ROLTA OnPoint™ 10.1

Product Release Notes

November 2016

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Important notice

Product changes

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1. Introduction

Rolta OnPointTM 10.1 is a web-based application that allows you to connect spatial and business system data and then publish it quickly and securely over the Internet. Using OnPoint, you can easily make connections to multiple map providers and business systems, create complex searches and reports and implement multiple languages all by configuration instead of complex programming. In addition to implementing sophisticated functionality, you can also configure the look and feel of your OnPoint web-GIS application as well as data content and access.

Rolta OnPointTM 10.1 solution which provides a web browser based solution that leverages an organization's existing databases and uses OGC compliant map services based services infrastructure and allows zero-programming interfaces for configuring the solution. Rolta OnPointTM 10.1 has been commercially available and under continual development for over 10 years, and has been implemented in more than 100 organizations in more than 10 countries throughout the world.

OnPoint™ supports all the functionalities needed for Enterprise GIS platform:

- Searching and visualizing information;
- Ability to access and display information related to business datasets that may reside on non-spatial databases;
- Generating standardized reports and map products;
- Data editing;
- Integration with linear referencing systems for searching, editing and reporting;
- Configurable user roles with different levels of access to data and tools.

Spatial Data Analytics capabilities

Our solution provides the ability for users to analyze information using spatial data, including the ability to search for features within a user-defined area, locating features within a given proximity to other selected features, visualizing spatial information using administrator or user-defined symbology. Advanced spatial analysis can also be performed by making use of geo-processing services, whereby users can, through a simple user interface, launch a geo-processing task and display the results in OnPoint.

Integration Services – Data Integration

For Enterprise GIS to publish data, it needs to be collected from various disparate systems within an organization as well as from other third party. Rolta OnPointTM 10.1 provides an interface to connect to other RDBMS system like Oracle, SQL, and configure independent database searches along with layer search and nearby search in GIS interface.

Different levels of Visualization / Matured level of Visualization

Rolta OnPointTM 10.1 provides wide and matured range of visualization as per the data types and business needs. The visualization could be as simple as displaying tables or charts on web page from raw data, to showing graphical charts on Map, to Maps with drill functionality.

Maps with analytics – This set of functionality provides simple maps with analytics displayed on top it or in a table as pop-up. This is the most basic form of viewing business data on a map to get insights on business parameters geography or location wise.

Maps with charts – Map data may give more insights about different parameters when they are displayed in the form of charts. Viewing of small charts on the map gives business users immediate comparison of different parameters across the area of interest.

Embeddable maps – Embeddable maps can be integrated on website or dashboard of any BI system. Existing MIS or SAP based website which show different analytics or tables can gain more insights by addition of maps which show associated data.

2. What's new in Rolta OnPoint™ 10.1

Rolta OnPointTM 10.1 has been enhanced with following features.

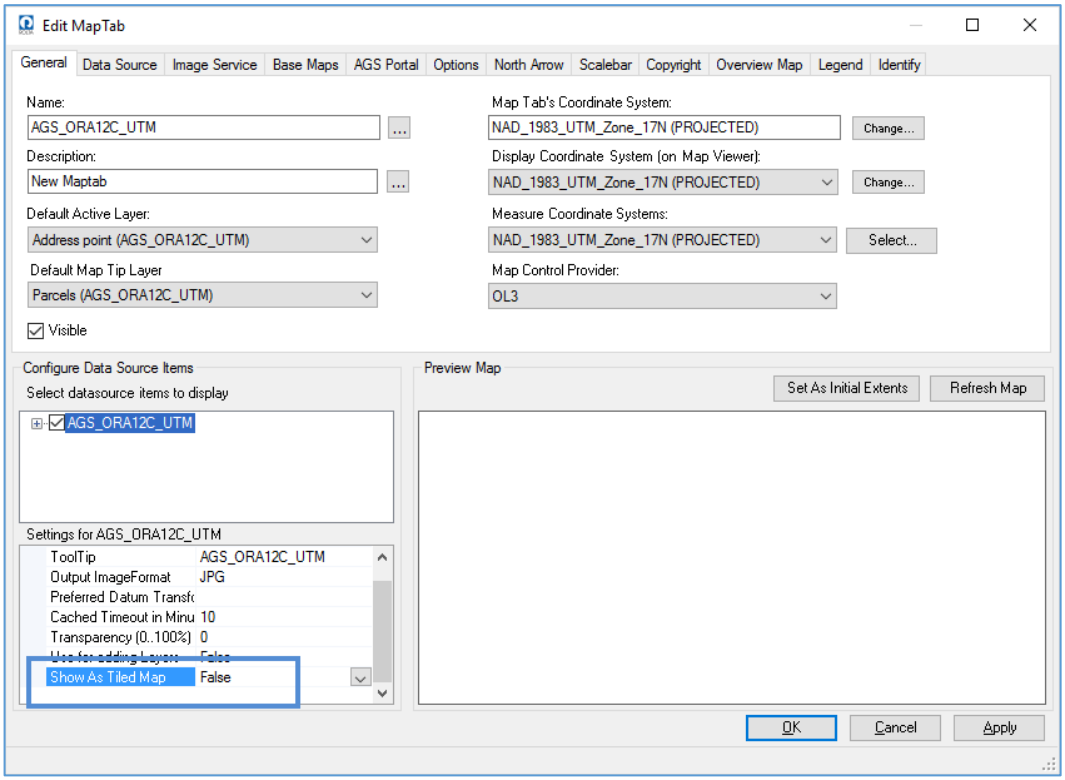
2.1 OGC Support

OGC map provider enables assimilation of OGC services in OnPoint. These services are provided by a variety of servers. It is possible to either implement these services in the local environment or use from a wide range of services from the Internet. OGC Map provider uses two connection types: WMS and WFS. The following functions are enabled for OGC services:

- Selections
- Searches
- Query Builder
- Dynamic filtering
- Selections by point support on layer filter

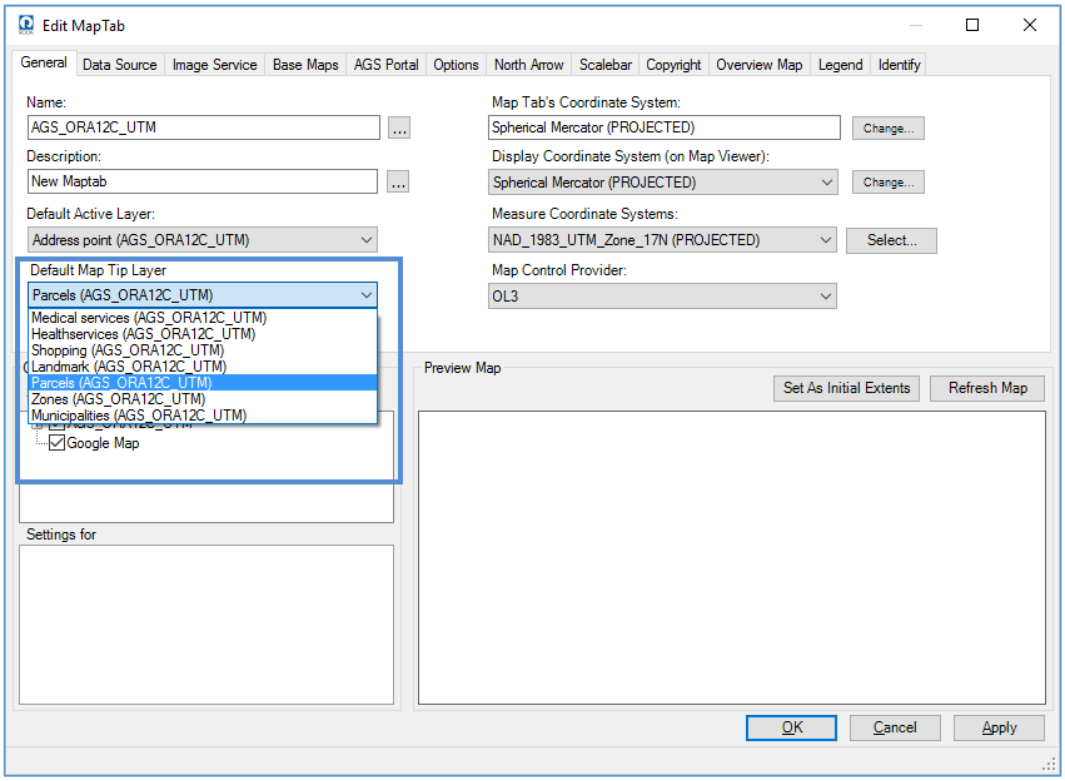
2.2 Dynamic Map Services as Tiled Map

This functionality provides an option to the user to add dynamic maps services as tiled map in OnPoint application. To add the dynamic map services as tiled map services in the OnPoint web application, set Show as Tiled Map as true in the Edit Map Tab dialog box.



2.3 Map Tip Enhancements

A new configuration has been added in OnPoint Administration console to define default map tip layer for a particular map tab. The map tips are displayed on clicking a feature on the map instead of hovering over it, which is the default behaviour. This is an administrator configurable setting.

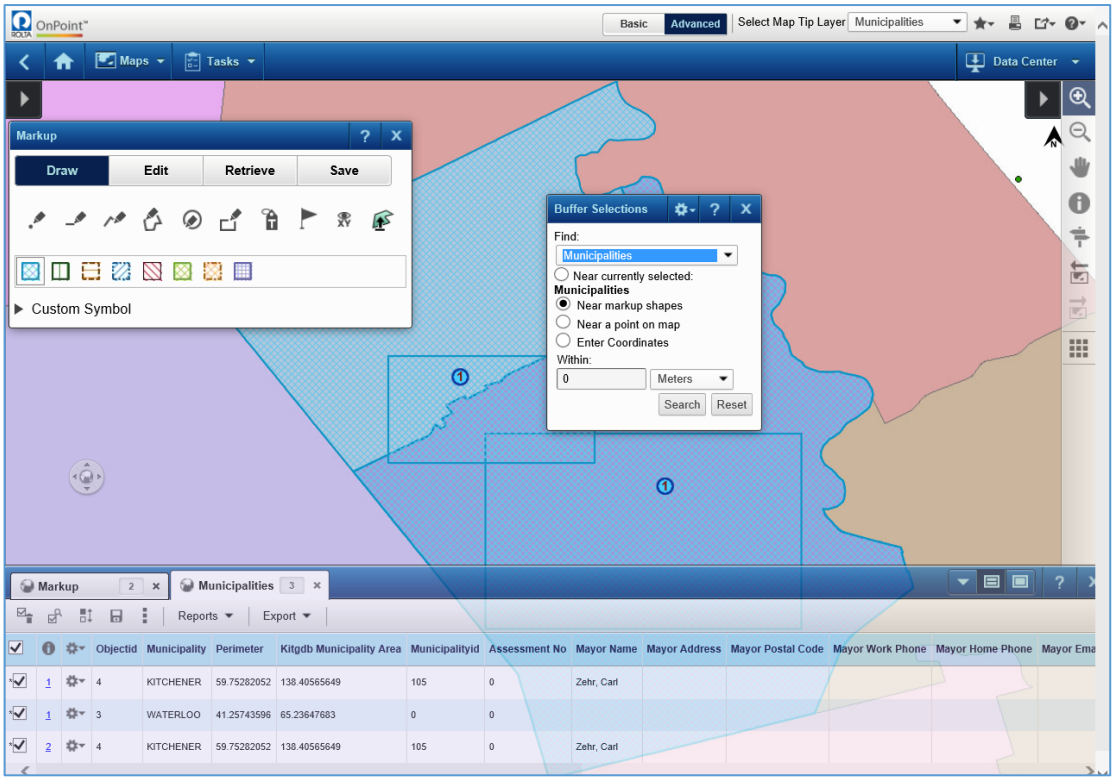


2.4 Enhanced Selections using Markup

Previously, OnPoint spatial selections did not retain user-drawn shapes after the selections are highlighted on the map. In the current version, this functionality is enhanced to retain the last user-drawn shape until the user:

