

## Version 1.9

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### New and changed features

#### Usability enhancements

The following changes improve the usability of POL:

- Tooltips (notes that appear when you move your mouse over a toolbar button) have changed to provide brief instructions for each tool's use.
- The Preferences dialog has been redesigned to be wider instead of longer so the entire dialog is visible regardless of the size or resolution of a user's monitor.
- The usability of the coverage map query tool has been improved. Users can now right-click a location to see its coverage. A tip reminding users to right-click follows the mouse cursor when it is moved over the map.
- You can make a temporary annotation permanent with the new **Permanent Annotation** toolbar button. This new toolbar button replaces the preference "Measurement Tools Leave Annotations" that made all measurement annotations permanent. (Users who had this preference enabled, will see an informational dialog when they first log in to advise them of this change.)
- If a user searches for an address that takes them outside of the area for which they have images, a map is displayed and the Pictometry button on the Navigation Control becomes unavailable (dim). If a user clicks the Pictometry button, a message notifies them that no images are available. Some buttons (such as navigation buttons) are not applicable to maps.
- POL has a new user preference that allows a user to reverse the direction in which the mouse wheel zooms (in or out).
- The annotation property called "text" has been renamed to "label" in the Properties panel to be more intuitive.

#### 3D Model Tool

The 3D Model Tool allows users to create a 3D model of a roof that they can export for use in an external 3D application.

#### Customer feedback mechanism

Beta and production users can now provide feedback about POL and POL Administration by selecting the Feedback button on the Toolbar and completing a feedback form. They can also rate their overall experience with POL.

#### Ability to view contour lines on images

All users can now view contour lines on their Pictometry images with the Contour lines toolbar button. (The message "Contours not available" will appear if contour lines cannot be displayed because of ownership restrictions on the underlying elevation data.)

### **Improvements to annotations**

Annotations have been improved in the following ways:

- Permanent annotations created from measurement tool results are now dynamic. If a user changes the shape of an annotation, the measurements shown on the Status bar and in the Image window are now updated automatically.
- Users can create permanent annotations from the results of Height and Elevation Tool measurements with the new Permanent Annotations toolbar button.
- Users can now delete a point on a line or shape annotation by selecting an option from a context menu.

### **Image print and export enhancements**

If the "Side/Segment Length" property is selected in Preferences, printed and exported images now show segment lengths for queried parcels.

### **Link to performance tips on login page**

The Login page contains a link to performance tips, such as the list of recommended browsers, supported browsers, and minimum system requirements for running POL. The performance tips also include procedures for clearing the cache and deleting cookies for Mozilla Firefox and Internet Explorer.

### **Query Hotlink feature**

With the new "Query Hotlink" feature, users can use the Query Tool to execute a URL stored in a GIS object. With the Query Tool active, holding down SHIFT and clicking a GIS object executes the URL associated with that object. The linked URL opens and runs in a small window over the Image window. This allows you to see both the linked URL and the GIS data it is linked to.

If customers have previously integrated IPIX images into their GIS data, they can use this feature to open an IPIX image associated with a GIS object. They can also open and execute an application that their GIS data links to.

### **Workspace improvements**

- A rename option has been added to the workspace menu so that users can rename a workspace without using "Save As." (This eliminates the need to create a new workspace and re-share it with contributors and viewers.)
- The workspace can now store read-only reports generated by POL features. Double-clicking a report opens the report. (Users will not be able to change the report file and save the changed version to their workspace.)

### **Query Tool improvements**

The Query Tool has been improved in the following ways:

- It now stays activated after a query is completed instead of automatically switching to the Pan Tool.
- The Query Tool button now has two parts: the left side activates the Query Tool without opening the layer list, and the right side opens the layer list.

## **URL can include address and geocoder parameters**


POL users have another option for passing a location via a URL to another POL user. Users can enter parameters for an address and a preferred geocoder. Valid values for the geocoder parameter (“&g”) are “msn” or “firstam” (MatchPoint). The address parameter (“add”) passes the location’s address.

