PLANNING

Reference Manual Addendum

Part Number 750-0-0080 Rev 2

Planning Addendum

The *Planning Software* provides the ability to determine when it is a good time to perform your GPS survey. This addendum includes additions to the *Planning Reference Manual*, part number 750-1-0028 Rev 1. These changes have been made during the transition from software version 2.0 to the new release of version 3.10. The *Reference Manual*, part number 750-1-0028 may still be used with the new release of software.

2.1 Installing Planning

During installation you will be given the option to create a desktop shortcut for Planning.

2.4.2 Menus

The **Receiver** main menu now displays the following options:

Receiver
Radian Schedules
Radian Configurations
Stratus Configuration

2.6.1 General

The following check boxes have been added to the **View** section on the **General** tab of the **Tools | Options** dialog box:
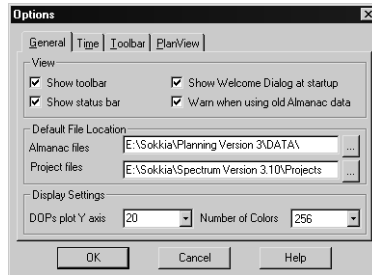
Show Welcome .... when this check box is enabled, the Planning welcome

Dialog at startup .... screen will appear everytime that you launch the program. Deselect this check box if you do not want the screen to appear.

Warn when using.................. when this check box is enabled, Planning will warn you

old Almanac data .... whenever you try importing an almanac that is over 30 days old. If you do not want to be warned about older almanacs, deselect this check box.

3.1 Planning Your Project

Ignore the line in the first paragraph that states "A new project is automatically opened when Planning is run."

Planning now provides an easy-to-use project wizard that appears automatically by default when you run the software. Read the following information at the beginning of Section 3.1.

The *Welcome to Planning* dialog box displays the following options.

New .... click this button to *create a new project*.

Existing .... click this button to *open an existing project*.

⊠   **Note:** You will receive a warning message (depending on your setting in the **General** tab of the **Tools | Options** dialog box) if you are opening a project that contains store almanac parameters that are more than 30 days old.

Re-open .... click this button to *re-open a project*.

Without .... click this button to open the Planning main window *without opening a project* or the *Plan View* window.

Show Welcome .... the *Show welcome at startup* check box controls if you will see the *Welcome to Planning* dialog box every time the software is opened. If you remove the check from the box, you will not be presented with the dialog box the next time you open the software, and no project will be open by default. If you disable this dialog, but later you decide you want this dialog to appear, reset the option in **Tools | Options | General**.

3.2 Importing an Almanac

The ability to use YUMA and Ashtech almanac data have been added.

When an almanac file older than 30 days is loaded for the current project, a warning dialog box is displayed (depending on your setting on the **General** tab of the **Tools | Options** dialog box).
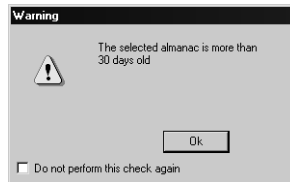
If you do not want to be warned when you are importing older almanacs, select the *Do not perform this check again* check box in the lower left-hand corner of the warning dialog box.

Chapter 5

The *Edit Receiver Schedule* dialog box is now opened by selecting **Receiver | Radian Schedules**. The *Edit Receiver Configurations* dialog box is now opened by selecting **Receiver | Radian Configurations**.

5.1.4 Editing Receiver Configurations

This section title now more accurately reads: **Editing Radian Configurations**.

Radian IS is now available. You have the ability to change and modify settings on the Radian IS, including uploading configuration files.

5.2A Editing Stratus Configurations

This section should be read after section 5.2 but before section 5.2B.

To edit the configurations for your Stratus receiver, select
Receiver | Stratus Configuration to open the *Stratus Receiver
Configuration* dialog box.

The *Stratus Receiver Configuration* dialog box enables you to make
changes to a Stratus receiver's settings for collection rate, elevation
mask angle and alarm volume which collectively are known as the
"configuration". Using this dialog box, and with a Stratus receiver
connected to your PC, you can download and view the current Stratus
receiver configuration, reset the receiver's configuration or upload a
new configuration.

The *Stratus Receiver Configuration* dialog box contains the following:

Observation Data Rate........ the value you select for this field will
determine how often the receiver will
collect observation data.

- the valid range of values is 0-600, with a
  default of 10

- the list is set to display the values 1, 5,
  10, 15, 20, 30 and 60, but you can type in
  your own values

Elevation Mask..................... the value you select for this field will determine how close to the horizon the receiver will search for satellites. If you know that up to a certain elevation the sky will be obstructed, you can set the receiver to ignore all data below a certain elevation.