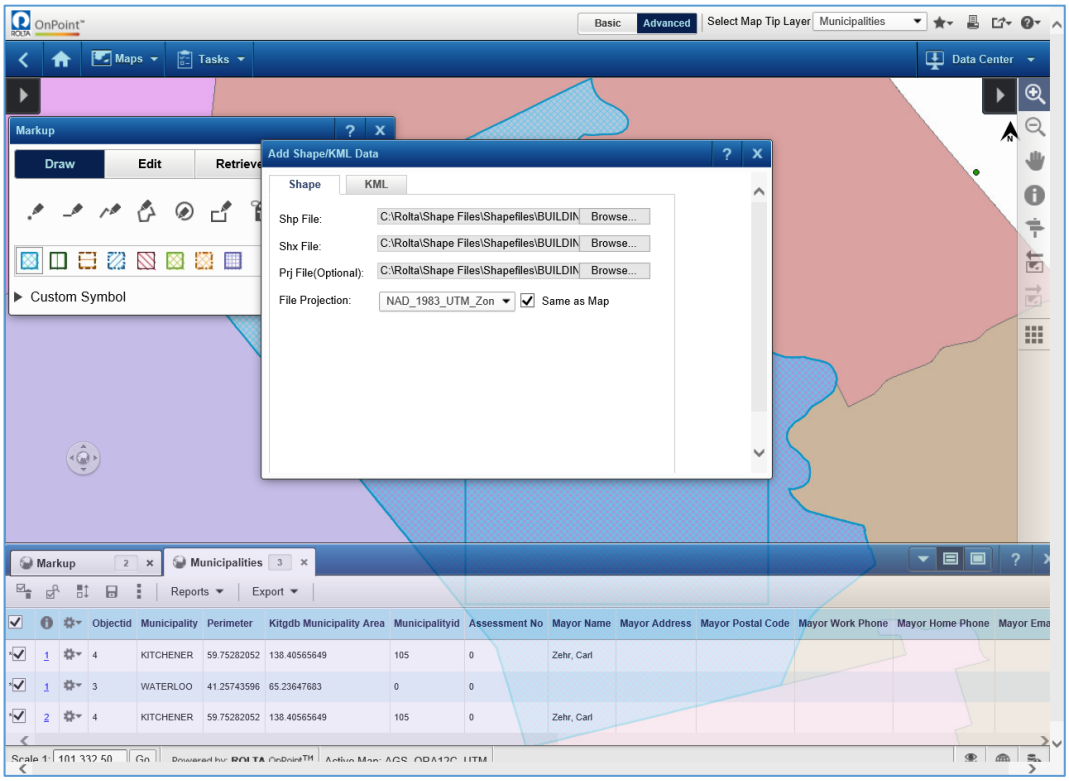
- draws any other shape on the map, or
- clears the results, or
- invokes the Clear Map tool, or
- switches the map tab

Users can create a buffer zone around a point or markup or specified coordinates by entering a distance within which they can search for required data types. The functionality is also available in embeddable maps.



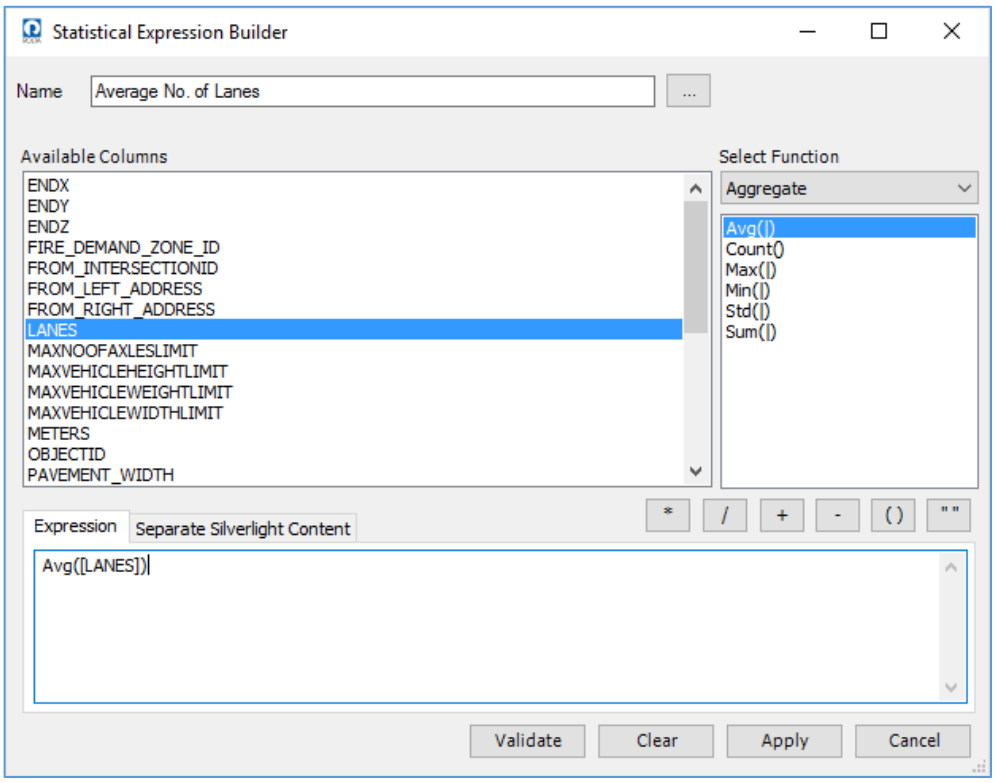
2.5 Add Markup from Shapefile/KML

Users can load markups in the OnPoint web application by adding shape files or KML file to the map.



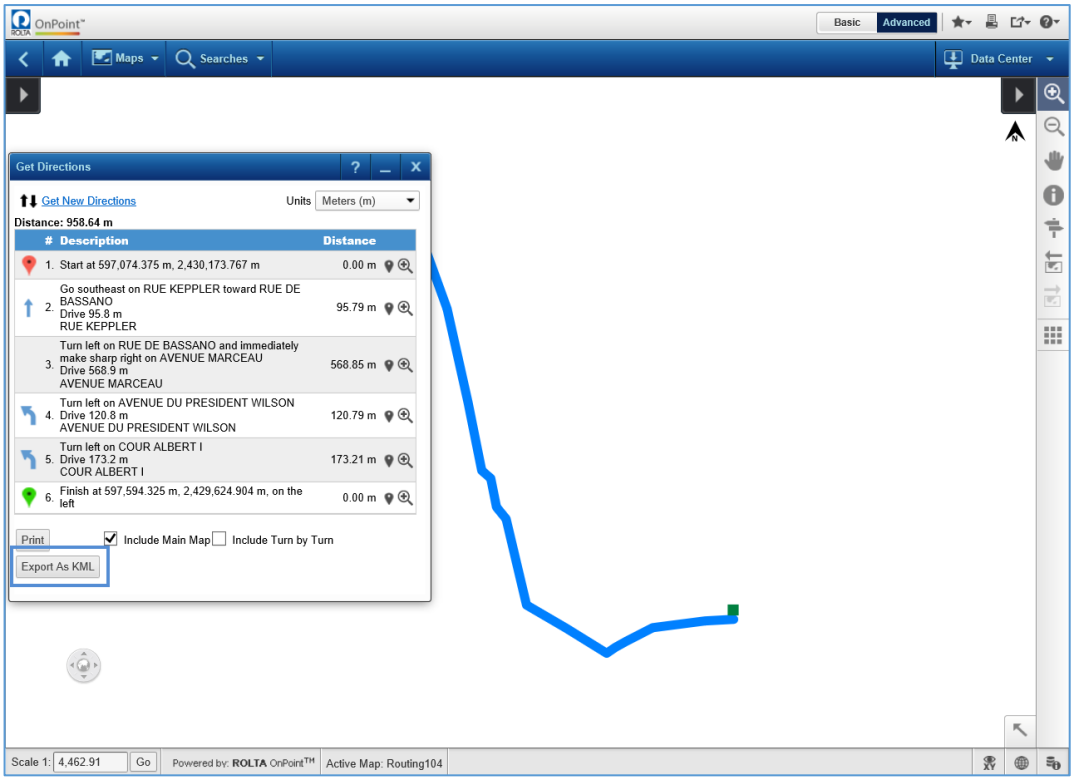
2.6 Custom Statistical Tool

OnPoint administrators can define statistical expressions using the Statistical Expression Builder. These expressions are displayed as tools on the Results window when features from the layer are selected. OnPoint administrators can configure to display the tool on the fixed result grid tool bar. When users click the tool, the expression is evaluated for the selected features and the results are displayed in a popup window with a close button.



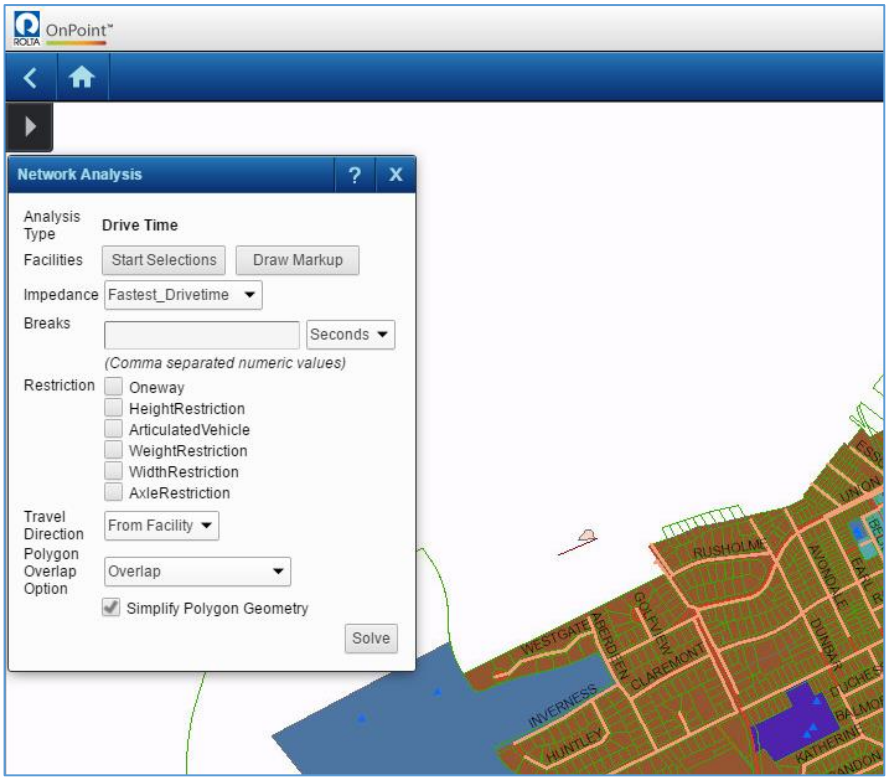
2.7 Export Route as KML

Existing Route functionality has been enhanced to provide users the capability to export the route as a KML file. Only the route geometry is exported as KML, which can be opened in any other application to visualize the exported route.



