ST3400 TAWS Instructions for ST3400 Software Update to 3.07

Date: May 24, 2013 (revised)

Regarding: 3.07 Software Release

Introduction

This document describes the procedure to update an ST3400 to software version 3.07

Compatability

Software version 3.07 is only compatible with ST3400 units with serial numbers below 2000.

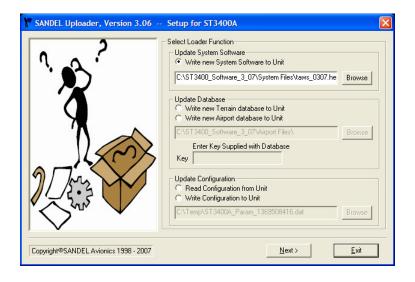
Hardware Requirements

Windows XP or later PC with available USB port USB to mini-USB interface cable, Sandel part number 88114 or equivalent

Upload Instructions

- 1. If the ST3400 has been removed from the aircraft for updating, ensure that the configuration module is plugged into the back of the unit.
- 2. With power removed from the ST3400, connect the ST3400 to the PC via the USB cable.
- 3. Power up the ST3400 in maintenance mode. This is done by holding down the BRG1 and BRG2 keys on the ST3400 while applying power. Continue to hold down the two keys until the display is visible.
- 4. If a message 'Found New Hardware' appears, follow the instructions for loading the USB driver in Appendix A of these instructions.
- Open Windows Explorer and locate the Sandel_Uploader_3.06.exe file. The default location will be in 'C:\Sandel\ST3400_Software_3_07. Double click on the Sandel_Uploader_3.06.exe file to start.

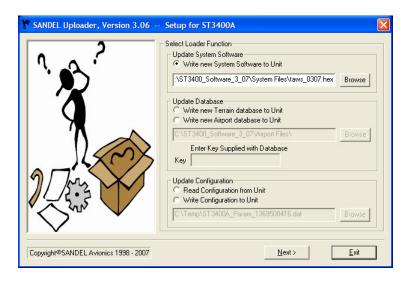
6. The Sandel Uploader Setup screen will appear. (Example below.) Select the option for 'Write new System Software to Unit'.



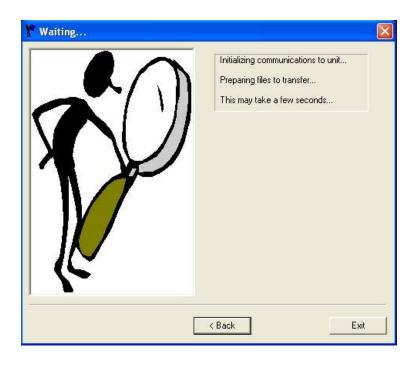
 Click on 'Browse' and locate the file 'taws_0307.hex'. Highlight the file and click on 'Open'. The default location for this file is 'C:\Sandel\ST3400_Software_3_07\System Files'.

Select a da	ta file				? 🗙	
Look in	: 🔁 System File	s	•	+ 🗈 💣 📰 -		
3	taws_0307.	nex				se
My Recent Documents						
Desktop						/se
/y Documents						-
3						- 1
My Computer						se
My Network	File name:	taws_0307.hex		•	Open	t
Places	Files of type:	System Files (*.hex)		-	Cancel	

8. Verify that the file 'taws_0307.hex' is shown in the selection window and then click on 'Next'.



9. A message that the program is initializing communications with the unit will appear for several seconds.



10. Once communication is established, the software file will be transferred to the ST3400. Do not remove power or disconnect the cable until 'Software System Load Complete' is shown.



- 11. Close the program by clicking on the red 'X' at the top right of the program window. The USB cable can now be removed and the ST3400 powered down.
- 12. Power up the ST3400 in maintenance mode. Depending on the previous version of software, the CONFIG MODULE STATUS may be shown. If so, press the ST3400 TO CM (UP ARROW key) shown below to re-write the unit settings to the configuration module. Then press YES (RMI key) to confirm the action.
- 13. On Page 2, verify that the Software Rev is 3.07. On Page 16, SFTWR CRC, press the RMI key on the ST3400 to update the CRC codes. Verify that all fields show Pass.
- 14. Verify that the configuration settings on Pages 2 through 14 are unchanged from the previous settings. Power down the unit when done.

Troubleshooting

Please contact Sandel Product Support if there are any questions with this procedure:

Phone: 877-726-3357 or +1-760-727-4900 ext. 2 Email: support@sandel.com Web: www.sandel.com

Appendix A Sandel SN3500, SN4500, SA4550 and ST3400 USB Driver Installation Instructions

Introduction

This document includes instructions for installing the USB driver for the Sandel SN3500, SN4500, SA4550 and ST3400 which utilize a USB interface. This enables the updating of software and databases through the USB port located on the front bezel of the units.

