

This image displays a collection of approximately 25 small, overlapping thumbnail images of various presentations, arranged in a scattered pattern on a dark background. The thumbnails represent different types of content, including:

- Maps and geographical data visualizations.
- Charts and graphs, such as bar charts and pie charts.
- Text-heavy slides with bullet points and headings.
- Diagrams and flowcharts.
- Complex data dashboards and reports.
- Images of people or groups.
- Logos and branding elements.

The thumbnails are arranged in a way that suggests a large, multi-page presentation or a gallery of various content types. The overall layout is non-linear and somewhat chaotic, typical of a collection of individual slides or reports.

UC297 – iVault for ArcGIS Streamlines Government Services in Canadas North

Jeff Lamb
Account Manager
jl@pat.ca

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

Industry Profile



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 in to "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

- WorkTech
- Cartegraph
- CityView
- Diamond
- Vadim
- Tempest
- Bellamy
- CAMAlot
- others...

Application Level Integration

Database Level Integration

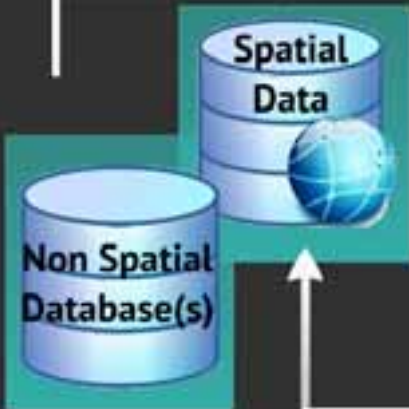
iVAULT Web Module and iVAULT Edit Module:



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



Existing Systems

iVAULT

iVAULT Architecture

- WorkTech
- Cartegraph
- CityView
- Diamond
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- others...

Application Level Integration

Database Level Integration

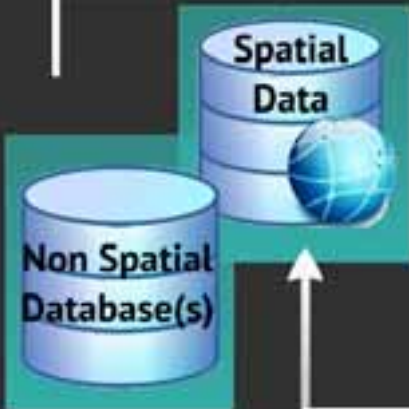
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iVAULT Administration & Integration Modules



Existing Systems

iVAULT

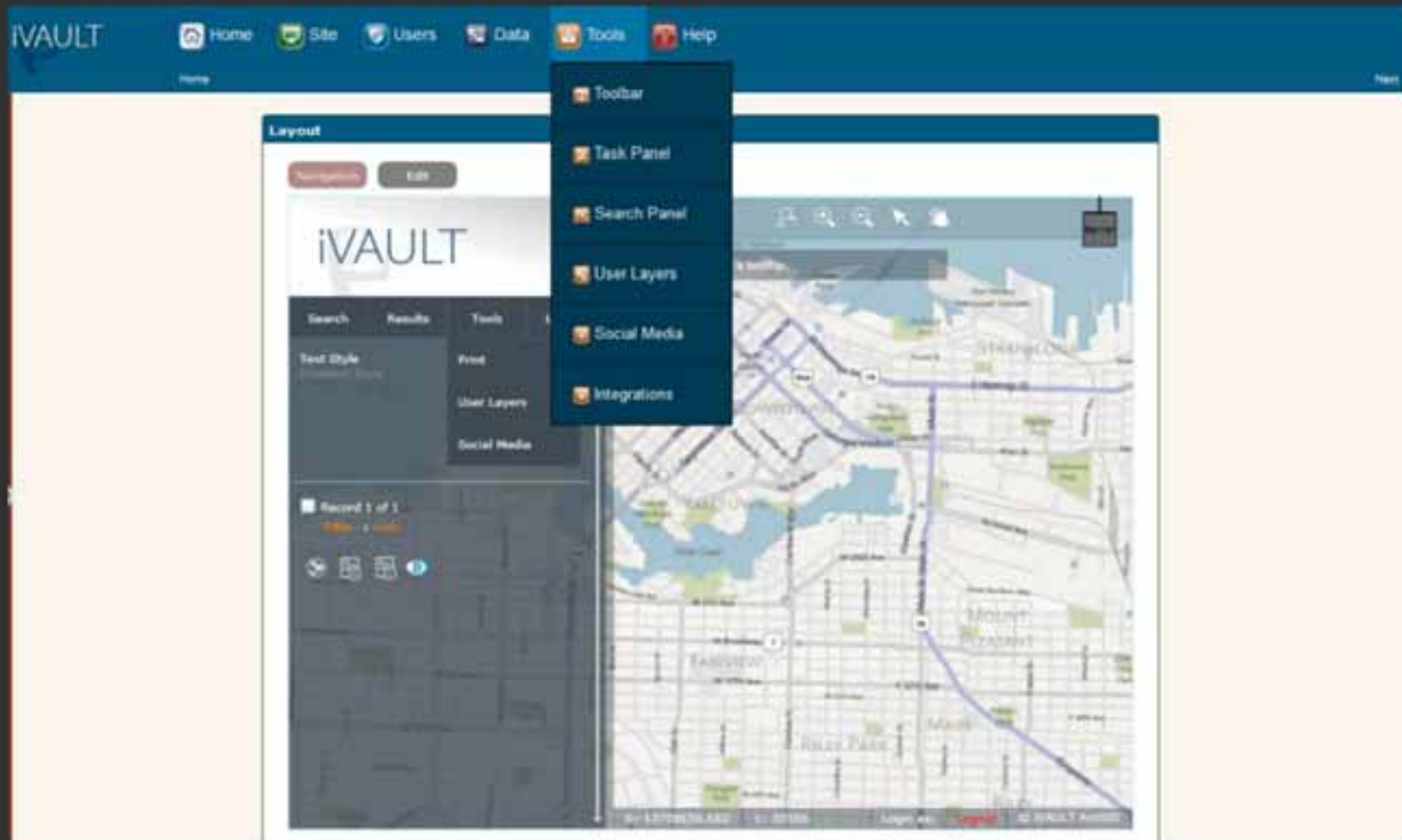
What is iVAULT?

