
ARTS 7000 Software Update Procedure

The following procedures are intended to show the user how to update the following:

1. ARTS-7000 application software (Subsection 1)
2. ARTS-7000 firmware by Wi-Fi (Subsection 2, recommended)
3. ARTS-7000 firmware by USB (Subsection 3)

SUBSECTION 1: TEST CONTROLLER APPLICATION SOFTWARE UPDATE

1. Switch ON the iPad Test Controller Tablet.
2. Navigate to **Settings** > **Wi-Fi** and connect Wi-Fi network with internet connection.
3. Note – Do NOT connect to the ARTS 7000 Test System.
4. Download & install the ARTS 7000 application:
 - i. From the iPad App Store, search for 'Laversab ARTS 7000'
 - ii. Download & install the ARTS 7000 application.
5. Once the process is complete launch the ARTS 7000 Control Application and navigate to the **Utilities** > **Software** section to verify the latest version of the Controller Application Software has been installed.

SUBSECTION 2: ARTS 7000 FIRMWARE UPDATE BY WI-FI

WARNING

When updating the software in the ARTS 7000 it is imperative to use an AC power source during the following procedure.

Items required:

- ARTS 7000 Test System
- AC Power cable for ARTS 7000
- ARTS 7000 iPad controller

ARTS 7000 Update Procedure

1. Power ON the ARTS 7000 (if necessary)

Connect the ARTS 7000 to an AC power outlet. Select AC power on the top panel of the ARTS 7000 and switch ON the ARTS 7000.

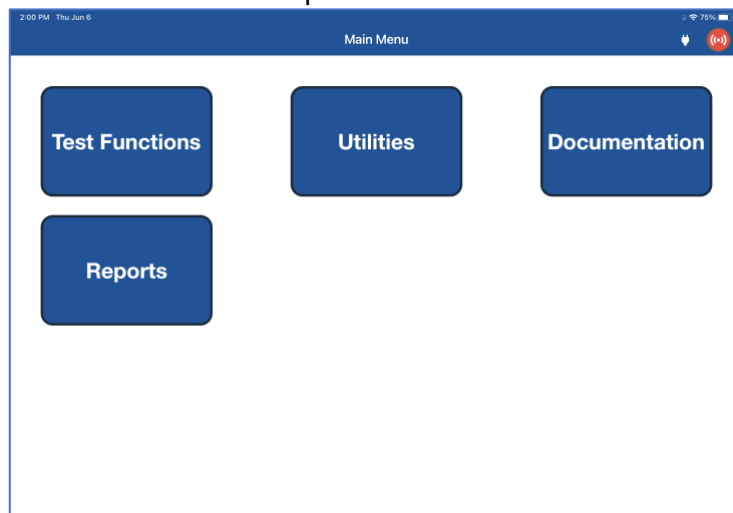
2. Power ON and set up the iPad Controller (if necessary).

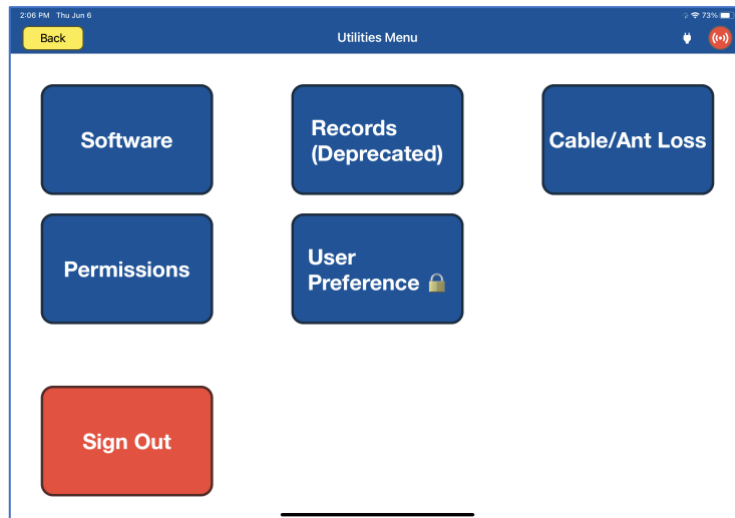
It is recommended to close all open applications on the iPad. On the iPad main menu:

- a. Select **Settings**.
- b. Open the **Wi-Fi**.
- c. Select the network **ARTS-XXXXX** (where XXXXX is the serial number of the ARTS 7000 test set). Note: the ARTS-XXXXX WiFi may take a few minutes before it is available.
- d. If a Password is required, please use - **laversab**
- e. Return to the main page of the iPad.