2.8 Service Area Analysis

This functionality enables the users to perform a service area analysis in OnPoint. The service area analysis capability is available as the Network Analysis functionality the OnPoint web application. The Network Analysis capability must be enabled on the map service to use this functionality. The Service Area Analysis functionality in OnPoint enables the user to use active selections in the form of layers or markups for service locations. Users can input one or more than one travel time for analysis while the generated service area polygons are highlighted on the map interface as markups in the application. Users can export the service polygon as KML file which can be later visualized as route over Google Earth. Users also get an option to define the symbols for the service area.



2.9 Geoprocessing Model Development

This functionality enables users to create a geoprocessing model that accepts one or more geometries and buffer distance as input. In addition, the model also generates buffered geometries after applying a buffer distance on the input geometries. The output geometries are added to a raster layer on a map service. Symbology for the raster output is defined in the map service.

2.10 Thematic Mapping in Embeddable Map

The thematic mapping functionality that was available in the OnPoint web application is now available in the embedded map. Users now can define the symbology for supported layers using the graphical interface within the map widget in embeddable map in OnPoint.

2.11 Layer Filter in Embeddable Map

This Basic Filter tab in the embeddable map enables the filtering of map layers of web-based embedded maps using a set of attributes and their values. The layer filter functionality supports basic layer queries. The application has the ability to remove any existing layer filters.

2.12 Query Builder/Complex Layer Filter in Embeddable Map

The container application is able to send a structured set of field names, values, operators, Boolean logic and grouping clauses that are applied to a specified layer for filtering or for querying. The specific format is defined as part of the API documentation. The abilities and constraints defined in the OnPoint configuration, such as which layers are supported, the use of OR Boolean operator and so on, for Query Builder and Layer Filter is honored.

Optionally, the Embedded Map Designer utility can be extended to assist application developers with creating filter clauses for specific layers. This would enable them to utilize the proper field names and field values available in the layers of interest and ensure that the constructed clause is syntactically correct.

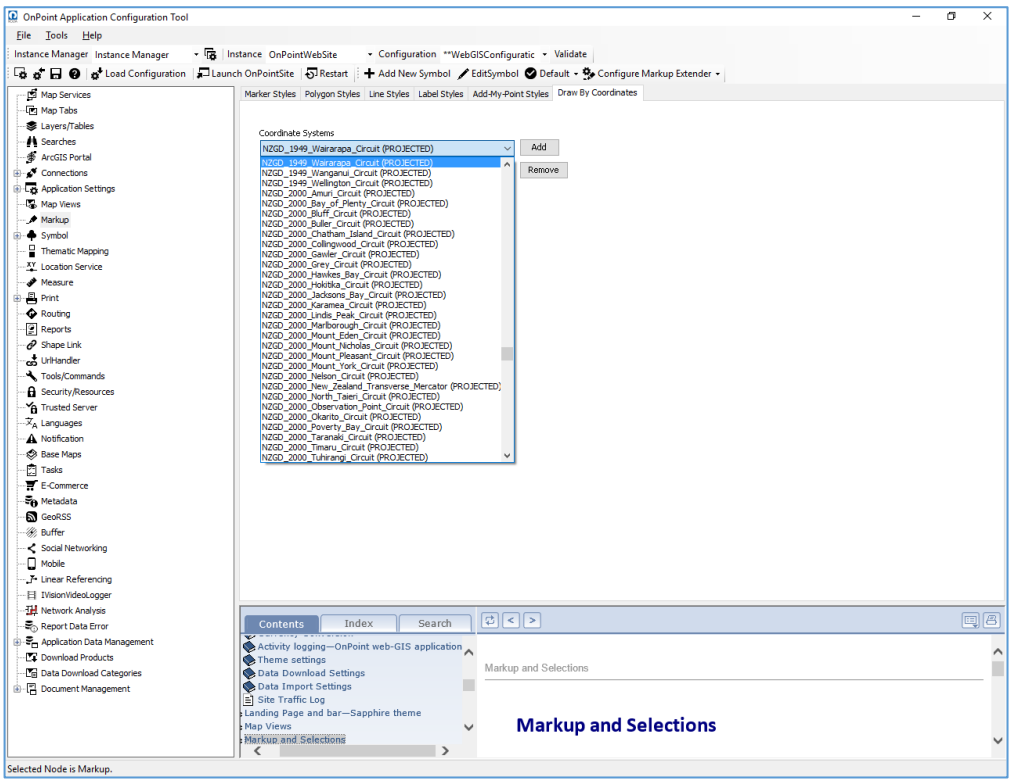
2.13 Export as Shapefile

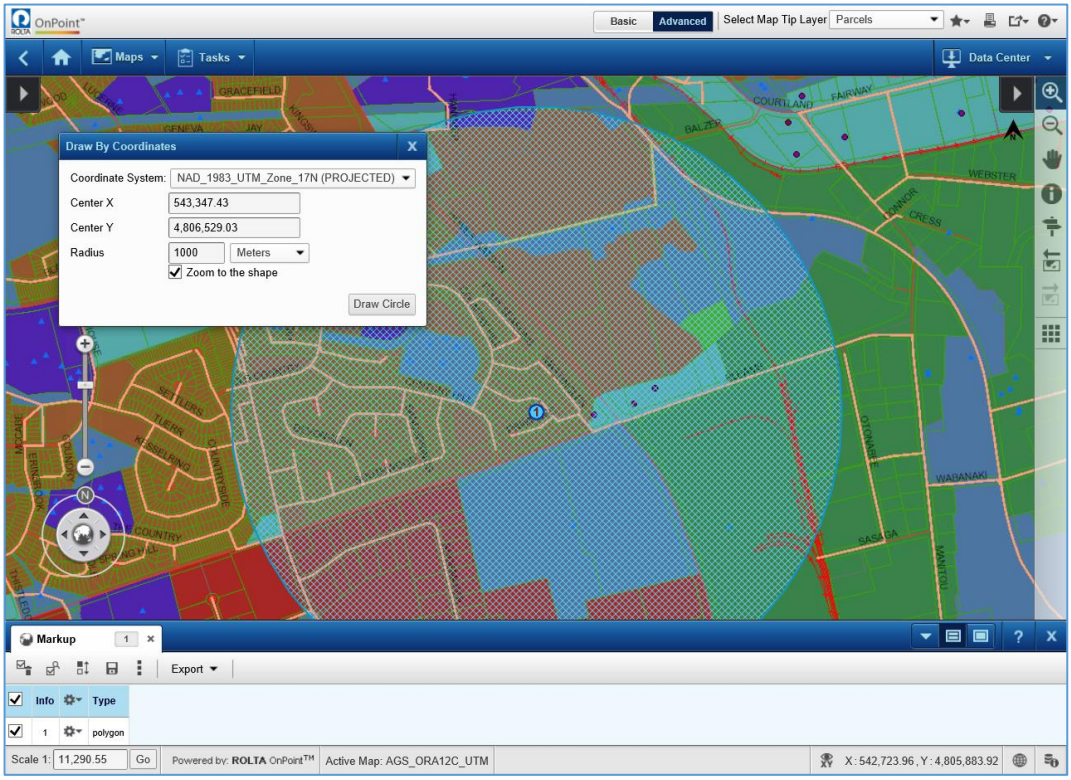
Using this functionality, a feature can be exported as a shapefile using an administrator configured geoprocessing task. The embedded map control also supports the use of geoprocessing tasks.

2.14 Defining Markup Circle using Centroid and Radius

This functionality enables the end users to create a markup circle on the map by defining the centre coordinates and the radius. Users can specify the centre coordinates in any coordinate system that has been enabled by the OnPoint

administrator. Users can also pick the units for the radius, such as in meters or kilometres.

