



Engineering Update

Aquarius 01-02

Aquarius²22

Sagitta 01-02

3011

August 2005

Application firmware (PC Board)

UCIMV20053

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2. INTRODUCTION

THALES NAVIGATION makes every effort to satisfy its clients by regularly releasing enhanced versions of its products. The object of this document is to provide all the instructions required for updating any equipment already in use in the field so that users can benefit from the new enhancements.

3. EQUIPMENT CONCERNED

Product line : Marine
Product : Aquarius01 / 02 - Aquarius²22 - Sagitta 01 / 02 - 3011
Sub-part : PC Board.
Firmware :
Software :
Hardware :

4. VERSION INDEX

UCIMV20053

5. ENHANCEMENTS

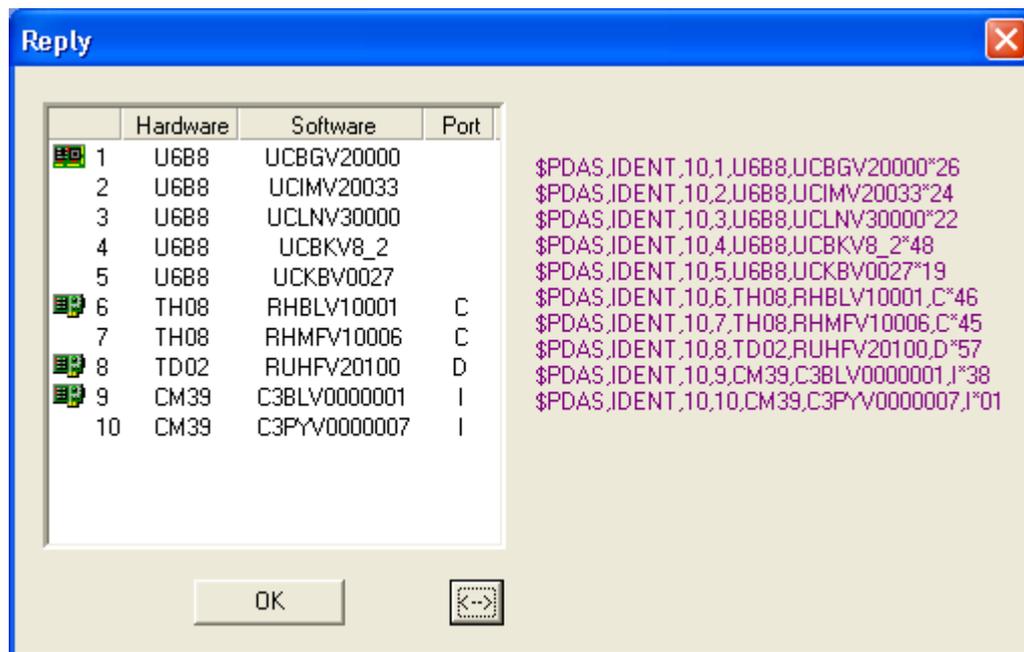
- Backup mode
- SBAS DGPS mode
- Antenna Phase Center difference input / processing
- CMR/CMR+ as digital input
- New heading extrapolation algorithm

6. KNOWN ANOMALY

- Satellite status for secondary antenna are not displayed (only applicable for Aquarius²² and 3011 models)
- SBAS satellite related data are not available as output anymore
- \$ALARM message does not work as in 5000-series units

7. COMPATIBILITY

There is no hardware or software incompatibility of any sort with the other parts of the equipment. But to get complete benefit of all improvements, it is advisable to check you receiver hardware/software versions. After completing the update, the different versions in the equipment should be as follows:



NOTICE :

Only **CONFIGPACK** (version \geq **V3.33**) can be used to modify the internal configuration. Former **ConfigPack** versions (\leq 3.33) or **Confpack** used for 5000 and 600 series for this new product line cannot be used

8. EQUIPMENT REQUIRED

- A PC computer using WINDOWS95, 98 XP, NT, 2000 or Millennium
- A PC to receiver serial line cable (Part No.: 101243...) and RS422/232 converter (Part No.:75675...).

9. STEP-BY-STEP PROCEDURE

Software and Firmware are available on ftp site. **Address** <ftp://ftp.thalesnavigation.com/>

Using **Softload.exe** software

9.1 Installing **SOFTLOAD V2.0** software on your PC's hard disk.

Run **Install-SoftLoad-V2.0.exe** and follow instructions.

