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What's New in Rolta OnPoint™ 11.0

Overview

OnPoint™ 11.0 comes with new and easy-to-use features to aid user experience and interaction.

The following features have been added in OnPoint™ 11.0:

- Responsive Web Design, which includes:
 - Redesigned Info Widget
 - Redesigned Markups
 - Redesigned Results Grid
 - Map Rotation Reset using North Arrow

This feature is also available in traditional Mapviewer.

 - Grouping of frequently used tools
 - Google Street View Map
- Auto Refresh Tool
- Accessibility of Features on OnPoint™ Embeddable Maps
- What3Words
- 3D Data Viewing
- Hybrid LDAP Authentication
- Bing Map Version Update
- Bing Maps with Labels
- ArcGIS REST Support Enhancements
- Custom Report Template

Responsive Web Design

In addition to the traditional Mapviewer supported by OnPoint™, this release of OnPoint™ introduces new Mapviewer based on the Responsive Web Design principles. With increasing usage of multiple devices supporting various screen sizes and resolutions, it has become imperative that the modern web applications offer uniform experience across devices to the users of the application. Responsive Web Design (RWD) enables OnPoint™ web-GIS application to adapt to different screen resolutions and screen sizes to give users uniform experience across multiple devices.

By utilizing the latest technologies and design principles, Rolta OnPoint™ Mapviewer is now bigger, better and fits into user's device, irrespective of screen size, orientation and device type. The application can be viewed on multiple devices such as desktop, mobiles, tablets without losing out on content, viewability and functions. We have enhanced OnPoint™ to allow more unrestricted space to the viewable area on the OnPoint™ Mapviewer. The drawer panels neatly tuck away all the tools and functionality, which helps to avoid cluttering of the Mapviewer and increases visibility of the map.

Figure 1: Responsive OnPoint product on a desktop

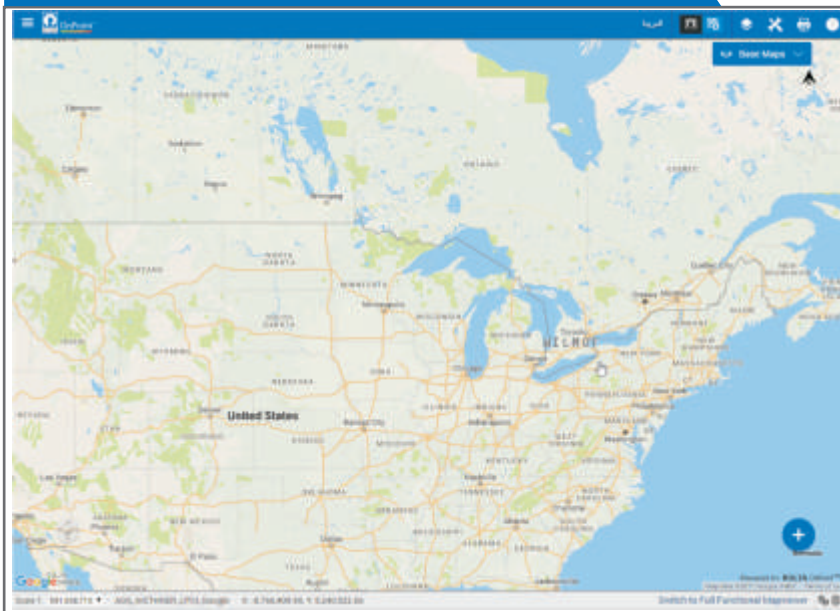
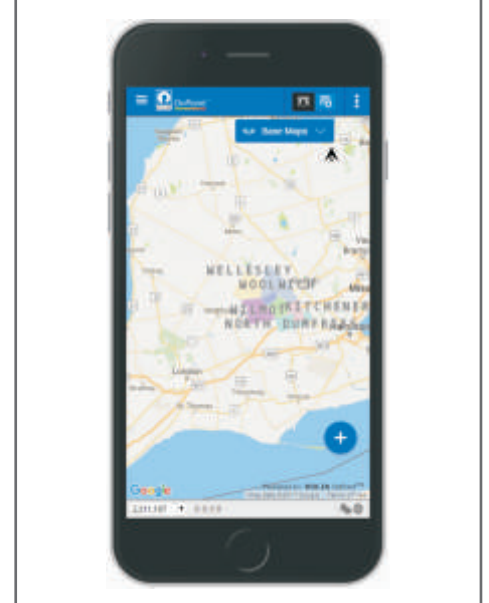


Figure 2 : Responsive OnPoint product on a mobile device



Redesigned Info Widget

Info widget has been redesigned in OnPoint™ 11.0, which provides the options to print, zoom, pan and highlight the selected record on map. These buttons are now placed at the bottom panel in the Info widget. Redesigned layout to access join information and document viewer is provided. These views are now available as tabbed views within Info widget.