Example: <http://pol.pictometry.com/en-us/default.php?add=123%20Main%2014620&g=msn>

## **Measurement Pad improvements**

- The message “Out of Synch with Annotations” appears in the Measurement Pad to notify users if measurements have changed since being added to the Measurement Pad. (This applies to measurement results saved as permanent annotations.)
- The Measurement Pad shows roof area measurements taken with the Pitch Tool so that users can add and subtract roof areas. (It does not display pitch measurements.)

## **New Toolbar drop-down list**

The Toolbar now displays a drop-down list of any toolbar buttons that cannot be displayed (because of the browser window’s width, the Sidebar being open, or the resolution of the user’s monitor). To select a button that is not in view, a user clicks  (on the right side of the toolbar) and selects the toolbar button from the list.

## **Bugs fixed**

### **Order of Logout, Admin, and Coverage links now consistent in all applications**

On the POL application Title bar, the order of the Logout, Admin, and Coverage buttons is now the same in all applications.

### **Unexpected behavior when print button clicked while viewing a map**

Problems occur if a user clicks the “print current image” button while they are viewing a map in an area where there is no image coverage. To avoid this, the “print current image” button is now disabled when a user is not viewing an image.

### **Search result on customer’s parcel layer yields undesirable fill opacity**

The fill opacity set in the Administrative interface is not being used when a user searches for a parcel. For example, if the layer is configured for a fill opacity of 0% and a user searches for a parcel with the layer turned off in the workspace, the parcel is shaded with an opacity greater than 0%.

### **Measure XYZ tool does not work on tall buildings**

The Measure XYZ tool does not work when a user tries to measure a tall skyscraper.

## Version 1.8

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### New and changed features

#### **New POL login page**

POL has a new login page, which contains better graphics and links to important items such as POL release notes and a practice area.

**Note:** Self Hosting customers will use the current POL login page until branding on the new login page can be addressed.

#### **Practice area**

To help users learn POL, this version includes the ability to log in to a practice area so users can practice without using hours or sessions. There is no time limit and concurrent user accounts are not affected.

Users log in to the practice area from the POL Login page by entering their normal credentials. The practice area opens a fully featured POL application with access to a small geographic area. POL Online Help documentation is available for assistance.

To switch from the practice area to POL, users should log out and then log in to POL from the login page. Once logged-in to POL, time and session limits apply as they normally do.

#### **Street labels on images**

For greater usability, POL images are now automatically overlaid with street names. A user preference has been added to the Preferences dialog so that users can disable (or enable) street name labeling. Users can also toggle street layers on and off (without opening Preferences) by clicking the "Toggle Street Labels" button (under Preferences). The button is synchronized with the Preferences option so that a change to one affects the other.

#### **Measurement Pad for calculations on measurement results**

*This is a Beta feature. This first version of this feature includes most or all of the intended functionality, but may also include some known issues and minor bugs. We welcome your feedback about this feature. To send us your comments, please contact Customer Support (domestic customers), or your Pictometry Representative (international customers). Thank you.*

Users can now perform calculations on measurements taken from the same measurement tool with the new Measurement Pad. As a user completes a measurement, its results are listed automatically in the Measurement Pad window. A list item can be added or subtracted. Each item has a checkbox so it can be ignored when the calculation is computed, if desired. Line items can also be exported to Excel to be used in estimates.

By default, the Measurement Pad window is automatically cleared when the user takes a measurement with a new measurement tool, but this feature can be overridden by clearing the "AutoClear measurements on tool change" checkbox in the Measurement Pad. Activating the Pan Tool does not cause the Measurement Pad to be cleared.

