

SOVZOND`S PROCESS SOLUTIONS FOR RS DATA PROCESSING

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Sovzond steadily advances in developing its design activity with the aim of providing the customer with most optimal task solution.

Apart from remote-sensed data Sovzond supplies software for its processing – ENVI software system which includes a tool package for full data processing cycle from orthorectification and georeferencing to obtaining the required data and its integration with GIS data, including mosaic construction and image interpretation. ENVI current version supports five additional modules: ENVI Spatial Feature Extraction Module (SFE) designed for automatic identification of linear and volumetric objects (such as roads, structures, water bodies, coastlines, agricultural fields, flight strips etc.) on the image, DEM development module, FLAASH module for atmospheric correction, two additional modules SARscape Basic and SARscape Interferometry intended for processing radar mapping data received by synthetic aperture radars (SAR).

Along with deliverables of ITT Visual Information Solutions software Sovzond supplies Bentley Systems software to Russian market: MicroStation V8 XM Edition, including Geospatial Extension, Bentley Descartes, Bentley Map, Bentley Geospatial Server and other applications.

In 2007 a new **Bentley Geospatial Desktop** application was developed which completes **MicroStation**, making it a true GIS. **Bentley Geospatial Desktop** consists of 2 main parts: **Geospatial Extension** and **Bentley Map**. **Geospatial Extension** is an updated version of **Bentley Geographics**, which is as easy and functional as the latter product. **Bentley Map** is a fully functional GIS intended to provide, manage and analyze space data. **Bentley Map** application uses XFM technology. **XFM (XML-based Feature Modeling)** technology is based on the object-oriented modeling. The user assigns and selects the required objects, attributive information, formatting standards, distributes authorities among users within the working project by means of Bentley Geospatial Administrator. The project is saved in **XML** file. Such an approach allows to store objects not only as graphic elements with attached attributes but as logically bracketed elements with certain properties and characteristics. Such presentation of graphic data allows to import and export data between various systems without losing spatial logic binding between objects.

Sovzond is an exclusive distributor of ITT Visual Information Solutions corporation in Russia and CIS countries.

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