Note: This procedure does not apply to the SN3308 EHSI as that product requires a serial interface.

Hardware Requirements

- PC with Microsoft Windows 7, Vista or XP with available USB port.
- USB to mini-USB interface cable, Sandel part number 88114 or equivalent

USB Driver Installation Instructions

It is necessary to install a USB driver the first time a Sandel unit is connected to a PC via the USB interface. The procedures are slightly different for each version of Windows and are described separately on the following pages.

Windows 7 64-bit USB Driver Installation

- 1. With power removed from the Sandel unit, connect the unit to the PC via the USB cable.
- 2. Power up the Sandel unit in maintenance mode. This is done by holding down the appropriate keys while applying power. Continue to hold down the keys until the display is visible.
- 3. The computer will attempt to automatically find and install a USB driver however it will respond an error message as shown below. (SN3500 example used for illustration.) Close the window and proceed to the next step.

📒 Driver Software Installati	on
Device driver softwa	re was not successfully installed
SN3500	🗙 No driver found
What can I do if my device	did not install properly?
	Close

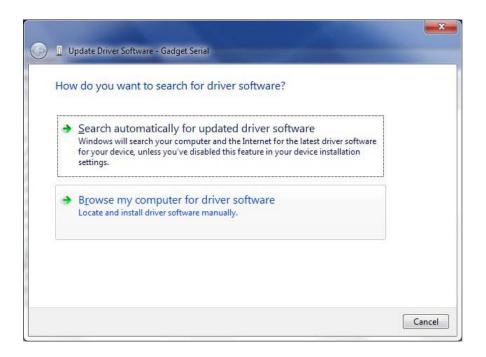
4. Click on the start icon at the lower left of the desktop and type 'device manager' in the search box. Click on the 'Device Manager' program when it appears at the top of the start window as shown below.

Bevice Manager	
🖶 View devices and printers 📇 Update device drivers	Device Manager View and update your hardware's settings and driver software.
Files (17)	
 input gameport oem31 	
ocm16 ocm12	
 øem32 msmouse 	
 keyboard machine indus 	
igdlh igdlh	
₽ See more results	
device manager	× Shut down +

5. On the Device Manager window, double-click on 'Other devices' and then right-click on 'SN3500' (or SN4500/ST3400 as appropriate). Then click on 'Update Driver'.

🛃 Device Manager
File Action View Help
▲ 📲 Windows7-PC
▶ - 1 Computer
> - Disk drives
Display adapters
▷ 🔐 DVD/CD-ROM drives ▷ 📲 Floppy drive controllers
Uman Interface Devices
Generation of the second se
- Keyboards
B All Mice and other pointing devices
Monitors
P - 🔮 Network adapters ⊿ - 🚯 Other devices
SN3500
Ports (COM Update Driver Software
- Disable Disable
Sound, vide Uninstall
System dev
Properties
Launches the Update Driver Software Wizard for the selected device.

6. The Update Driver Software window will appear. Click on 'Browse my computer for driver hardware'.





7. The Browse for driver software on your computer will be shown. Click on 'Browse'.

Province Manager	_ = X
File Action View Help	
Ba A C C D Update Driver Software - SN3500	
Di Browse for driver software on your computer	
>-2 M Search for driver software in this location:	
P P N C:\ ▼ Browse	
Include subfolders Pr	
Let me pick from a list of device drivers on my computer This list will show installed driver software compatible with the device, and all driver software in the same category as the device.	
Next	Cancel

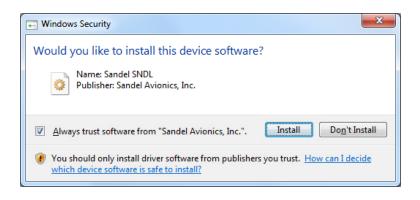
8. Select the Sandel USB Driver folder. The default location is 'C:\Sandel\USB Driver'. Click on 'OK'.

