UC297 – iVault for ArcGIS Streamlines Government Services in Canada’s North

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Developed by Pacific Alliance Technologies
A member of StarDyne Technologies
www.pat.ca ivault.pat.ca
Agenda

- Who is Pacific Alliance Technologies
- How we help the City of Whitehorse
- Features of iVAULT for ArcGIS Server
Pacific Alliance Technologies

- Based in Vancouver Canada; Autodesk Reseller
- A market leader in CAD, GIS, web development and spatial data management
- We specialize in the customization and implementation of customer-driven software solutions
- Developing iVAULT web GIS application since late 90's
- iVAULT fully integrates to Finance, Permitting and Asset Management systems of StarDyne
- StarDyne ranks in the Top 25 Software Companies in Canada: Canada's Highest-Performing Tech Companies
A Sample of our Clients...

We provide services to the following industries:

- Municipal
- Space Management
- Geomatics
- Telecommunication
- Oil and Gas
- Utilities
- Airports
- Engineering
- Multiple implementations of iVAULT worldwide
The City of Whitehorse - The Challenge!

- Came to Pacific Alliance in 2009 with a very common yet complex problem
- Help us streamline our operations
- Centrally focus our systems around GIS technology
- Integrate Document Management, Finance, Asset Management and GIS applications into "one common platform"
- Introduce structure, standards and best practices
- Provide training and ongoing support
G.I.S. Supports Municipal Government Services:

- Economic Development
- Planning & Development
- Permits & Licenses
- Cemetery Services
- Parks & Greenspaces
- Infrastructure & Asset Management
- Electrical, Water, Sewer Utilities
- Transportation
- Garbage & Recycling
- Emergency Management & Public Safety
- Local Business & Tourism
- Social Services & Community Events
- Tax Collection
- Real Estate
- School Zones
- Snow Removal
Our Goal!

1. Increase Employee Satisfaction/Engagement
2. Increase Constituent Engagement
3. Increase Productivity
4. Improve Revenues
5. Reducing Costs
6. Reduce Risk
iVAULT Architecture

Application Level Integration:
- WorkTech
- Cartograph
- CityView
- Diamond
- Vadim
- Tempest
- Bellamy
- CAMAlot
- others...

Database Level Integration:
- Spatial Data
- Non Spatial Database(s)

Existing Systems

iVAULT

iVAULT Web Module and iVAULT Edit Module:
Integrated Suite of Spatial and Non Spatial Functionality

Map Publishing Engine
(ArcGIS Server, Silverlight API, Autodesk MapGuide Open Source or AIMS, Google Maps)

iVAULT Administration & Integration Modules

Admin Database

Desktop CAD or GIS Systems for Spatial Data Management
What is iVAULT?

Web GIS application consisting of:

- Web Module
- Administrator Module
- Edit Module
- Analytics Module
- Multiple Integration Modules
  - Diamond
  - WorkTech
  - Tempest
  - Vadim
iVAULT Administrator Module

http://sales.pat.ca/ivault_arcgis_admin/
iVAULT Web Module

- One license can result in Internal, Consultant or Public Site
- Windows Authentication
- Easy to use & collapsible Interface
- Easy to Navigate, Select and interact with spatial and non spatial data
- Supports Multiple Maps
- Full Online help and documentation
- Works in all browsers
- Hosting services provided by PAT

Interface has been divided in to the following Four Key Areas:
1-Search
2-Results
3-Tools
4-Legend
Pre Configured Search Menu

The Search menu presents the user with:

- preconfigured searches setup in the administrator
- searches can be nested and grouped by theme
- and assigned to one or many roles
- searches can be setup on point, line or polygon layers
- searches can also be setup on non spatial data linked directly to others systems ie finance, asset mgmnt
- Administrators can preconfigure the search controls to filter data allowing for faster results

Control types include:
- Select Menu
- ComboBox
- Text Box
- AutoComplete
- Password
Interactive Results Panel

The Results Panel presents the user with:

- database attributes for the selected map feature
- sub reports for data stored in other systems for the selected map feature
- Edit data within the web GIS application
- access to database attributes is granted based on the type of role
- Data can be outputted to:
  - Table Grid
  - CSV file
  - Detailed Report
  - Custom Report
- existing systems and existing reports can be linked to a map feature
Dynamic Map Legend and Layers

The Legend Tab presents the user with:

