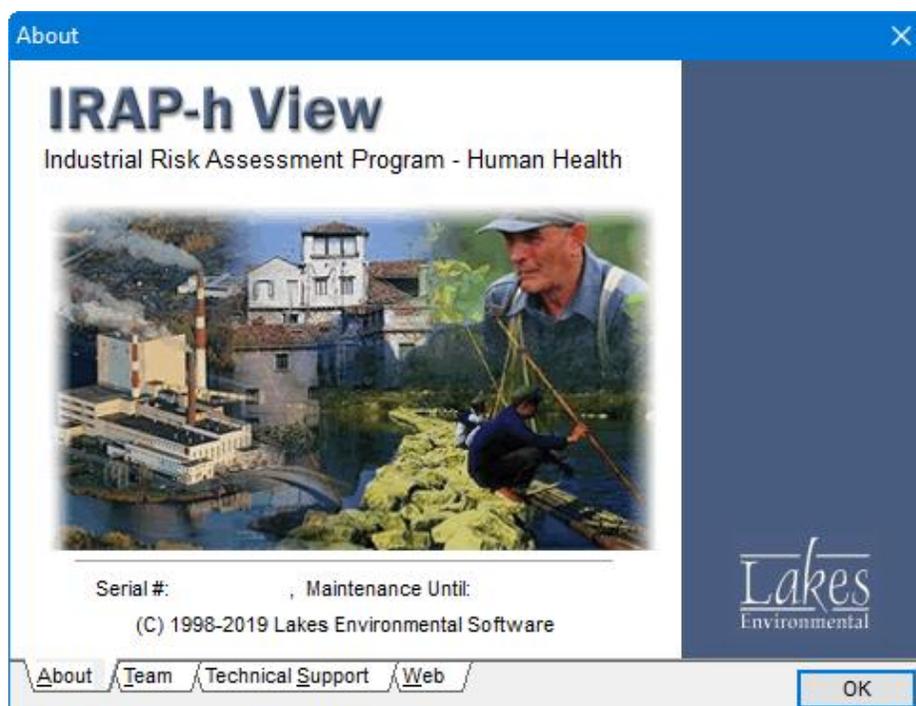


# IRAP-h View™

Industrial Risk Assessment Program – Human Health

## Release Notes

Version 5.0 & 5.1



Lakes Environmental Software  
Tel: (519) 746-5995 – Fax: (519) 746-0793  
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# IRAP-h View™ Version 5.1

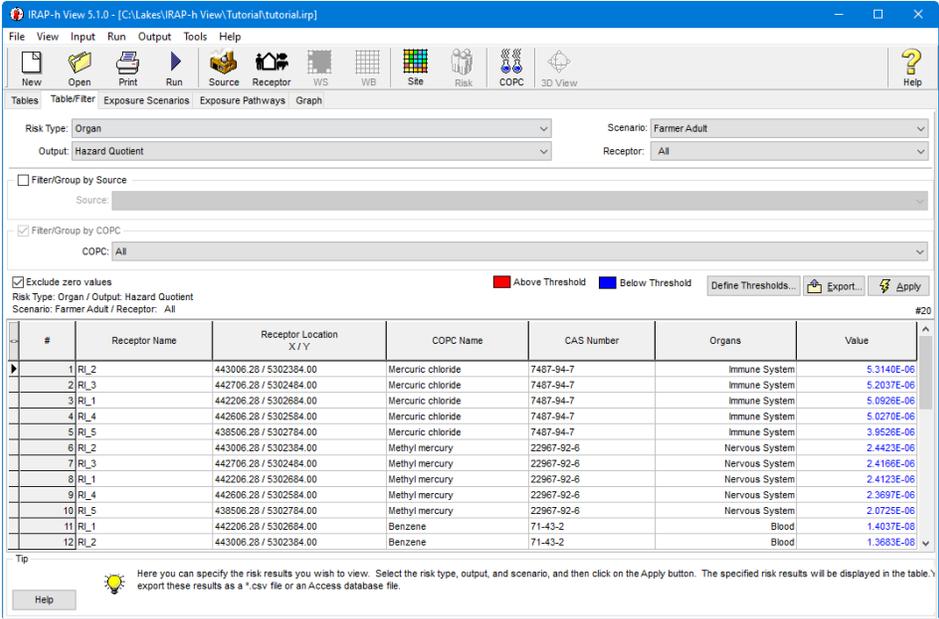
## Release Notes

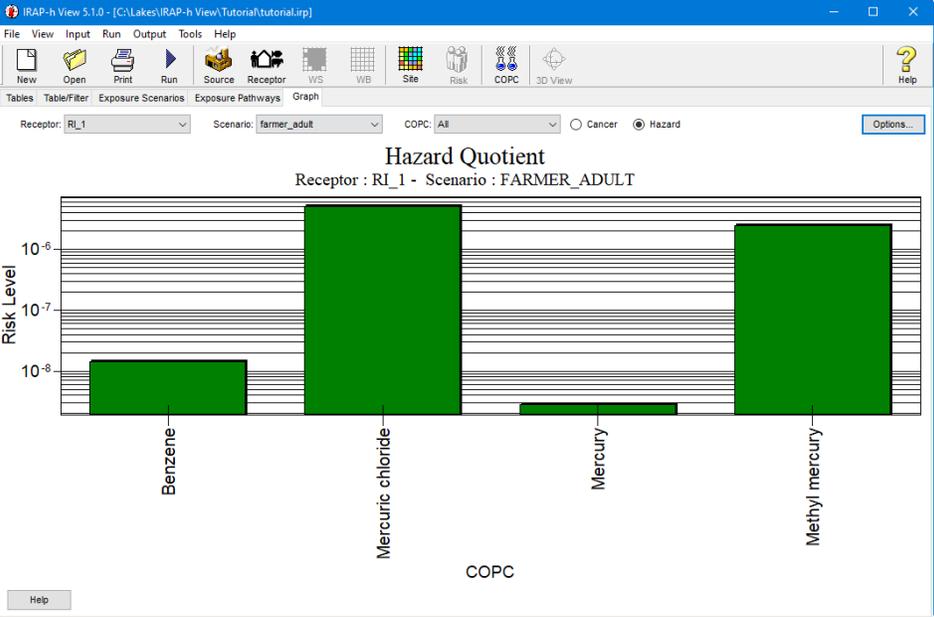
November 19, 2019

### New Features

Topic	Feature Description
Install	<p><b>Digital Signature Included</b></p> <p>Lakes Environmental is digitally signing our commercial product installations for additional security.</p>