#### **Usability improvements**

The following changes have been made to improve the usability of POL:

- Display measurements as temporary annotations. In addition to appearing in the Status bar, measurement results are now displayed as temporary annotations on images and maps.
- Automatically annotate dimensions of property lines and segment lengths when a user measures area or queries a parcel layer if the new “Side/Segment Length” option is checked in Preferences.
- The perimeter of parcels is now calculated and shown in the Status Bar.
- Parcels automatically highlighted after an address search.
- Ability to change result unit of measure without re-measuring. If a user changes the units on the Preferences dialog after measuring, the Image window and Status Bar show the new units immediately.
- Ability to move the Sidebar to the right side by setting a preference. (A browser re-load or refresh is required for the change to be visible.)
- Ability to justify text in annotations by selecting “left,” “center,” or “right” for the new “alignment” annotation property. Justification is relative to the point the user clicks when creating the text annotation. The default is right justified.
- For marker annotations that are linked to an image, single-clicking the marker opens the image and double-clicking it opens the information box.

### **Improved process for creating and changing annotations**

The process of creating and changing annotations has been significantly improved. Here is a summary of the changes:

- The procedures are now the same on both images and maps.
- The appearance of annotations in editing mode is the same on images and maps.
- When a (line, shape, circle, or text) annotation is selected in the Image window, “editing marks” are shown on each waypoint as they were before. However their appearance has changed. They are now shown as small white circular icons.
- For line and shape annotations, a dim editing mark appears in the middle of each line segment. Users can drag an editing mark to create a new waypoint, thereby changing the shape of the line or polygon.
- You can now move text annotations on both maps and images.
- You can resize a circle by dragging an editing mark. (Previously, to resize a circle you had to change its radius property.) The editing mark appears on the circle’s circumference when you click the circle in the Image window.

**Note:** The ability to rotate and resize shape annotations on a map has been temporarily disabled.

### **Ability to print images**

A new toolbar button has been added so you can print the current image. The printout shows the image, a title you enter, the image capture date, and shot level. It does not include the workspace.

**Note:** Street labels do not appear on printed images at this time.

### **KML Import enhancements**

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The following KML import functionality has been added to POL:

- KML files can be imported from a local machine.
- KMZ files can now be imported.
- Improved KML import error handling. (If a user encounters an error when importing a KML file, an error message is displayed.)
- The file size is checked for KML files imported via a URL. A KML file must be 2MB or smaller. (Users will be warned if the KML files cannot be loaded.)
- Imported KML layers are stored in a new annotations sub-folder named for the imported KML file. Features are stored underneath the new folder.
- Custom placemark attributes in KML files are now supported.

**Note:** KML import is available for users of POL Full only.

### **Exporting to KML**

POL can now export the following in KML format so they can be used in Google Earth:

- **Images.** To support this, two new KML file formats have been added to the File Type list on the Options tab of the Preferences dialog. Depending on a user's preferences, the image date, North Pointer, and annotations will be exported with the image.
- **Annotations alone.** All annotations in the same folder are exported to the same file.

### **Dual Pane Mode, XYZ Measurement and Slope Tool**

There are three new buttons in the Toolbar:

- Toggle Dual Pane Measurement Mode
- Start Slope Measurement
- Measure XYZ Coordinate

With Dual Pane Measurement Mode, a user can navigate with an image in each pane or with an image in one pane and the corresponding map in the other. As you pan one image or map, the other is synchronized geographically.

If either the Slope Tool or the Measure XYZ Coordinate Tool is selected, POL automatically activates dual Pane Measurement Mode, which is required to use these tools. Both of these tools have prompts to assist the user with the measurement. Please refer to the Online Help system for more detail.

### **Magnifier Tool**

The new Magnifier Tool allows users to magnify a small area on an image. Clicking the Magnifier Tool (or the "M" key) activates or deactivates a small magnified rectangular area, which follows the movement of the mouse. The part of the image under the rectangle is magnified. Activating the tool after starting a measurement enables a user to more precisely pinpoint the location to click.

### **Ability to measure area using Height Tool and CTRL key**

In POL, users can now measure area with the Height Tool by clicking the CTRL button and dragging sideways. This is useful for calculating the area of the side of a building for example. Free-form area is not supported at this time.

### **Auto Zoom is no longer Beta**

The Auto Zoom feature is now a production feature; it is no longer Beta. This feature is defaulted to OFF by default, but can be enabled by selecting "Auto" on the Navigation Control.

