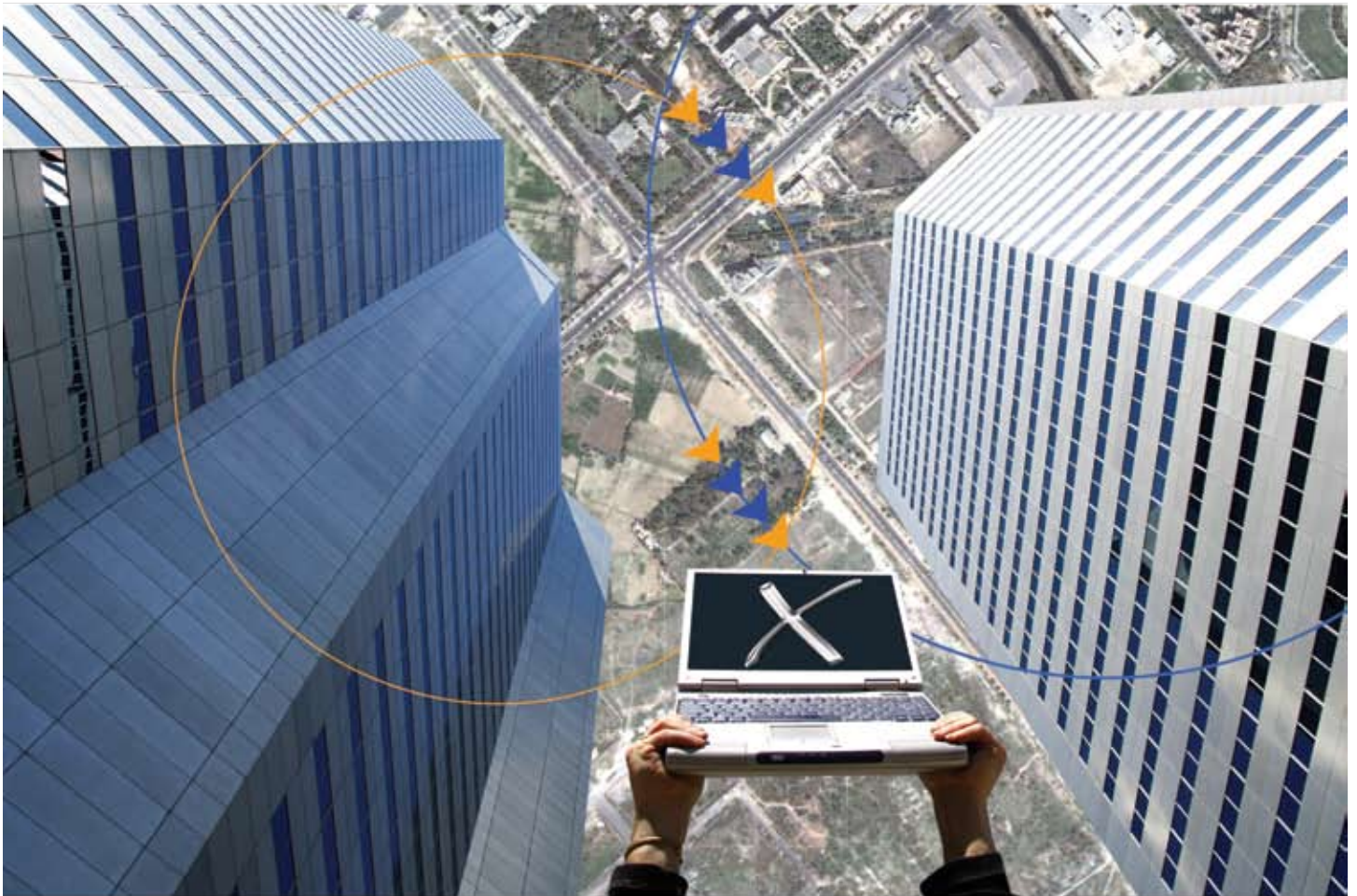


Geomatica[®] X

The Next Generation of Image-Centric Solutions



www.pcigeomatics.com

Profile

Founded in 1982, PCI Geomatics is a leading developer of image-centric software for the geospatial industry. We are a Canadian corporation with an international focus: our products and solutions are sold in over 100 countries. Our expertise in remote sensing, spatial analysis, digital photogrammetry, and cartography is founded in over 20 years of producing technology that turns images into information. Image is everything – the **everything** made possible by PCI Geomatics.



Applications

Enterprises and agencies of all scales are using imagery to answer key questions. Remote sensing is solving problems in many industries natural resources, agriculture, defense and security, state and local government, environmental monitoring and more – through automated image processing and information extraction, and the merging of imagery with other spatial and non-spatial business information.



Why PCI Geomatics?

Facing challenges of time, money, resources, and a growing amount of spatial information, many organizations have found it essential to automate their spatial data management to meet their business goals. Let PCI Geomatics be your geospatial partner – with over 20 years of experience in geospatial industry, we are leading the image-centric revolution.





□ What is Geomatica X?

