technical requirements. It provides 2D feature collection tools for standard image formats with the option to add 3D feature collection from stereo imagery.

The software provides user-friendly tools for feature data collection and revision with capabilities to define schema, rules, and symbols for feature-specific validation adaptable to any feature-extraction specification. GeoMedia Feature Topographer gives data collectors a powerful set of feature attribution tools to complement point, line, and area feature

extraction capabilities. Definable rules ensure the collector captures features correctly, verifies all mandatory attributes are entered, and validates attribute values dynamically during collection. GeoMedia Feature Topographer also includes automatic attribute population capabilities. You can execute attribute validation as a post-collection process to identify, report, and display errors. You can even define your own default values during the collection process through the graphical user interface (GUI).

GEOMEDIA GI TOOLKIT

Intergraph's GeoMedia GI ToolKit assists the GeoMedia Feature Topographer product by providing a central location to store and access the schema, rules, and symbols (SRS) database and allowing you to create and manage rules for data collection. The SRS provides a user-friendly interface for defining data schemas. It also lets you define data value constraints, such as codelists, attribute ranges, and required attributes. The SRS is delivered with feature data collection presets that conform to the Multinational Geospatial Co-production Program (MGCP) technical specifications or the Feature Attribute Code Catalog (FACC). The flexibility of the SRS intelligent database in the GeoMedia GI ToolKit lets you tailor data collection to fit any data extraction model specification and meet your organizational needs.

GeoMedia GI ToolKit also includes productivity accelerators, such as toolbar controls, to place the appropriate tools at the data collector's disposal based on the specific features being collected, tools for quality assurance, feature inspection, attribute comparison, squaring geometry, Military Grid Reference System (MGRS) readout, and report generation. User-definable templates help the collector quickly assess whether a feature needs to be captured.

FEATURES AND BENEFITS

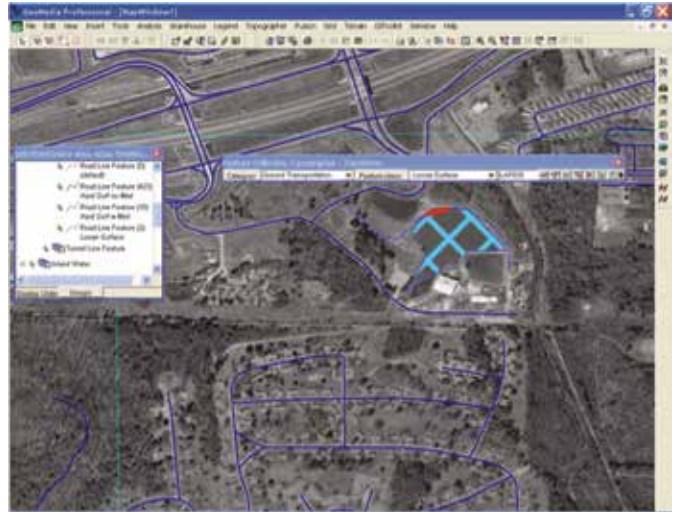
- Flexible, rules-driven workflow
- Optimized feature data collection and revision
- Automatic attribute population
- Feature data collection that conforms to MGCP specifications
- Flexible SRS database that can be adapted to any specification
- Validation performed at the collection point
- Anomaly detection and fixing at the collection point, which accelerates the quality assurance cycle

APPLICATION COMPONENTS

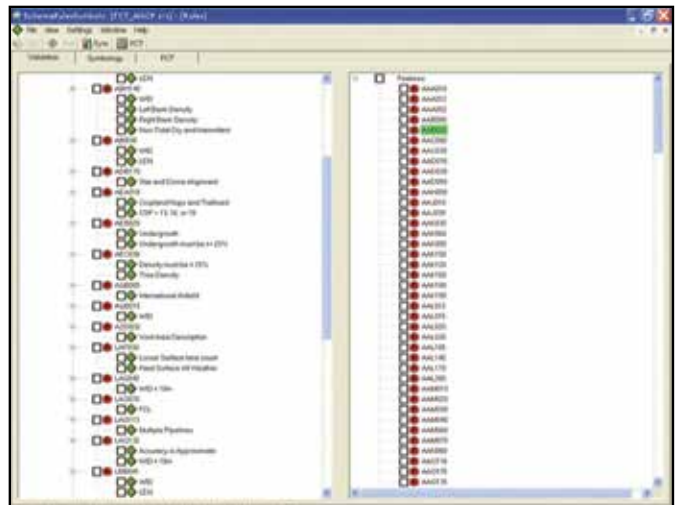
- GeoMedia Feature Topographer
- GeoMedia GI ToolKit
- GeoMedia Professional

Other optional components include:

- ImageStation® Stereo for GeoMedia
- GeoMedia Image
- GeoMedia Image Professional
- VLS Feature Analyst
- GeoMedia Stereo Feature Collection/PixelQue
- GeoMedia Terrain
- Image Analyst



In this image, validation rules automatically highlight a geometric violation for easy identification and correction, while the Feature Collection Tool is customized to put the preferred tools in the collection palette.



This image shows the SRS database, which is delivered with a base set of Multinational Geospatial Co-production Program (MGCP) validation rules.



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