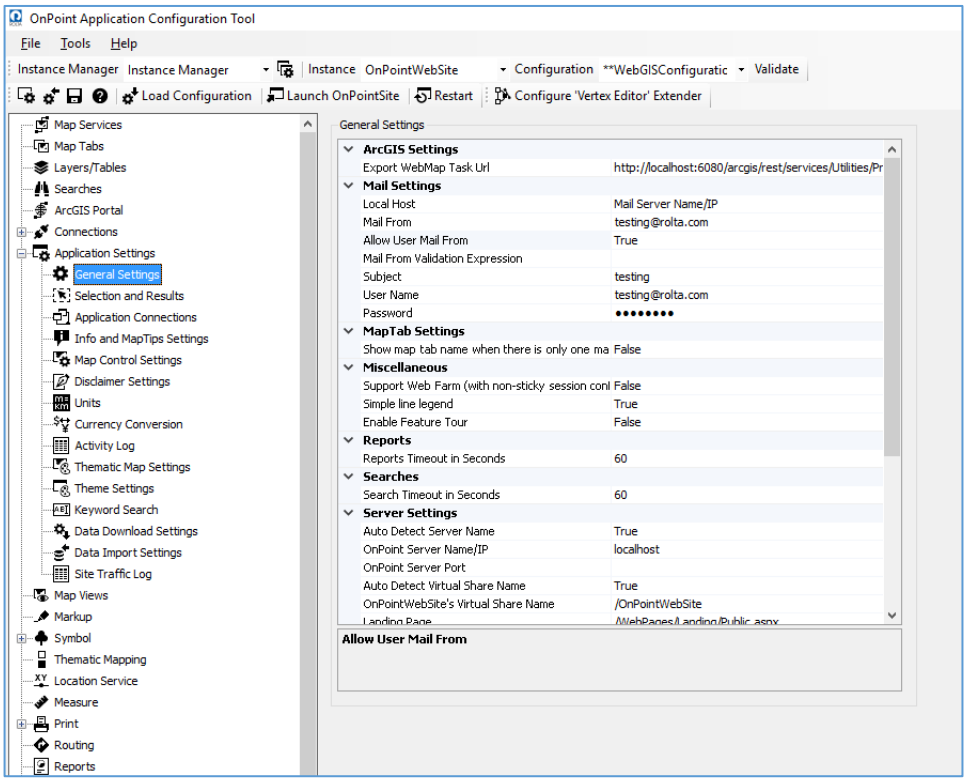


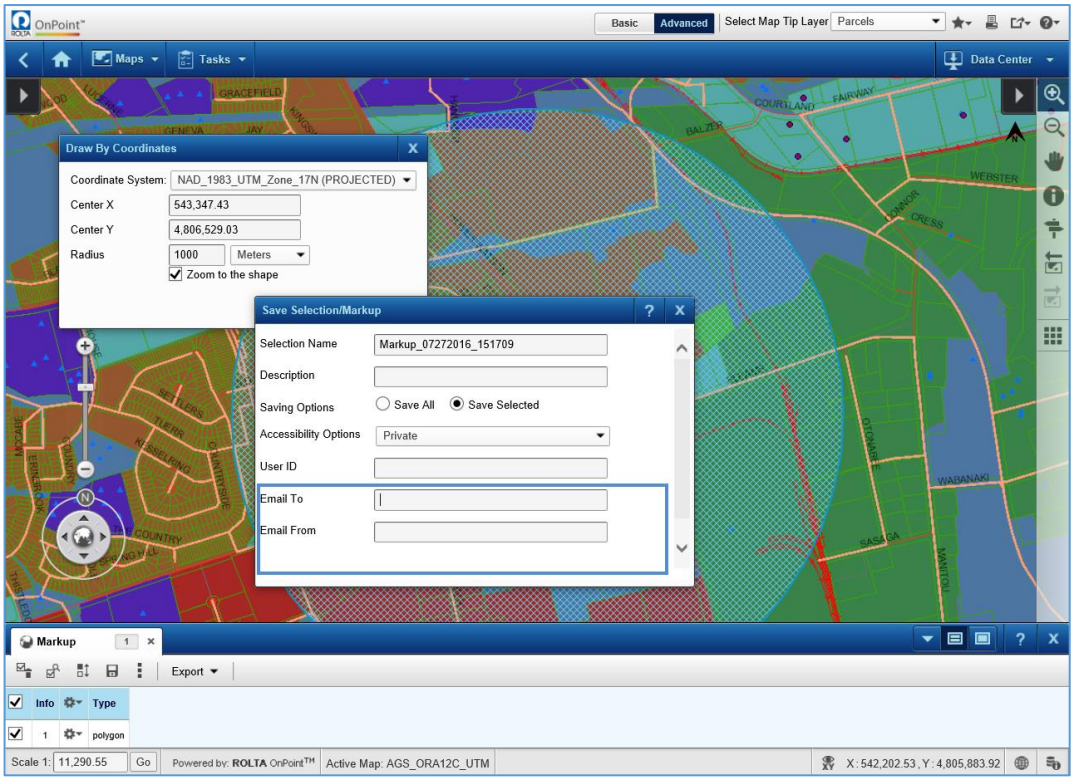


2.15 Reply to Email Address Configuration

When someone sends an email through the OnPoint website, the email indicates that it was sent from the email address defined in the OnPoint Administration Console. However, this is misleading since the email address of the person sending the email through the website in most cases are different from the one defined in the OnPoint Administration Console. This prevents the recipient from replying to the email.

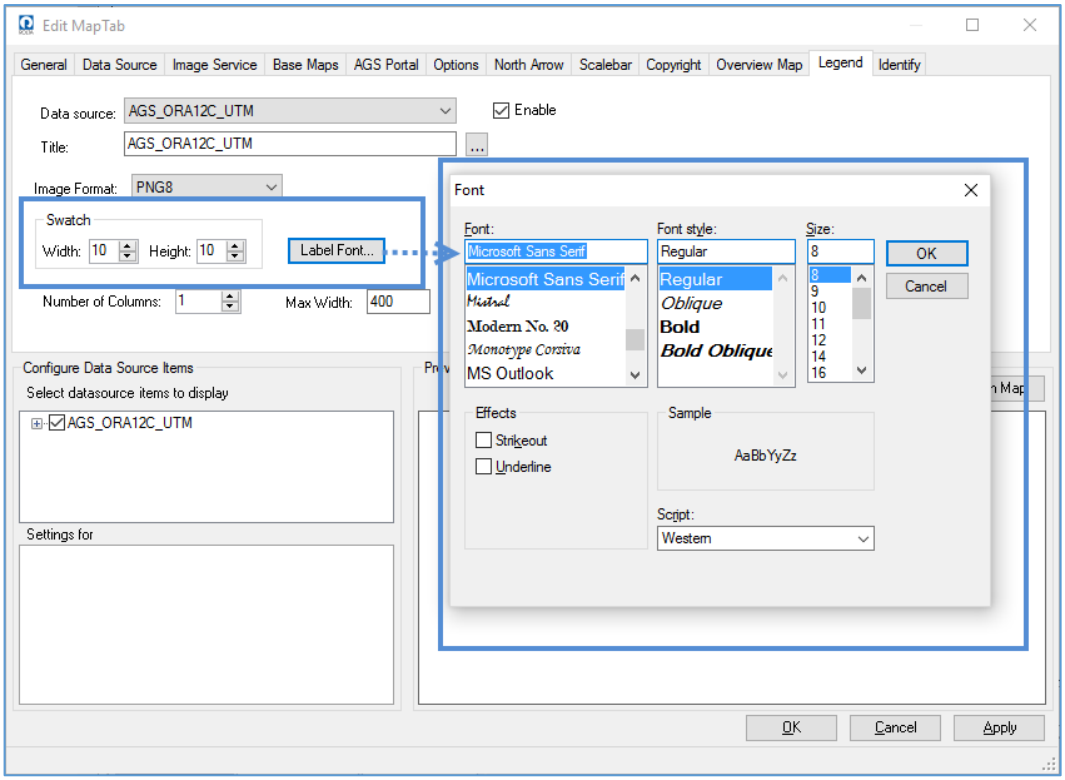
This functionality in OnPoint enables users or the person sending the email to define their email address. If the user has been logged into OnPoint using windows authentication, their email address is automatically determined from their windows credentials.





2.16 Legend Control

The map tab configuration has been enhanced to allow the administrator to configure the width and the height of the legend, and adjust the resolution of the legend displayed in the maps. This provides control to the administrator over the legend and font displayed to the end users.



Alternately, the administrator can change the legend size in the:

- OnPoint web-GIS application by changing the legend height in the Sapphire.css file.
- PDF print of the landscape map by changing the LandscapeEasyPrint_PDF.xsl file.

a. Changing the Legend Height in Sapphire.css file

To change the legend height, perform the following steps:

1. Open the Sapphire.css file located at the following location.

   <Installed Directory>\OnPointWebsite\WEB\App_Themes\Sapphire

2. Adjust the height in the following location.

   (.legendWebPrintHeight{min-height:60px;})

b. Changing the Legend Height in LandscapeEasyPrint_PDF.xsl

To change the legend height in the landscaped PDF map, perform the following steps:

1. Open the LandscapeEasyPrint_PDF.xsl file located at the following location.

   <Installed Directory>\OnPointWebsite\WEB\App_Themes\Sapphire

2. Adjust the height in the following location.

<xsl:otherwise>

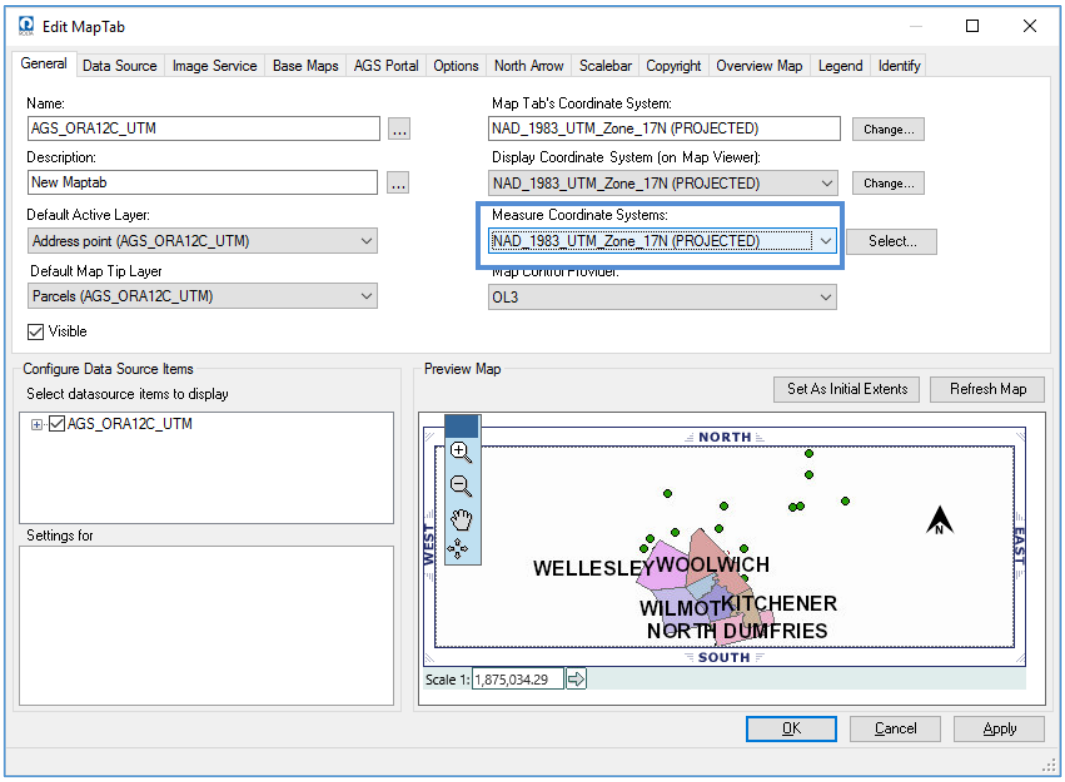
<xsl:attribute name="min-height">50px</xsl:attribute>

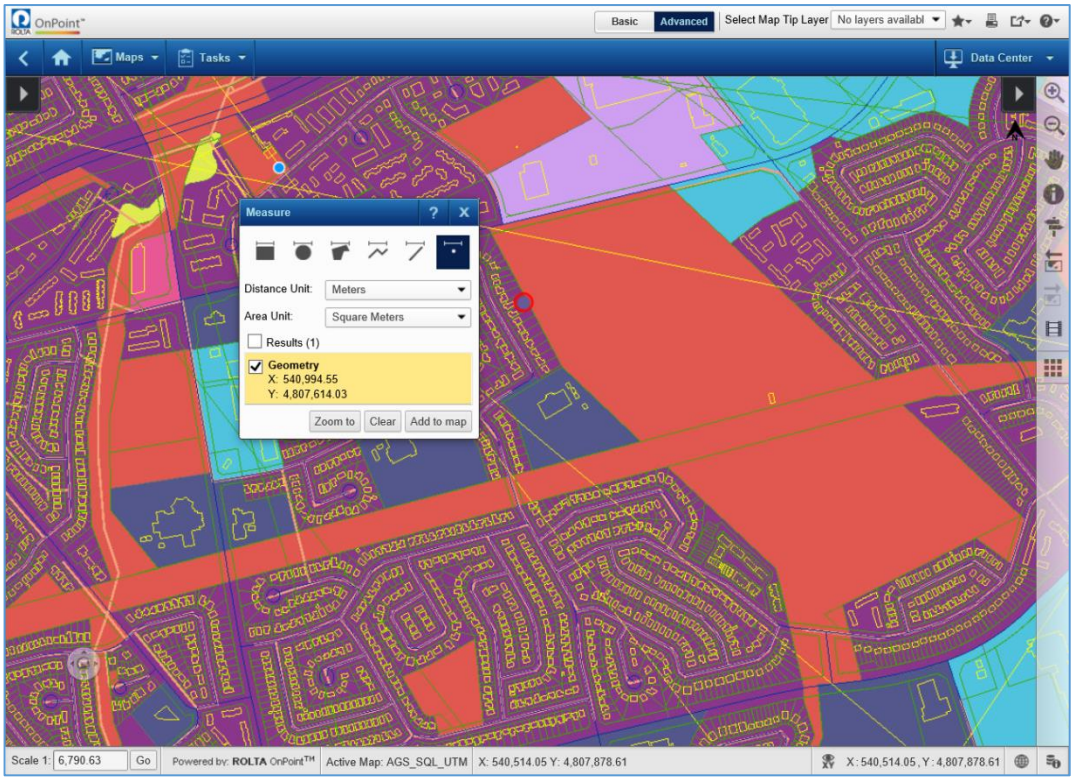
</xsl:otherwise>

2.17 Measure Tool Enhancement

Previously, point locations on the map were measured and the results were displayed as the X and Y values of the coordinate system used by the map tab. However, users are interested in displaying the location in different coordinate systems.