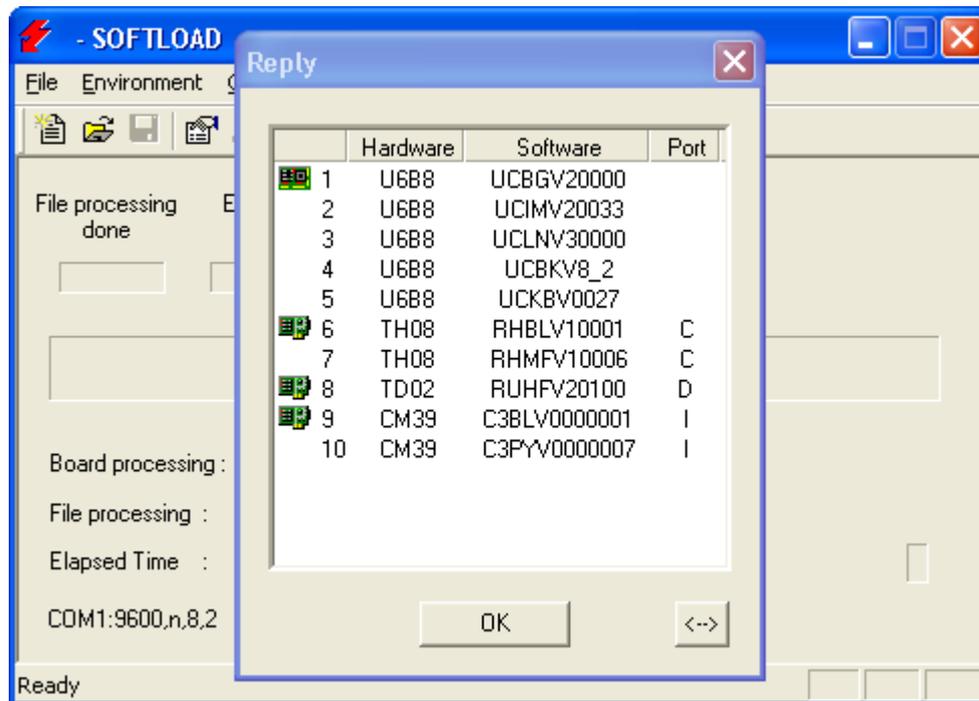
9.2 UNZIP **UCIMV20053.zip** file.

- 3 Unzipped files are:

File Name	Date (dd/mm/yy)	Size (bytes)
Thales.def	28/08/03	1157
UCIMV20053.sfl	12/07/04	222
UCIMV20053	12/07/04	4 311 012

9.3- Firmware loading

- **Before loading new firmware, save the configuration file you currently use with CONFIGPACK software.**
- Copy the **Thales.def** file to the **“products”** directory of Softload.
- Copy the **UCIMV20053** (no extension) and **UCIMV20053.sfl** files to the **“release”** directory of **Softload**.
- Connect **A** port (RS422) of the receiver to RS232 port of your PC with cable (Part N°.: 101243...) and adaptation cable (Part N°:.....75675..).
- Switch on the receiver
- Run the **SOFTLOAD** Software from the task bar (Start/Programs/ Thales Navigation /SoftLoad)
- If not already done, you must change a parameter in softload.ini file
- Exit from **SOFTLOAD** software and open the softload.ini file located in Windows directory for Windows95/98/XP or in WinNT for Windows NT/2000
- Modify the line Reserved 3=7 to Reserved 3=**15** in [Miscellaneous] block and save the file
- Run again **SOFTLOAD** Software from the task bar (Start/Programs/ Thales Navigation /SoftLoad)
- On the **File** menu, select **Open**, choose the **UCIMV20037.sfl** file then click **Open**
- Check data communication between the receiver and the PC by clicking the **?** button on the toolbar. If communication is established, a window will open listing the different versions currently installed in the unit. In that case, close this window. If instead of the window, you get an error message, check the connections (data and power cables) and communication parameters. Unless these parameters have intentionally been changed earlier, they usually are the following: 9600 Baud, 8 data bits, 2 stop bits and “no parity”
- To start re-loading, click the red arrow on the toolbar. Note that the time of re-loading is about 10 minutes



NOTICE: At the end of transfer SOFTLOAD software checks to see if the firmware has been correctly loaded then displays the new firmware status

EXIT SoftLoad after loading

RESCUE mode:

If during firmware loading either the receiver or PC supply shuts down it is not any more possible to establish dialogue.

The “**Rescue**” mode, selectable in device menu of **Softload** (selection in Option menu), is used to restore dialogue with the receiver.

Firmware re-loading then becomes possible.

This “Rescue” mode is only available on A port

IMPORTANT WARNING:

- Before using receiver you **MUST** do as follows
- Open WinCOMM software or any terminal software.
- Send “ **\$PDAS,CONFIG,DEL** ” command.
- Acknowledgement is return by the receiver.
- Make a ON / OFF of the receiver.
- Send “ **\$PDAS,CONFIG,RESET** ” command.

- Be patient while receiver resets its configuration and reboots. This process can take some minutes.

10. ATTACHED ITEMS

Items	Version / name	Date (dd/mm/yy)	Size (bytes)
Logiciel SOFTLOAD	Install-SoftLoad-V2.0.exe	07/04/02	2 658 714
Compressed file UCIMV20037.zip	UCIMV20053	03/08/04	1 519 173