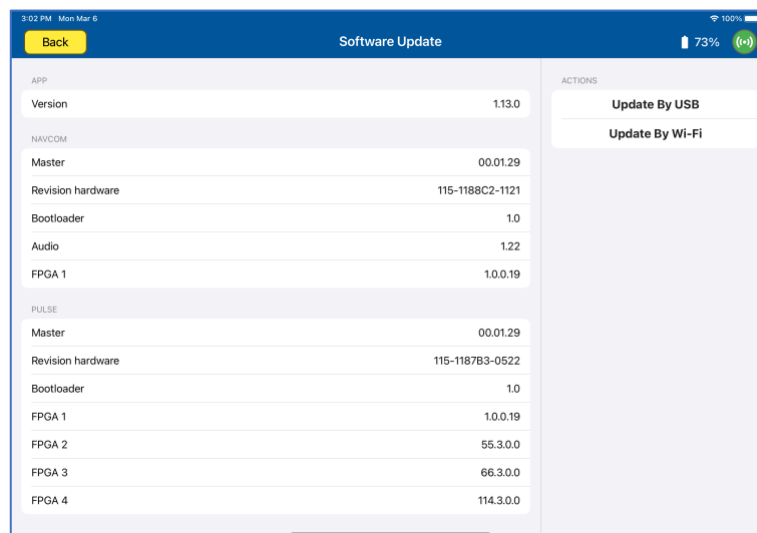
3. Run the ARTS 7000 Application

- a. Open the ARTS 7000 Application.
- b. Press **Connect**.
- c. The connection status is shown identifying the serial number of the ARTS 7000 and the modules installed.
- d. Press **Confirm** and then **Next**. The main menu of the ARTS 7000 application is now shown.
- e. Enter the **Utilities** menu and press **Software**.





- f. The tablet controller now displays the **ARTS Versions** screen and displays the current software build of the ARTS 7000. This may take a few moments. (It is recommended to take a screen shot of this page to keep a record of the current software build state. The process for taking screen shots on different tablet controllers varies. Please refer to your specific model).



APP	Version	1.13.0
NAVCOM		
Master		00.01.29
Revision hardware		115-1188C2-1121
Bootloader		1.0
Audio		1.22
FPGA 1		1.0.0.19
PULSE		
Master		00.01.29
Revision hardware		115-1187B3-0522
Bootloader		1.0
FPGA 1		1.0.0.19
FPGA 2		55.3.0.0
FPGA 3		66.3.0.0
FPGA 4		114.3.0.0