Transferring data from 190.168.167.27...

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

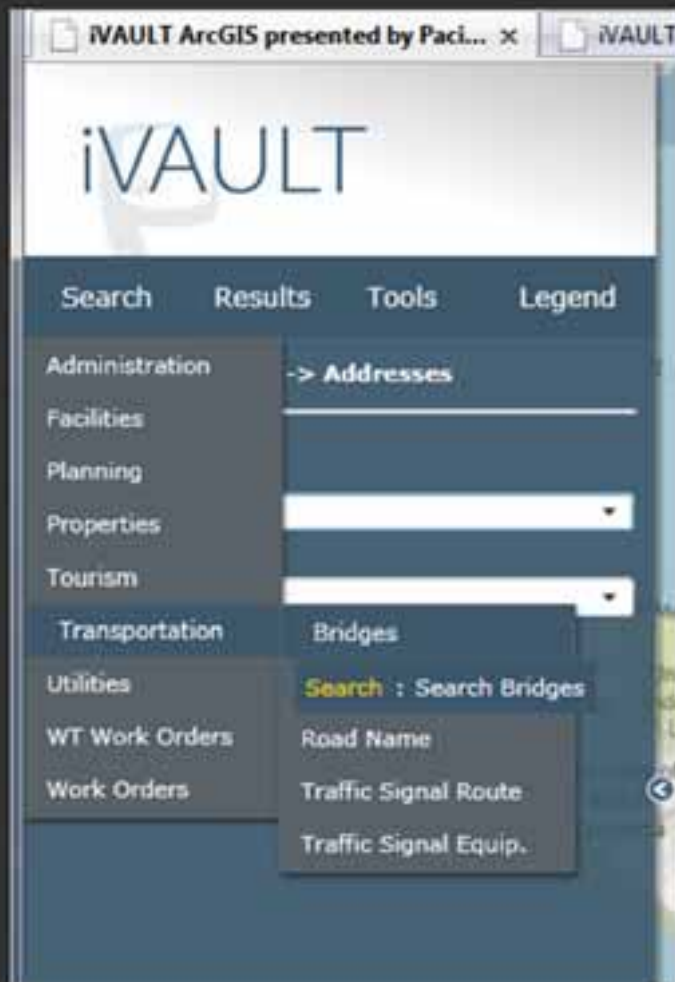
The screenshot displays the iVAULT web interface. On the left is a dark sidebar with the 'iVAULT' logo and navigation tabs for 'Search', 'Results', 'Tools', and 'Legend'. Below these are map controls: 'Base Map' set to 'Bing Roads' and 'Quick Map' set to 'Default'. A legend panel lists various data layers with checkboxes, including 'Countries', 'States', 'Facilities', 'Planning', 'Property', 'Addresses', 'Casefiles', 'Legal Lot Numbers', 'Block Outlines', 'Parcel Polygons', 'ICIS_GIS', 'Tourism', 'Transportation', 'WebCameras', 'Intersections', 'RoadUnderConstruction', 'Skytrain Stations', 'Street Segments', and 'Skytrain Line'. The main map area shows a street grid with several colored overlays: a purple line for 'Granville St', a green line for 'W Broadway', and a yellow line for 'W 6TH AVE'. A scale bar and coordinate information are visible at the bottom of the map. In the bottom right corner, there is a 'Login as: Public' link and a copyright notice: '© iVAULT ArcGIS 4.4.0.16409'. A semi-transparent text box on the right side of the map contains a list of features and key areas.