- A selectable folder tree of map layers coming from many maps
- The legend and the layer list are combined into one interface
- Map layers are themed at desktop level and synchronized using iVAULT Administrator
- Many map services can be displayed including internal maps, ESRI community maps or free maps posted online
- Access to maps and layers is granted based on the type of role
- Base Maps are available free in the ArcGIS version providing an appealing base
- Quick Maps can be configured in the Administrator to allow for quick access to standard data for each role
The Tools Menu presents the user with:

- A menu driven interface with standard tools for data reporting and analysis
- This scalable framework allows for custom developed tools to be integrated into the application with ease
- iVAULT comes with the following tools:
  1. Buffer
  2. Measure
  3. Print
  4. Draw (redline)
  5. Theme Builder
  6. Query Builder
The Measure Tool allows users to:

- Conduct measurements on the fly to see the length and area of a map feature
- Select map features to measure the length and area
- Switch between metric or imperial units of measurement
The Print Map tool allows you to output your own maps on the fly or select predefined map templates.
The Drawing Tool allows users to:

- markup the map with points, lines, polygons, text, etc.
- theme and stylize the map markups
- save and share the map markups back to your role or all roles across the enterprise.
The Theme Builder Tool allows the user to:

- Thematic map database values either stored directly in the spatial data or coming from any non-spatial database
- Set the distribution/classification type - Individual, Equal Area, Jenks etc
- Set the transparency and colour of all classes
- Save and share the map markups back to your role or all roles across the enterprise
The Query Builder Tool allows the user to:

- Create, Validate and Execute detailed SQL queries against database values stored inside the spatial data OR database values coming from external databases.
- Conduct on the fly analysis.
Social Media Integration

- Integrate directly to Social Media feeds from
  - Twitter
  - Flickr
  - YouTube
- Upload content from your mobile device
- Wildlife sightings, community events, condition of assets
iVAULT Diamond allows for embedded data views into the Diamond (a sister company to PAT) property databases for use by iVAULT. This allows iVAULT to perform look-up and display of relevant property tax, work management data and general property data that is stored within the Diamond property tax system without any duplication of effort.

Throughout the Diamond application, "push pin" icons are available wherever property information is stored such as the tax console (see screen shot below), permit inquiry, general inquiry windows and more. On "one click" selection of the push pin, the Diamond application launches the iVAULT viewer at the URL resource identified and drills to the specific property and parcel on the map for quick identification and search.

For more information about Diamond:
http://www.diamondmunicipal.com/

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[Contact Information]

Hash, Ryan
20 Evergreen Road
Crystal Springs, AB 780 205

RJHOMES
Re: Resolving Request

Dear Hash, Ryan:


iVAULT WorkTech

WorkTech and PAT are both members of the StarDyne Group of companies. The iVAULT WorkTech integration views, reports and edits from data sources without translation. The integration contains the following functionality:

- Ability to zoom to any GIS record or multiple records from WorkTech, based on Layer Record ID, e.g. assets, work orders
- Ability to display asset information in iVAULT where some data comes from WorkTech (e.g. asset construction year)
- Open a WorkTech electronic Work Order form from iVAULT
- Access the Work Order browse list from iVAULT
- Access the Work Order browse list from iVAULT only showing work orders for one customer (property owner).
- Open a WorkTech electronic Asset form from iVAULT
- Add Work Order from iVAULT – iVAULT will know the Work Order series based on the layer
- GIS Snapshot in Work Order report with the location of the Work Order
- In electronic Work Order display the Work Order location by passing the street address from the Work Order to iVAULT

For more information about WorkTech: www.worktech.ca
iVAULT Benefits a Variety of Users

Internal users have full access to data coming from integrated systems across the enterprise.
iVAULT Streamlines Government Services for the City of Whitehorse, Yukon

iVAULT facilitates integration with:

- ESRI ArcGIS 10.1
- WorkTech Asset Management System
- Great Plains Diamond Financials
- Permitting
- Tourism
- Wildlife
Learn more about iVAULT...

Webinars

Learn more about iVAULT and how it can help your company to improve decision-making process integrating data to the map.

Can't attend? Please, contact us events@pat.ca and we can schedule a date that works better for you!

Register for an Upcoming Webinar.

View a recorded Webinar or request another webinar

Upcoming Webinars

Put your Enterprise Data Into a Map using iVAULT Municipalities

Free Webinar: Nov 10 @ 10:00 AM PST with Jeff Lamb

http://ivault.pat.ca/webinars
Contact us for a personal demo...

Contact Us:
Head Office 604.676.6000
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