Select the folder that contains drivers for your hardware.
Program Files (x86)
ProgramData
Dall Recovery
4 🍌 Sandel
USB Driver
amd64
🍌 i386
🔒 System Volume Information 🗏
🛛 🔐 Temp
🛛 🎍 Users
Windows
DVD RW Drive (D·)
Eolder: USB Driver 64
OK Cancel

9. The USB Driver folder will be shown in the selection window. Click on 'Next'.

Update Driver Software - SN3500 Browse for driver software on your co	omputer	
Search for driver software in this location:	super-	
C:\Sandel\USB Driver	▼ Browse	
Include subfolders		
Let me pick from a list of device d This list will show installed driver software c software in the same category as the device	compatible with the device, and all driver	

 $10. \ {\rm If} \ {\rm a} \ {\rm window} \ {\rm appears} \ {\rm asking} \ {\rm `Would} \ {\rm you} \ {\rm like} \ {\rm to} \ {\rm install} \ {\rm this} \ {\rm device} \ {\rm software}?' \ {\rm click} \ {\rm on} \ {\rm `Install'}.$



11. Windows will install the driver and display the message 'Windows has successfully updated your driver software' when complete. Click on 'Close' to complete the process.

Update Driver Software - Sandel SN3500 EHSI USB Loader Port	x
Windows has successfully updated your driver software	
Windows has finished installing the driver software for this device:	
Sandel SN3500 EHSI USB Loader Port	
	Close

Windows 7 32-bit USB Driver Installation

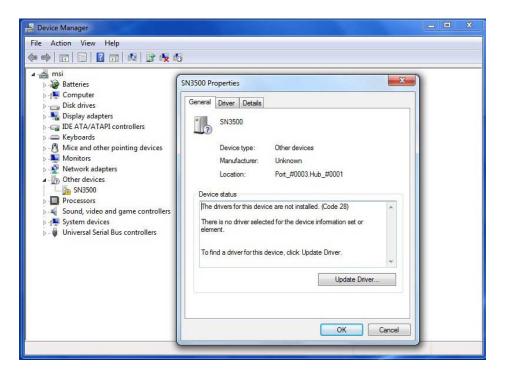
- 1. With power removed from the Sandel unit, connect the unit to the PC via the USB cable.
- 2. Power up the Sandel unit in maintenance mode. This is done by holding down the appropriate keys while applying power. Continue to hold down the keys until the display is visible.
- 3. The computer will attempt to automatically find and install a USB driver however it will respond an error message as shown below. (SN3500 example used for illustration.) Close the window and proceed to the next step.

📒 Driver Software Installatio	1 X
Device driver softwar	was not successfully installed
SN3500	X No driver found
What can I do if my device of	d not install properly?
	Close
	Close

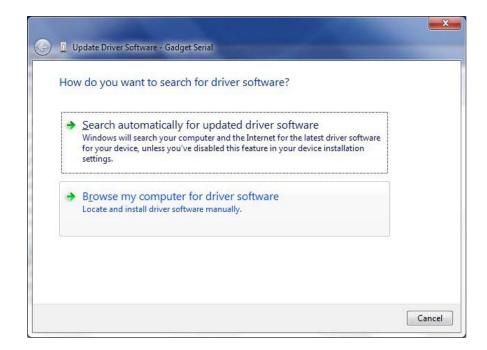
4. Click on the start icon at the lower left of the desktop and type 'device manager' in the search box. Click on the 'Device Manager' program when it appears at the top of the start window as shown below.

Bevice Manager	
🖶 View devices and printers 📇 Update device drivers	Device Manager View and update your hardware's settings and driver software.
Files (17)	
 input gameport oem31 	
ocm16 ocm12	
 øem32 msmouse 	
 keyboard machine indus 	
igdlh igdlh	
₽ See more results	
device manager	× Shut down +

 On the Device Manager window, double-click on 'Other devices' and then double-click on 'SN3500' (or 'SN4500' or 'ST3400' as appropriate) to bring up the properties window for that device. Then click on 'Update Driver'.