ACTIONS

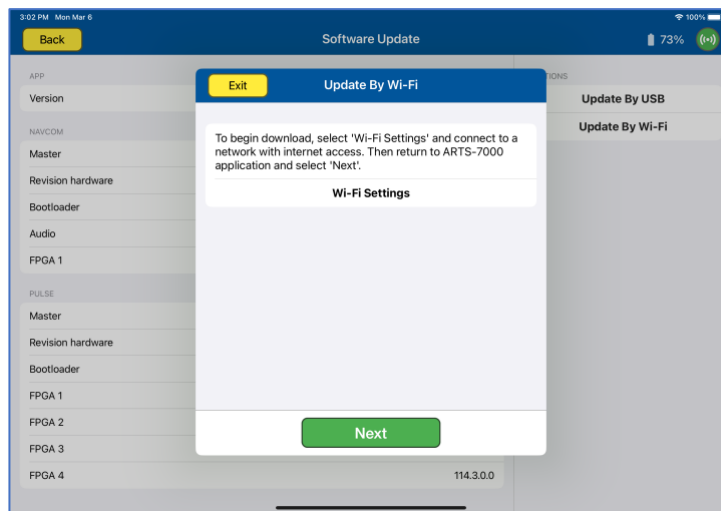
Update By USB

Update By Wi-Fi

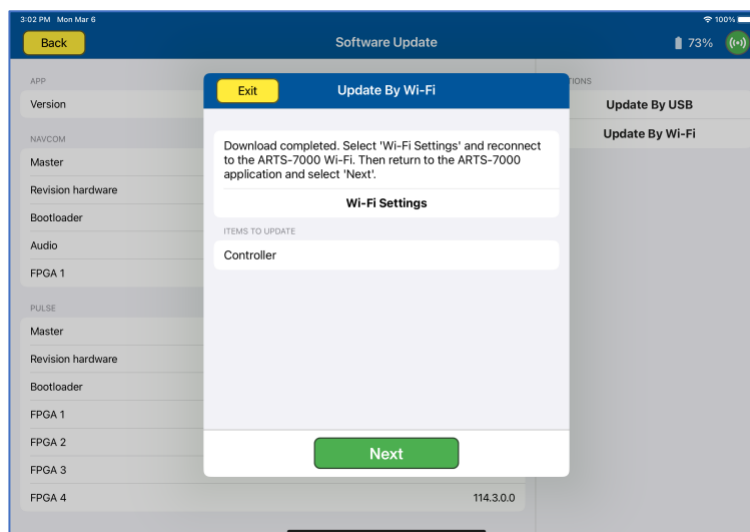
4. Update procedure

IMPORTANT: We highly recommend that the unit is connected to AC power and battery, it must be ON throughout the entire process. A failure while updating can cause a programming corruption that could damage the unit.

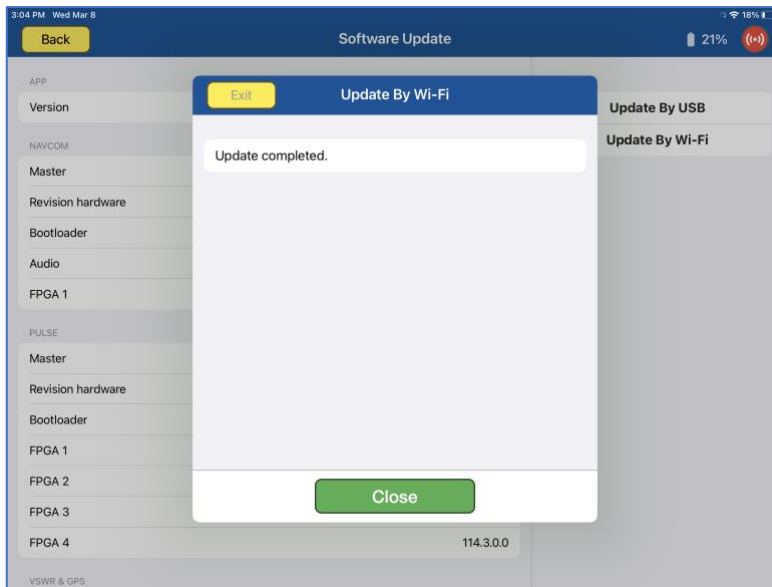
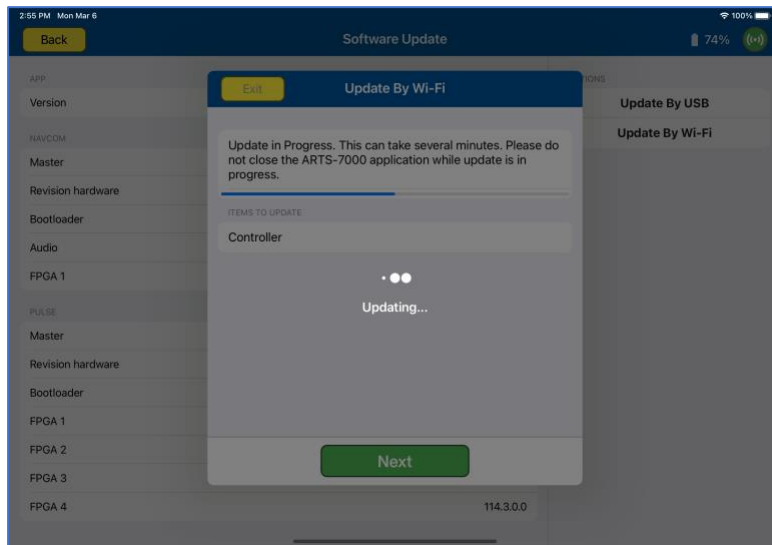
- a. Press **Update By Wi-Fi**. The iPad will now show the following screen:



- b. Ensure the iPad is connected to a network with internet access, return to the ARTS-7000 application, and press **Next** to download the firmware.
- c. After the download is completed, reconnect to the ARTS-7000 Wi-Fi, and press **Next**.