Figure 3 : Viewing attribute information on a desktop

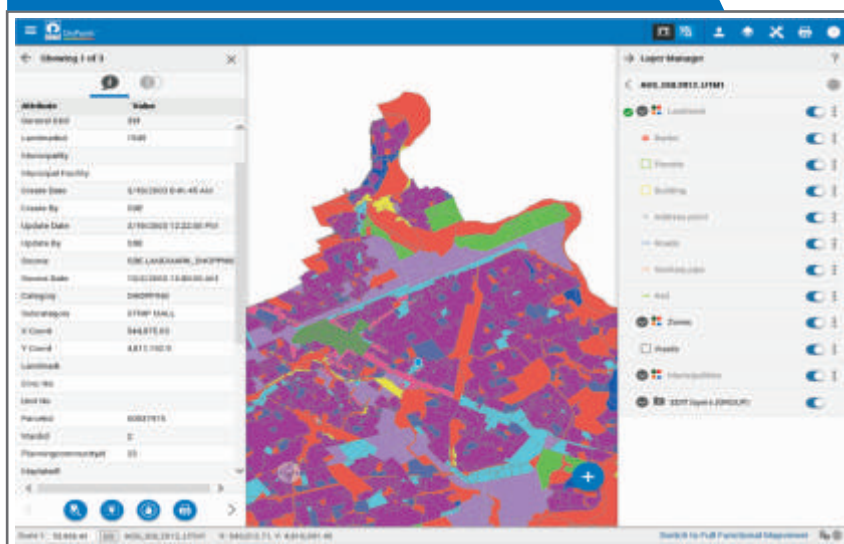


Figure 4: Viewing attribute information on a mobile device



Redesigned Markups

Markups widget has been redesigned. In the desktop, the widget is displayed on the east panel, which is designed to house widgets that are vertically arranged to allow users to open multiple widgets without cluttering the Mapviewer. These widgets can be minimized. Option has been provided in the Markup widget to make the solid-filled markups transparent. If a new markup is drawn, when the Markup Info widget is in minimized state, a notification badge with the number of newly added markups appear on the Markup Info widget.

Figure 5 : Markup widget with notification badge on a desktop

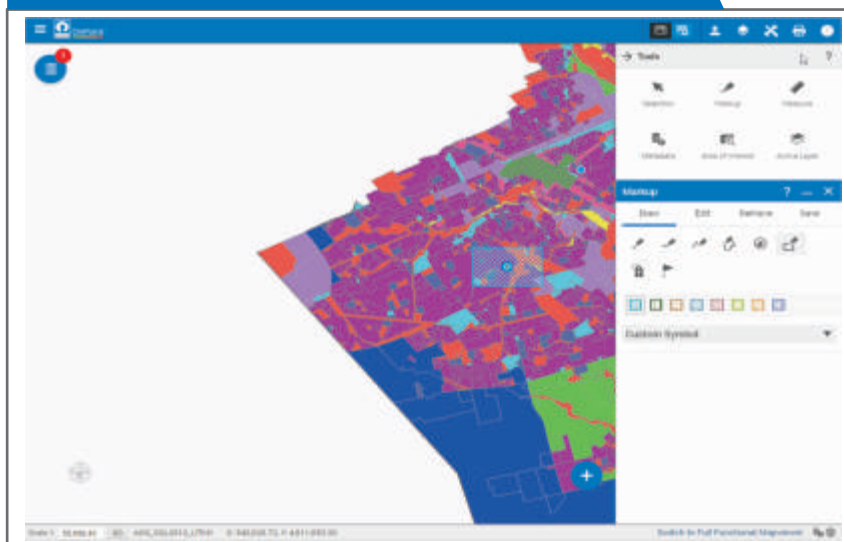
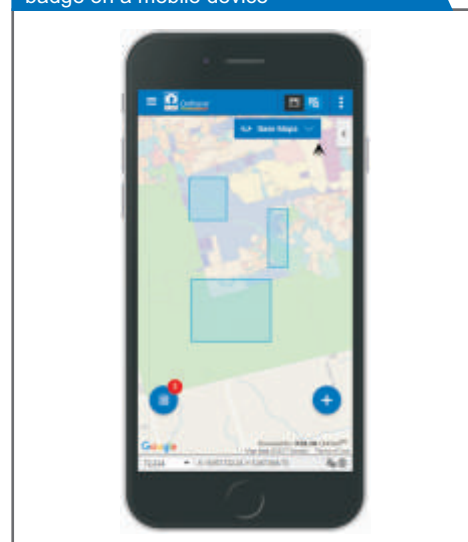