### Fixed Issues

Topic	Feature Description																																																																																											
Table Filter	<p><b>Organ Risk Type Table Update</b></p> <p>Some projects were unable to properly produce Tables for the Organ Risk Type. This has been resolved.</p>  <p>The screenshot shows the IRAP-h View 5.1.0 interface. The 'Risk Type' is set to 'Organ' and the 'Output' is 'Hazard Quotient'. The 'Scenario' is 'Farmer Adult' and the 'Receptor' is 'All'. The table below shows the results for 12 receptors, including their locations, COPC names (Mercuric chloride, Methyl mercury, Benzene), CAS numbers, and organ values.</p> <table border="1"> <thead> <tr> <th>#</th> <th>Receptor Name</th> <th>Receptor Location X/Y</th> <th>COPC Name</th> <th>CAS Number</th> <th>Organs</th> <th>Value</th> </tr> </thead> <tbody> <tr><td>1</td><td>Rl_2</td><td>443006.28 / 5302384.00</td><td>Mercuric chloride</td><td>7487-94-7</td><td>Immune System</td><td>5.3140E-06</td></tr> <tr><td>2</td><td>Rl_3</td><td>442706.28 / 5302484.00</td><td>Mercuric chloride</td><td>7487-94-7</td><td>Immune System</td><td>5.2037E-06</td></tr> <tr><td>3</td><td>Rl_1</td><td>442206.28 / 5302684.00</td><td>Mercuric chloride</td><td>7487-94-7</td><td>Immune System</td><td>5.0926E-06</td></tr> <tr><td>4</td><td>Rl_4</td><td>442606.28 / 5302584.00</td><td>Mercuric chloride</td><td>7487-94-7</td><td>Immune System</td><td>5.0270E-06</td></tr> <tr><td>5</td><td>Rl_5</td><td>438506.28 / 5302784.00</td><td>Mercuric chloride</td><td>7487-94-7</td><td>Immune System</td><td>3.9526E-06</td></tr> <tr><td>6</td><td>Rl_2</td><td>443006.28 / 5302384.00</td><td>Methyl mercury</td><td>22967-92-6</td><td>Nervous System</td><td>2.4423E-06</td></tr> <tr><td>7</td><td>Rl_3</td><td>442706.28 / 5302484.00</td><td>Methyl mercury</td><td>22967-92-6</td><td>Nervous System</td><td>2.4166E-06</td></tr> <tr><td>8</td><td>Rl_1</td><td>442206.28 / 5302684.00</td><td>Methyl mercury</td><td>22967-92-6</td><td>Nervous System</td><td>2.4123E-06</td></tr> <tr><td>9</td><td>Rl_4</td><td>442606.28 / 5302584.00</td><td>Methyl mercury</td><td>22967-92-6</td><td>Nervous System</td><td>2.3697E-06</td></tr> <tr><td>10</td><td>Rl_5</td><td>438506.28 / 5302784.00</td><td>Methyl mercury</td><td>22967-92-6</td><td>Nervous System</td><td>2.0725E-06</td></tr> <tr><td>11</td><td>Rl_1</td><td>442206.28 / 5302684.00</td><td>Benzene</td><td>71-43-2</td><td>Blood</td><td>1.4037E-08</td></tr> <tr><td>12</td><td>Rl_2</td><td>443006.28 / 5302384.00</td><td>Benzene</td><td>71-43-2</td><td>Blood</td><td>1.3683E-08</td></tr> </tbody> </table>	#	Receptor Name	Receptor Location X/Y	COPC Name	CAS Number	Organs	Value	1	Rl_2	443006.28 / 5302384.00	Mercuric chloride	7487-94-7	Immune System	5.3140E-06	2	Rl_3	442706.28 / 5302484.00	Mercuric chloride	7487-94-7	Immune System	5.2037E-06	3	Rl_1	442206.28 / 5302684.00	Mercuric chloride	7487-94-7	Immune System	5.0926E-06	4	Rl_4	442606.28 / 5302584.00	Mercuric chloride	7487-94-7	Immune System	5.0270E-06	5	Rl_5	438506.28 / 5302784.00	Mercuric chloride	7487-94-7	Immune System	3.9526E-06	6	Rl_2	443006.28 / 5302384.00	Methyl mercury	22967-92-6	Nervous System	2.4423E-06	7	Rl_3	442706.28 / 5302484.00	Methyl mercury	22967-92-6	Nervous System	2.4166E-06	8	Rl_1	442206.28 / 5302684.00	Methyl mercury	22967-92-6	Nervous System	2.4123E-06	9	Rl_4	442606.28 / 5302584.00	Methyl mercury	22967-92-6	Nervous System	2.3697E-06	10	Rl_5	438506.28 / 5302784.00	Methyl mercury	22967-92-6	Nervous System	2.0725E-06	11	Rl_1	442206.28 / 5302684.00	Benzene	71-43-2	Blood	1.4037E-08	12	Rl_2	443006.28 / 5302384.00	Benzene	71-43-2	Blood	1.3683E-08
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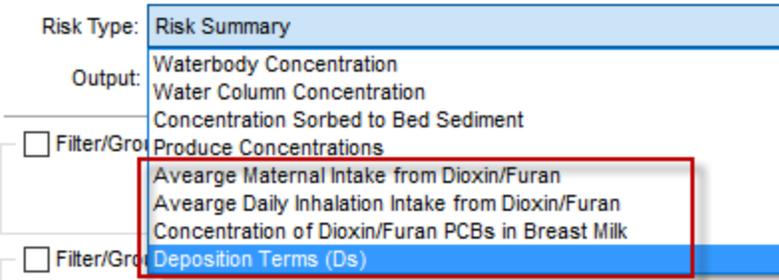
Topic	Feature Description										
<p><b>Graph</b></p>	<p><b>Intake and Inhalation Risk Included</b></p> <p>In the previous release, the Graph only included Intake. The update now includes both intake and inhalation risk as a sum.</p>  <table border="1"> <caption>Hazard Quotient Data</caption> <thead> <tr> <th>COPC</th> <th>Risk Level (approximate)</th> </tr> </thead> <tbody> <tr> <td>Benzene</td> <td>1.5 × 10<sup>-8</sup></td> </tr> <tr> <td>Mercuric chloride</td> <td>4.0 × 10<sup>-7</sup></td> </tr> <tr> <td>Mercury</td> <td>2.0 × 10<sup>-8</sup></td> </tr> <tr> <td>Methyl mercury</td> <td>2.5 × 10<sup>-7</sup></td> </tr> </tbody> </table>	COPC	Risk Level (approximate)	Benzene	1.5 × 10 <sup>-8</sup>	Mercuric chloride	4.0 × 10 <sup>-7</sup>	Mercury	2.0 × 10 <sup>-8</sup>	Methyl mercury	2.5 × 10 <sup>-7</sup>
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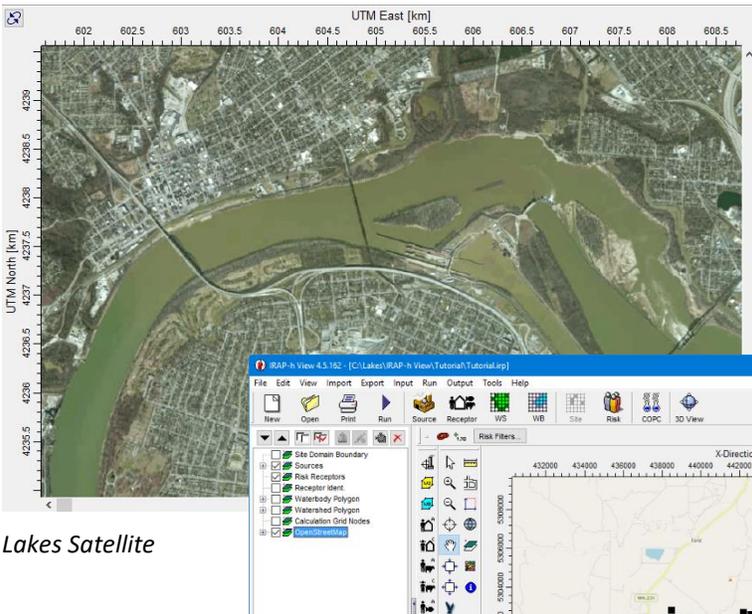
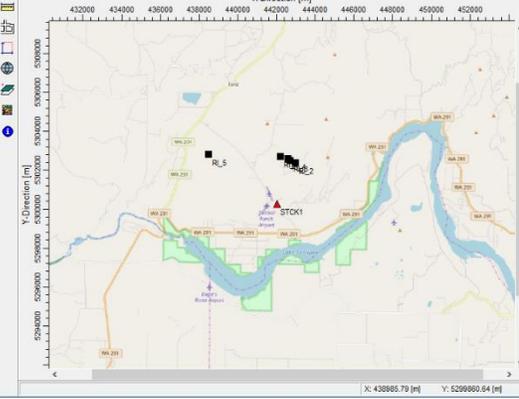
# IRAP-h View™ Version 5.0