### **Coverage overlays available**

Users can now view image coverage by geographic area on a coverage map. The map is accessed from the POL login page or from the POL application. Users can view coverage for Community and Neighborhood imagery individually or in combination. A different color shades each type of imagery.

### **Ability to access multiple geocoders**

POL users can now access multiple geocoders, including ArcGIS geocoders.

### **"Fopacity" property renamed to "Fill Opacity"**

The "Fopacity" property has been renamed to "Fill Opacity." This pertains to shape and circle's annotations.

## **Bugs fixed**

### **Geocoder search not working for self-hosting installs**

For self-hosting customers, the MySQL data insert script was missing some records for geocoder searches. Records in "search\_type\_replacements" needed to be created for MySQL and the order by phrase "score(1)" needed to be nulled out. The initial MySQL database population script has now been updated with correct values for "search\_type\_replacements."

### **Switching from coverage map back to POL should retain location**

When a user navigates from the coverage map to a POL image, POL now keeps the same location and zoom setting that was in display before navigating.

### **Clicking a marker gives inconsistent results**

POL behavior was inconsistent when a marker was clicked. Sometimes the marker was selected and sometimes the Information box opened.

### **Exporting once caused "save as" dialog to appear more than once**

If a user exported or extracted an image and navigated to another location, a "Save as" dialog unexpectedly appeared during the same session. This affected Internet Explorer 8 and FireFox 3.6 users.

### **Point layers with custom point icon distinguished from line layers in workspace**

Layers that use custom point icons are now identified in the workspace by a point or circle to distinguish them from line layers.

**Circle fill permeates to other images**

Issues with bleed through of a circle's fill color have been fixed.

**Pointer accuracy**

The accuracy of points clicked with POL tools has been improved.

**Panning while using the Height Tool caused odd behaviors**

Panning and pressing the SHIFT key while using the Height Tool caused odd behaviors to occur when the Show Plumb Line option was checked in Preferences.

**Improved behavior when location parameters passed to default.php**

In POL (including SH-POL), it is possible to pass latitude, longitude, shot level, etc. as parameters to default.php, causing the browser to load the imagery specified in those parameters. Currently, if a shot level is specified and there are no images for that level, POL displays the "no image found" icon, even if there is imagery for another level at that location. This has been fixed by displaying the "closest match" imagery for the location if imagery of the specified type, level, etc., is not available at that location.

**Subsequent Ortho misaligned after user navigates**

When a user exported or extracted an Ortho image with the "Entire image" preference unchecked, POL exported the current image cropped correctly to what was visible in the browser window. However, if the user navigated to another image and exported it during the same session, the exported image showed a different geographic area than that shown in the browser window. This problem has been fixed.

**Better labeling of perimeter measurement in Status Bar**

When using the Distance Tool to measure perimeter, the Status Bar now shows a more descriptive label: "Perimeter: <measurement> <units of measure>"

**Auto Navigate needs page refresh to take effect**

A page refresh is no longer needed in order for the "Auto Navigate" option (Preferences > Advanced tab) to take effect.

**Height Tool: Plumb line and Leave Annotation options conflict**

The "Show Plumb Line" and "Measurement Tools Leave Annotations (Beta)" options conflict with each other. If both are enabled, the Height Tool does not create annotations. This has been noted in the Help documentation.

**Workspace Share - Initial load of list persists through changes**

The issues with search term and share status persistence on the Sharing dialog (when sharing a workspace with another user) have been fixed.

**WFS Geocoder search does not use Or-Equal-To when comparing numbers**

POL geocoder searches against WFS layers were not using "or-equal-to" logic. For example, if searching a road segment that has a RightFrom=1 and RightTo=20 for Main St, and the user entered "20 Main", POL would not find the record because it was checking greater than 1 and less than 20. POL now checks GreaterThanOrEqualTo and LessThanOrEqualTo.