Geomatica X is the extension of PCI Geomatics' image-centric desktop technology into the world of custom geospatial solutions. Geomatica X provides a flexible development environment for users to build highly automated and customized workflow solutions, such as those used for orthorectification, mosaicking, DEM extraction, or image classification. Each Geomatica X solution is built from a library of flexible components, provided in logical packages called **ProPacks**, which can be used to create custom applications using the PCI Professional Software Development Kit (ProSDK). Our **ProSDK** leverages the Python, C/C++, and Java languages for efficient scripting and graphics interfacing. By automating your image processing workflows, and leveraging the highly scalable architecture of Geomatica X, you will save time and money to remain on the cutting-edge of today's competitive geospatial applications market. Geomatica X image processing is power at a whole new scale: imagine push-button workflows that can be scaled to process terabytes of image-centric data.

■ Advantages of a Geomatica X Solution:

- ▶ **Efficiency:** Less time spent processing data and moving data between systems
- ▶ **Scalability:** Capable of processing Terabytes of image data
- ▶ **Accuracy:** Apply state-of-the-science algorithms for image correction and analysis
- ▶ **Quality:** Consistent production workflows mean fewer errors
- ▶ **Enterprise-ready architecture:** Automated, secure, enterprise-wide data storage and access built on open standards architecture

Production Workflows

A PCI Production Workflow is a logical set of geospatial tasks that can be embedded into your existing processes, operated within an enterprise system, or run on its own as a batch process.

Workflows allow you to maximize your production time by automating repetitive tasks to produce consistent results, gain operating efficiencies, and shorten time to delivery.



Pluggable, Enterprise-Ready Technology

PCI Geomatics provides efficient and effective solutions to integrate imagery into your enterprise. Take advantage of Geomatica X Solutions to create faster, less expensive and accurate spatial information. With our ProPacks you can save countless hours of development time and improve the quality and value of your product - leverage PCI Geomatics' reputation for image-centric excellence to get better results for your business and your customers!

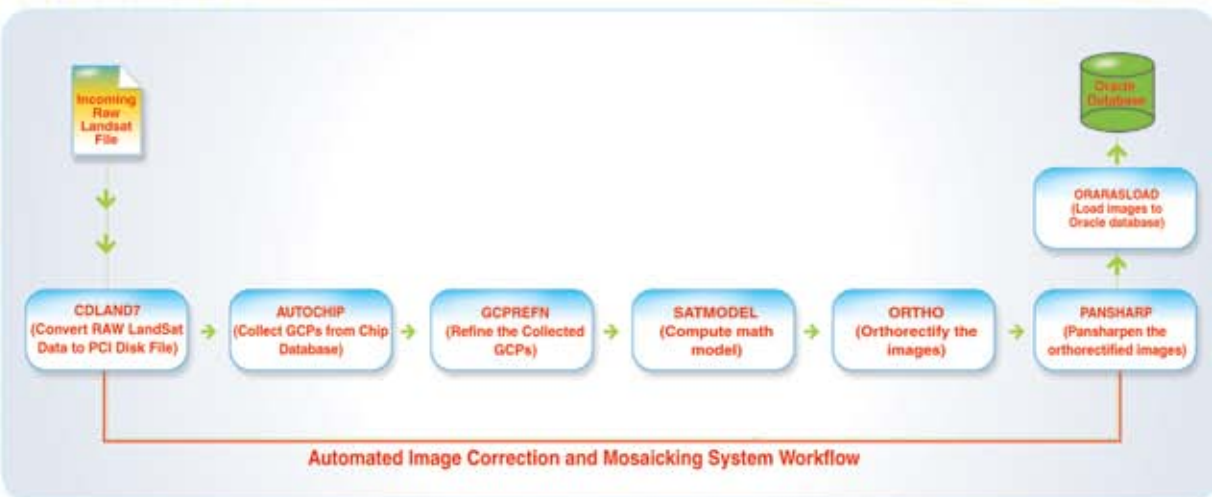
Geomatica ProPacks include:

- Generic DataBase (GDB) engine – translate, read and write over 100 common raster and vector spatial formats. This capability comes bundled with the ProSDK.
- Auto Mosaicking – Create seamless mosaics and automatically match images for a wide variety of sensors
- Auto Collection – speed up your ortho process with automated Tie Point, Ground Control Point collection
- Auto Registration – automated registration of imagery
- Pan Sharpening – create high-definition color composites by combining panchromatic and multispectral images
- Oracle Spatial and GeoRaster – spatial data loading and enterprise-scale management using Oracle 10g Spatial and GeoRaster
- And many more...

Geomatica X - Examples

Some examples of Geomatica X workflows ...

- **Automated Orthorectification and Mosaicking** – Rapid, automated, precision image correction and mosaicking for a wide variety of sensors
- **Automated DEM Extraction** – Fast and accurate elevation extraction, support for many data sources
- **Automated Image Composition** – Fusion of multiple images for detailed spatial and spectral information
- **Semi-Automated Feature Identification & Extraction** – Identify and extract all types of human-made and natural features from imagery
- **Map Production** – Share your information with professional quality map products
- **Data Interchange** – Use Generic Database (GDB) technology to access and translate data from 100+ geospatial data formats
- **Change Monitoring & Surveillance** – Visualize and quantify changes to the earth's surface
- **Automatic Image Classification** – Use imagery to automatically determine land cover types
- **Geomatica Image Management Systems (GIMS)** – Intelligent enterprise geospatial data management based on Oracle technology
- **Web Services and Delivery** – Share your work with your enterprise, your colleagues, or the world
- **The possibilities are endless ...**





Geomatica Solutions Products

PCI Geomatics has a growing number of branded solutions products available for immediate deployment, designed to support enterprise-scale operations and processing of spatial data.