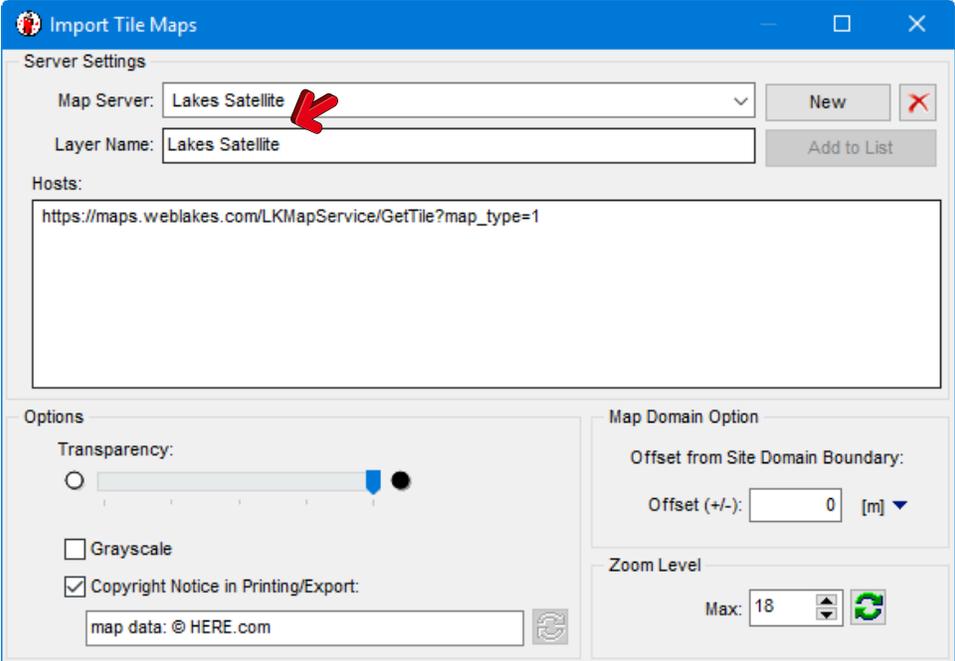
## Release Notes

April 4, 2018

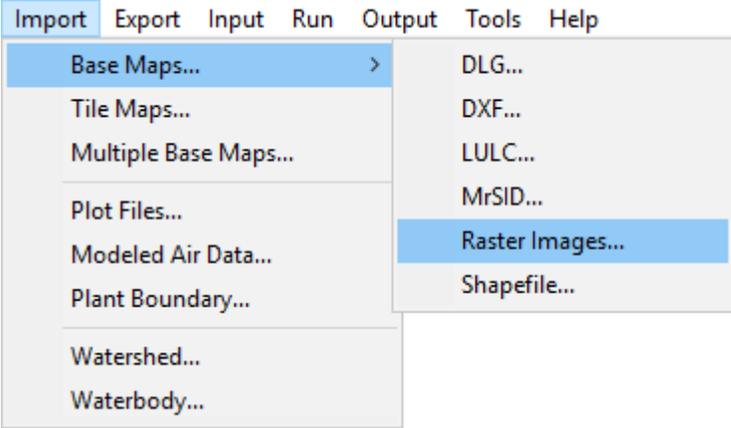
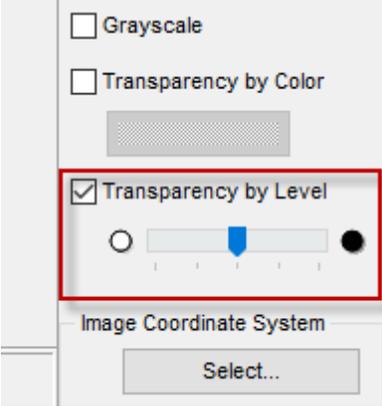
### New Features