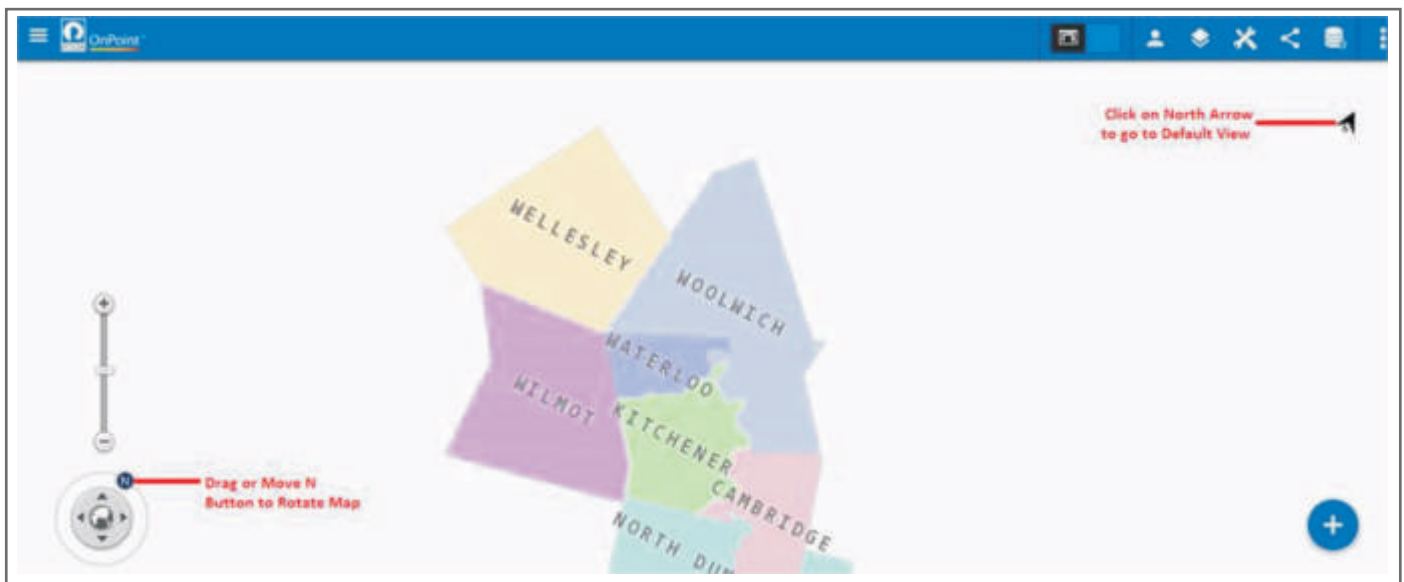
Figure 6: Markup widget with notification badge on a mobile device



Map Rotation Reset using North Arrow

The rotated map can be reset to default position either by clicking the North Arrow or by double-clicking the North Indicator in the Navigation widget. On a desktop, the map can be rotated by dragging the North Indicator in the Navigation widget. The same can be done on mobile and tablet devices by using the two-finger touch and rotate gestures. Note that the Navigation widget is unavailable on mobile devices.

Figure 9 : Map rotation reset



Grouping of frequently used tools


Frequently used tools, such as navigation and identification tools, have been neatly tucked and can be viewed using the Show Tools button  , which is available in the bottom-right corner of the OnPoint™ Mapviewer. This grouping of tools ensures a clutter-free and efficient viewing space on the OnPoint™ Mapviewer, even on smaller screens. In mobile devices, users can use the pinch-out and pinch-in gestures to zoom out and zoom in the map; so the buttons to zoom in and zoom out are unavailable. There is an additional Zoom to Full Extent button in mobile devices to view the map in full extent.

