

**accuracy analyst™**  
Map with Confidence



**Map Accuracy Tools**  
by Spatial Information Solutions



**spatial  
information  
solutions**



# Why are Map Accuracy Tools Important?

**Map accuracy matters now more than ever!** Why? Accurate maps are important to your applications, the assets you manage, and the services you provide. Around the globe, people are rapidly adopting the use of GPS and mapping technologies for automobile navigation systems, cell phones, web applications, business information solutions, and vitally important services such as emergency 911. Within five years we will be using these technologies everywhere – all of the time. For the public and the consumer, inaccurate maps are not an option.

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**Accuracy Analyst™ is the first software solution to determine location errors in the image data used to produce maps.** Accuracy Analyst™ ensures that your image data are accurate, a capability important to making highly accurate maps and delivering up-to-date content that customers and users need.

# Digital map data are being used in ways like never before...

In the explosion of modern mapping applications, digital map data are being used in ways like never before, from web-based maps to in-vehicle navigation to emergency 911 services. In our connected world, traditional methods simply can not keep up with assuring the data being produced and used meet accuracy and quality needs. The challenge is filtering out the good data from the bad. Commercial software solutions capable of assuring that digital map data are accurate and complete are a necessity.

Map data verification is currently characterized by lengthy, inefficient, and expensive manual validation services. Map updates were slow and user applications were limited – until now.



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Spatial Information Solutions, Inc. (SIS) is a Mississippi State University spin-out

company led by Dr. Charles O'Hara. SIS was formed in January of 2006 to address needs in the mapping industry for automated methods to assure the accuracy, quality, and content of digital map data. After extensive research and development, SIS introduces Accuracy Analyst™, a software tool that revolutionizes map accuracy technology.

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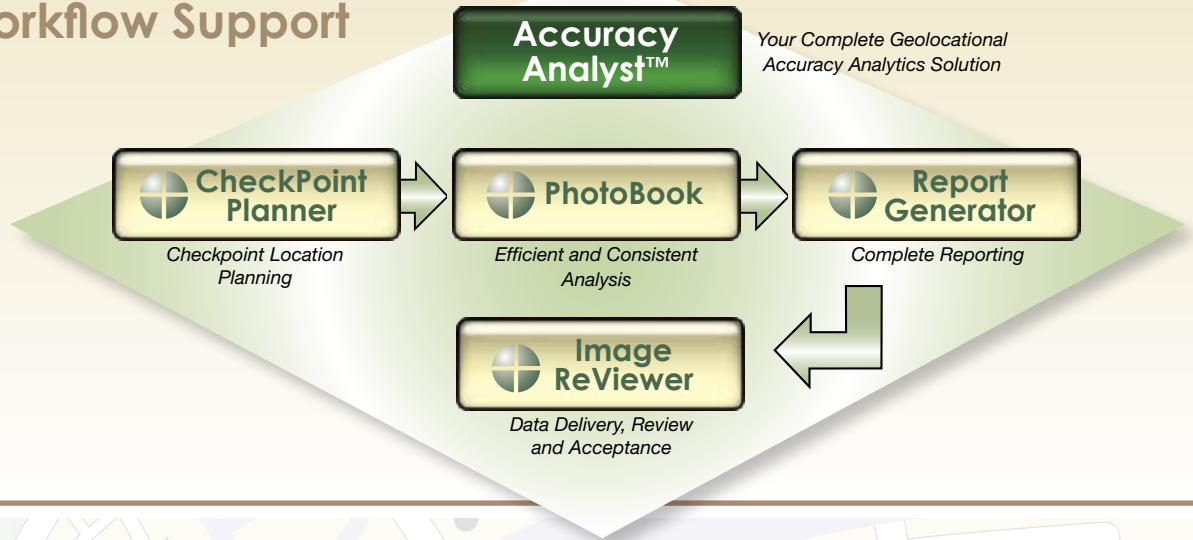
**Accuracy Analyst™** is patent pending software that solves the complex problem of determining image geolocation accuracy. Accuracy Analyst™ is a crucial tool for any business, agency, or organization that produces, sells, uses, or depends on mapping. Standardize your data and product accuracy; provide and document consistent and standards-based (NSSDA CE95) quality assurance of map image data and products. Not only is Accuracy Analyst™ the first and only software to deliver geolocation accuracy verification, but it is also –