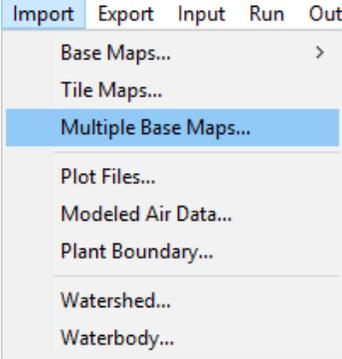
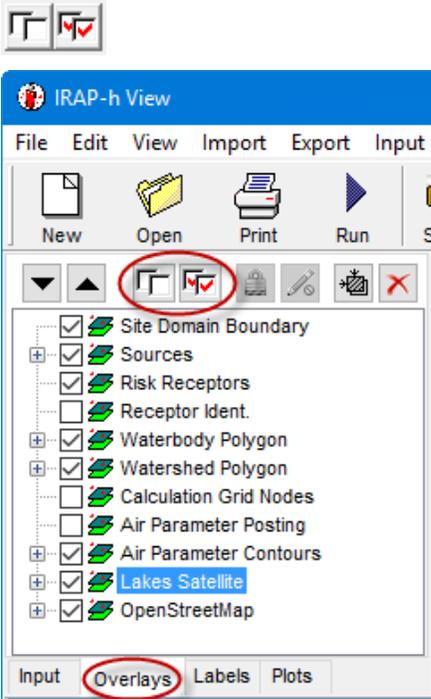
Topic	Feature Description
<p><b>Risk Types</b></p>	<p><b>New Risk Types Available</b></p> <p>The <b>Risk Types</b> list was expanded to include the following:</p> <ul style="list-style-type: none"> <li>• Average Maternal Intake from Dioxin/Furan</li> <li>• Average Daily Inhalation Intake from Dioxin/Furan</li> <li>• Concentration of Dioxin/Furan PCBs in Breast Milk</li> <li>• Deposition Terms (Ds)</li> </ul> 
<p><b>Site Parameters</b></p>	<p><b>Updated Site Parameters Tables</b></p> <p>Additional parameters have been added to the various <b>Site Parameters</b> tables for increased visibility of default values and removal of legacy parameters not implemented in the final HHRAP.</p> <p><b>Note:</b> Default values for Soil Mixing Zone Depth (z) &amp; Produce Soil Mixing Zone Depth (z_p) were clarified in the <b>Risk Receptor Site Parameters</b> table. Since the default value depends upon whether land is tilled or un-tilled, users are required to input a parameter before risk calculations may be performed.</p>

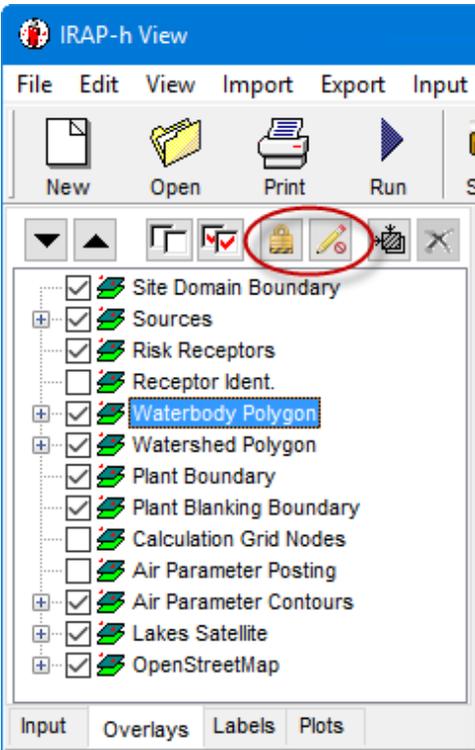
Topic	Feature Description
<p><b>COPC Database</b></p>	<p><b>Chemical Type &amp; Subtype List Refreshed</b></p> <p>When identifying the <b>Chemical Type</b> and <b>Chemical Subtype</b> of a user-defined COPC, the tables have been updated to reflect possible Type-Subtype combinations.</p>
<p><b>Tile Maps</b></p>	<p><b>Automated Download of Worldwide Geo-Referenced Base Maps</b></p> <p>The <b>Import Tile Maps</b> feature allows users to import imagery from various online resources. The program comes loaded with 3 different Map Servers which range from road maps (Open Street Map, Open Cycle Map) to high-resolution Satellite photography (Lakes Satellite). Users can add additional Map Servers. Map coverage may vary depending on location.</p> <div style="display: flex; flex-direction: column; align-items: center;">  <p><i>Lakes Satellite</i></p>  <p><i>Extremely high resolution with new imagery</i></p>  <p><i>Open Street Map</i></p> </div>