This new enhancement provides an option to allow the administrator to define coordinate systems for measurement. The coordinate system selected by the user is used for point, line and area measurements.

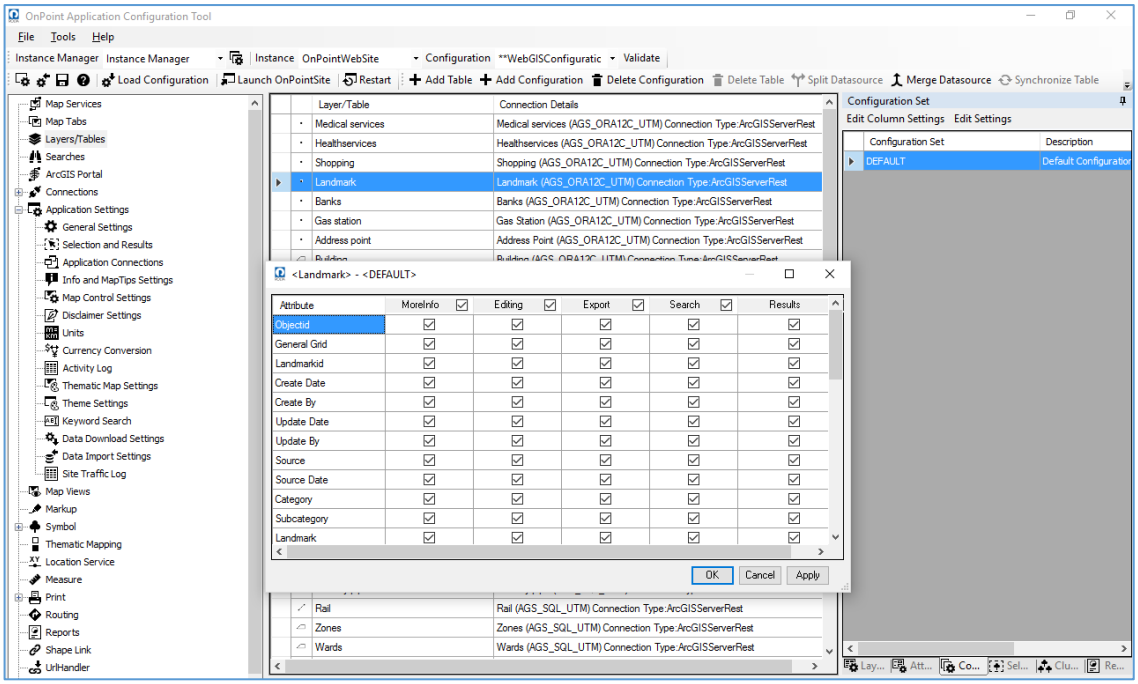




2.18 Extending Configuration Set for Search Criteria

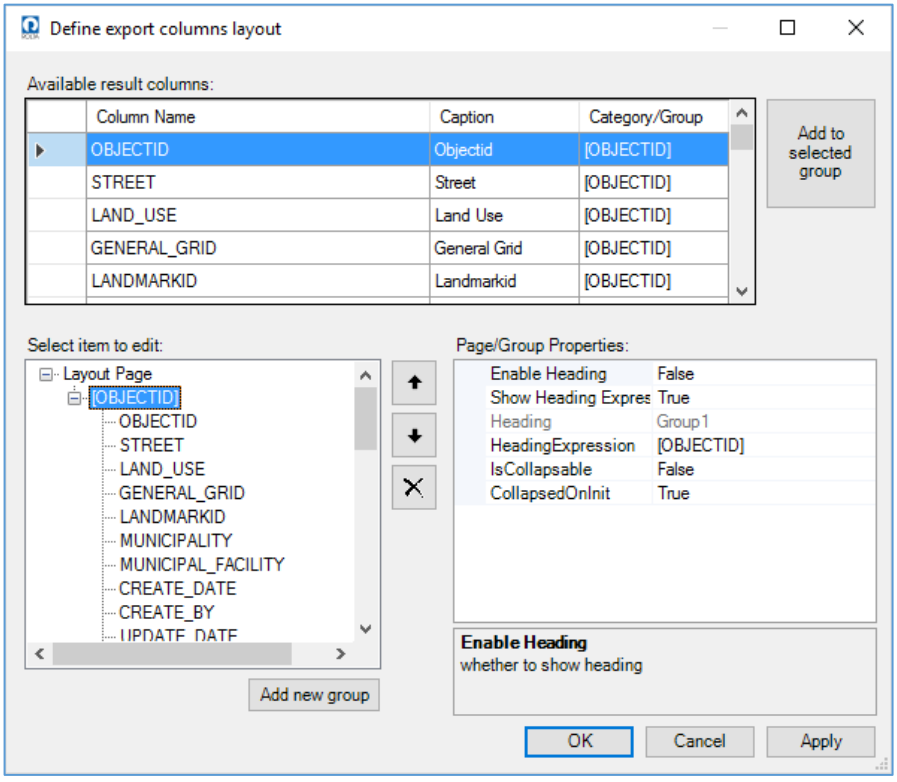
Configuration sets are currently used to define column-level access to dataset attributes for results, query builder, and other OnPoint functionalities. Presently, Configuration Sets do not apply to search criteria. If a user has access to a particular search, they can view all the criteria that have been defined for that search even if they do not have access to those attributes in the result set.

The configuration set concept has been extended to searches, such that the administrators can define search column criteria visibility. This enables the administrators to define one search, and hide criteria of that search based on the user's role.



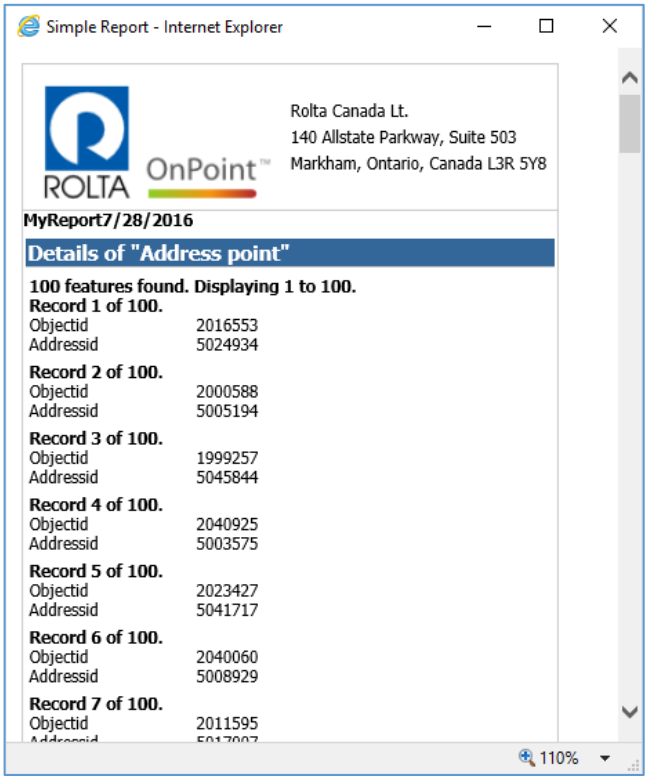
2.19 Define the Order of Fields in Reports

Previously, simple reports in the maps displayed the dataset fields in the order they are defined in the dataset. This functionality allows administrators to define the order of the fields that appear in the simple reports.



