Release Notes for Juniper Aspect Field Mapping Solutions Version 1.1.0

November 2012

These release notes describe important information for Juniper Aspect.

Install software from the CD and update through the "Check for updates" tool of the host desktop software.

Contents

These release notes contain the following sections:

- System Requirements
- New Features and Changes
- Important Notes
- Resolved Issues
- Known Issues

System Requirements

Juniper Aspect Field Mapping Solutions is supported on the operating systems and platforms indicated below.

Desktop: Windows® 7 w/SP1, Windows Vista® w/SP2, or Windows® XP w/SP3

Mobile Computer: Juniper Systems Archer (running Windows Mobile 6, OS Build 3.0.6 or higher) or Juniper Systems Mesa (running Windows Mobile 6.5, OS Build 1.1.5 or higher)

An internet connection is required to install the software and to access certain features.

Microsoft® Windows Mobile Device Center (for Windows® 7 or Windows Vista®) or ActiveSync® (for Windows® XP) is required to run this software.

A USB port on the PC is required to install software on the mobile computer and to synchronize information between the desktop PC and the mobile computer.

Adobe Acrobat Reader must be installed to read the Owner's Manual on the installation CD.

New Features and Changes

- The product name has changed to Juniper Aspect Field Mapping Solutions.
- The term "part" has been changed to "object."
- Bing Maps imagery has been added (professional edition).
- An address finder has been added.
- Projects can now be exported to shapefile (.SHP) and File Geodatabase (.GDB) formats (professional edition).
- Projects can be exported to KML, allowing import into Google Earth (professional edition).
- Juniper Aspect is available in a standard edition.
- A new simple icon with an outline and a dot in the center has been added.
- A feature to toggle all layers on/off has been added.
- A feature to allow adding multiple images of an object has been added (Mesa with professional edition).

- Icons can now be exported and imported with the CSV export/import feature for catalogs.

Important Notes

- **Factors impacting GPS accuracy.** The accuracy of points collected by GPS will vary depending on the GPS receiver, the environmental conditions (weather as well as nearby objects and structures), satellite constellation, number of points averaged, PDOP filtering and other factors. A white paper describing GPS accuracy and recommendations is available at (4175): http://www.junipersys.com/Juniper-Systems-Rugged-Handheld-Computers/support/Knowledge-Base/Support-Knowledge-Base-Topics/GPS/Achieving-optimal-GPS-accuracy.

- **GPS accuracy on initial use.** When the GPS is first activated, it may take several minutes to achieve the best possible accuracy. As the GPS operates, it is able to discover and use information from more satellites and this helps to improve accuracy.

- **Mapping a polygon / coverage area.** When mapping a polygon, mark the points as you walk around the area. Be sure to walk in a clockwise or counterclockwise pattern around the area. Do not collect points in a zigzag fashion (4174).

- **Mesa camera resolution.** Due to memory limitations in Windows Mobile, the camera resolution in the software is set to 640 x 480. The user could select a higher resolution, though it is not supported and may cause unexpected problems (3574).

- **Disabling advanced network functionality on the mobile computer.** When the option "Enable advanced network functionality" is not selected on the mobile computer, Juniper Aspect may have problems copying files to the mobile computer during activities such as deploying software to the mobile computer or synchronizing projects and object catalogs. To avoid problems, be sure to install the patch referenced in this link (4667): http://www.junipersys.com/index.php/Juniper-Systems/support/Downloads/Mesa-Rugged-Notepad/ActiveSync-network-security-conflict-patch-utility

- **Default GPS settings don't work on Archer with XF101**. The default GPS setting for Juniper Aspect are for COM2 at 4800 baud. The XF101 is by default setup to operate at 57,600 baud. In Juniper Aspect, go to Settings > GPS and choose 57,600 for the baud rate (3573).