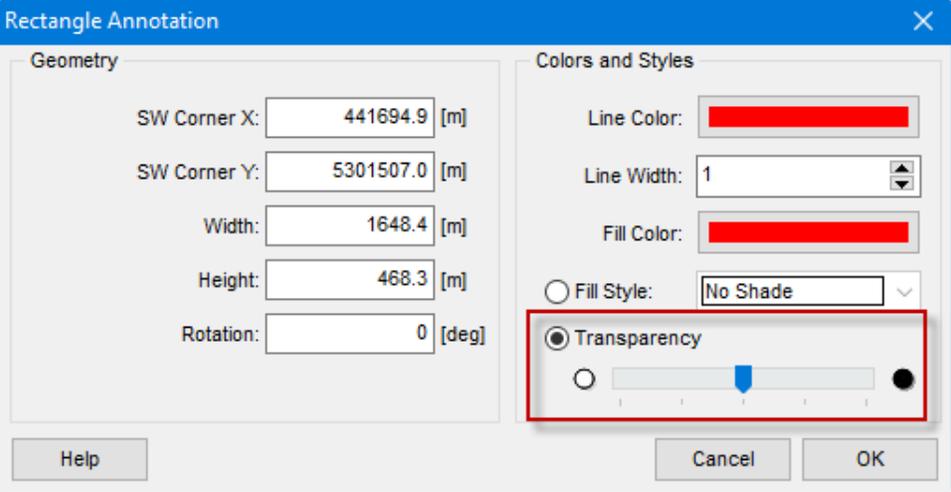
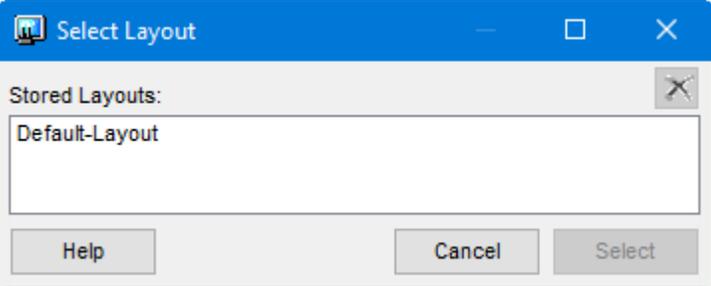
Topic	Feature Description
<p><b>Tile Maps</b></p>	<p><b>Simple Steps:</b></p> <p><b>Step 1:</b> Create your IRAP-h View project</p> <p><b>Step 2:</b> Select <b>Import   Tile Maps</b> menu option</p> <p><b>Step 3:</b> Select <b>Map</b> type (e.g., OpenStreetMap) and click <b>OK</b></p>  <p>Downloaded imagery is stored locally. Check the <b>File   Preferences   World Map Settings</b> to add Proxy Server details.</p> <p><b>Important Note:</b> The <b>Import Tile Maps</b> feature is only available for <b>users with current maintenance</b>. If you are receiving this update as part of your maintenance, once your maintenance expires, you will no longer have access to this feature.</p>

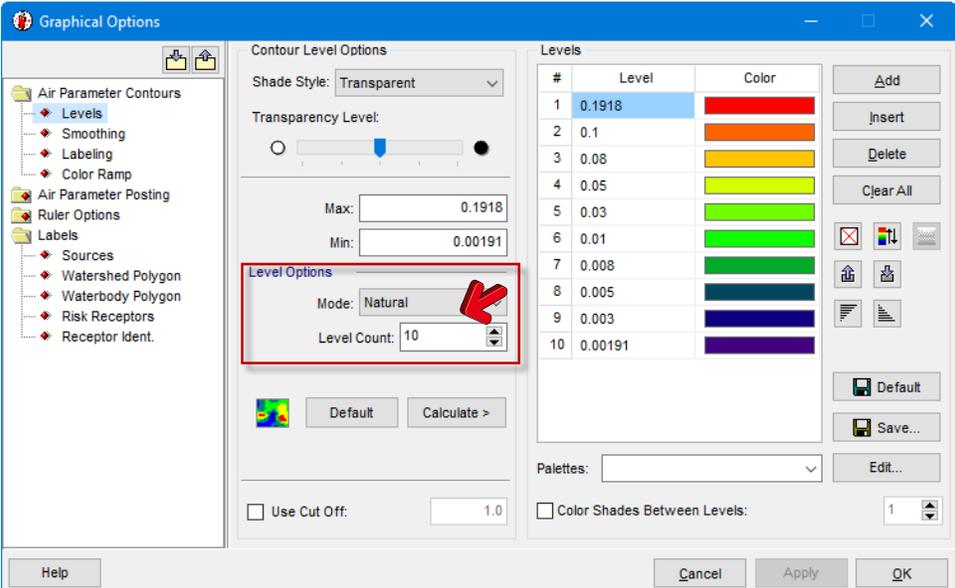
Topic	Feature Description
<p><b>Tile Maps</b></p>	<p><b>Quality Selector for Printing and Exporting Tile Maps Imagery</b></p> <p>Users can now select the quality level for imported Tile Maps which are included in <b>Print</b> and <b>Print to PDF</b> options. Higher quality levels require additional downloading and processing time.</p> <p>This feature is available in the <b>File   Preferences   Settings   World Map Settings</b>.</p> <div data-bbox="430 546 1412 787" style="border: 1px solid #ccc; padding: 5px; background-color: #f0f0f0;"> <p><b>World Map Options</b></p> <p>Quality in Print &amp; 3D View: <span style="border: 1px solid #00aaff; padding: 2px;">Ultra</span> <span style="font-size: 0.8em;">▼</span> (affects downloading/processing time)</p> <div style="border: 1px solid #00aaff; padding: 2px; background-color: #fff;"> <p>Low</p> <p>Medium</p> <p>High</p> <p>Very High</p> <p style="background-color: #00aaff; color: #fff;">Ultra</p> </div> </div> <div data-bbox="430 819 1412 1795" style="border: 1px solid #ccc; padding: 5px;"> <p>map data: © OpenStreetMap-contributors</p> <p>STCK1 / Waterbody total (wet &amp; dry) depos. - particle phase (unitized) <span style="float: right;">sim<sup>2</sup> year</span></p> <p>Risk Summary / Total Cancer Risk / Resident Child</p> <p>0.002 0.003 0.005 0.008 0.010 0.030 0.050 0.080 0.100 0.152</p> </div>