Figure 10 : Show Tools on a desktop

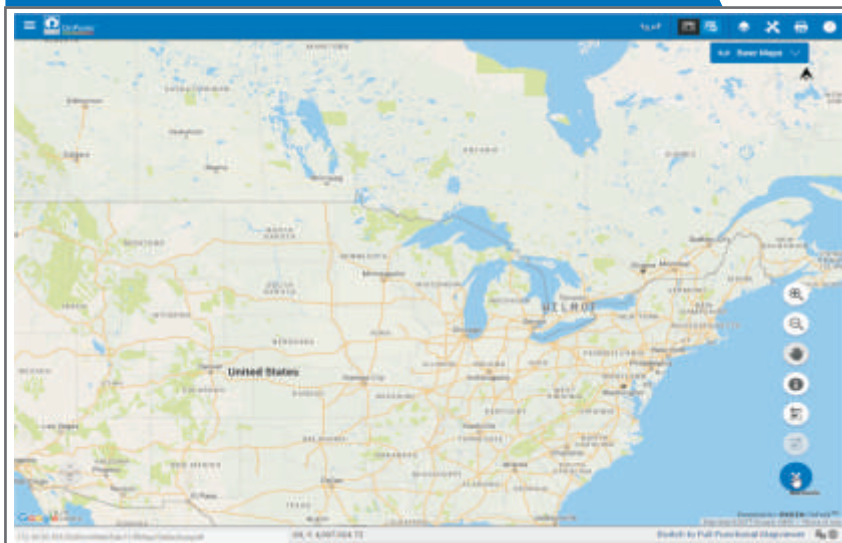
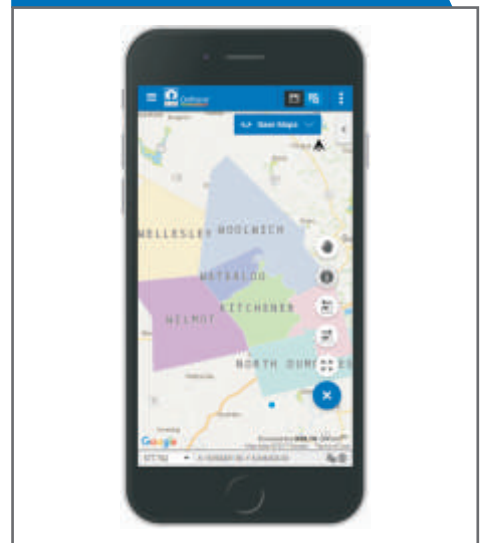


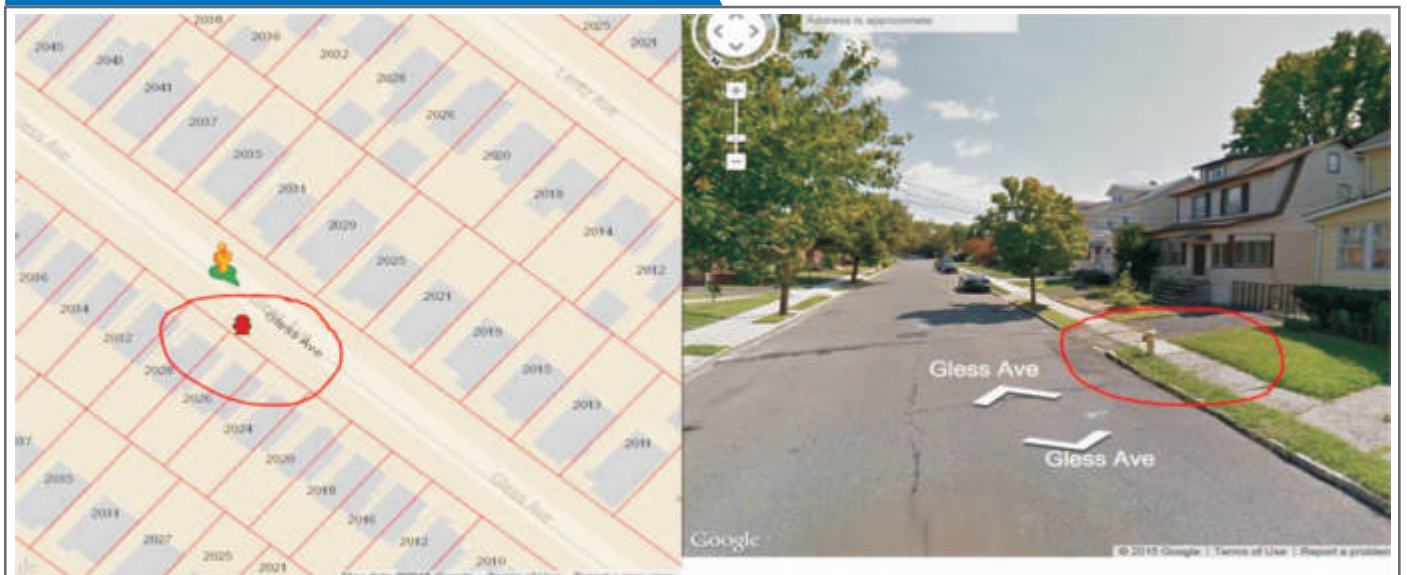
Figure 11: Show Tools on a mobile device



Google Street View Map

This feature allows user to view GIS data consumed from REST-enabled services to be cascaded over 2D Google Maps while the user is in Google Street View mode. This feature is available for both the traditional Mapviewer and the new responsive Mapviewer.

