



**GET  
SAT**  
BE UNSTOPPABLE



---

# Nano/Micro/Milli Version Upgrade Manual

---

## Upgrade Manual from 3.41-3.5.X Versions to a 4.6 WEB supported version Document # UM-250520 version 4.6

---

January 20, 2020

### Proprietary Notice

The information and ideas contained herein are proprietary to GetSAT communications Ltd. and shall not be duplicated or disclosed outside the receiving organization or the receiving organization's potential customer without prior written approval from GetSAT communications LTD., nor used by the receiving organization or any of its subsidiaries or affiliates, for any purpose other than evaluation of the ideas and work contained herein

any data contained in this document shall not be: (i) used for purposes other than the purposes explicitly agreed under the agreement addressing the provisions of this documents; (ii) copied or duplicated; (iii) reverse engineered or de-compiled, modified or revised; or (iv) used in any illegal manner or in any way that infringes any right of any third party including the rights in connection with privacy and intellectual property rights. (v) used to copy, modify, or create derivative works or improvements of the documents or products related thereto; (vi) used to access or use the products related thereto for purposes of competitive analysis of such product, the development, provision or use of a competing software service or product or any other purpose that is to Get Sat's detriment or commercial disadvantage; (vii) any trademarks, specifications, documentation, warranties or disclaimers, or any copyright, trademark, patent or other intellectual property or proprietary rights notices shall not be removed, deleted, altered or obscured from any document, product related thereto or deliverable or any part thereof or any other materials provided by Get Sat, including any copy thereof. (viii) any export control rule, law or regulation applicable to the documents or products related thereto shall not be infringed or breached.

# CONTENTS

1.	ABSTRACT .....	3
1.1	Revision History .....	3
1.2	Approvals .....	3
2.	VERSION UPGRADE STEPS .....	4
2.1	General upgrade process steps .....	4
3.	UPGRADE PROCEDURE .....	5

## **LIST OF FIGURES**

Figure 1:	GUI Version Upgrade Menu.....	5
Figure 2:	Version Update Form, Browse File .....	5
Figure 3:	About Form, Release Version 3.255 .....	6
Figure 4:	About Form, Release Version 4.6.....	6
Figure 5:	GUI Load Settings Menu .....	7
Figure 6:	GUI Load Settings Form, MFS Upload .....	7

## **LIST OF TABLES**

Table 1:	Revision history .....	3
Table 2:	Approvals .....	3

## 1. ABSTRACT

This document describes the Milli/Micro/Nano SAT version upgrade procedure from version 3.4X-3.5X to version 4.6. If you are upgrading from an older version, please contact GetSAT support at [support@getsat.com](mailto:support@getsat.com) For Help.

### 1.1 REVISION HISTORY

Table 1: Revision history

Release	Date	Author	Description
Ver 4.0.0.0	July 01, 2019	Shai Hakim	Update to 4.0.0
Ver 4.2.0.0	Dec 26, 2019	Mark Borohov	Update to 4.2.0.0
Ver 4.5	May 3, 2020	Mark Borohov	Update to 4.5
Ver 4.5.1	September 15, 2020	Mark Borohov	Update to 4.5
Ver 4.6	January 20, 2020	Mark Borohov	Update to 4.6

### 1.2 APPROVALS

Table 2: Approvals

Approved by	Date	Name	Signature
CTO	December 24, 2020	Oleg Roitberg	

## 2. VERSION UPGRADE STEPS

The update from version 3.4X to version 4.X.X.X resulted in changing the memory map to fit the code more efficiently into memory.