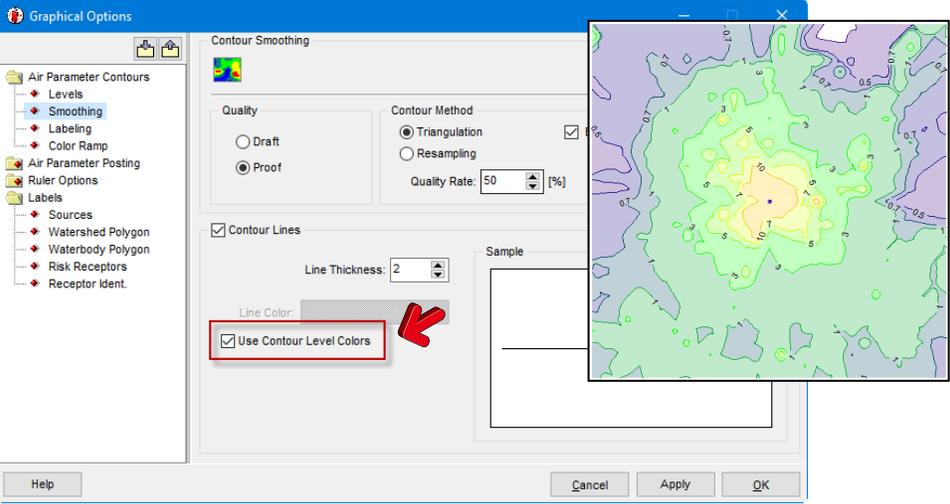
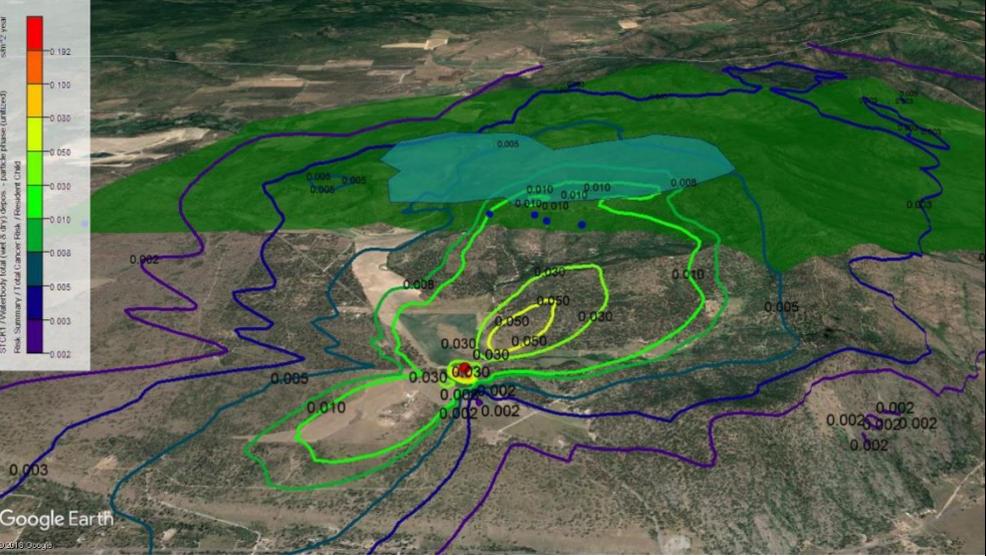
Topic	Feature Description
<p><b>Base Maps</b></p>	<p><b>Import Raster Images</b></p> <p>You can now import any supported raster image file (e.g., BMP, JPEG, TIFF, etc.) using the same option in the menu.</p> 
<p><b>Base Maps</b></p>	<p><b>New Import Formats Added for Base Maps</b></p> <p>You can now import base maps saved in <b>.PNG</b> and <b>.GIF</b> format via the <b>Import   Base Maps...   Raster Images...</b> menu item.</p>
<p><b>Base Maps</b></p>	<p><b>Transparency Option for Raster Images</b></p> <p>Users can set image transparency when importing raster image base maps.</p> 

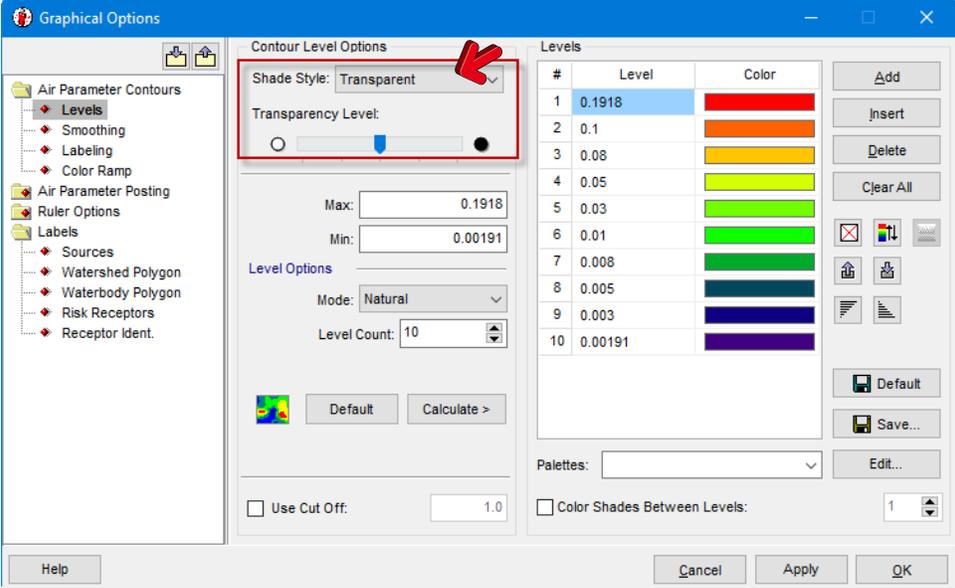
Topic	Feature Description
<p><b>Base Maps</b></p>	<p><b>Improved Method of Importing Multiple Base Maps</b></p>  <p>Using this feature allows you to search for multiple base maps located in the same folder (which already contain geo-referenced world files) and import them as either a single layer or as separate layers.</p>
<p><b>Overlays</b></p>	<p><b>Hide All/Show All Layers Buttons in Overlays Tab</b></p> <p>Two new buttons are now available under the <b>Overlay</b> tab allowing for easy manipulation of the visibility status of layers:</p> <ol style="list-style-type: none"> <li>1. Hide All Layers</li> <li>2. Show All Layers</li> </ol> 