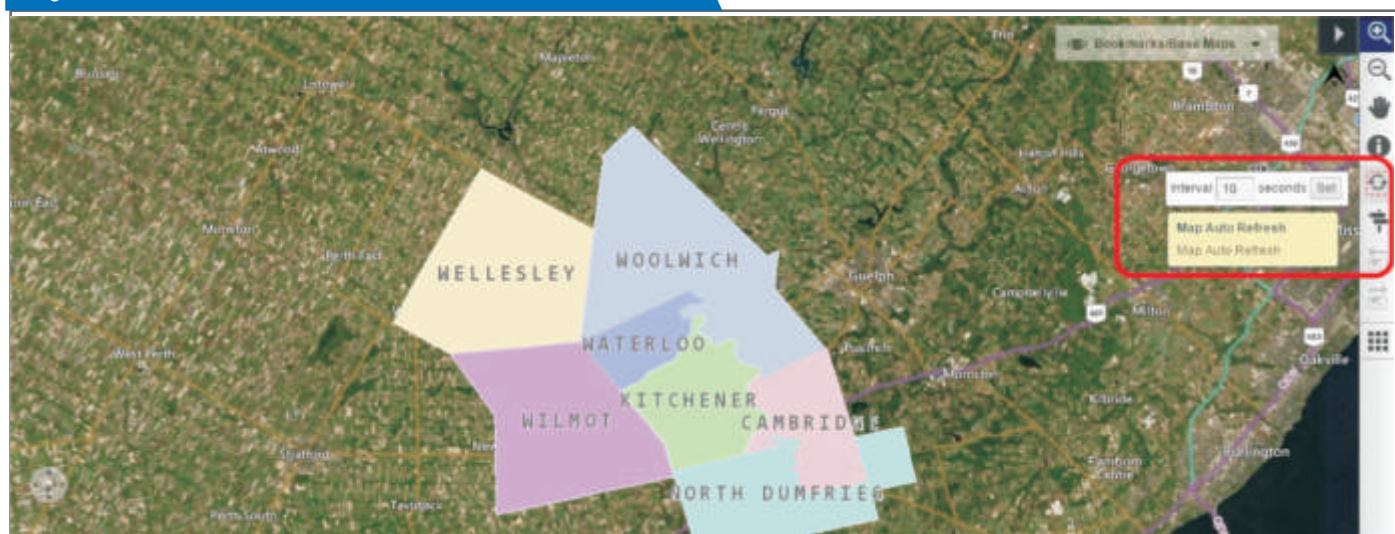
Figure 12: Google Street View



Auto Refresh Tool

An Auto Refresh tool, has been introduced in Rolta OnPoint™ 11.0. User can specify the time-interval after which Mapviewer will auto refresh the map.

Figure 13: Auto Refresh tool



Accessibility of Features on OnPoint™ Embeddable Maps

There are several shortcut keys that user can be used to easily access certain tools in the Mapviewer. These shortcut keys are configurable by the OnPoint™ administrator. The default shortcut keys available are listed in the following table.

Press	To access
ALT + A	Address Search
ALT + P	Previous Map
ALT + I	Identity Tool
ALT + N	Next Map
ALT + H	Web Help
ALT + P	Print

In addition to the shortcut keys listed above, there are other shortcut keys to pan the map. These shortcut keys are configurable by the OnPoint™ administrator. The default shortcut keys available are listed in the following table.

Press	To do the following
UP	Pan north
DOWN	Pan south
RIGHT	Pan east
LEFT	Pan west
CTRL + E	Pan north-east
CTRL + Q	Pan north-west
ALT + E	Pan south-east
ALT + W	Pan south-west

What3Words

What3Words is a geocoding system, where any location (geographic coordinates) is encoded as a unique combination of 3 words. By using words as an identifier, it eases the communication of address thereby obviating the need to remember coordinates in numbers.

Not only OnPoint™ allows users to search for a location by using its unique What3Words address, OnPoint™ also allows users to find the What3Address of a location.

Figure 14: Searching by coordinates

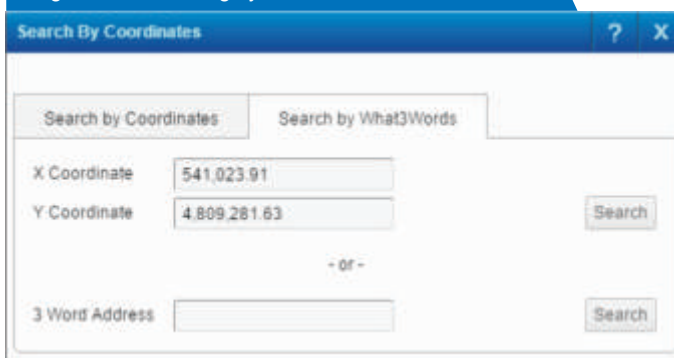
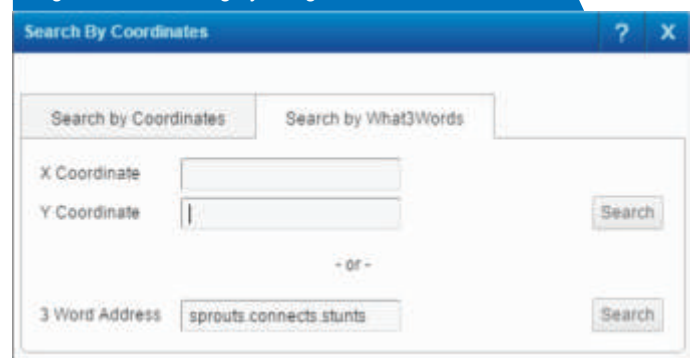


