

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).

Back	Software Update	1 73%
APP		ACTIONS
Version	1.13.0	Update By USB
NAVCOM		Update By Wi-Fi
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	

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 downloaded is completed, reconnect to the ARTS-7000 Wi-Fi, and press Next.

3:02 PM Mon Mar 6		수 100% 🔜
Back	Software Update	173% 😡
АРР	Exit Update By Wi-Fi	TIONS
Version		Update By USB
NAVCOM	Download completed. Select 'Wi-Fi Settings' and reconnect	Update By Wi-Fi
Master	to the ARTS-7000 Wi-Fi. Then return to the ARTS-7000 application and select 'Next'.	
Revision hardware	Wi-Ei Cottinge	
Bootloader	WI-FI Settings	
Audio	Controller	
FPGA 1		
PULSE		
Master		
Revision hardware		
Bootloader		
FPGA 1		
FPGA 2	Next	
FPGA 3	Here	
FPGA 4	114.3.0.0	

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



55 PM Mon Mar 6		€ 100%
Back	Software Update	174%
app Version	Update By Wi-Fi	Update By USB
		Undate Ry Wi-Ei
NAVCOM	Update in Progress. This can take several minutes. Please do not close the APTS-7000 application while update is in	opuate by wi-ri
Master	progress.	
Revision naroware	ITEMS TO UPDATE	
Bootloader	Controller	
Audio		
FPGA 1	·••	
	Updating	
Master		
Revision hardware		
Bootloader		
FPGA 1		
FPGA 2	Nevt	
FPGA 3	Next	
FPGA 4	114.3.0.0	

:04 PM Wed Mar 8		় 🗢 18% 🔳
Back	Software Update	1 21% 🔘
APP	Exit Update By Wi-Fi	
Version		Update By USB
NAVCOM	Update completed.	Update By Wi-Fi
Master		
Revision hardware		
Bootloader		
Audio		
FPGA 1		
PULSE		
Master		
Revision hardware		
Bootloader		
FPGA 1		
FPGA 2	Close	
FPGA 3	Close	
FPGA 4	114.3.0.0	
VSWR & GPS		

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**

Manage USE Drive (D)		- 0 3
Image: Source of the second	en * Viewer and Alexandre	
Ognard Organize New	Open Select	
· · · · · · · · · · · · · · · · · · ·	77.12 TEC 10.2 + 12.2 T	 D Person control (c)
line wide	Data medided type Sine 1111-122212129-044 File Anteine	
- VA One BD		

- 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.

2:00 PM Thu Jun 6	Main Menu	⇒ ≈ 75% = ⊃ ♥ (<mark>@)</mark>
Test Functions	Utilities	Documentation
Reports		
2:06 PM Thu Jun 6 Back	Utilities Menu) \$ 73% ■) ¥ (讷
200 PM THU JAN 6 Back Software	Utilities Menu Records (Deprecated)	Cable/Ant Loss
200 PM The Am 6 Back Software Permissions	Utilities Menu Records (Deprecated) User Preference	Cable/Ant Loss

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).



Back ARTS Versions Update APPLICATION App NAVCOM Master OC FPGAR 1	1.1.6
APPLICATION App NAVCOM Master OC FPGAR 1 1	1.1.6
App NAVCOM Master OC FPGAR1 1	1.1.6
NAVCOM Master 00 FPGAR1 1	0.01.08
Master 00 FPGAR 1 1	0.01.08
FPGAR 1 1	
	.0.0.18
PULSE	
Master 00	0.01.08
FPGAR 1 1	.0.0.18
FPGAR 2 5	5.2.0.8
FPGAR 3 66	6.2.1.11
	0.1.10

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.

a. 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.



b. 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:

Back		
APPLICATION		
App		1.1.6
NAVCOM		00.01.00
EDCAR 1		100.10
ir oni i		
PULSE		
Master	•••	00.01.08
FPGAR 1	Updating	1.0.0.18
FPGAR 2		55.2.0.8
FPGAR 3		66.2.1.1
FPGAR 4		114.2.1.18
AM. Wed Nov 11		\$ 100%
AM Wed Nov 11 Back	ARTS Versions	ক 100% Update By US
AM Wet Nov 11 Back	ARTS Versions	≉ 100% Update By US
AM Wed Nov 11 Back APPLICATION App	ARTS Versions	♥ took Update By US 1.1.6
AM Wed Nov 11 Back APPENCATION APPEN	ARTS Versions	♥ toow Update By US 11.6
AM Wee Nov 15 Back APPLICATION App NAYCOM Master	ARTS Versions	◆ 100% Update By US 1.1.6 00.01.08
AM Wed Nov 11 Back APPLICATION App MANYCOM Master EPGAR 1	ARTS Versions	♥ 100% Update By US 1.1.6 00.01.08 1.0.18
AM Wed Nev 11 Back APPLICATION App ANVCOM Master EPGAR 1 Desc	ARTS Versions	♥ 100% Update By US 1.1.6 00.01.08 1.0.18
AM Well New 11 Back APPELICATION App NANCOM Master FPGAR 1 Pulse Master	ARTS Versions	 toow Update By US 1.1.6 00.01.08 1.0.18 00.01.08
AM Wed Nov 11 Back APPLICATION APPLICATION App PAVCOM Master FPGAR 1 FPGAR 1 FPGAR 1	ARTS Versions	 took Update By US 1.16 00.01.08 1.00.18 00.01.03 1.00.18
AM We Nov 11 Back APPLICATION App NAVCOM Master FPGAR 1 PULSE FPGAR 1 FPGAR 2	ARTS Versions ••• Progress: 1/5	 ▼ 100% Update By US 1.16 00.01.08 00.01.08 00.01.08 1.00.18 1.00.18 5.5.2.08
AM Web Nov 11 Back APPLICATION App NAVCOM Master FPGAR 1 FPGAR 2 FPGAR 3	ARTS Versions	 tow Update By US 1.16 00.01.08 10.018 00.01.08 10.018 10.018 55.2.08 66.2.111
AM Wed Nex 11 Back APPLICATION App MAXCOM Master FPGAR 1 FPGAR 1 FPGAR 2 FPGAR 3 FPGAR 4	ARTS Versions ••• Progress: 1/5	 ▼ 100% Update By US 11.6 00.0108 00.0108 100.18 00.0108 100.18 5520.8 662.111 114.21.38
AM We Nov 11 Back APPLICATION App APPLICATION App AVVCOM Master FPGAR 1 FPGAR 1 FPGAR 2 FPGAR 3 FPGAR 3 FPGAR 4	ARTS Versions	 ▶ 100% Update By US 1.1.6 00.01.08 1.0.18 00.01.08 1.0.018 1.0.018 5.5.2.0.8 6.6.2.1.11 114.2.1.18

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.



AM Wed Nov 11		ବ ୨୨%
Back	ARTS Versions	Update By US
APPLICATION		
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

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

The ARTS 7000 system can now be used as normal.