- 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

A screenshot of a search form titled "Search: Administration -> Postal Codes". The form contains three sections: "STATE" with a dropdown menu showing "AB", "NAME" with a dropdown menu showing "Banff", and "POSTAL" with a dropdown menu showing "All Postals". Below the "POSTAL" dropdown, there are two text input fields: "All Postals" and "T1L". A "Search" button is located at the bottom right of the form.

Interactive Results Panel

iVAULT

Search Results Tools Legend

Report: Finance Parcels

Selected: Finance Parcels

OwnerAssessment

Record 1 of 8


GIS_ID	25351
Parcel No.	1020
Legal Desc.	NE 22 103 6 S
Zoning	R2
Suite	
House	1020
Street	Chilco St.
Subdivision	West End

Record 2 of 8

GIS_ID	25352
Parcel No.	1021
Legal Desc.	NE 22 103 7 S
Zoning	R2
Suite	
House	1030
Street	Chilco St.
Subdivision	West End

X: -13708215.6382938, Y: 6334293.58 S: 1624

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

tp uttted to

Parcel ID	Parcel Number	Legal Description	Zoning	Area	House	Street	Subdivision	Area
25051	3000	NE 22 300 4 5	R2	1220	2540	Chilco St.	West End	
25052	3001	NE 22 300 7 5	R2	1220	2540	Chilco St.	West End	
25053	3002	NE 22 300 4 5	R2	1220	2540	Corona St.	West End	
25054	3003	NE 20 300 4 5	R2	1220	2540	Corona St.	West End	
25055	1200	NE 20 300 1 5	C1	1220	2540	Corona St.	West End	
25056	1201	NE 20 300 2 5	C1	1240	2540	Corona St.	West End	
25057	1202	NE 20 300 3 5	C1	1220	2540	Corona St.	West End	
25058	1203	NE 20 300 1 5	C1	1220	2540	Corona St.	West End	



Finance Parcels (Read Only) - Microsoft Excel

Parcel ID	ParcelNumber	LegalDescription	Zoning	Area	House	Street	SubDivision
25051	3000	NE 22 300 4 5	R2	1220	2540	Chilco St.	West End
25052	3001	NE 22 300 7 5	R2	1220	2540	Chilco St.	West End
25053	3002	NE 22 300 4 5	R2	1220	2540	Corona St.	West End
25054	3003	NE 20 300 4 5	R2	1220	2540	Corona St.	West End
25055	1200	NE 20 300 1 5	C1	1220	2540	Corona St.	West End
25056	1201	NE 20 300 2 5	C1	1240	2540	Corona St.	West End
25057	1202	NE 20 300 3 5	C1	1220	2540	Corona St.	West End
25058	1203	NE 20 300 1 5	C1	1220	2540	Corona St.	West End

Parcel Inquiry & Maintenance

Parcel Number: 3000
Client Code: 0000000000
Parcel Name: NE 22 300 4 5
Parcel Area: 1220
Parcel Type: R2
Parcel Status: Active

Parcel Number	Client Code	Parcel Name	Parcel Area	Parcel Type	Parcel Status
3000	0000000000	NE 22 300 4 5	1220	R2	Active
3001	0000000000	NE 22 300 7 5	1220	R2	Active
3002	0000000000	NE 22 300 4 5	1220	R2	Active
3003	0000000000	NE 20 300 4 5	1220	R2	Active
1200	0000000000	NE 20 300 1 5	1220	C1	Active
1201	0000000000	NE 20 300 2 5	1240	C1	Active
1202	0000000000	NE 20 300 3 5	1220	C1	Active
1203	0000000000	NE 20 300 1 5	1220	C1	Active