Figure 15: Searching by using a 3-word address



3D Data Viewing

In the traditional Mapviewer, you can view the maps in 3D if you have 3D data. The 3D view presents a different set of map tools to navigate, and perform operations, such as line of sight, area of sight, flood analysis and light placement, on the 3D map. You can view 3D maps by rendering them as point cloud, wire-frames, or textured view. You can switch between these three views by selecting the view types from More Tools. 3D data View is available as a licensable extension to OnPoint™ 11.0.

Figure 16: Point cloud view



Figure 17: Wireframe view



Figure 18: Textured view



The supported operations are:

- **Line of Sight:** Line of sight shows the visibility along a line which falls between two points over the map interface.
- **Area of Sight:** Area of sight shows the visible area from a chosen observer point over the map interface.

Figure 19: Line of Sight



Figure 20: Area of Sight

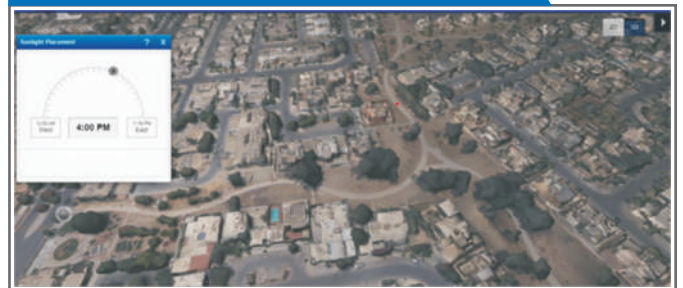


- **Flood Analysis:** Flood analysis shows the area affected due to rising water level from a chosen observer point.
- **Sunlight Placement:** Sunlight Placement shows the area illuminated over the map area due to change in position of sun.