- d. The following screen will show when the firmware on the ARTS-7000 is being updated:



SUBSECTION 3: ARTS 7000 FIRMWARE UPDATE BY USB

WARNING

When updating the software in the ARTS 7000 it is imperative to use an AC power source during the following procedure.

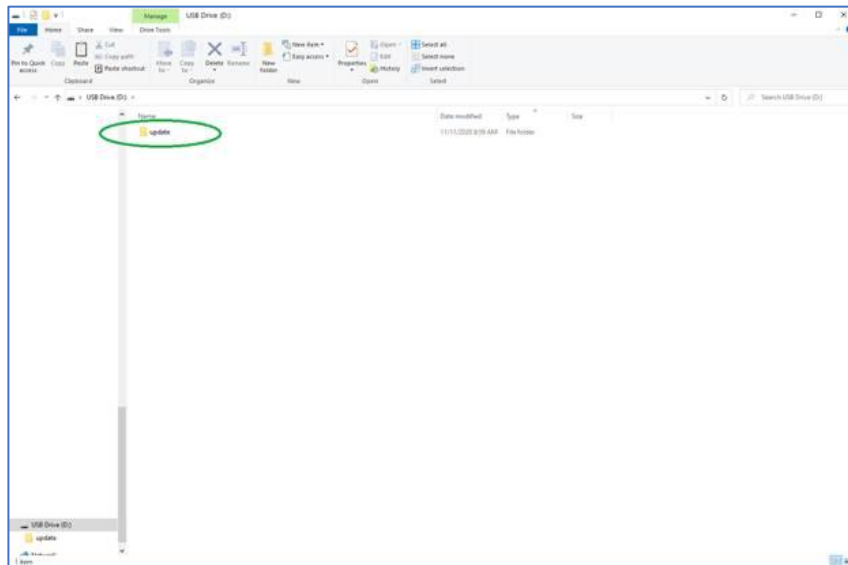
Items required:

- ARTS 7000 Test System
- AC Power cable for ARTS 7000
- ARTS 7000 iPad controller
- USB memory stick - minimum 16GB (cleanly formatted to FAT32 file system)

ARTS 7000 Update Procedure

1. Software update preparation

- a. Download the update files from the Laversab website or from the email sent to you from Laversab.
- b. Verify the correct number of files in the package. Typically there is only one, and it has an extension of '.fw'
 - i. **artsX.fw**
- c. Format a USB memory stick using the FAT32 file system.
- d. Create a New Folder on the USB memory stick. Using only lowercase letters, name the folder: **update**



- e. Copy the file(s) (from 1.b.) into the update folder.
- f. Safely remove the USB drive from your computer.

Note: Please review the online video [here](#) to see an example of preparing the USB memory stick.

2. Power ON the ARTS 7000 (if necessary)

Connect the ARTS 7000 to an AC power outlet. Select AC power on the top panel of the ARTS 7000 and switch ON the ARTS 7000.

3. Power ON and set up the iPad Controller (if necessary).

It is recommended to close all open applications on the iPad.