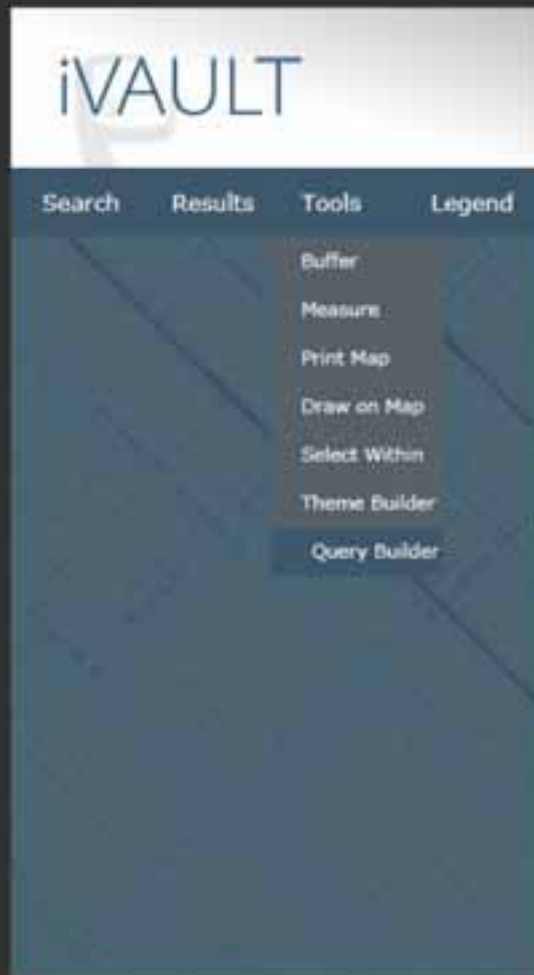
Dynamic Map Legend and Layers



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 in to 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

Tools Menu



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 in to 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

Buffer Tool for Mail Merge

iVAULT

Search Results Tools Legend

Support: **Mailing Labels** : Generate mailing labels for the selected record(s) in Microsoft Word format (be sure to first enable Resident and/or Owner and click OK on the Mailing Label pop-up menu that appears when you click the Mailout icon)

Select File

Record 1

GIS_ID	25351
Parcel No.	1020
Legal Desc.	NE 22 103 6 5
Zoning	R2
Suite	
House	1020
Street	Chilco St.
Subdivision	West End

Record 2 of 10

GIS_ID	25353
Parcel No.	1021
Legal Desc.	NE 22 103 7 5
Zoning	R2
Suite	
House	1030
Street	Chilco St.
Subdivision	West End

Transferring data from staging3.pat.ca...

Opening MailingLabels.doc

You have chosen to open

MailingLabels.doc
which is a Microsoft Office Word 97 - 2003 Document
from: http://staging3.pat.ca

What should Firefox do with this file?

Open with Microsoft Office Word (Default)

Save File

Do this automatically for all files of this type

Beach, Alexander 22 Douglas Road, Central Springs, AB, T0A 1A1	Walter, Jack 22 Douglas Road, Central Springs, AB, T0A 1A1
Lewis, Frank 22 Douglas Road, Central Springs, AB, T0A 1A1	Tank, Evan 22 Douglas Road, Central Springs, AB, T0A 1A1
High-Cor, Frank 2001 15 Ave, Central Springs, AB, T0A 1B1	Lusk, Thomas 2001 15 Ave, Central Springs, AB, T0A 1B1
Wesley, Pamela Marie and Christopher 2001 15 Ave, Central Springs, AB, T0A 1B1	Wesley, Christopher 2001 15 Ave, Central Springs, AB, T0A 1B1
Wey, Anthony 2001 15 Ave, Central Springs, AB, T0A 1B1	Wesley, Ben 22 Douglas Road, Central Springs, AB, T0A 1A1

Log in as: Dvaivornal | Logout | C:\iVAULT ArcGIS 4.3.0-16408 | Fiddler: Disabled

