IA•pioneer™

IApioneer v3.0.5 Integration Support Guide

Powered by the GeoSPHERIC™ v3.0 Common Code Foundation

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1 OVERVIEW

This document assumes that both IAPioneer and CGS have been installed. It will assist the user with configuring their environment to work with IApioneer and other applications. Currently, IApioneer v3.0.5 integrates with the Common Geopositioning Services (CGS) libraries for precision mensuration either directly through the CGS Workflow Wizard or through the IAI Generic Targeting (GTI).

2 SETUP

2.1 COMMON GEOPOSITIONING SERVICES (CGS)

2.1.1 IDENTIFYING THE APPLICATION DIRECTORY

To integrate with the CGS workflows, IAPioneer must be told where to look for the installed version of CGS. By default, IAPioneer will look in the default install location for CGS. If CGS was installed in a different location, or if multiple versions of CGS were installed on the computer, the directory of the preferred version that IApioneer is to use must be specified. The user manages this directory within the settings of the IApioneer application.

Setting the CGS directory:

1. Launch the IApioneer application.
2. Click File to navigate to the Backstage.
3. Click Settings to display the Settings dialog.
4. Click CGS GWW to display the CGS Configuration properties.
5. Click … to locate the root directory of the CGS application.
6. Click Select Folder to identify the folder path.
7. Click OK to save the changes to the setting and close the dialog.

Note: The CGS Path must be updated if another version of CGS is to be used or if a new copy of IApioneer is installed.

2.1.2 IDENTIFYING THE TERRAIN DIRECTORY

CGS and IApioneer share the same terrain directories. The path to the terrain directories must be specified to ensure that the desired results are met. If the user does not configure the directories properly, it may yield unexpected results or ultimately crash the CGS application.

Setting the Terrain directory: (Specify the paths, in the order of preference, of DTED datasets.)

1. Launch the IApioneer application.

2. Click File to navigate to the Backstage.
3. Click Settings to display the Settings dialog.
4. Click Terrain to display the Terrain Configuration properties.
5. Click Add to locate the root directory of the Terrain group.
6. Click OK to identify the folder path.
7. Repeat steps 5 and 6 for as many directories to be identified.
8. Click OK to save the changes to the setting and close the dialog.

Note: The elevation model selection algorithm will look in all subfolders starting from the root identified in step 5. The DTED Directories will need to be updated if a new copy of IApioneer is installed.

2.1.3 DISPLAY OPTIONS CONFIGURATIONS

This version of IApioneer does not support the displaying of non-stereo pairs within the same-segmented window. The current approach provides a single auxiliary viewing window for every file needed in the current workflow.

Changing the Pixel Display Service configuration for IApioneer:

1. Open the CGSPTpda.properties file located in the CGS/bin folder.
2. Change the pda.IApioneer.areGraphicsManaged to True.
3. Change the pda.IApioneer.multiPanelSupport to True
4. Change the pda.IApioneer.stereoNonDPPDBSupport to True
5. Save the file.

Note: Administrative privileges are required to change this file.

Setting the Display options:

1. Launch the CGS GWW application.
2. Click Tools and select the Preferences to display the CGS User Preferences.
3. Click the Display Options from the Preferences tree on the left side of the dialog.
4. Select the Stereo option from the Stereo Load Behavior group.
5. Uncheck the Multipanel Loading checkbox from the Multipanel Load Behavior group.
6. Click OK to save the changes.
7. Close the CGS GWW application and relaunch to apply the updated settings.

2.2 GENERIC TARGETING INTERFACE (GTI)

Use the GTI Configuration Tool to verify that the path to IApioneer has been set to the application directory. See GTI documentation for more information on setup and operation with IApioneer.

3 USAGE

IApioneer interacts with other applications through the auxiliary viewer. The auxiliary viewer provides the capability to display images, insert and edit in-memory annotations. The main application can only assist in loading usable data for the integrated application to use.

3.1 DISPLAYING AN IMAGE IN THE AUXILIARY VIEWER

Loading an image in an IApioneer auxiliary viewer:

1. Open the IApioneer application.
2. Load image data from the backstage.
3. Click the home tab to get to the image gallery.
4. Right click on the desired image in the image gallery.
5. Click Open In New Viewer to display the image in an auxiliary viewer.

3.2 ANNOTATION IN THE AUXILIARY VIEWER

The auxiliary viewer has the capability to produce temporary annotations for integrated product generation. The user can activate the annotation mode in the auxiliary viewer by clicking Annotate on the auxiliary viewer Home tab or by pressing the F3 shortcut. This suspends the communication to the integrated applications while the annotation mode is activated. The communication is reestablished to the integrated applications when the annotation mode is disabled. Please refer to the Software User Manual (SUM) to manage annotations within the auxiliary viewer.