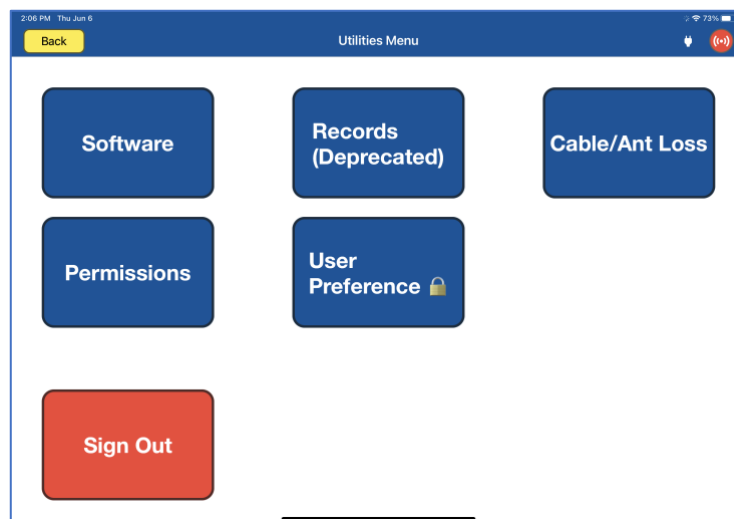
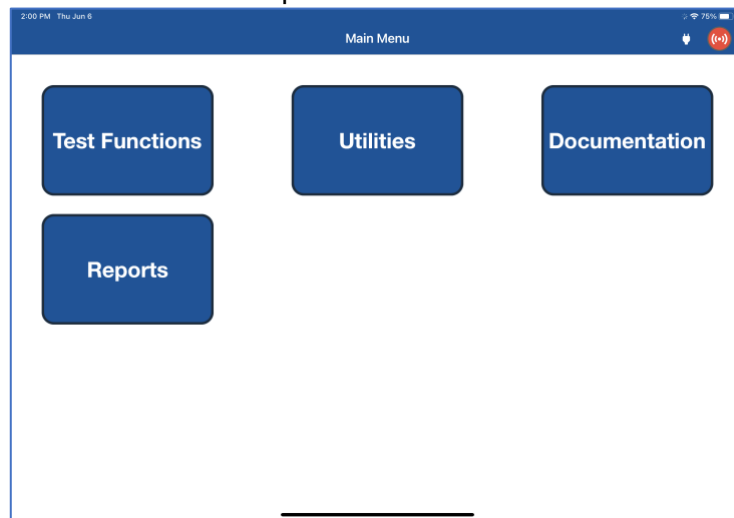
On the iPad main menu:

- a. Select **Settings**.
- b. Open the **Wi-Fi**.

- c. Select the network **ARTS-XXXXX** (where XXXXX is the serial number of the ARTS 7000 test set). Note: the ARTS-XXXXX WiFi may take a few minutes before it is available.
- d. If a Password is required, please use - **laversab**
- e. Return to the main page of the iPad.

4. Run the ARTS 7000 Application

- a. Open the ARTS 7000 Application.
- b. Press **Connect**.
- c. The connection status is shown identifying the serial number of the ARTS 7000 and the modules installed.
- d. Press **Confirm** and then **Next**. The main menu of the ARTS 7000 application is now shown.
- e. Enter the **Utilities** menu and press **Software**.



- f. The tablet controller now displays the **ARTS Versions** screen and displays the current software build of the ARTS 7000. This may take a few moments. (It is recommended to take a screen shot of this page to keep a record of the current software build state. The process for taking screen shots on different tablet controllers varies. Please refer to your specific model).



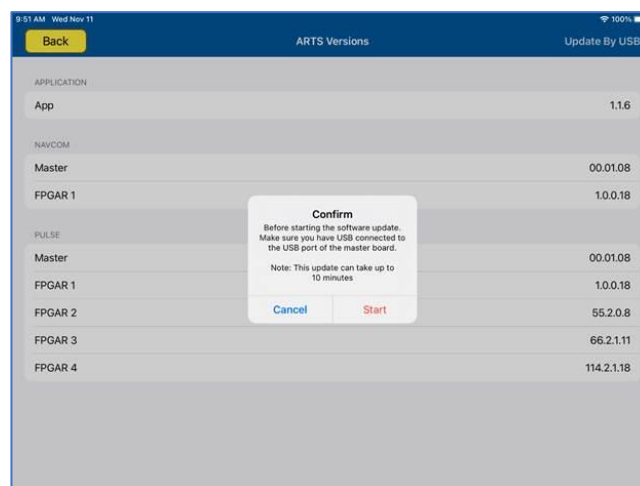
5. Update procedure

IMPORTANT: We highly recommend that the unit is connected to AC power and battery, it must be ON throughout the entire process. A failure while updating can cause a programming corruption that could damage the unit. The USB must be connected during the process and must not be removed at any time until the update is complete.