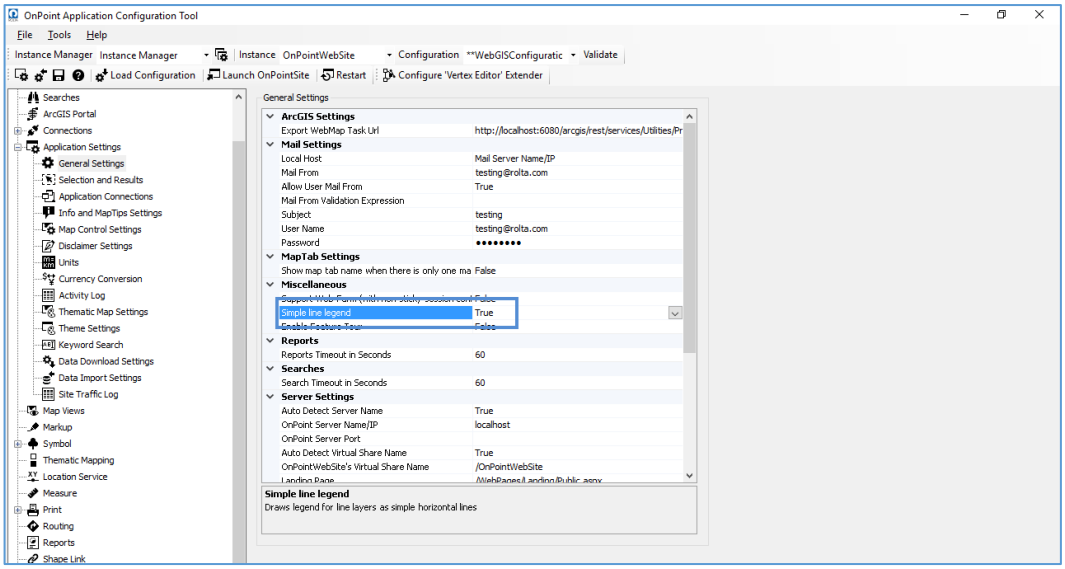
2.20 Add Date/Time Stamp to Reports

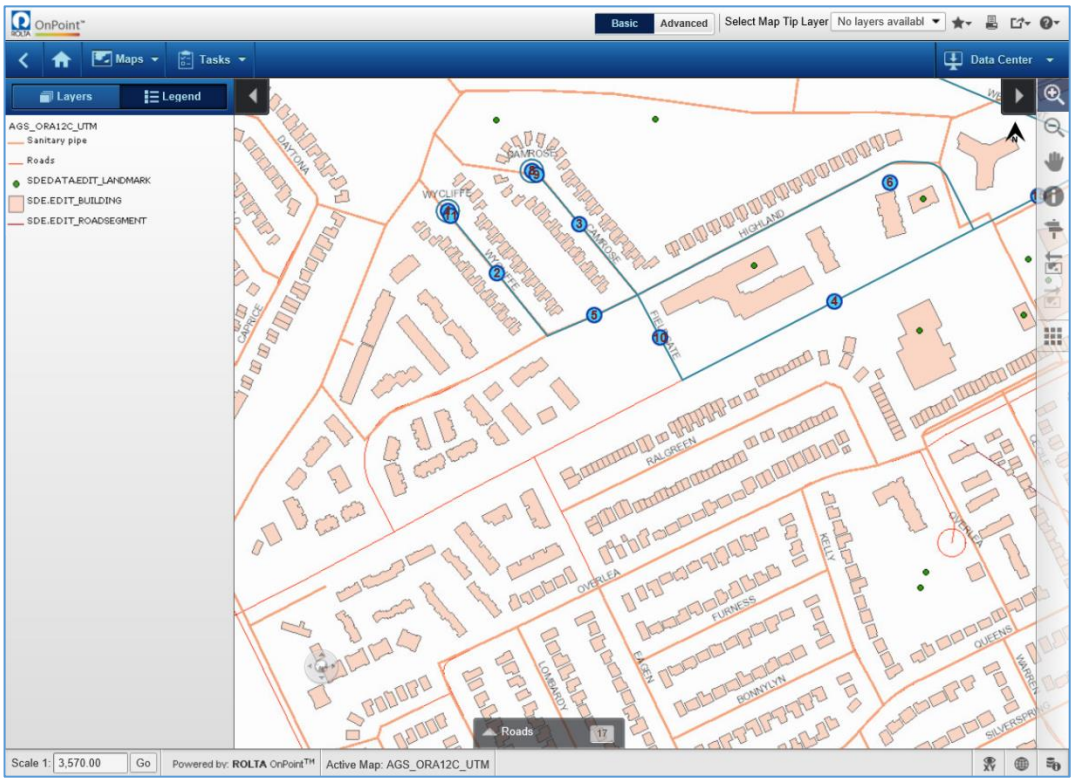
Previously, when configuring a simple report, the OnPoint administrator had no option to record the date and time when a report was generated. If the underlying data changes frequently, displaying the correct date and time is essential. This functionality would enable the OnPoint administrator to display date and time in a report, select where date and time appears in the report, and decide the format of date and time.



2.21 Legend Symbology for Thematically Mapped Line Layers

Earlier, when a line layer was thematically mapped, the layer symbology appeared in the Map Contents window using a diagonally oriented jagged line. However, the cartographic guideline is to use horizontal straight lines for representing line features in map legends. This enhancement provides options to the administrator to display thematic mapping line symbology either as a straight line or horizontal line.





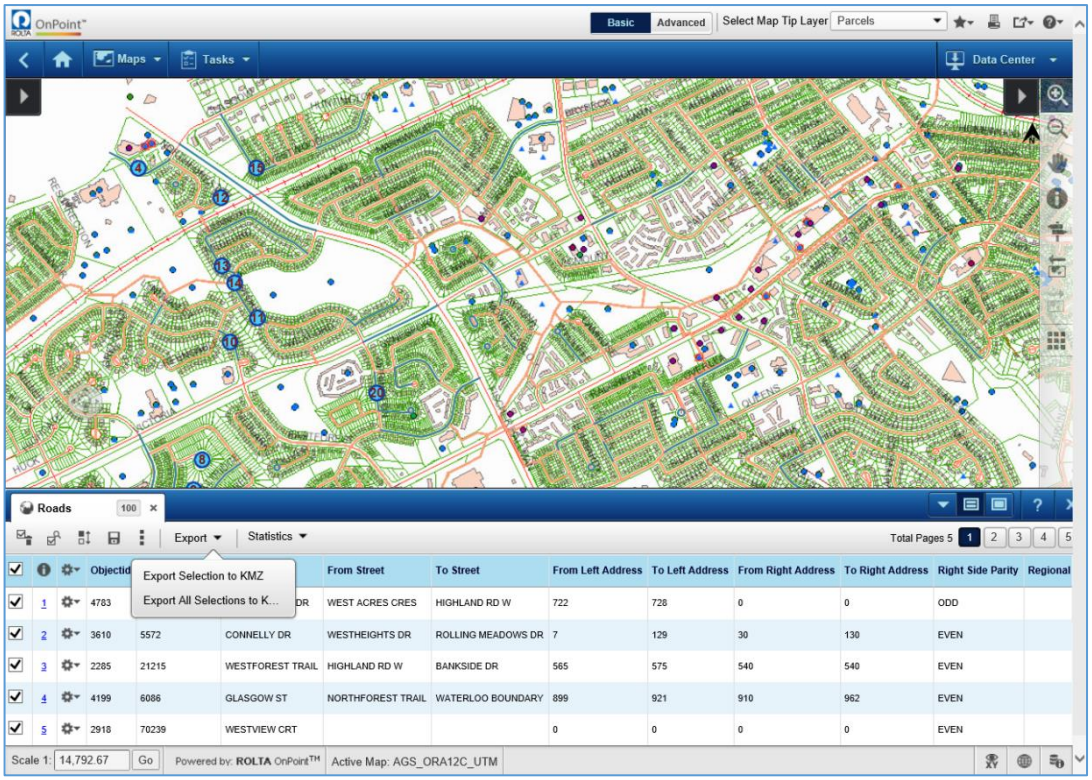
2.22 iVision Video Logger

iVision Video Logger is a third-party web-based application from Fugro, which provides an option to the OnPoint users to view video imagery and asset management information for a road section they select on the map in OnPoint. The iVision tool that is accessible through OnPoint displays a fixed-size window. This window size is part of the OnPoint tool configuration. However, since different user groups are expected to have different views and access within the iVision tool, this fixed size is not always appropriate. This enhancement allows the users with the

ability to move the iVision window outside of the OnPoint map frame which is beneficial especially for those with large screens or dual monitors. This enhancement adjusts the iVision tool window so that iVision is launched in a separate browser window, which can be moved and resized by the users.

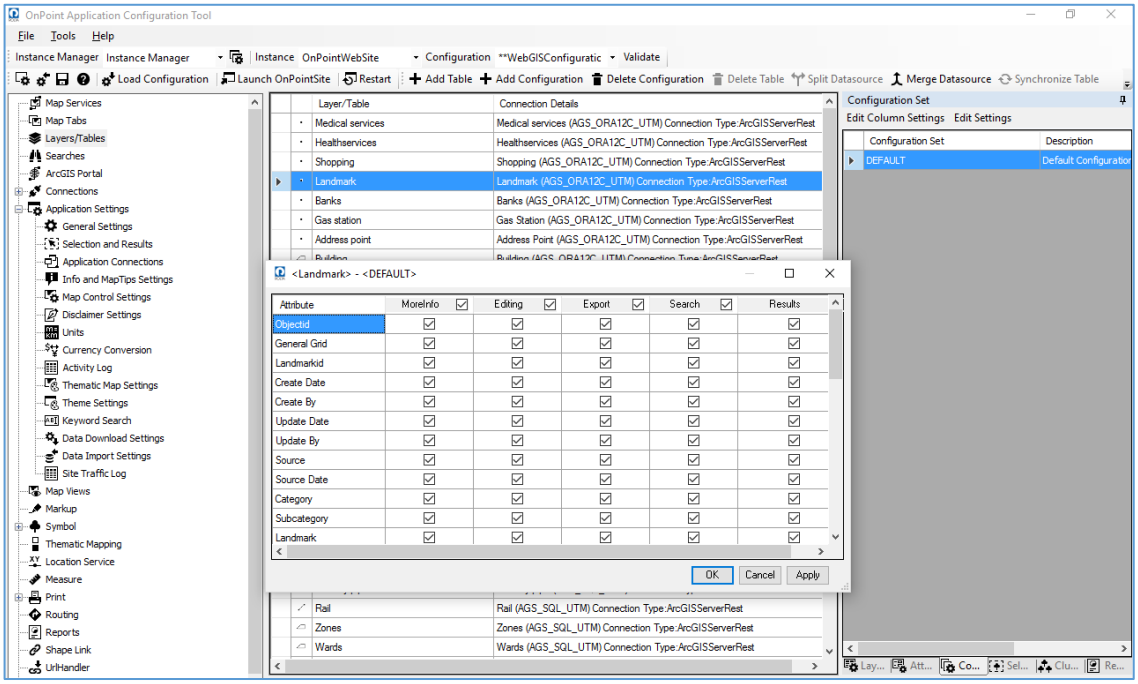
2.23 Export Mark Up as KML

The current version of OnPoint allows users to export feature selection sets as KMZ for use in Google Earth or similar third-party applications. This enhancement would enable the users to export markup objects to KMZ files.



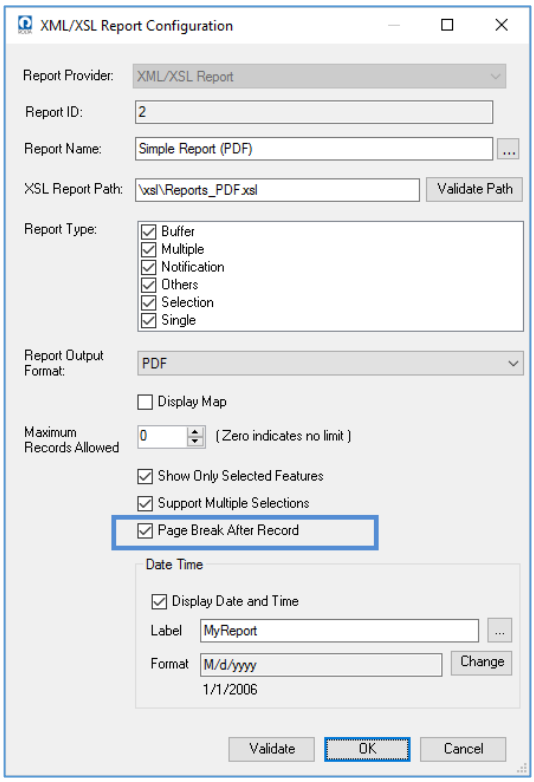
2.24 Customization of Result Grid

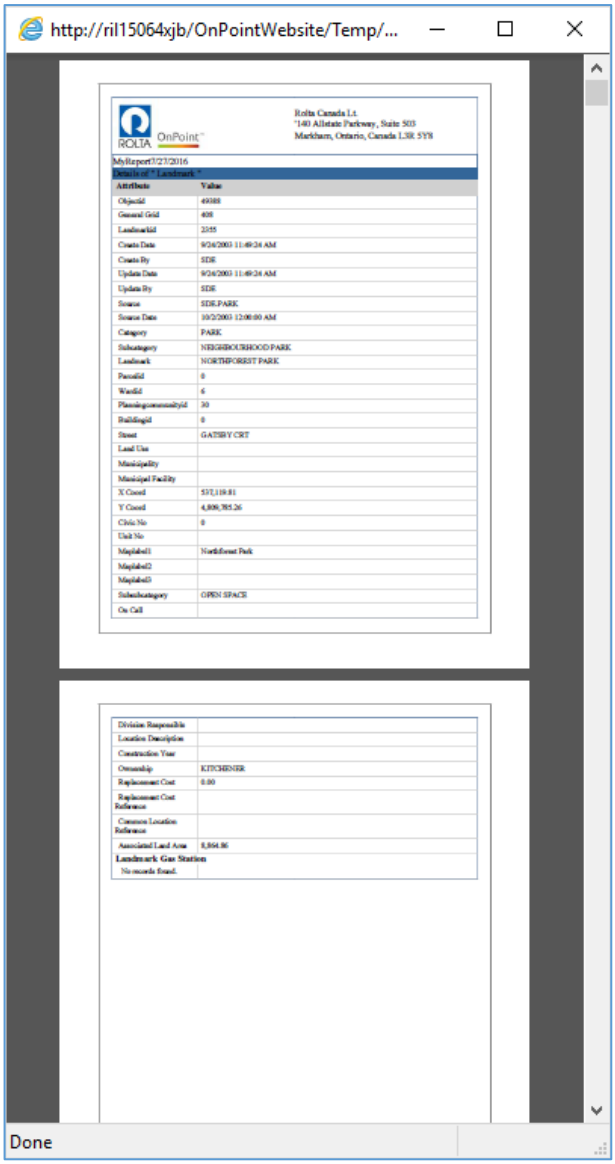
The OnPoint application has been enhanced such that the users are able to define the fields that appear in the results grid. Once defined, these settings are honored in future sessions, until the end user changes their selected field list. The user's setting is saved in their profile.