Measure Tool

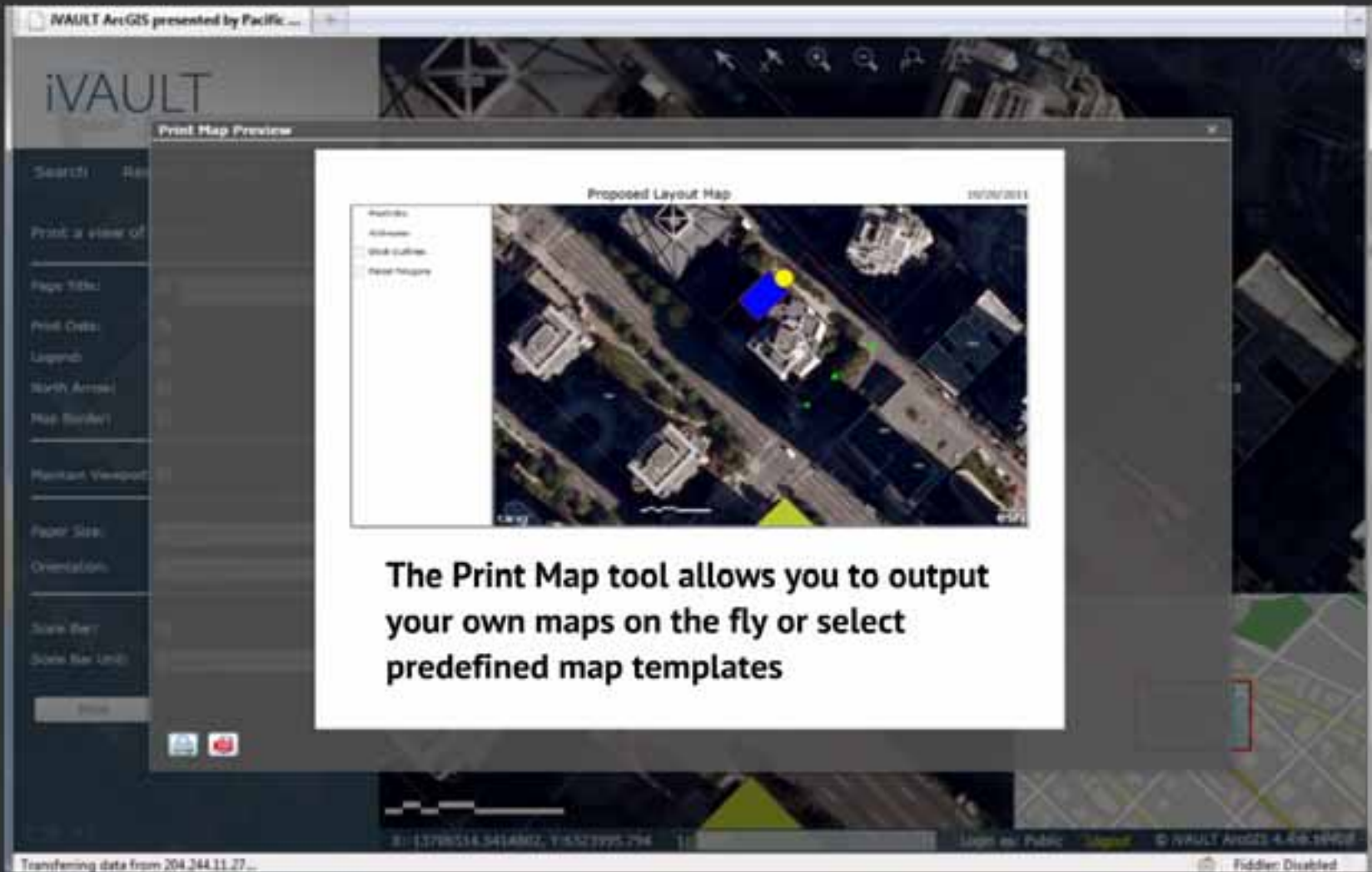
The screenshot displays the iVAULT Measure Tool interface. On the left is a dark blue sidebar with the iVAULT logo at the top. Below the logo are tabs for 'Search', 'Results', 'Tools', and 'Legend'. The 'Measure Tool' section is active, showing four options: 'Measure Length', 'Measure Area', 'Combined', and 'Measure Feature', each with a radio button. A 'Stop Measuring' button is located below these options. At the bottom of the sidebar, there are settings for 'System' (Metric selected, Imperial unselected) and 'Length Unit' (meters selected). The main map area shows a street grid with a blue polygon measuring a triangular area bounded by Pacific Blvd, Davie St, and Drake St. A red line indicates the current measurement path. A tooltip above the polygon says 'Please double click to finish measure'. A scale bar at the bottom of the map indicates 117 Meters. At the bottom right of the map, there is a text box with the following text:

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

At the very bottom of the interface, there is a status bar with coordinates (X: 13705720.153886, Y: 632), a scale of 1: 4517, a 'Login as: Public' link, a 'Logout' link, and a copyright notice for iVAULT ArcGIS 4.4.0.1640.