GeoRaster ETL for Oracle

GeoRaster ETL is an Extract, Transform and Load tool for populating Oracle 10g Spatial GeoRaster enterprise databases. Take advantage of GeoRaster – a powerful feature of Oracle Spatial that lets you store, index, query, analyze, and deliver image and gridded raster data, and associated metadata.



Key Features:

- ▶ Extract, Transform, Load (ETL) and Modeling tool for populating Oracle 10g Spatial GeoRaster databases
- ▶ Data ingest support for over 100 raster and vector formats
- ▶ Command-line and scripting environment enable the Raster Loader to be integrated into production workflows, and used within batch-process scheduling systems
- ▶ Includes an intuitive workflow-building environment for flexible, customized transformation workflows
- ▶ Powerful metadata mapping wizard

WebServer Suite

PCI Geomatics has brought together three standard geospatial data services – Web Coverage Service (WCS), Web Feature Service (WFS) and Web Map Service (WMS) – to form a unified WebServer Suite.

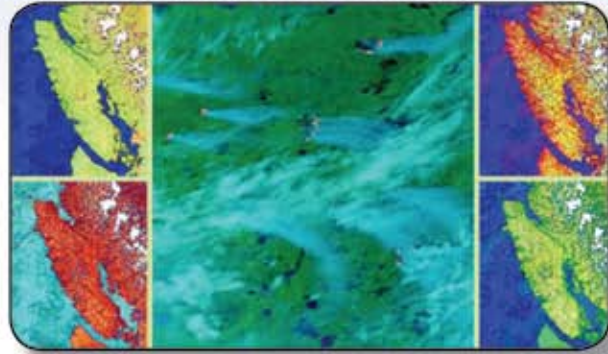
WebServer Suite makes it easy to distribute geospatial data more efficiently and provides a number of innovative technologies not previously available via web services. These include:



- Exclusive Generic DataBase (GDB) technology, allowing seamless access to over 100 geospatial data formats
- Easy access to large amounts of geospatial data stored in databases such as Oracle Spatial, ArcSDE, and CubeStor
- Use of current Open Geospatial Consortium (OGC) standards for interoperability in data visualization and analysis

GeoComp

GeoComp is PCI Geomatics' automated production system for geocoding and compositing imagery. GeoComp generates fast precision geocoded scenes and cloud-free composites of both single scenes and full passes of AVHRR data in a variety of formats.



Whether for compositing or geocoding, GeoComp is intended to address the requirements of a range of users from ground-station operators, forest fire management agencies, crop forecasting and assessment agencies, crop insurance companies, forestry industries, global change researchers, national- and provincial-scale government environmental agencies, and many more.

GeoComp is an example of what a Geomatica X solution can be – an automated, powerful data-processing system, driven by customer requirements and built by PCI Geomatics.

"The Manitoba Remote Sensing Centre (MRSC) has been involved in processing NOAA data for more than a decade. This expertise contributed to the design and development of the current PCI Geomatics based GeoComp system. The result is an extremely user friendly and efficient geocoding and compositing system."

Patricia Hurlburt, GeoComp Program Manager,
Manitoba Remote Sensing Centre

Professional Services

How is a Geomatica X solution built? The PCI Geomatics Professional Services team brings image-centric projects to life by working alongside the customer to develop a cost-effective solution.

With their extensive geospatial software development expertise, our solutions architects will develop a project proposal, showing the scope of work, time lines, risks, and assumptions required for your project to come to fruition. Solution proposals often include a blend of the customer's existing systems, value-adding PCI workflows, and complementary third party technologies. Professional Services engineers are comfortable taking a lead development role, or consulting to the customer's own development team.

Their approach is consultative, thorough, and – above all – focused on ensuring a high return on your investment.



Contact Us

To find out more about Geomatica X solutions, or to discuss your potential project requirements, contact PCI Geomatics today.



PCI Geomatics Enterprises Inc.

50 West Wilmot Street

Richmond Hill, Ontario

Canada, L4B 1M5

Phone: (905) 764-0614

Fax: (905) 764-9604

Email: info@pcigeomatics.com

Web: www.pcigeomatics.com

Distributed By:
.....

Notes:
.....



© 2006 PCI Geomatics Enterprises Inc.®. All rights reserved.

PCI, PCI Geomatics, PCI and design (logo), and Geomatica are registered trademarks of PCI Geomatics Enterprises, Inc.

All other trademarks and registered trademarks are the property of their respective owners.

The information in this document is subject to change without notice and should not be construed as a commitment by PCI Geomatics. PCI Geomatics assumes no responsibility for any errors that may appear in this document.