2.25 Adding Page Break in Reports

This enhancement allows the OnPoint administrator to configure a report such that a page break is placed after the details of each feature. This feature is applicable to PDF and HTML printed reports.





2.26 Identifying Feature Details through Container Application

The goal of this function is to retrieve details of a displayed feature from the TVIS database.

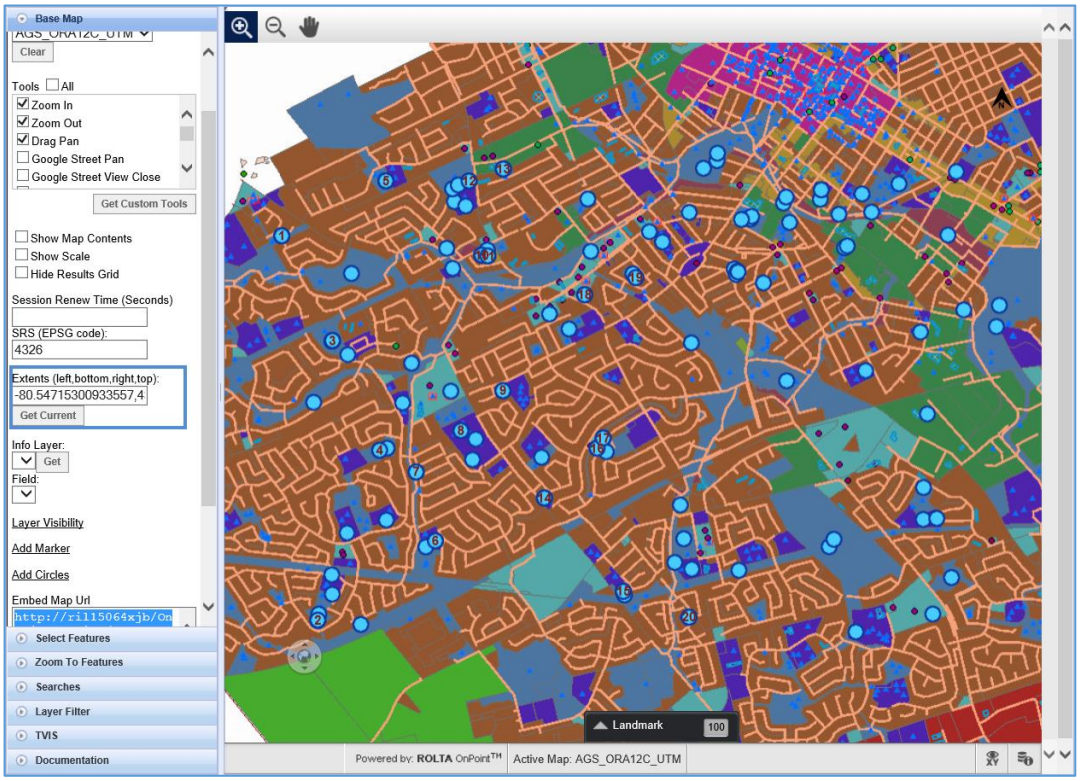
The map control is extended to allow the TVIS application to initiate a process to identify features using the map. The application specifies the map layer from which features should be identified, and optionally the attributes of that layer that should be returned to the application. When a user clicks a point on the map, OnPoint determines which features of the specified layer are present at this location, using the tolerance settings defined for the Info tool in the OnPoint Administration Console. The requested attributes of the identified features are returned to the application.

When a user clicks a point on the map, the map control highlights that location through client-side graphics. The user can also use the map control to clear the

highlighted point.

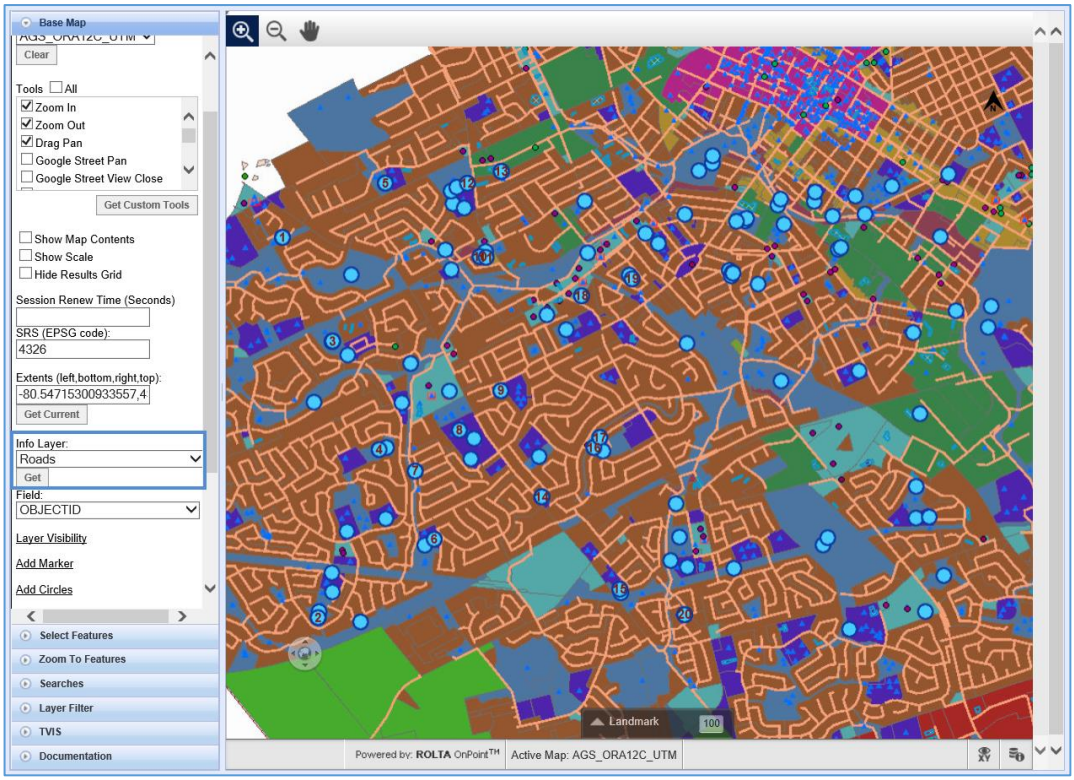
2.27 Get Current Extents and Renew Session in Embeddable Map

This functionality provides an option to the user to get the current extents of the map if the map is zoomed to a particular place. Renew session provides an option to specify the time for session renew.



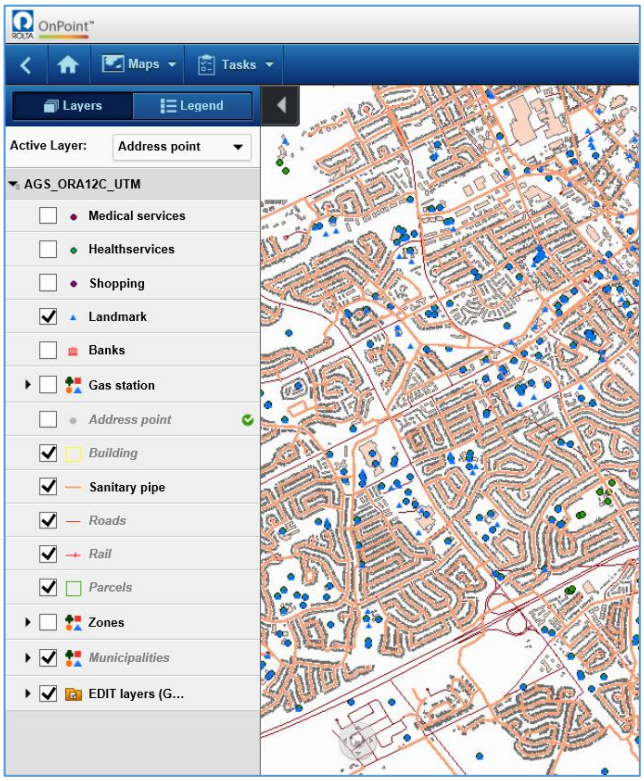
2.28 Info Layer and Field in Embeddable Map

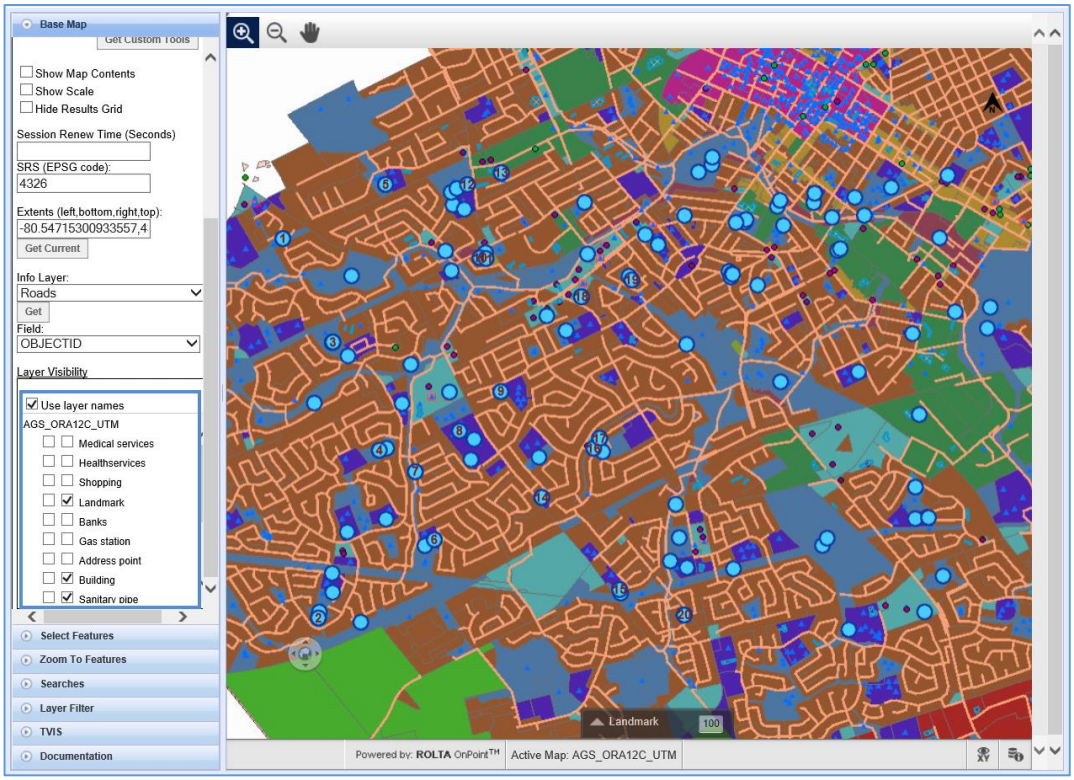
This functionality provides an option to the user to set the info layer and the field details.