Print Map



The screenshot shows the iVAULT web application interface. A 'Print Map Preview' window is open, displaying a 'Proposed Layout Map' for the date 10/26/2011. The map shows an aerial view of a city block with a blue rectangular area and a yellow circular marker. A legend on the left lists 'Aesthetics', 'Address', 'Walk Outline', and 'Road Network'. Below the map, a text box contains the following text:

The Print Map tool allows you to output your own maps on the fly or select predefined map templates

The background shows the main iVAULT interface with a search bar, a sidebar menu, and a map view. The status bar at the bottom indicates 'Transferring data from 204.244.11.27...' and 'Fiddler: Disabled'.

Drawing Tool (Redlining)

The screenshot displays the iVAULT web application interface. On the left, the 'iVAULT' logo is at the top, followed by navigation tabs for 'Search', 'Results', 'Tools', and 'Legend'. Below these is a drawing tool panel with a color picker (hex #EEFF00) and a list of drawing tools: Point, Polyline, Freehand, Arrow, Circle, Callout, Polygon, Rectangle, Text, Triangle, and Ellipse. The panel also includes settings for 'Opacity (100%)', 'Fill color' (yellow), 'Border color' (red), and 'Line Thickness' (2). 'Draw', 'Undo', and 'Clean' buttons are at the bottom of the panel. The main map area shows a street grid with 'W Georgia St' and 'Jervis St' labeled. A blue rectangle, a yellow circle, and a red line are drawn on the map. A scale bar indicates 25 meters. An inset map in the bottom right shows the current view's location within a larger geographic context. The bottom status bar shows coordinates (X: 13706404.8341099, Y: 6322977.077), zoom level (z: 11.05), and user information (Login as: Public, Logout). Copyright information for iVAULT Assoc 4.4.0.16408 and 'Fiddler Disabled' are also present.

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

Theme Builder

The Theme Builder Tool allows the user to:

- Thematically 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

Configuration Panel (Left):

Theme Target: Layer
Target Layer: zoning
Theme Name: Zoning

Property: ZONE
Distribution: Individual
Min Scale: 0
Max Scale: 0

From Color: [Yellow]
To Color: [Blue]
Border Color: [Black]
Opacity (66%): [Slider]
Number of Rules: 1
Polygon Style: Solid

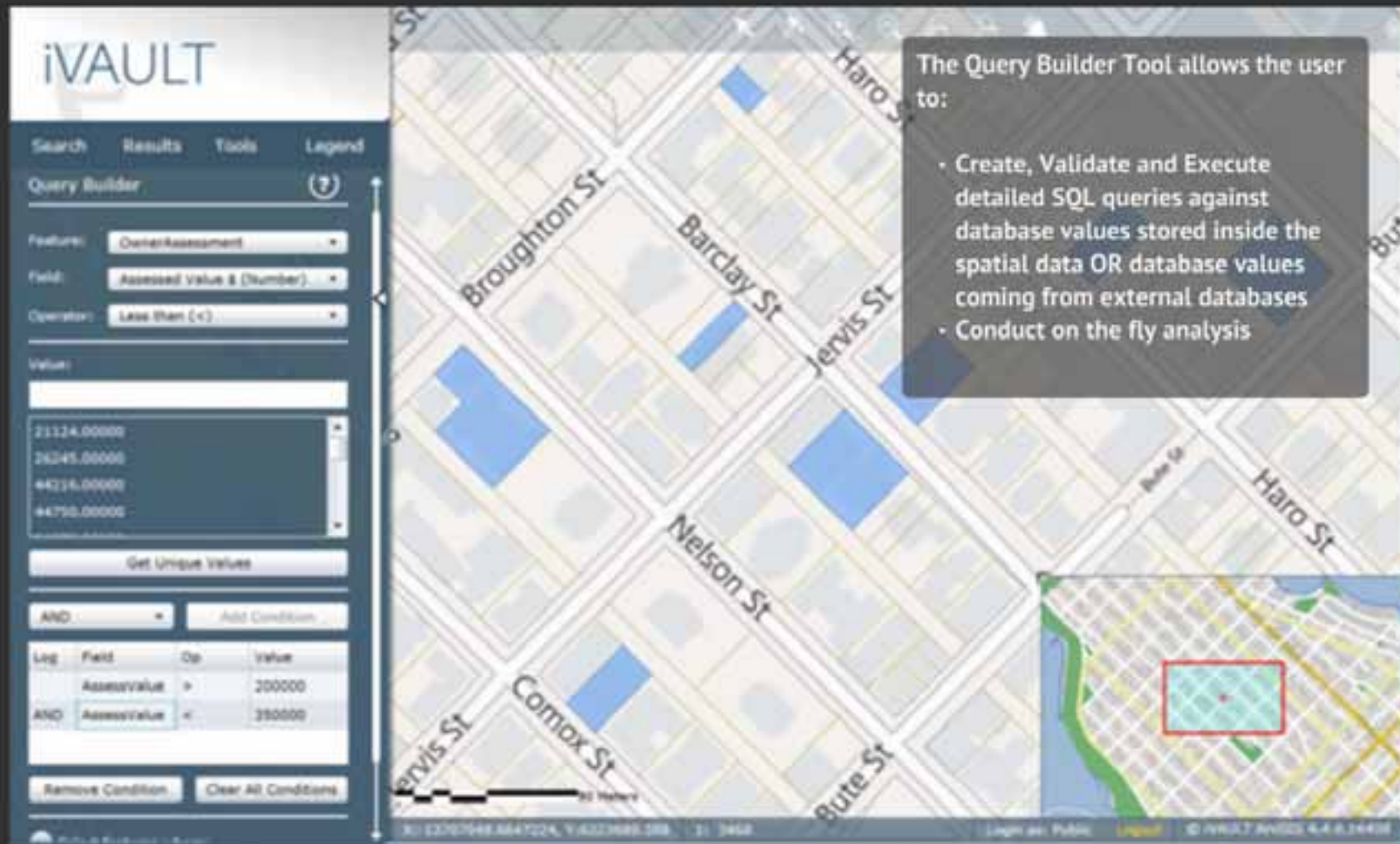
Symbol	Value	Label
[Blue]	CD-1 (129)	CD-1 (129)
[Blue]	RM-1N	RM-1N
[Blue]	RT-10N	RT-10N
[Blue]	CD-1 (4)	CD-1 (4)