- **Juniper Aspect may crash when printing under Windows XP**. This is due to a software dependency on components that are normally already on most systems (5691). When these components are missing, the software may crash when trying to print a report. To correct this issue, install either of the following options:
    - **Microsoft XPS Essentials Pack at**
      http://www.microsoft.com/en-us/download/details.aspx?id=11816
    - **Microsoft .NET Framework 3.5 at**
      http://www.microsoft.com/en-us/download/details.aspx?id=21
- When using a cellular connection to access base maps, option to enable the base maps may not be available for about 15 seconds after the project is opened (5761).
- When adding a new object to the map, the layer for that object type must be enabled (4124).
- The top of the map is always North on the mobile computer (4143).
- When adding a polygon to the map on the desktop, the last point in the polygon must be double-clicked to signal that the polygon is complete (3888).

Resolved Issues

This section lists resolved issues in this version of the software.

- An issue that caused the software to crash when creating an object with more than 500 vertices has been fixed [4836]. However the software is unable to save an object with more than 500 vertices [5801].
- An issue that caused the software to crash when performing an undelete operation on an orphaned object has been fixed [4840].
- The sort button on the open projects screen for Archer now works [4805].
- The tab order on the report properties screen has been updated [4565].
- The project list UI is now disabled when synchronizing a base map [4694].
- On the mobile computer, Aspect now prevents additional instances of the program from running [4701].

- An issue that allowed selection of objects belonging to hidden layers has been fixed [4749].
- The error message associated with importing an object list with a bad header has been clarified [4793].
- An object that is selected is now automatically deselected when the layer is marked as not selectable [4794].
- Shortcut keys are now disabled when the attributes window is visible [4803].
- An issue that sometimes caused Juniper Aspect to crash when the PC was coming out of hibernation has been fixed [4810].
- The term "polyline" has been changed to "line" [4813].
- An issue that caused the mobile computer to display distance in meters when using the navigate function has been fixed [4825].
- An issue with labels being selectable when they are not visible made it difficult to select an object that was located under the label. This issue has been fixed [4838].
- An issue that caused base maps to be unavailable due to a temporary loss of internet connection has been fixed [5020].
- An issue that caused the scale bar to print incorrectly in reports with a lot of objects has been fixed. The scale bar has been moved to the bottom of the legend [5226].
- An issue that caused a crash when running a report for a project in which a picture had been deleted has been fixed [5241].

Known Issues

These issues are open in this version of the software.

#	Issue	Workaround
3762	An Archer with an XF101 DGPS Receiver may not find the GPS receiver because the port for the GPS receiver was changed from COM2 to COM3.	Reset the Archer so that the dynamic port assignment will properly detect the GPS and reassign it to COM2. Press and hold the power button and then choose the reset option to reset the Archer.

3761	Sometimes after a reset or resume on the Archer, a message indicating that a new modem has been detected will display.	When this happens, tap the button to dismiss the message.
4220	When moving an object on the mobile computer, the object icon and label do not move to the new location until the change is saved.	
4218	When a coverage area or polygon has multiple rings (such as a zone for coverage of several islands in a parking lot), it is not possible to delete individual rings.	Delete the entire coverage area or polygon, and recreate the rings that are needed.
3782	The software does not limit the size of the object catalogs or the number of object catalogs. But performance, especially on the mobile computer, will become slow when the object catalog is too large or when there are too many different object catalogs.	If you experience problems with the object browser loading, try reducing the size of the object catalogs or the number of object catalogs.
4765	When using a custom color for a label, setting the alpha to anything less than 255 does not save. It will automatically reset to 255.	
4775	When generating an 11x17 report, there will be extra white space when the screen resolution is less than 1280x1024.	This impact of this issue is reduced by using screen resolutions higher than 1280x1024.
4798	Object images are stretched when using an 11x17 report with two images per page.	As a workaround, format the photographs to be printed four per page or six per page.
4809	When an object is deleted on the desktop, and the same object is edited on the mobile	This behavior is by design. An enhancement is expected in a future version to give the user more

	computer, the deletion of the object has priority and the object will be removed from the project on both the desktop and mobile computer when it is synchronized.	control in situations where synchronizing projects gives unexpected results.
4675	The option to connect with the GPS at 115200 does not work.	Use a different baud rate.
5801	The software will not save an object with more than 500 vertices.	When using time or distance to map an object, be sure to use settings that will not create more than 500 vertices.
5782	Juniper Aspect may crash if it is running when you open GoToMeeting.	To workaround this issue, start GoToMeeting before starting Juniper Aspect.