2.29 Layer Visibility in Embeddable Map

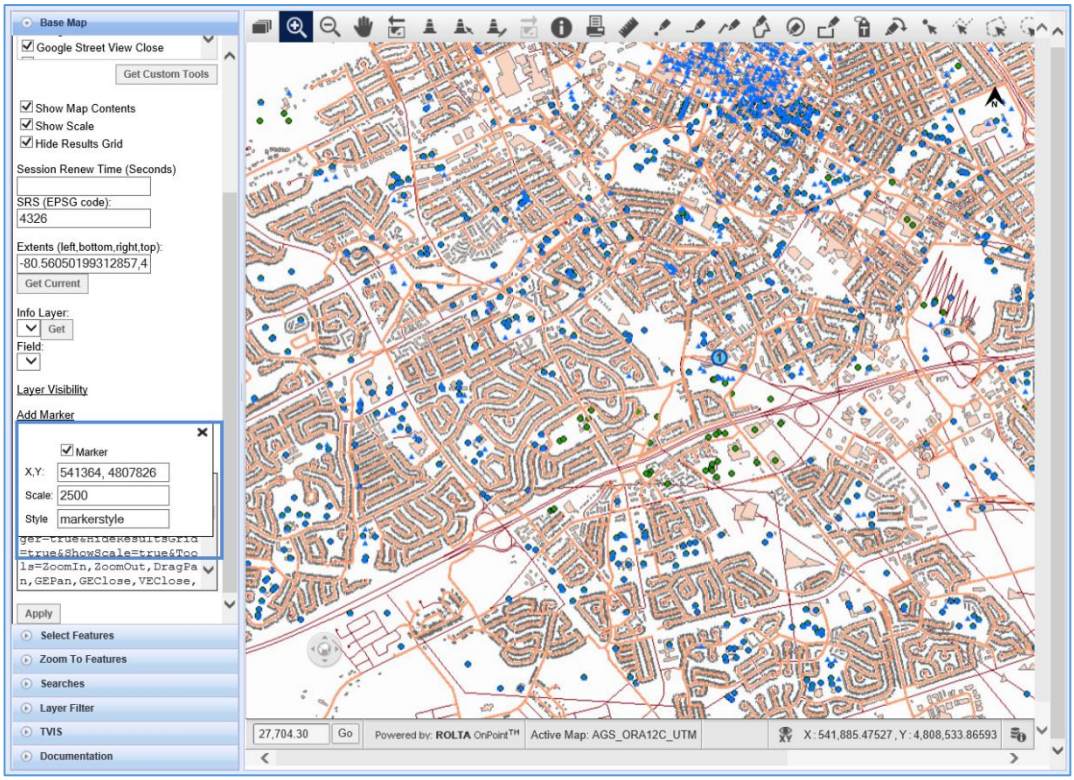
This functionality provides an option to the user to set the visibility of the layer present in the map in the TOC of embeddable map in the OnPoint application.





2.30 Add Marker and Circle in Embeddable Map

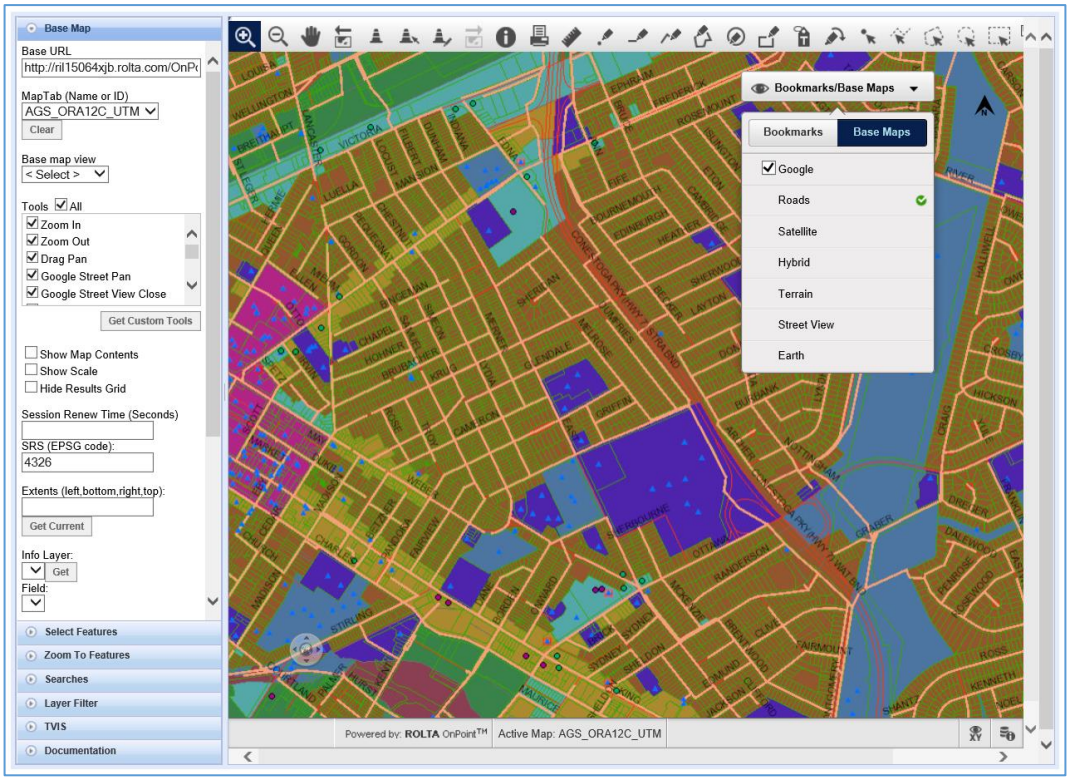
This functionality provides an option to the user to create marker and circle in the embeddable map in the OnPoint application. It provides an option to give the coordinates of the point where marker is to be created through Add Marker. Similarly Add Circle option gives an option to create a circle along the marker symbol.



2.31 Google and Bing Maps Support in Embeddable Map

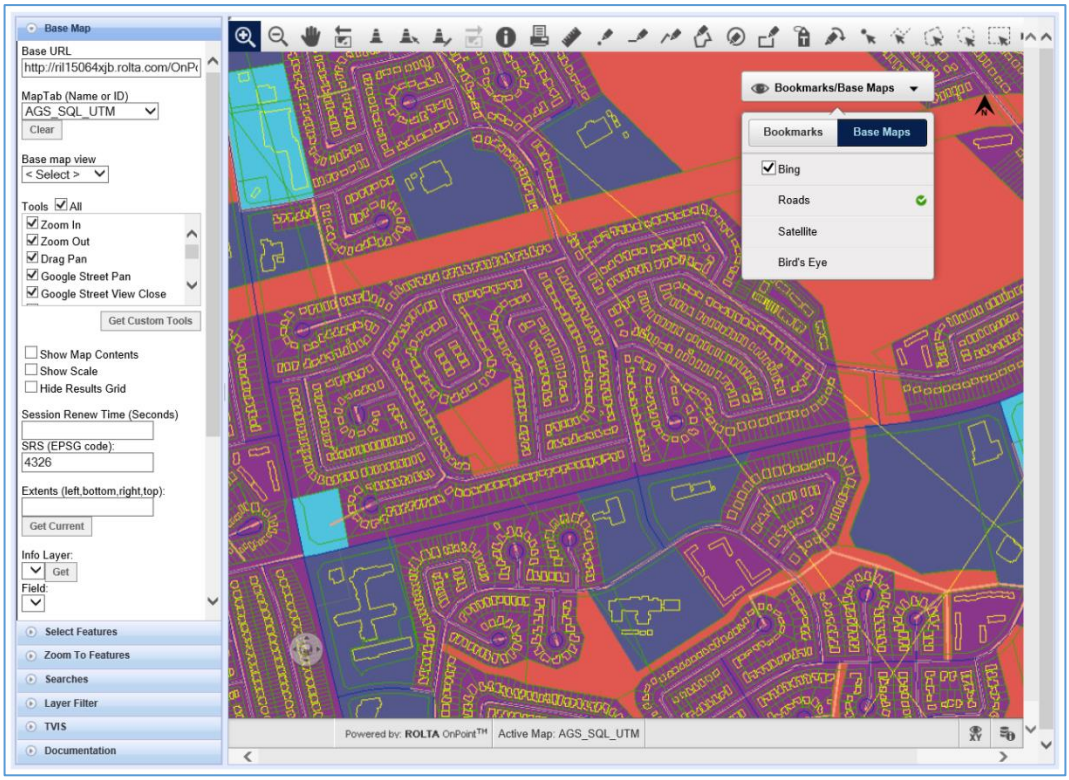
Google Map and Bing Map are now supported in the embeddable map in the OnPoint application. All views of Google Map and Bing Map are now supported in the embeddable map in the OnPoint application. In Google Map, the following views are supported

- Satellite
- Road
- Hybrid
- Terrain
- Street view
- Earth view



In Bing Map, the following views are supported

- Road
- Satellite
- Bird eye view


Base Map
Base URL
http://ril15064xjb.rolta.com/OnP
MapTab (Name or ID)
AGS_SQL_UTM
Clear
Base map view
< Select >
Tools All
Zoom In
Zoom Out
Drag Pan
Google Street Pan
Google Street View Close
Get Custom Tools
Show Map Contents
Show Scale
Hide Results Grid
Session Renew Time (Seconds)
SRS (EPSG code):
4326
Extents (left,bottom,right,top):
Get Current
Info Layer:
Get
Field:
Select Features
Zoom To Features
Searches
Layer Filter
TVIS
Documentation
Bookmarks/Base Maps
Bookmarks
Base Maps
Bing
Roads
Satellite
Bird's Eye
Powered by: ROLTA OnPoint™
Active Map: AGS_SQL_UTM

3. Fixed Issues Summary

All critical and major issues identified in the Quality Testing phase have been fixed.

4. Additional Documentation

The product documentation is available in Rolta OnPointTM 10.1 “User Guide”, “Installation & Configuration Guide” and “Application Guide”.

5. Support Services

You may also contact at onpoint.support@rolta.com.