Map Labels: WEST END, VALETOWN, NORTH BAY, W 8TH AVE

Scale: 1:55400, 437 Meters

Footer: X: -13704708.9148136, Y: 6326441.118, Login as: Public, © iVAULT ArcGIS 4.4.0.16408

Query Builder



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

The screenshot shows the iVAULT interface with the Query Builder panel on the left. The panel includes a search bar, a legend, and a query builder section. The query builder section has the following settings:

- Feature: OwnerAssessment
- Field: Assessed value \$ (Number)
- Operator: Less than (<)
- Value: 200000

The query builder panel also includes a table of conditions:

Log	Field	Op	Value
	AssessValue	>	200000
AND	AssessValue	<	350000

The map shows a street grid with several buildings highlighted in blue. The streets shown include Broughton St, Barclay St, Jervis St, Nelson St, Comox St, Bute St, and Haro St. An inset map in the bottom right corner shows a larger view of the area with a red box indicating the current view area.

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

The screenshot shows the iVAULT Diamond application interface. The top left panel contains a search bar, navigation tools, and a report dropdown set to 'ParcelsDemo'. The main area displays a map with a blue highlighted parcel. An inset window titled 'Tax Roll Maintenance' shows detailed property information for parcel 1105.

School Support Declaration			
Current Year	Declared as Shown		
Public	0.00%	Separate	100.00%
Undeclared	0.00%		
Next Year	Declared as Shown		
Public	0.00%	Separate	100.00%
Undeclared	0.00%		

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/>



Hoeh, Ryan
20 Evergreen Road
Crystal Springs, AL 35824

8/16/2011

Re: Remittance Request

Dear Hoeh, Ryan:

iVAULT WorkTech

The screenshot displays the iVAULT WorkTech interface. At the top, there is a menu bar with options like 'File', 'Edit', 'View', 'Tools', 'Reports', 'Window', and 'Help'. Below the menu is a toolbar with buttons for 'All Assets', 'Bridge', 'Facilities', 'Materials', 'T Assets', 'T Facilities', 'Modeling', and 'Inspections'. The main area is divided into two panes. The left pane shows a table of assets with columns for 'Asset ID', 'Layer Name', 'Serial No.', 'Asset', 'Description', 'Est. Amt', and 'Service City'. The right pane shows a map view with a purple circle highlighting a specific location. A 'Serial Queries' dialog box is also visible, showing a list of queries and their descriptions.