- **Cost Effective:** Initial cost is a fraction of traditional manual accuracy verification.
- **Efficient:** Do data meet accuracy specifications? Get your answer in hours, not weeks.
- **Easily Mastered:** Streamlined workflow means staff is up and running within an hour.
- **Enabling:** Staff can verify image accuracy – Reduce costs or needs for lengthy and expensive services contracts.
- **User-Friendly:** Intuitive interfaces easily understood and mastered.
- **Reusable:** Use again and again for all of your image planning, verification, and QA needs.

**Got Accuracy?** Image or map data vendors need to provide verified products or wish to clearly differentiate your products from inferior competition. Agencies with a mapping mission need to standardize and make verification of products a systematic, consistent, and efficient process. Service or value-added mapping companies need to enhance product offerings and capabilities or reduce costs to improve the bottom line. Engineering-driven agencies, organizations, or firms require the highest degree of accuracy in design and construction. Image users need to select and use best available data. Accuracy Analyst™ is the first and only software tool that meets all of these needs. Don't delay – buy Accuracy Analyst™ and **Map with Confidence!**



# Accuracy Analyst™ Version 2.0 Extends Workflow Support



**Coordinates and Offsets**

USE ID	X1	Y1	X2	Y2	A	E	E.Y.
SF3-3	222950.72	15828471.42	222950.82	15828471.88	0.00	0.24	
SF3-4	2241789.81	15828732.42	2241789.87	15828734.18	0.06	0.24	
SF3-5	2222792.21	15812088.00	2222793.31	15812087.94	-0.01	-0.24	
SF3-6	2222886.91	15812088.41	2222887.27	15812088.21	0.06	0.10	
SF3-7	2228884.91	15812359.81	2228885.21	15812359.68	0.00	0.08	
SF3-8	2228883.83	15812357.34	2228883.88	15812357.35	-0.17	-0.18	
SF3-9	2228882.25	15812357.25	2228882.25	15812357.25	0.00	0.00	
SF3-10	2232269.90	15814271.29	2232269.87	15814271.18	0.17	-0.14	
SF3-17	2246279.08	15814783.91	2246279.97	15814783.87	-0.17	-0.14	

**Error Statistics**

Min dX	-0.09	Max dX	0.00	Mean dX	0.04
Min dY	-0.43	Max dY	0.24	Mean dY	0.00
Skew dX	-0.50	Skew dY	-0.01	Max. Dev	0.04
RMSE X	0.26	RMSE Y	0.26	No. Observations	51
	RMSE Min	RMSE Max	0.57	CE90	0.58
				CE95	0.66

**Point SF3-9**  
Survey Checkpoint Photo

**Images Associated**

- SF3-9a.jpg
- SF3-9b.jpg

Default Photo: [Image of building and tripod]

Select Default Camera | Use Selected Photos in Report | Exit

**USGS data for Sioux Falls analyzed with high accuracy checkpoints verifies unparalleled accuracy of new digital image products.**

