

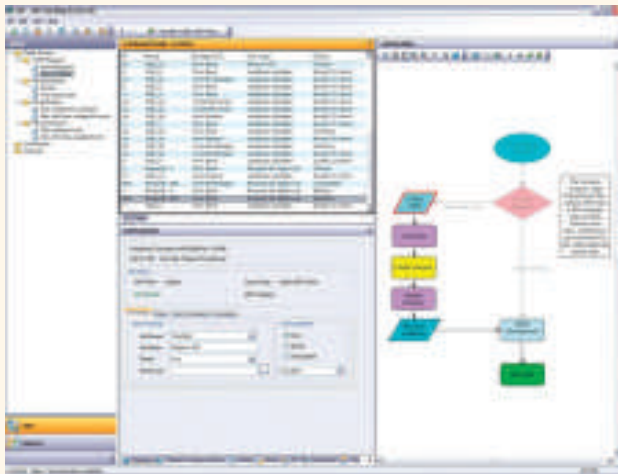
Job Tracking for ArcGIS (JTX)

An Enterprise GIS Workflow Management

Data production and maintenance projects, both large and small, have a vital need to have their project information (e.g., staff allocation, progress and status, changes to data) tracked as well as to have the work completed in the most efficient and timely manner possible. Being able to monitor these efforts in a way that does not encumber the production process and that is tightly integrated with the software has traditionally been the primary challenge when it comes to job tracking. Now, with ESRI's Job Tracking for ArcGIS (also referred to as JTX), there is a tool designed to help organizations overcome this challenge.

Job Tracking for ArcGIS (JTX) is a workflow management application designed to improve the efficiency of any multiuser GIS project. Job Tracking for ArcGIS (JTX) provides advanced job tracking and workflow management tools to help your organization save time and money.

JTX benefits data maintenance managers and engineers, GIS technicians, mapping engineers, and QA/QC analysts with up-to-date information from project inception to quality control and deployment. It is also available as an extension to ArcGIS Server.



Create jobs and execute workflows with the JTX client application for the desktop.

With JTX, you can

- Organize, standardize, and streamline project workflows.
- Improve user productivity by automating multiuser tasks and reducing repetitive setup procedures.
- Save time by completing enterprise GIS tasks while tracking staffing, time schedules, and more.
- Easily create and assign work to appropriate resources.
- Simplify creation, management, and tracking of geodatabase versions and simultaneous editing.
- Centralize, update, access, and maintain consistency for all job-related information across your organization.
- Maintain and track feature edit transactions after each job has been completed.
- Easily manage and distribute work for geographically dispersed workforces.
- Seamlessly integrate your GIS and other business applications.

- Access the capabilities of JTX through an easy-to-use Web application on the desktop or in the field (server version only).

Key Features

Workflow Management

You can define, organize, and standardize the individual tasks within a workflow; allocate staffing resources; automate tasks; and track the status and progress of jobs from beginning to end using Job Tracking for ArcGIS (JTX).

You can easily identify

- Who is working on what
- What the status is
- Individual, group, and project progress
- Resource use and allocation
- Data changes
- Project updates



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Job Tracking

Any action performed on the job, such as executing an edit feature step, is captured and logged in the administration database. This gives you a complete chronological registry of job-related information such as

- All interactions with a job
- Changes to the state of the job
- Execution of a step or task
- Time-stamped comments



Associate a geographic area with your jobs.

Version Management

JTX includes a comprehensive set of version management tools to facilitate simultaneous project workflows from a centralized geodatabase. It ensures the execution of

- Long and complex geodatabase transactions safely
- Version assignments for the life of the job
- Data referencing
- Individual feature edit tracking
- Versioning maintenance