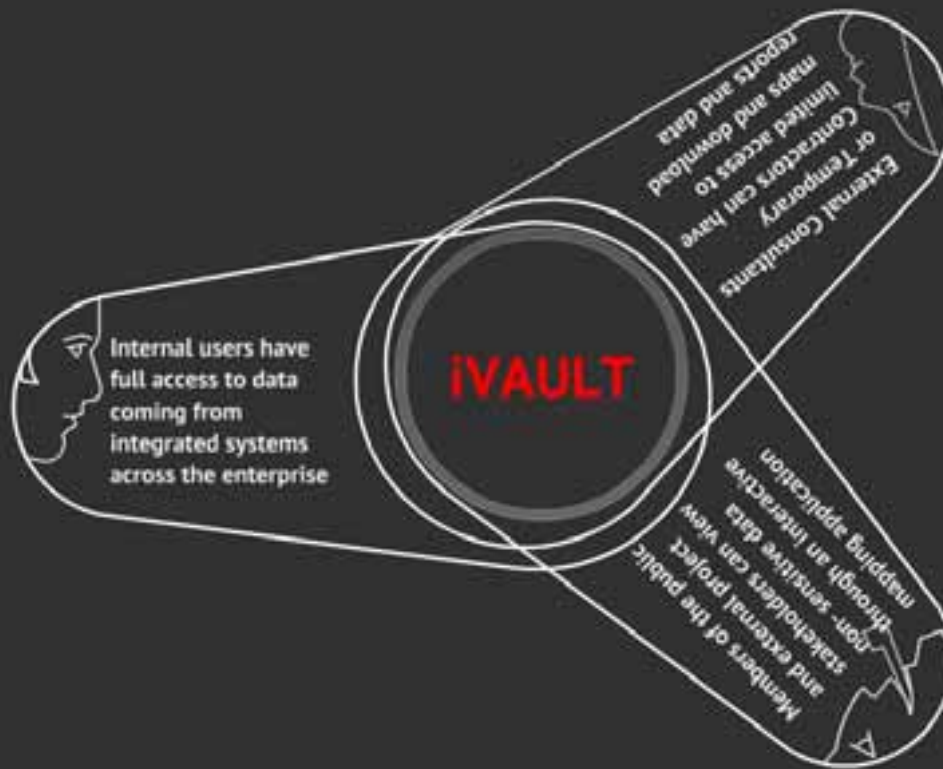
Asset ID	Layer Name	Serial No.	Asset	Description	Est. Amt	Service City
80001	0.0001.17		Leads Drive	Muloua - Toronto's Timeline	184.00	Urgent
80002	0.0001.32		0.03 km South of Bruce	Muloua - Toronto's Timeline	20.95	Urgent
80003	0.0001.21		0.07 km South of Wagon	Dufferin Road 21	87.22	Urgent
80004	0.0001.N/A		0.03 km South of Maple	Muloua - Waterloo's Timeline	84.95	
80005	0.0001.18		County of Dufferin	Sawyer Bridge	134.30	
80006	0.0001.18		County of Dufferin			
80007	0.0001.15		County of Dufferin			
80008	0.0001.15		County of Dufferin			
80009	0.0001.N/A		County of Dufferin			
80010	0.0001.10		County of Dufferin			
80011	0.0001.9		County of Dufferin			
80012	0.0001.7		County of Dufferin			
80013	0.0001.18		County of Dufferin			
80014	0.0001.N/A		County of Dufferin			
80015	0.0001.128		County of Dufferin			
80016	0.0001.N/A		County of Dufferin			
80017	0.0001.N/A		County of Dufferin			

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



als
ing

http://www.esricanada.com/documents/CityofWhitehorse_Reprint_Fall_2011.pdf



Learn more about iVAULT...

The screenshot shows the iVAULT website with a navigation menu at the top containing links for Case Studies, Webinars, Newsletter, and Contact, along with a search bar. Below the navigation is a dark grey menu with categories: Product (Learn about iVAULT), Integrations (Finance & Asset Management), Services (Implementation & Hosting), Industries (Our Clients & Case Studies), and Company (About Pacific Alliance). The main content area features a 'Webinars' section with the following text: '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.', and 'View a recorded Webinar or request another webinar'. To the right of this text is a video player showing a webinar interface. Below the webinar section is an 'Upcoming Webinars' section with the text: 'Put your Enterprise Data into a Map using iVAULT Municipalities' and 'Free Webinar: Nov 10 @ 10:00 AM PST with Jeff Lane'. A red URL <http://ivault.pat.ca/webinars> is overlaid on the bottom right of the screenshot. The browser status bar at the bottom shows 'Done' and 'Fiddler Disabled'.

<http://ivault.pat.ca/webinars>

Contact us for a personal demo...



Contact Us:

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Seattle 206.409.9105

Email: sales@pat.ca

Visit our Websites:

www.pat.ca

ivault.pat.ca

UC297 – iVault for ArcGIS Streamlines Government Services in Canadas North

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Developed by Pacific Alliance Technologies

A member of StarDyne Technologies

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