### **Message indicating no more images**

If a user attempts to view a different orientation of an image, POL substitutes another orientation if no images exist for the requested orientation. It also displays the message “Navigation Change” in the information box in the Image window. In some cases, “Navigation Change” was incorrectly displayed with a blank screen when no alternative images were available. This has been fixed. If there are no images to display, the message “Requested image is not available” will appear on the Status Bar.

### **Internet Explorer problems logging into an out of POL**

The following problems logging in and out of POL with Internet Explorer have been resolved:

- **Internet Explorer prevents login.** Some Internet Explorer users are unable to log in to POL. Instead of opening the default.php page, they are returned to the login page.
- **POL hangs on login with IE.** POL occasionally hangs when a user logs in with Internet Explorer. Refreshing or stopping the browser can resolve the problem after the IE '[object error]' message is cleared. This problem sometimes occurs when a user changes to POL from the Administration or Coverage sites.
- **Error if user logs out with unsaved workspace.** If a user attempts to log out with an unsaved workspace, an IE error is generated.
- **IE Error is generated if circle annotation is present.** Navigating back to POL from the Administrative or Coverage sites caused an Internet Explorer error when the POL workspace contained circle annotation. This did not occur if POL is accessed from the Login page.

## **Version 1.7**

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### **New and changed features**

#### **Return to last location**

The Options tab of the Preferences dialog contains a new option: “Return to last location.” If this option is checked, POL opens the last location viewed instead of the normal starting location. (For Full POL users, if “Open last workspace on restart” is checked, then the last workspace opens. If it contains a bookmark, POL opens the first bookmarked location, if there is one).

This feature provides a handy way to return to the last location viewed when a user:

- logs out
- is logged out because the session timed out
- is logged out by the Administrator
- navigates away from POL (for example to the Administration site)

It’s also helpful for Lite POL users as a way of bookmarking the last location they viewed.

#### **Detailed POL version information available**

POL version information is now available in POL. The Help button now has a menu with two options:

- **Help Contents** (launches the Help system)
- **About** (launches a dialog that contains the POL version and release numbers—1.7.1 for example, versus just 1.7).

### **Cache management**

Users no longer need to clear their cache before using a new release of POL. (With prior releases, odd results sometimes occurred if the cache was not cleared.)

### **Layers are disabled in workspace when they cannot be drawn**

For performance reasons, POL does not show high density layers when an image is zoomed out to certain levels. As a visual cue, the layers are dimmed and their checkboxes are disabled in the workspace when they cannot be displayed. For example, layers cannot be drawn is when a high density layer needs to be shown over a Community image. When the zoom level reaches a point at which the layer can again be rendered, the layers will re-appear on the image and will no longer be dimmed in the workspace.

### **Visible cue when navigating off an image**

The white “Walking man” symbol that appears when you pan to the edge of an image is now displayed on a black border when you go past the image boundaries. This allows the symbol to be visible against the white background that appears around the image boundaries.

### **Account expiration and hours alerts**

Users will be notified via a pop-up notification of pending account expiration under the following conditions:

- A single notification when expiration is in less than 60 days
- A single notification when expiration is in less than 30 days
- A notification on every login when expiration is in less than 15 days

The following message is presented to users: “Your Pictometry Online account is due to expire on [date]. Please contact your Pictometry Online administrator.”

Users who are hourly will get notified via a pop-up as well when hours or days remaining are less than 20% of the purchased amount. The following message is presented to users: “Your Pictometry Online account has [n] [hours/days] remaining. Please contact your Pictometry Online administrator.”

## **Bugs fixed**

### **Area of a circle units label correct but value is not**

In the Status Bar, the area of a circle was labeled correctly, based on what the user selected for "Area Units" on the Units tab of the Preferences dialog; however, the measurement was shown in the unit selected for "Distance Units. The Status Bar now correctly displays both the label and the measurement in the unit selected for "Area Units" on the Preferences dialog.

### **Improved error message when login fails**

If a user enters incorrect credentials when logging in, an Ajax error occurs and the login fails. A more descriptive message now appears to indicate the reason for the failure.