**Note:** If your current version is under 3.40, upgrade to 3.41 prior continuing with this guide

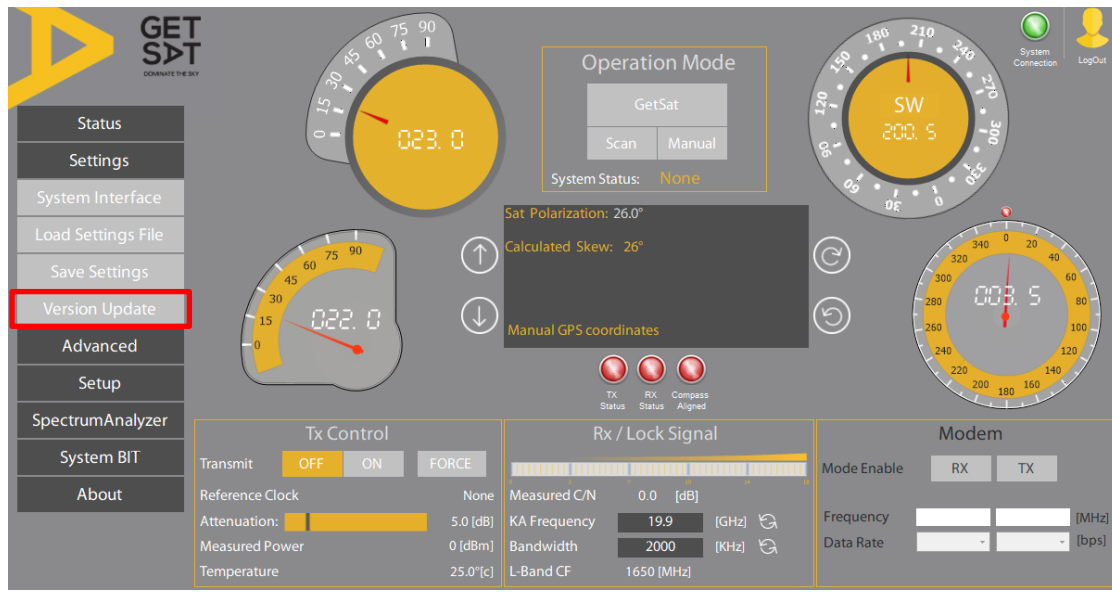
### 2.1 GENERAL UPGRADE PROCESS STEPS

- Save the system configuration from version 3.4x/3.5x
- Upgrade to an intermediate version that is capable to upgrade to version 4.6
- Use the intermediate version to load version 4.6 to Golden
- Use version 4.6 to load the Web UI binaries
- Restore the system configuration
- Load version 4.6 to bundle 1.

### 3. UPGRADE PROCEDURE

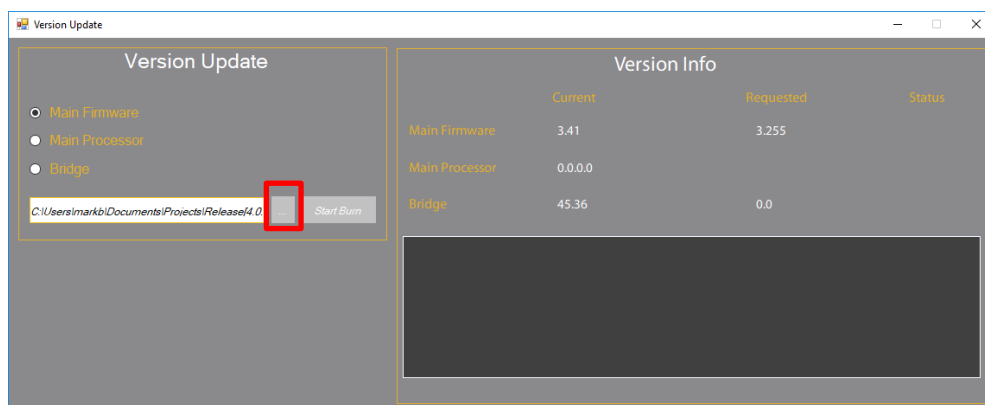
- 3.1.1 Log in to the system with a Technician account. (Use your current MicroApp)
- 3.1.2 First you **MUST** save the system configuration file (you will need it after the version upgrade). You **MUST** use your current GetSAT Tool App to save the configuration file.

Figure 1: GUI Version Upgrade Menu



- 3.1.3 Upgrade (Settings->Version Upgrade) the main firmware to version 3.255 under the following path: path to relevant file: Bin\upgrade\_3.X\_to\_4.6\First\_Step\3\_255.zip.

Figure 2: Version Update Form, Browse File



- 3.1.4 After the main firmware burn has completed successfully please power cycle the system and close the current MicroApp GUI.
- 3.1.5 Install GUI version 4.6 located in the GUI directory.
- 3.1.6 Log in to the system with a Technician account.
- 3.1.7 Verify the main firmware version (About menu).

Figure 3: About Form, Release Version 3.255

GetSat - About	
GUIVersion: 4.5.2.0	Release FW: 0.0.0 - Git: 0x012D0124
Device ID: 05:2020:017	Device Type: MicroSAT_LW - Ka
MicroTracker[F]: Fw.36 Sw.60.08	Boot: A
ActiveBridge: Fw.0 Sw.0.00	Boot:
SAM: 0.0	MoveControl: 22
BUC: 0.23.61.	SSPA: 0