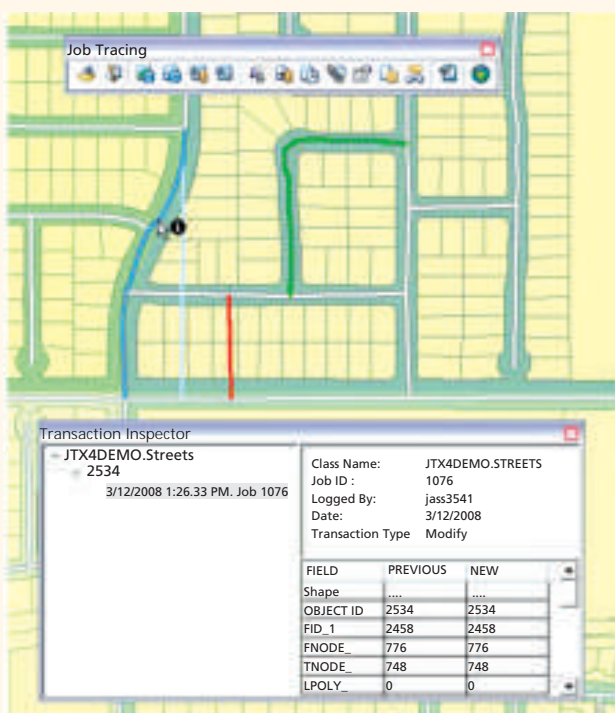


A log of all user interactions with the job is automatically recorded in the job's history.

Multiple Data Warehouse Support

Using the multiple data workspace functionality, you can

- Manage data distributed across multiple ArcSDE geodatabases with one JTX repository.
- Use data from varying departments or data stores within your organization to complete tasks within your JTX system.
- Configure each geodatabase connection as a data workspace in the JTX system.



History Tracking and Change Detection

JTX delivers rich support for the capture and storage of feature-level transactions, which are ascertained when the job version is reconciled and changes are posted back to the master database. These records give you

- Details stored in an Open Geospatial Consortium, Inc. (OGC)-based XML format that leverages industry-standard models for features
- Query access by job number, date, date range, or Global Feature Identifier to support QA process requirements

- E-mail notifications when changes are made in the geodatabase

Spatial Notifications

You can use the automatic e-mail notification tools to

- Alert key people within your organization when changes are made to features within your database.

Configure rules for how the e-mails will be triggered such as by changes to certain features,

- certain updates to a specific feature, or changes within a specified



Receive automatic e-mail notifications when changes are made to your spatial data.

Reporting

A reporting engine gives you the ability to define and produce summary reports for your projects that are managed with JTX. The report output is stylized using XML style sheets (XSLT).

Status Report (All Jobs)			
Status	Champion	Priority	Count
Analysis	Peter Parker	High	1
Total Jobs:			1
Status	Champion	Priority	Count
Cartography	Suzie Miller	High	1
	Suzie Miller	Low	1
Total Jobs:			2
Status	Champion	Priority	Count
Closed	Michaels Livingston	High	1
	Michaels Livingston	Low	1
	Suzie Miller	Low	8
	Suzie Miller	Medium	2
Total Jobs:			12
Status	Champion	Priority	Count
Created	Suzie Miller	Low	3
Total Jobs:			3
Status	Champion	Priority	Count
Done Working	Suzie Miller	Medium	2
	Terry Bent	High	1
Total Jobs:			3

Design and execute reports in the JTX system summarizing job information.

Key Benefits

JTX saves time and enables you to more efficiently utilize your resources by allowing you to

- Automatically record a detailed history of job actions, track edits to individual features and associated metadata, and manage versions for simultaneous editing.
- Allocate staffing resources, automate tasks, and track the status and progress of jobs from beginning to end.
- Automatically capture and log actions performed on jobs in the administration database with time-stamped comments.
- Manage data distributed across multiple ArcSDE® geodatabases with one JTX repository.
- Capture and store feature-level transactions ascertained when the job version is reconciled and changes are posted back to the master database.

- Notify key people via e-mail when changes are made to features in the database.
- Query, filter, sort, and group data and display the results of queries in formats that suit organizational needs.

Who need Job Tracking for ArcGIS (JTX)?

Organizations that need to complete GIS tasks while tracking changes to data and manage staffing resources and time schedules benefit from Job Tracking for ArcGIS (JTX). This includes users such as

- Data maintenance managers and engineers
- GIS technicians
- Mapping engineers

- QA/QC analysts

For example, a data maintenance manager or a mapping engineer may need to keep multiple staff members working on different aspects of the same project while tracking changes to the database. With Job Tracking for ArcGIS (JTX), this process is simplified, providing both the manager and the users up-to-date information from project inception to quality control and deployment.