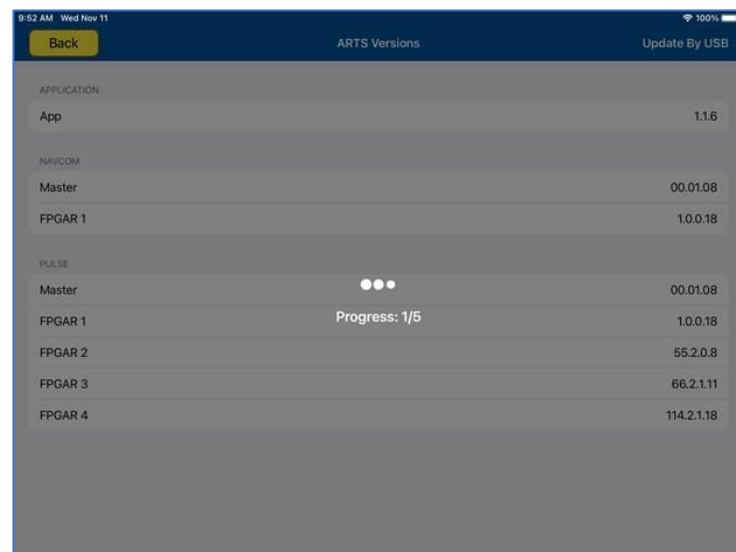
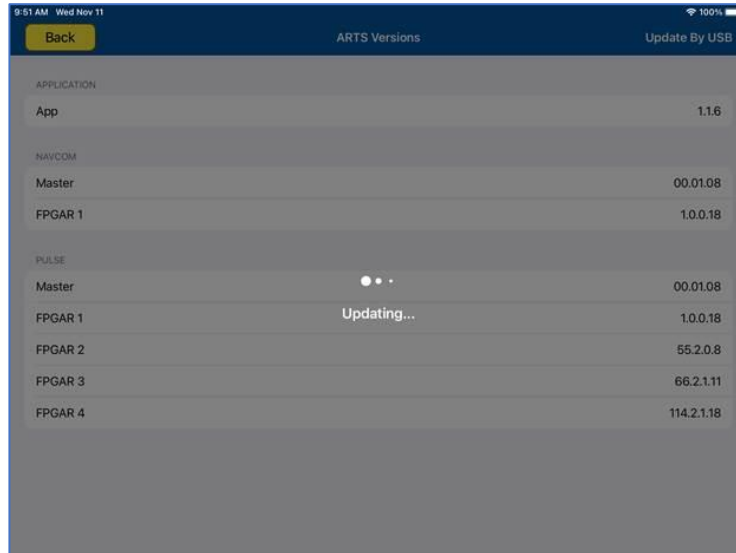
- Plug the USB memory stick prepared earlier into the USB slot on the top left of the Nav Com Module. Then press **Update By USB** in the tablet application.



- The iPad will now show the following screen:



- c. Press **Start** to begin the Software upload. Please note: this process can take up to 10 minutes.
- d. During the upload the iPad screen will show the following updating screen and progress screen:



- e. When the upload is complete the iPad will show the updated software on the following screen. Note: the picture is for illustration only, the versions will be different to those shown.



APPLICATION	Version
App	1.1.6
NAVCOM	
Master	00.01.18
FPGAR 1	1.0.0.18
PULSE	
Master	00.01.18
FPGAR 1	1.0.0.18
FPGAR 2	55.2.0.8
FPGAR 3	66.2.1.11
FPGAR 4	114.2.1.18

- f. It is recommended to take another screen shot of the ARTS versions page to confirm the update and keep a record of the software installed.

6. Shut down procedure

- To finalize the update press **Back** to return to the Utilities menu and **Back** to return to the Main menu.
- Close the iPad ARTS 7000 application.
- Power down the ARTS 7000.
- Remove the USB drive from the USB slot on the Nav/Com Module.

The ARTS 7000 system can now be used as normal.