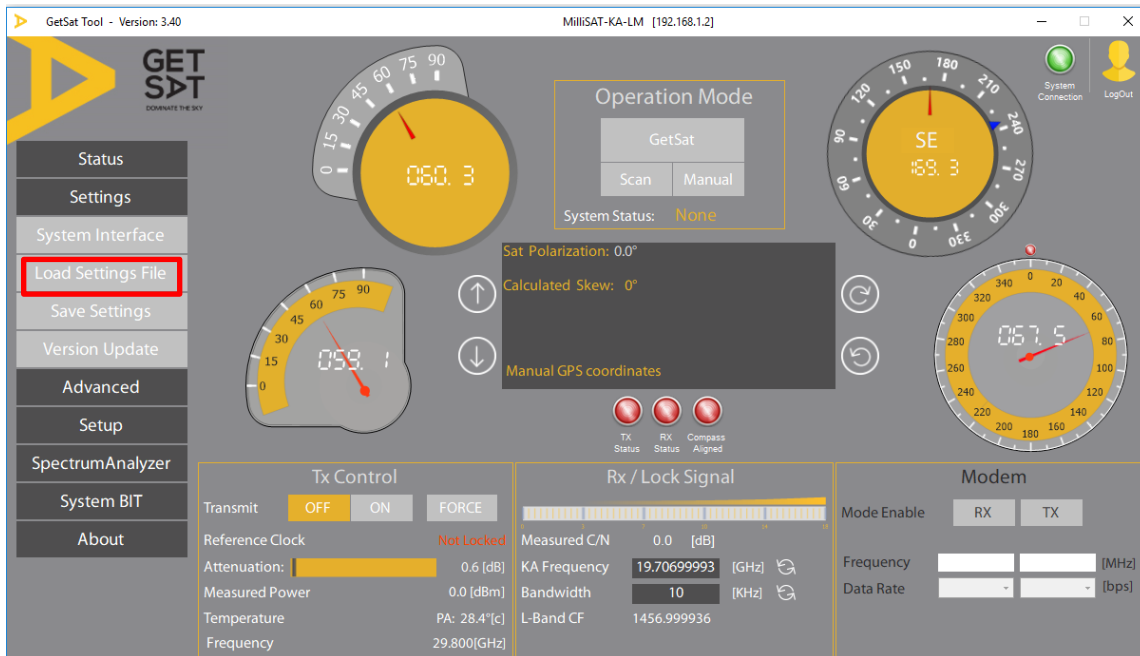
- 3.1.8 Make a screen shot of the Status -> System Debug, Settings -> System Interface, Spectrum Analyzer, Settings -> Control Constants, this will help you to restore to configuration latter on.
- 3.1.9 Upgrade (Settings->Version Upgrade) the main firmware to version Golden 4.6, path to relevant file: Bin\upgrade\_3.X\_to\_4.6\Second\_Step\microtracker\_Gold\_4.6.X.zip
- 3.1.10 Power cycle the system and restart the 4.6 MicroApp GUI.
- 3.1.11 The terminal will boot without any configuration, IP might be changed to default IP 192.168.1.3, if that is the case change the IP of your computer to 192.168.1.5.
- 3.1.12 Verify the main firmware version (About menu).

Figure 4: About Form, Release Version 4.6

GetSat - About	
GUIVersion: 4.0.0.0	Release: 4.6
Device ID: 00:0:000	Device Type: MicroSAT - Ka
MicroTracker[F]: Fw.52 Sw.70.16	Boot: B
DoubleBridge: Fw.36 Sw.45.00	Boot: A
SAM: 0.0	MoveControl: 22
BUC: 0	SSPA: 0

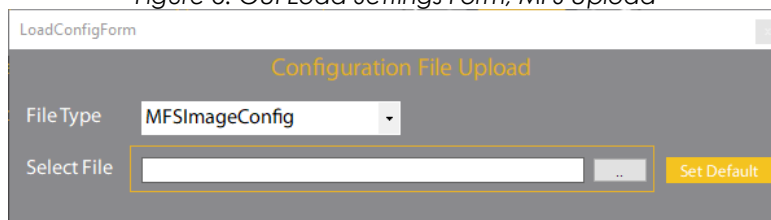
### 3.1.13 On MicroApp GUI go to the "Load Settings File" section

Figure 5: GUI Load Settings Menu



### 3.1.14 In Settings->Load configuration choose the MFSImageConfig file type and click the file select button.

Figure 6: GUI Load Settings Form, MFS Upload



### 3.1.15 Select the image\_ui file from the following path: Bin\upgrade\_3.X\_to\_4.6\Second\_Step\image\_ui\_4.6.x.x.zip.

### 3.1.16 Press the Set Default button and wait for the confirmation message

### 3.1.17 After the success message, wait two more minutes, while the MFS is burned to the SD-Card.

### 3.1.18 Go to Status -> System Debug and on Debug Interface set the address to 30 and press GET button if the data is showing 100, upload of MFS finished successfully, otherwise try again until you use 100.

### 3.1.19 The MFS file load is done.

- 3.1.20 Power cycle the terminal, now you will be able to load the Web UI, by opening a web browser with the IP of the terminal.
- 3.1.21 On Web UI login as admin and go to settings -> Packages and load the Terminal.xml file, this configuration file describes the components that this terminal is compound from.
- 3.1.22 On Web UI go to settings -> Packages and load the saved configuration file that saved before upgrading process to "General" configuration, if upload failed, download General from terminal, and compare the structure of the parameters of the XML(order of sections is not meter) and adjust the configuration file to the structure of the downloaded configuration file.
- 3.1.23 Power cycle the system.
- 3.1.24 Reload WEB UI and login as admin, IP of terminal may have changed during configuration upload.
- 3.1.25 Using 4.6 GUI make sure that all configuration has been loaded successfully, use the pictures you saved before.
- 3.1.26 On Web UI go to Setting -> Packages and upload an operational image 4.6 on bundle 1, select the bin file from the following path:  
Bin\upgrade\_3.X\_to\_4.6\Third\_Step\microtracker\_Oper\_4.6.X.zip.
- 3.1.27 On end of uploading process press the Activate button of bundle 1, terminal will reboot and will load from bundle 1.
- 3.1.28 Upload configuration again, return on steps 3.1.22 up to 3.1.25.
- 3.1.29 Reboot the terminal.
- 3.1.30 You have reached to the end of the upgrade procedure, terminal is ready to use with WEB-UI.