Figure 21: Flood Analysis



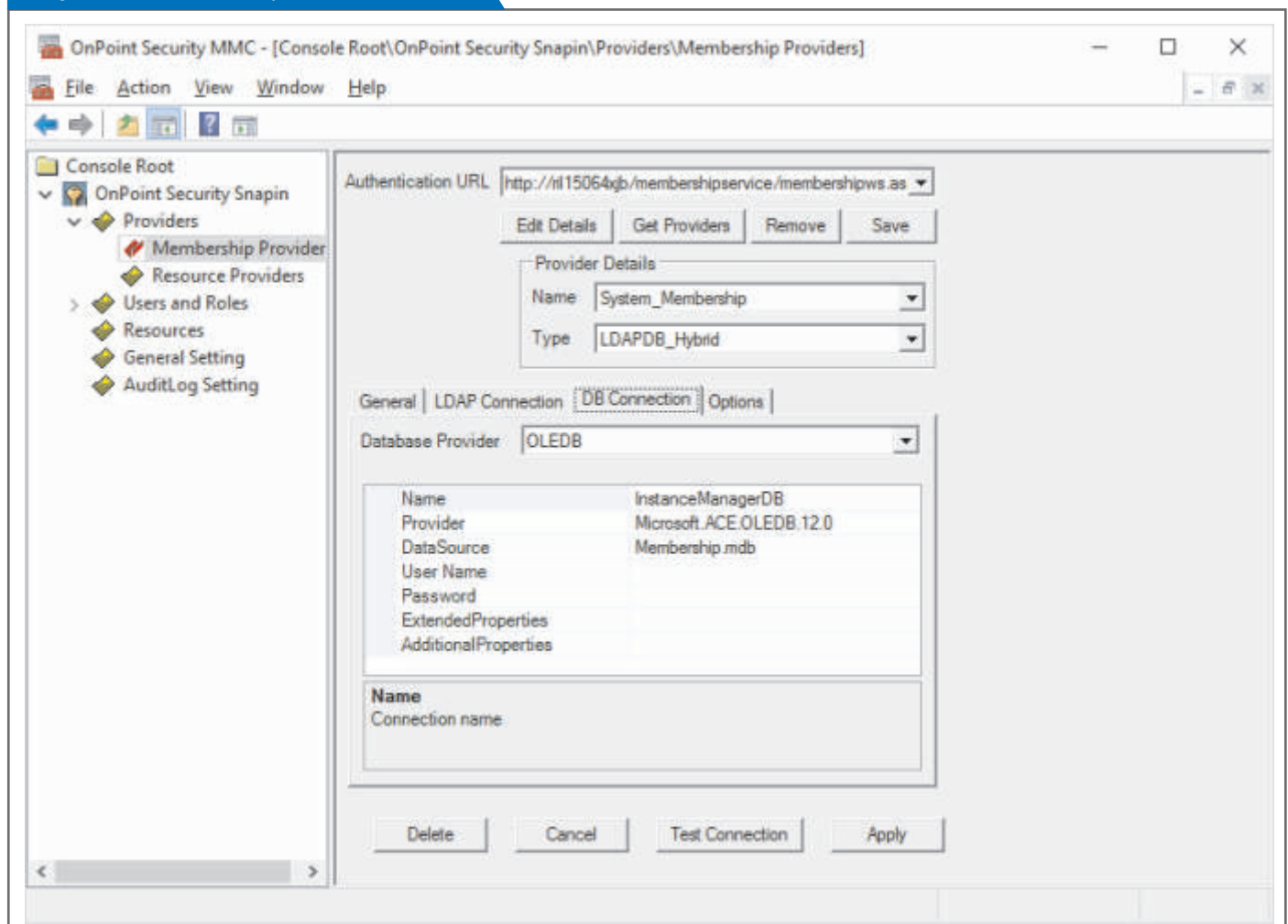
Figure 22: Sunlight Placement



Hybrid LDAP Authentication

Traditionally, OnPoint™ supported users and roles to be in the same membership repository irrespective of whether it is based on database or LDAP. This forced our customers, who were using LDAP for security, to create roles/groups in their corporate active directory. With OnPoint™ 11.0, administrators can use active directory for authentication, and membership database for authorization where they can create groups/roles. OnPoint™ 11.0 provides an option for hybrid system where users can be authenticated using LDAP, and the roles assigned to users can be created in the membership database. This enables users to authenticate and authorize from two different sources.

Figure 23: OnPoint Security Console



Bing Map Upgrades

Version Update

The API for Bing Maps has been updated to v8.0 in OnPoint™ 11.0. The Map URL has also been changed.