- the valid range of values is 0-90, with a default of 5

- the list is set to display the values 0, 5, 10, 15 20, 25 and 30, but you can type in your own values

⊠ **Note:** If you select an elevation over 50 (a very high elevation) you will be prompted with the message "The elevation mask provided is abnormally high" and asked to confirm that you do want to select that elevation. Click **<OK>** to keep the elevation and continue with adjusting your settings.

Alarms.................................... choose one of the options in this section to control the volume of the alarms that sound on the Stratus receiver. For more information on the Stratus receiver audible annunciator, refer to your Stratus Operations Manual.

The main window on the *Stratus Receiver Configuration* dialog box displays information about the status of your communications with and connection to the Stratus receiver. This information displayed cannot be edited.

The following buttons are displayed on the *Stratus Receiver Configuration* dialog box:

Detect Current...................... when this button is selected and communication is successfully established with a Stratus receiver, Planning will attempt to retrieve the current receiver configuration values from the Stratus unit.

If the settings from the external Stratus receiver are successfully downloaded, the *Stratus Receiver Configuration* dialog box will update to display the values and a message will display in the main window that the currently displayed values are those from the receiver.

Reset All .... when this button is selected and communication is successfully established with a Stratus receiver, Planning will attempt to reset the Stratus receiver's configuration to factory default settings.

The main window of the *Stratus Receiver Configuration* dialog box will display the progress information while an attempt is made to reset the factory defaults; including a success or failure indication after the attempt is made.

Apply New .... when you make any changes to any of the values in the *Stratus Receiver Configuration* dialog box, click this button to apply the new settings to the receiver configuration.

If the settings on the Stratus are successfully modified, the new settings will be reported in the main window on the *Stratus Receiver Configuration* dialog box.

⊠ **Note:** When the **<Detect Current>**, **<Reset All>** or **<Apply New>** buttons are clicked, Planning will attempt to establish communications with the Stratus receiver. For more information see Section 5.2B, *Communication with a Stratus Receiver*, Page 3.

Comm Setup .... this button opens the *Stratus Communication* dialog box.
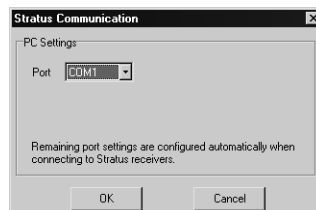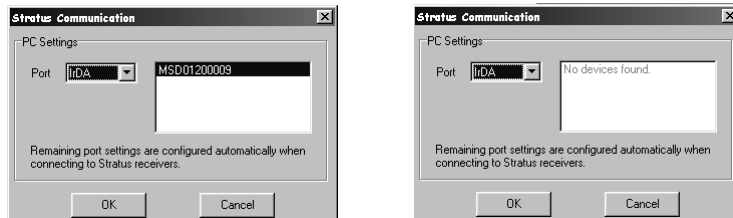
Use the *Stratus Communication* dialog box to select the preferred COM port for communicating with Stratus. The *Port* list will display all COM ports that are available on your system as well as IrDA. The choice you select from this list will be your new default communications port for this and all subsequent projects until such time as you go back into this dialog and change the setting.

When you have finished editing your Stratus configuration file, click **<Close>** to exit the *Stratus Receiver Configuration* dialog box and return to the **Plan View**.

5.2A.1 IrDA

If you select **IrDA** from the *Port* list of the *Stratus Communication* dialog box, Planning will attempt to detect any IrDA devices that are in range of the IrDA adapter connected to your PC (if present); and display them for selection in a window that will appear to the right of the *Port* list.

If no IrDA devices are found, this additional list will appear dimmed and display the message "No devices found". Because a valid port has to be selected before closing the *Stratus Communications* dialog box, if no IrDA devices were detected, you will have to select another port (not **IrDA**) from the *Port* list.

Refer to the readme.txt file included with your Spectrum Survey Suite install for information on configuring your IrDA drivers.

⊠ **Note:** IrDA communications are not for Windows NT operating systems. If your PC has this operating system installed, use the optional serial cable (Sokkia part number 403-0-0075) to establish communications between the Stratus receiver and your PC.

5.2B Communication with a Stratus Receiver

This section should be read immediately following section 5.2A but before section 5.3.

Immediately after you click the **<Detect Current>**, **<Reset All>** or **<Apply New>** buttons, Planning will attempt to establish a connection to the Stratus using the current *Port* settings on the *Stratus Communication* dialog box. The communication status will be reported in the main window of the *Stratus Receiver Configuration* dialog box.

Planning will try for five seconds to communicate with the Stratus receiver (via serial or IrDA protocol). If communications fail, a message will be displayed in the main window of the *Stratus Receiver Configuration* dialog box.

5.3 Communication with a Receiver

Radian IS is now available. You have the ability to create, modify and delete schedules and configurations on the Radian IS.

Appendix A - Table 2

A new datum has been added.

Name	Description	Ellipsoid	DX	DY	DZ
South Korea	South Korean Datum	Bessel 1841	-125	478	658

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