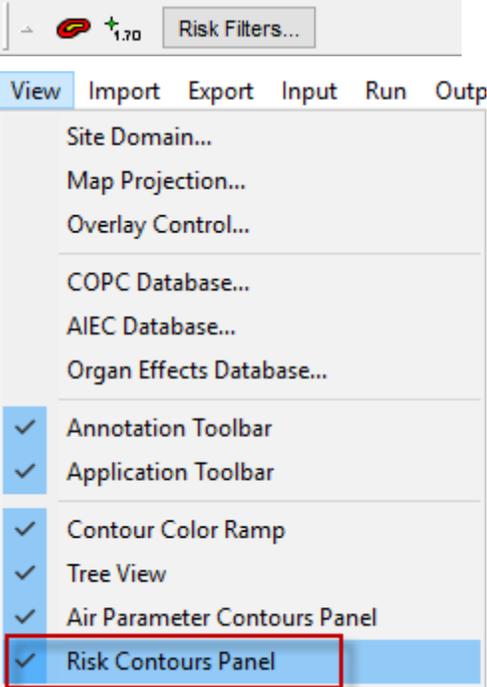
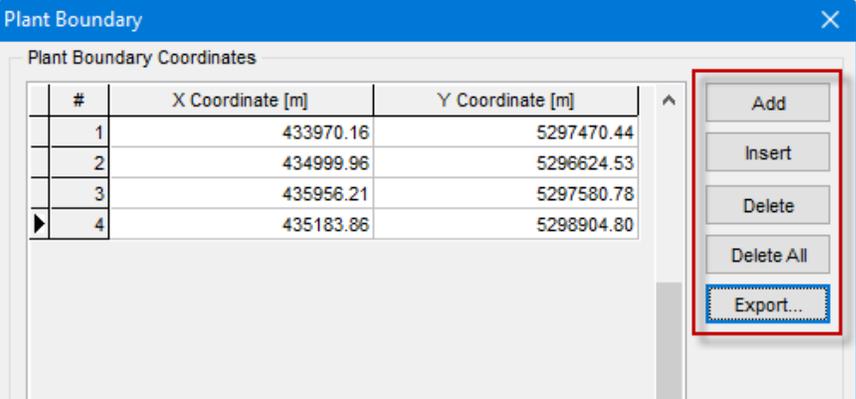
Topic	Feature Description
<p><b>Overlays</b></p>	<p><b>Additional Overlay Tools</b></p> <p>Two additional overlay tools are now available:</p> <ol style="list-style-type: none"> <li> Disable selection</li> <li> Disable graphical editing</li> </ol> <p>These tools will help you disable certain overlays when using the select tool to edit or move objects in the graphical area.</p>  <p>The screenshot shows the IRAP-h View application window. The menu bar includes File, Edit, View, Import, Export, and Input. The toolbar contains icons for New, Open, Print, Run, and Save. Below the toolbar is a list of overlays with checkboxes: Site Domain Boundary, Sources, Risk Receptors, Receptor Ident., Waterbody Polygon (highlighted), Watershed Polygon, Plant Boundary, Plant Blanking Boundary, Calculation Grid Nodes, Air Parameter Posting, Air Parameter Contours, Lakes Satellite, and OpenStreetMap. At the bottom of the toolbar, there are buttons for Input, Overlays, Labels, and Plots. Two icons in the toolbar, a lock and a pencil with a slash, are circled in red.</p>
<p><b>Annotation Toolbar</b></p>	<p><b>Last Selected Annotation Settings</b></p> <p>Last selected settings for the Annotation tools will now be saved. These settings will be applied globally – the changes made in one project will be applied to annotations made in the next project until changed again.</p>

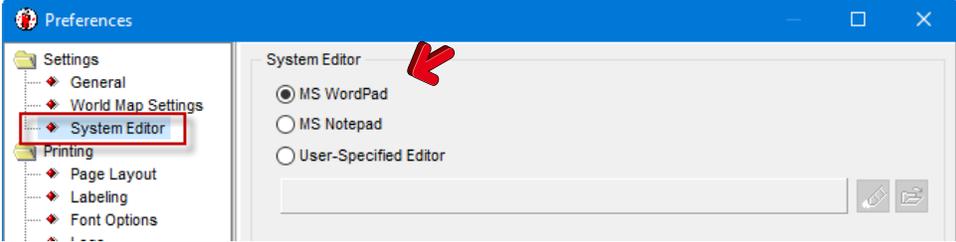
Topic	Feature Description
<p><b>Annotation Toolbar</b></p>	<p><b>Transparency Option for Annotations</b></p> <p>A transparency level can be set for all annotation objects.</p> 
<p><b>Graphical Options</b></p>	<p><b>Save Graphical Options to a Layout</b></p>  <p>The Graphical Options window now contains <b>Import Layout</b> and <b>Export Layout</b> buttons. The following Graphical Options will be saved to the layout.</p> <ul style="list-style-type: none"> <li>• <b>Contours:</b> Levels, Smoothing, Labeling, and Color Ramp</li> <li>• <b>Posting</b></li> </ul> 

Topic	Feature Description
<p><b>Graphical Options</b></p>	<p><b>New Default Level Options for Contours</b></p> <p>Contour levels are now set using the <b>Natural</b> value distribution algorithm by default. The <b>Natural</b> algorithm creates rounded level values (e.g., 10, 20, 50, 100, 200, etc.).</p> <p>The default minimum value is now defined as the maximum between the plot minimum value and the plot maximum value divided by 100. The maximum calculated value will be shown as the highest value in the color ramp.</p>  <p>The screenshot shows the 'Graphical Options' dialog box. The 'Contour Level Options' section is active, showing 'Shade Style' as 'Transparent' and 'Transparency Level' as 0. The 'Level Options' section is highlighted with a red box, showing 'Mode' set to 'Natural' and 'Level Count' set to 10. A red arrow points to the 'Mode' dropdown. The 'Levels' table on the right shows 10 levels with values ranging from 0.00191 to 0.1918 and corresponding color swatches. The 'Default' and 'Calculate &gt;' buttons are visible at the bottom of the dialog.</p>

Topic	Feature Description
<p><b>Graphical Options</b></p>	<p><b>Colored Contour Lines</b></p> <p>Contour Lines can now be colored to match the contour level colors. This option is available under the <b>Graphical Options – Smoothing</b> panel.</p> <p>Contours can also be exported to <b>Google Earth</b> as Contour Lines only, as well.</p>  