**Radius of a circle is always in meters**

The radius of a circle, as displayed in the Properties panel was always shown in meters (despite what a user selected for units on the Properties dialog). This is now fixed to reflect a user's preferences. The radius now appears in the unit of measure selected on the Units tab of the Properties dialog.

**Status Bar incorrect when radians selected for units**

The Status Bar reported location and angle measurements in degrees, even if radians was selected on the Units tab of the Preferences dialog. This has been fixed to show the correct Location Units and Angle Units as selected on the Preferences dialog.

**Input and display of lat/long in degrees/minutes/seconds**

Previously, users could select degrees/minutes/seconds for the coordinate format, but they could not enter coordinates in this format when searching by lat/long or when changing an annotation's location in the Properties panel. Now users can enter coordinates in whichever format they select on the Units tab of the Preferences dialog. In addition, the Status bar displays coordinates in the selected format when the Location Tool is used.

**Upper case becomes lower case on workspace save**

When a workspace is saved, the case of the workspace name is now preserved. Previously, if the workspace name contained capital letters, the capital letters were converted to lower case.

**Temporary annotation and zooming**

The temporary annotations left by measurement tools were not disappearing when you zoomed out or in. This is now fixed.

**Home button failed to re-center the Navigation window map**

The map in the Navigation window is now refreshed when you click the Home button after searching for a location in a different image than your home location's image.

**Incorrect bounding box calculation for layer display**

Bounding box calculations used for displaying GIS layers have been corrected. This bug might not have been noticeable to users.

**Switching from Coverage to POL forgets the "Remember Me" setting on login page**

The "Remember Me" setting on the login page was deselected when users navigated from Coverage to POL. The "Remember Me" setting is now saved regardless of how a user navigates between pages.

## Version 1.6.10.9

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### New and changed features

#### **Beta Auto Zoom to Bing**

This feature allows for a continuous transition (for both zooming in and out) from the Pictometry oblique imagery to the orthogonal Bing imagery. This feature is off by default and can be turned on via the Navigation Control (by clicking the "Auto" tab) or via Preferences.

**Note:** *This is beta functionality as we are looking for feedback from users.*

#### **Beta Improved markers and marker interface**

There are a number of new markers that have been added for this release. Also the marker window is no longer a drop down but a small floating window that contains four different categories of markers: Vehicles, Markers, Signs, and Classic.

**Note:** *This is beta functionality as we are looking for feedback from users.*

#### **Ability to navigate previously viewed images**

Above the workspace panel, towards the upper left hand area of the screen, there are now 3 new buttons. There is a left arrow and a right arrow, used to navigate the images both backwards and forwards that you have recently viewed. Also, there is a home button that will bring you back to your starting location.

#### **Shape Tool Name**

The Shape Tool produced annotations labeled "Area." In order to make it more intuitive, the annotations are now labeled "Shape".

### Bugs fixed

#### **Area measurement returns nautical miles instead of acres**

When selecting "Acres" in preferences and then doing an area measurement, the measurement gets returned in nautical miles not acres.

#### **Bookmark doesn't stay on correct zoom**

When a user goes to a bookmark, they don't stay at same zoom as they were before they went to the bookmark. This has now been resolved.

#### **Default zoom level on Roadmap is too high**

The default zoom has been scaled back to provide a better street level view of the map.

#### **Improved bookmark behavior**

We now have the ability to reference a specific image without the problem of the reference to the image changing over time. Before this release, bookmarks were not guaranteed to reference the correct image over time.

# **Pictometryonline** Release Notes

## **Polygon tool when set on acres does not return an area measurement**

When a user obtains an area measurement using the Polygon tool, and then changes the units of that measurement to acres, the measurement would then return 0. This has been fixed.

## **Geocode searching not available with layers accessed through a WFS Service**

Geocode searching was not available with layers accessed through a WFS Service, but that has been remedied in this release.

## **Maximum cookie size**

Unpredictable behaviors sometimes occurred if the maximum cookie size was exceeded when using POL with Internet Explorer 6 or 7. This has now been fixed.