Old Map URL

<http://dev.virtualsearth.net/mapcontrol/mapcontrol.ashx?v=6.2>

New Map URL

<http://www.bing.com/mapspreview/sdkrelease/mapcontrol>

Old Non-tiled Map URL

<http://api.tiles.virtualsearth.net/api/GetMap.ashx>

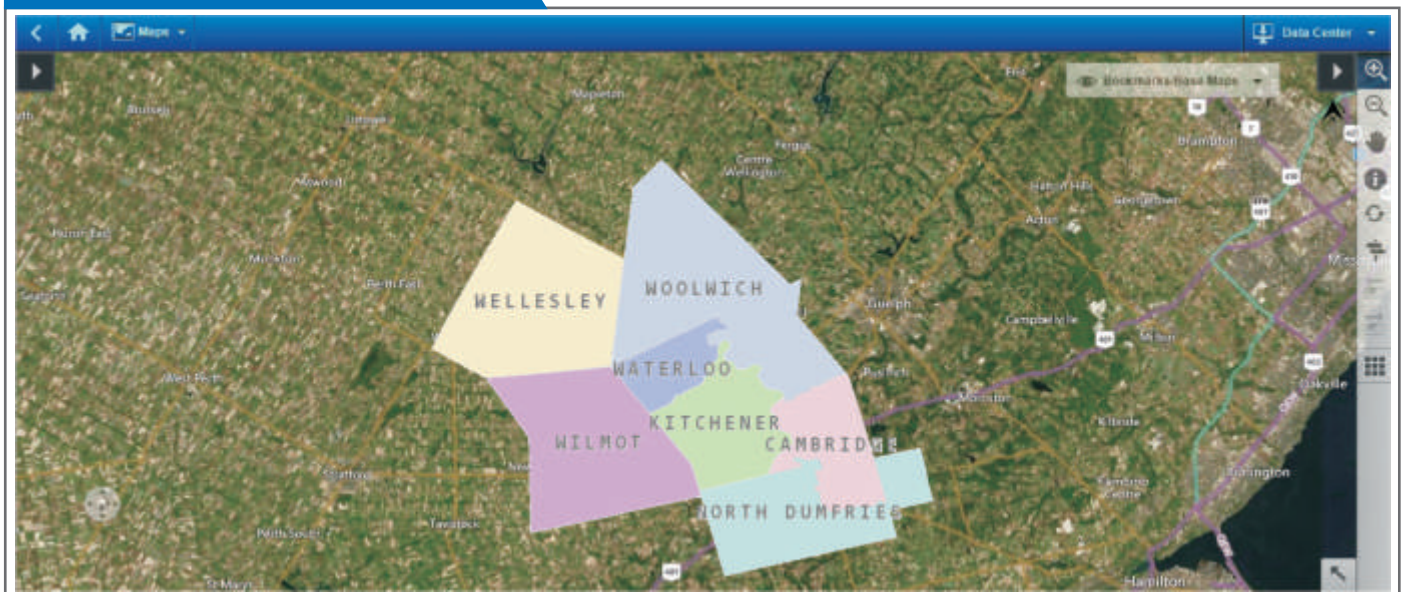
New Non-tiled Map URL

<http://dev.virtualsearth.net/REST/v1>

Bing Map support for Labels

This feature enables the labels on Bing Map in the Aerial view in the Rolta OnPoint™ 11.0 release.

Figure 24: Bing Map with labels



ArcGIS REST Support Enhancements


ArcGIS REST services support has been further enhanced in Rolta OnPoint™ 11.0 to support the following functionalities:

- Editing
- Routing
- Location Service
- Geo-Processing Tasks
- Cartographic Print

Custom Report Template

This feature allows user to customize and adjust HTML Reports template to horizontally align the fields in the report.

Figure 25: Customized HTML report



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 140 Adelaide Parkway, Suite 505
 Markham, Ontario, Canada L3R 0V6

Details of "GAS Wells Class 1"

Objectid 1	Objectid 2	Gas Well Id	Wellid	Reportid	Locked	System	Type	Pump	Pump Size	SourceData	SourceData	SourceData	Wellid	Wellid	Wellid	Thickid	Wellid	Wellid	Maintenance Status Id		
10	10	10-125	YES	125	YES	CLASS 1	GAS EXTRACTION WELL	NO	NA	Gutter Associates S. (GAS) Class 1 Landfill Cells 7-18-2011 Gas Management Expansion	Record Drawing	118.87	118.8	125	0	100	15	87	1		
Maintenance Tasks																					
Well Number		Maintenance Id		Well Id		Flare Id		Equipment Id		Technician Id		Date Of Issue		Start Date		End Date		Locked		Maintenance Status	
125		17462		125						1		4/24/2015 9:44:49 AM		4/1/2015 12:00:00 AM		4/30/2015 11:59:00 PM		False		1	
Well Gas Data																					
NO RECORDS FOUND																					
125		17613		125						1		4/30/2015 9:32:22 AM		5/1/2015 12:00:00 AM		5/31/2015 11:59:00 PM		False		1	
Well Gas Data																					
NO RECORDS FOUND																					
125		18199		125						1		4/30/2015 10:25:27 AM		5/1/2015 12:00:00 AM		5/31/2015 11:59:00 PM		False		1	
Well Gas Data																					
NO RECORDS FOUND																					
Wells (includes 902)																					
Well Id		Flare Id		Pump Id		Well Number		Reportable		Latitude		Longitude		Technician Id							
125		1		14		125		True						1							
View current and historical maintenance tasks (includes 902)																					
Maintenance Id		Well Id		Flare Id		Equipment Id		Technician Id		Date Of Issue		Start Date		End Date		Locked		Maintenance Status		Well Number	
18199		125						1		4/30/2015 10:25:27 AM		5/1/2015 12:00:00 AM		5/31/2015 11:59:00 PM		False		1		125	
Gutter Associates S. (GAS) Class 1 Landfill Cells 7-18-2011 Gas Management Expansion																					
11	11	10-129	YES	129	YES	CLASS 1	GAS EXTRACTION WELL	NO	NA	Gutter Associates S. (GAS) Class 1 Landfill Cells 7-18-2011 Gas Management Expansion	Record Drawing	114.82	114.79	129	0	82	20	84	1		
Maintenance Tasks																					
Well Number		Maintenance Id		Well Id		Flare Id		Equipment Id		Technician Id		Date Of Issue		Start Date		End Date		Locked		Maintenance Status	
129		17534		129						1		4/24/2015 9:44:49 AM		4/1/2015 12:00:00 AM		4/30/2015 11:59:00 PM		False		1	
Well Gas Data																					
NO RECORDS FOUND																					
129		17675		129						1		4/30/2015 9:32:22 AM		5/1/2015 12:00:00 AM		5/31/2015 11:59:00 PM		False		1	
Well Gas Data																					
NO RECORDS FOUND																					
129		18228		129						1		4/30/2015 10:25:27 AM		5/1/2015 12:00:00 AM		5/31/2015 11:59:00 PM		False		1	
Well Gas Data																					
NO RECORDS FOUND																					
Wells (includes 902)																					