Topic	Feature Description																																	
<p><b>Graphical Options</b></p>	<p><b>Default Contour Shade Style Set to Transparent</b></p> <p>Results contours will now default to the <b>Transparent</b> Shade Style after the model is run. This change makes all lower-layer overlays (e.g., base maps) easier to see beneath the results contours. Also, the <b>Alpha Blend</b> option was renamed to <b>Transparent</b> option for easy understanding.</p>  <p>The screenshot shows the 'Graphical Options' dialog box. On the left is a tree view with categories like 'Air Parameter Contours', 'Air Parameter Posting', and 'Labels'. The 'Contour Level Options' section is active, showing 'Shade Style' set to 'Transparent' (highlighted with a red box and arrow), 'Transparency Level' slider, 'Max' (0.1918), 'Min' (0.00191), 'Level Options' (Mode: Natural, Level Count: 10), and 'Use Cut Off' (1.0). The 'Levels' table on the right lists 10 levels with their corresponding colors.</p> <table border="1" data-bbox="966 583 1258 955"> <thead> <tr> <th>#</th> <th>Level</th> <th>Color</th> </tr> </thead> <tbody> <tr><td>1</td><td>0.1918</td><td>Red</td></tr> <tr><td>2</td><td>0.1</td><td>Orange</td></tr> <tr><td>3</td><td>0.08</td><td>Yellow</td></tr> <tr><td>4</td><td>0.05</td><td>Light Green</td></tr> <tr><td>5</td><td>0.03</td><td>Green</td></tr> <tr><td>6</td><td>0.01</td><td>Dark Green</td></tr> <tr><td>7</td><td>0.008</td><td>Teal</td></tr> <tr><td>8</td><td>0.005</td><td>Dark Teal</td></tr> <tr><td>9</td><td>0.003</td><td>Dark Blue</td></tr> <tr><td>10</td><td>0.00191</td><td>Dark Purple</td></tr> </tbody> </table>	#	Level	Color	1	0.1918	Red	2	0.1	Orange	3	0.08	Yellow	4	0.05	Light Green	5	0.03	Green	6	0.01	Dark Green	7	0.008	Teal	8	0.005	Dark Teal	9	0.003	Dark Blue	10	0.00191	Dark Purple
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3	0.08	Yellow																																
4	0.05	Light Green																																
5	0.03	Green																																
6	0.01	Dark Green																																
7	0.008	Teal																																
8	0.005	Dark Teal																																
9	0.003	Dark Blue																																
10	0.00191	Dark Purple																																
<p><b>Edit</b></p>	<p><b>Options to Undo/Redo Changes</b></p> <p>You can now <b>Undo</b> or <b>Redo</b> Move/Rotate/Resize changes to graphical model elements (e.g., annotations) using the <b>Edit   Undo</b> and <b>Edit   Redo</b> options.</p> <table border="1" data-bbox="431 1312 737 1451"> <thead> <tr> <th>Edit</th> <th>View</th> <th>Import</th> <th>Expc</th> </tr> </thead> <tbody> <tr> <td>Undo</td> <td></td> <td></td> <td>Ctrl+Z</td> </tr> <tr> <td>Redo</td> <td></td> <td></td> <td>Ctrl+Y</td> </tr> </tbody> </table>	Edit	View	Import	Expc	Undo			Ctrl+Z	Redo			Ctrl+Y																					
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Topic	Feature Description															
<p><b>View</b></p>	<p><b>Risk Contours Panel</b></p> <p>Added option to show/hide this toolbar via the <b>View</b> menu.</p>  <p>The screenshot shows a toolbar with a 'Risk Filters...' button. Below it is a menu with options: Site Domain..., Map Projection..., Overlay Control..., COPC Database..., AIEC Database..., Organ Effects Database..., Annotation Toolbar (checked), Application Toolbar (checked), Contour Color Ramp (checked), Tree View (checked), Air Parameter Contours Panel (checked), and Risk Contours Panel (checked and highlighted with a red box).</p>															
<p><b>Plant Boundary</b></p>	<p><b>Added Features</b></p> <p>The Plant Boundary dialog now include buttons to add, insert, delete row, and delete all coordinate pairs.</p> <p>Users can also export their Plant Boundary to *.rpb and *.xyz formats.</p>  <p>The screenshot shows the 'Plant Boundary' dialog box with a table titled 'Plant Boundary Coordinates'. The table has columns for '#', 'X Coordinate [m]', and 'Y Coordinate [m]'. The data rows are:</p> <table border="1" data-bbox="459 1430 1073 1585"> <thead> <tr> <th>#</th> <th>X Coordinate [m]</th> <th>Y Coordinate [m]</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>433970.16</td> <td>5297470.44</td> </tr> <tr> <td>2</td> <td>434999.96</td> <td>5296624.53</td> </tr> <tr> <td>3</td> <td>435956.21</td> <td>5297580.78</td> </tr> <tr> <td>4</td> <td>435183.86</td> <td>5298904.80</td> </tr> </tbody> </table> <p>On the right side of the dialog, there are buttons for 'Add', 'Insert', 'Delete', 'Delete All', and 'Export...'. The 'Export...' button is highlighted with a red box.</p>	#	X Coordinate [m]	Y Coordinate [m]	1	433970.16	5297470.44	2	434999.96	5296624.53	3	435956.21	5297580.78	4	435183.86	5298904.80
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<p><b>Preferences</b></p>	<p><b>Select Default Text Editor</b></p> <p>Users can now specify the default text editor for opening project input and output files under the <b>File   Preferences</b> options.</p> <p>You may choose between the two pre-defined text editors, <b>WordPad</b> and <b>Notepad</b>, or use the <b>User-Specified Editor</b> option to select any text editor installed on your machine.</p> 
<p><b>Install</b></p>	<p><b>Windows Compatibility &amp; Installation Updates</b></p> <p>IRAP-h View Version 5 is compatible with 32-bit and 64-bit versions of Microsoft Windows 10, 8.1, &amp; 8. In addition, the following changes were made in the product installation:</p> <ul style="list-style-type: none"> <li>• Firebird database updated from version 1.5 to version 2.1.3</li> <li>• Crystal Reports updated from version 10 to version 11.5</li> </ul>
<p><b>Install</b></p>	<p><b>Web License Automatically Deactivated During Uninstall</b></p> <p>When IRAP-h View is uninstalled from the Windows Control Panel, the web license will be automatically deactivated if an internet connection was available during the uninstall.</p>