For more details, please visit :

<http://www.esri.com/software/arcgis/extensions/jobtracking/index.html>

Introducing ENVI 4.7 – The Next Step in Workflow Integration

E NVI – the premier solution to extract information from geospatial imagery – delivers innovative ways to streamline your image processing and analysis workflows. Recent releases have introduced new workflow innovations including integration with ArcGIS®, and automation of essential image processing tasks.

Now, ENVI 4.7 delivers the next level of workflow innovation by introducing powerful new integration between ENVI and ArcGIS. This release allows you to easily drag and drop any data file to ENVI, to display vector layers with your imagery with consistent styling and symbology, and to easily output results as map products. In addition, ENVI 4.7 includes support for more file formats, continuing a longstanding ENVI tradition of helping you get information from the newest imagery and data types as they become available.

Integration with ArcGIS for an End-to-end Image Processing Workflow

Today there is a growing convergence of imagery and Geographic Information Systems (GIS) applications in the fields of government, commercial, and research. As image scientists and analysts, you need to be able to move seamlessly between GIS and image processing applications, with the ability to share files and data – not just to improve workflow efficiencies, but to get the most information you can about a geographic area of interest.

ENVI 4.7 makes it easy to incorporate GIS data and layers with your image processing workflow. Now you can seamlessly drag and drop ArcGIS files from Microsoft® Internet Explorer®, from your desktop, or from the ArcGIS interface directly into the dynamic ENVI Zoom display while maintaining the robust native symbology and styling that ArcGIS is known for. Once vector layers are available in ENVI, you can display and visualize the layers along with your imagery, perform further analysis on your imagery, and output processed results to a map, a printer, or a report to share with colleagues.

Easily Create Maps and Print Your Results

ENVI 4.7 integrates native ArcGIS mapping tools and templates, making it easy to create and edit maps and other types of output from directly within ENVI. To create a map, simply choose print preview, open any of the ArcGIS template files that offer different layout choices, then apply that template to the data you want to map. Data is easily accessible via the ENVI Zoom layout manager. And titles, textboxes, and the layout of the map are all easily editable and can be printed or exported to a variety of file formats, including geoenabled PDFs, Microsoft PowerPoint® slides, and more. A screenshot of your work at any step can easily be sent to a printer or PowerPoint slide using new “chip to” capabilities.

Quickly Edit Features

Frequently, vector data needs to be edited to make features appear more true to life. Editing vector data in ENVI is easy. ENVI 4.7 has a set of feature editing tools available both in a highly visible toolbox, or by simply right clicking your mouse for a context menu. Feature editing tools included with ENVI 4.7 include:

A Rectangulator Tool that allows you to select one or more polygons and run an algorithm that will make shapes more rectangular. This option is great for identifying rooftops as well as larger polygons, such as fields, and smaller ones, like cars

A Smoothing Tool that allows you to select one or more polygons and make the outline smoother by removing vertices. This produces a rounder, less jagged shape

All feature editing tools, including these two are easily accessible during vector editing. Simply select one or more polygons and right click to bring up a context menu of all your feature editing tools.

Image Processing Support for More File Formats

In addition to workflow improvements, ENVI 4.7 also introduces additional file format support to help you get the information you need from new data formats as they are introduced to the marketplace. ENVI now supports:

Landsat GeoTIFF with Metadata (MTL)

Open, process, and analyze Landsat Geotiff MTL files using a more powerful calibration tool that will allow you to open and calibrate Landsat files quickly

COSMO-SkyMed

Access data collected from the COSMO SkyMed satellite system using ENVI 4.7, and geocode it using the add-on SARscape® Modules for ENVI, which allows you to create a high precision product without the need for ground control points

RapidEYE

Data from the RapidEye satellite is now supported in ENVI in both GeoTIFF and NITF formats

ERDAS Imagine

ERDAS® Imagine image files are now supported in ENVI. Both compressed and non-compressed formats are available for viewing and for use in processing and analysis routines

Fully integrated with ArcGIS to streamline image processing and analysis. An end-to-end workflow that allows you to output print quality maps. And support for the file formats you use for information.