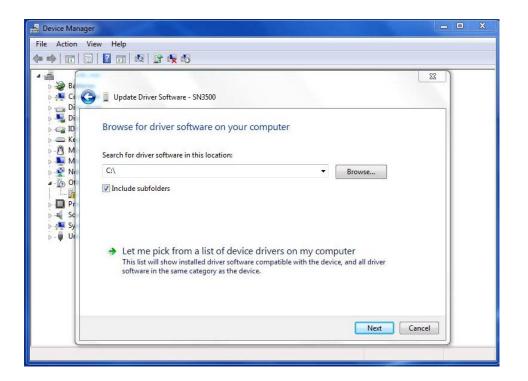


6. The Update Driver Software window will appear. Click on "Browse my computer for driver hardware'.

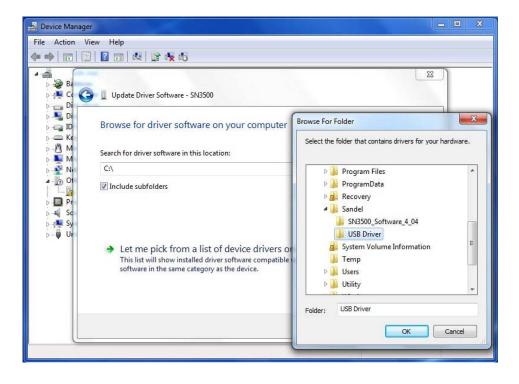




7. The Browse for driver software on your computer will be shown. Click on 'Browse'.



8. Select the Sandel USB Driver folder. The default location is 'C:\Sandel\USB Driver'. Click on 'OK'.



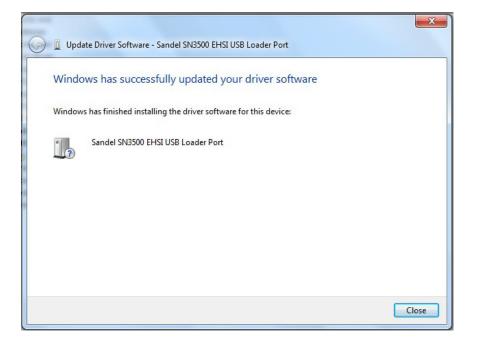
9. The USB Driver folder will be shown in the selection window. Click on 'Next'.

Pevice Manager
File Action View Help
kenko
 Browse for driver software on your computer Ke
Search for driver software in this location: Search for driver software in this location: Search for driver software in this location: Browse
□ O Include subfolders
Sc Sc Sc Sc Sc Sc Sc Sc Sc Sc
Next Cancel

10. If a warning message appears, click on 'Install this driver software anyway'.



11. Windows will install the driver and display the message 'Windows has successfully updated your driver software' when complete. Click on 'Close' to complete the process.



Windows Vista USB Driver Installation

- 1. With power removed from the Sandel unit, connect the unit to the PC via the USB cable.
- 2. Power up the Sandel unit in maintenance mode. This is done by holding down the appropriate keys on the unit while applying power. Continue to hold down the keys until the display is visible.
- 3. A message 'Windows needs to install driver software' will appear. (Example using the SN3500 is shown below.) Click on 'Locate and install driver software'.



- 4. A message 'Windows needs your permission to continue' will appear. Click on 'Continue'.
- 5. A message 'Installing device driver software' will appear at the lower right. No action is necessary.



6. After several seconds, Windows will prompt to 'Insert the disc'. Click on 'I don't have the disc. Show me other options.'



7. A message 'Windows couldn't find driver software for your device' will appear. Click on 'Browse my computer for driver software'.

+	Check for a solution	
	Windows will check to see if there are steps you can take to get your device working.	
•	Browse my computer for driver software (advanced) Locate and install driver software manually.	
	Eocace and instantiniver software manufary.	

8. Windows will ask for the location of the driver. Click on 'Browse' to select the folder which contains the file 'ST3400.inf'. The default location is C:\Sandel\USB Driver'. Click on 'Next'.

Browse for driver softw	vare on your computer		
Search for driver software in th	is location:		
C:\Sandel\USB Driver		•	Browse
Include subfolders			

9. A warning message 'Windows can't verify the publisher of this driver software' will appear. Click on 'Install this driver software anyway'.



10. Windows will install the driver. This will take several seconds. After successful installation of the driver click on 'Close' to complete the process.



Windows XP USB Driver Installation

- 1. With power removed from the Sandel unit, connect the unit to the PC via the USB cable.
- 2. Power up the Sandel unit in maintenance mode. This is done by holding down the appropriate keys on the unit while applying power. Continue to hold down the keys until the display is visible.
- 3. A message 'Found New Hardware' will appear. (Example using the SN3500 below.)



4. The Found New Hardware Wizard will start. Select the option 'No, not this time' and click on 'Next'.

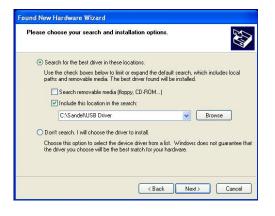


5. Windows will ask if it should install the software automatically or install from a list or specific location. Select the option 'Install from a list or specific location (Advanced)' and click on 'Next'.





6. Windows will ask for the location of the driver. Select the option ' Search for the best driver in these locations' and check the box 'Include this location in search:'. Click on 'Browse' and select the folder that contains the file 'ST3400.inf'. The default location is 'C:\Sandel\USB Driver'. Click on 'Next'. (Note: ST3400.inf is used for all Sandel models.)



7. Windows will locate and install the necessary driver.



8. The driver has been installed. Click on 'Finish' when complete.



END OF USB DRIVER INSTALLATION INSTRUCTIONS