# Accuracy Analyst™ Map Accuracy Tools

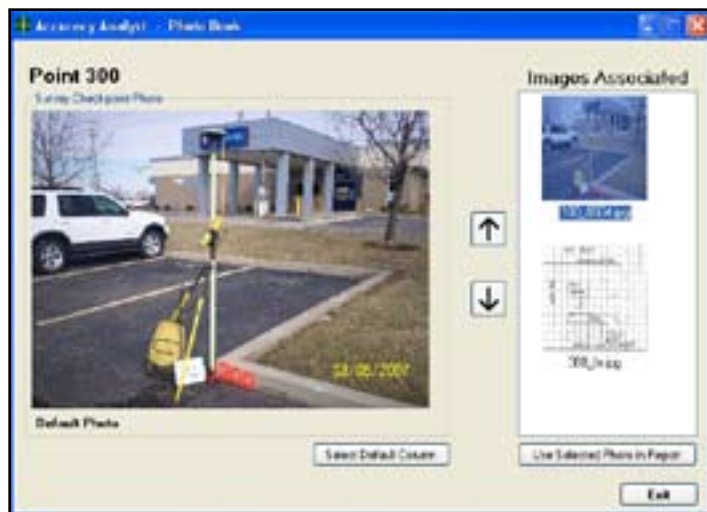
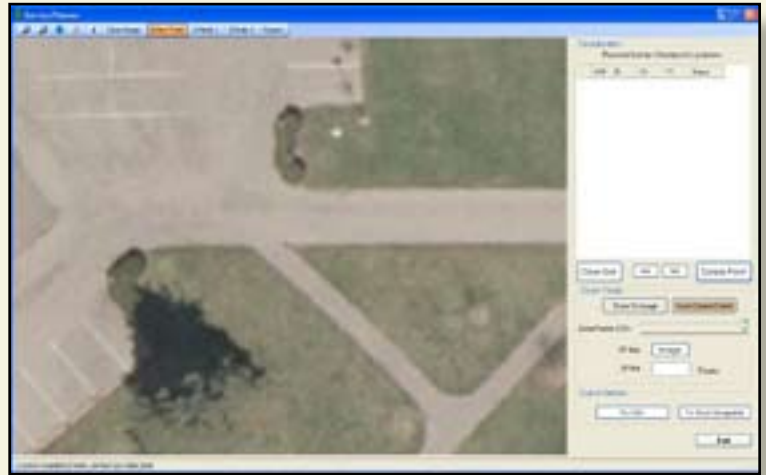
Shared analytics for seamless workflow. Plan, Produce, Deliver – and Map with Confidence.

## Checkpoint Planner

*Takes the Guesswork out of Field Work*

**Checkpoint data ensures accurate map data. Use CheckPoint Planner to:**

- ID points easily seen in aerial photos for planning on-the-ground survey.
- Create detailed plans for efficient survey work.
- Create nav files so crews can easily get on site.
- Plan and build CheckPoint Library data.
- Reuse checkpoints for verifying all digital map data.



## PhotoBook Guides the Analyst

**PhotoBook allows rapid and confident ID of photo locations that match checkpoints.**

- Automatically load photos and sketches for checkpoints.
- Improve analysis efficiency and eliminate doubt.
- Incorporate PhotoBook contents in report output.
- Deliver validated results that eliminate uncertainty.

## Image ReViewer Facilitates Enhanced Delivery, Review, and Acceptance

**Producing, delivering, and reviewing image data is complex and lacks tools and methods – but it doesn't have to be! Use ReViewer to:**

- Review production data and identify problems.
- Document data product QA.
- Provide tools and methods for full accuracy review.
- Provide standard methods for image review and markup.
- Ensure easy data review, feedback, and acceptance.
- Differentiate accuracy and quality of data products.



*Missing data and other problems easily identified using ReViewer.*

# User Feedback

**1st Use:** “Just finished the accuracy evaluation on my Corps of Engineers project. Took about 10 minutes — the first time. This is really nice.”

**2 Weeks Later:** “Accuracy Analyst will be our standard tool for product accuracy reporting from now on. What took 4 to 5 days manually can now be done in minutes — concisely, and with a great report!”

**2 Months After Adopting:** “We will not do another project without Accuracy Analyst!”  
— *Steve Kasten, VP Surveying & Photography*  
*SURDEX Corporation*

To see a demo, provide your own feedback, or submit your project to our gallery, visit [www.spatialis.com](http://www.spatialis.com).

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**Buy Accuracy Analyst™ 2.0 online today!**

[www.spatialis.com](http://www.spatialis.com) or call 662-323-0202.



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