

# Extreme Update Procedure

### SENSX EXTREME





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This equipment has been tested and found to comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any change or modification to this product voids the user's authority to operate per FCC Part 15 Subpart A. Section 15.21 regulations.

#### Industry Canada Compliance

This device complies with Industry Canada License-exempt RSS standards. Operation is subject to the following two conditions: (1) this device may not cause interference and (2) this device must accept any interference, including interference that may cause undesired operation of the device. This device has been designed to operate with a variety of different gain (dBi). The reader maximum output power is set by the gain of the antenna. Using an antenna having a higher gain is strictly prohibited per regulations of Industry Canada. In addition, using the reader at a power exceeding the maximum output power for a given antenna is also strictly prohibited. The required antenna impedance is 50 ohms. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication.

#### Conformité d'Industrie Canada

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#### Caution

Reader antennas should be positioned so that personnel in the area for prolonged periods may safely remain at least 31 cm (12.2 in) in an uncontrolled environment from the antenna's surface. See FCC OET Bulletin 56 "Hazards of radio frequency and electromagnetic fields" and Bulletin 65 "Human exposure to radio frequency electromagnetic fields."

#### Vorsicht

Reader Antennen sollten so positioniert werden, dass das Personal im Bereich über einen längeren Zeitraum kann sicher bleiben mindestens 31 cm (12.2 Zoll) entfernt von der Antenne Oberfläche, in einer unkontrollierten Umgebung. Siehe FCC OET Bulletin 56 "Gefahren der Radiofrequenz und elektromagnetische Felder" und Bulletin 65 "Human Exposition gegenüber hochfrequenten elektromagnetischen Feldern."



## **Revision History**

Version	Author	Date	Changes
1.0	J. Major	Jan 2021	Initial Document
1.1	J. Major	May 2021	Add resolution for clock issue
1.2	J. Major	August 2021	Using the RFID console to set clock
1.3	N.Mitchell	November 2021	Updated copyright



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## CHAPTER 1 Introduction

The document describes the upgrade procedure for the SensThys Extreme reader. While the main upgrade commands are easy, we have also documented places where we has seen error messages and how to navigate those errors.

The output of this process is that your reader will be brought fully up to date with the latest Extreme software offered by SensThys.

### Chapter 2 Install

### Step 1 Find the reader IP address

First find the IP address of the Extreme. This can be done by using a program that listens to UDP broadcast message. If you have one, listen to port 3988. You will be able to see the "heartbeat" of your Extreme. From that heartbeat, find the IP address.

Otherwise launch the SensThys RFID Console, which can be found at SensThys.com. You can then easily find the IP Address.

쓪 SensThys F	RFID Console		– 🗆 X
Configure Reade	rs Read Tags Commission Tags Advanced	Settings	EPIC
Reader Name	eme 192.168.1.66 MAC Add		Select a Sensor to Change Settings.
	Clear Reader List Show Notifications Clear	Notifications:	Save Current Config Restore Saved Config Reset to Default Config
IP Address:	Model Number:	Build #:	S/N

### Step 1.a Setting the time on your Extreme

Go to the Advanced tab and select Features. Hit the "Set Reader Date/Time" button. In the column on the left, you'll see a confirmation that the reader time has been successfully set.



🎸 SensThys RFID Console	- 0	×
Configure Readers Read Tags Advanced Settings	EF	ЪС
Set Reader Date Time succeeded Areader Date/Time = 2021-08-12T12:18:46	Features       Performance       AutoSens         Current Reader Date & Time       Current Setting: 2021-08-12 12:18:46       Set Reader Date/Time         Reader Configuration       EPIC Mode Setting         Number of Antennas:       Number of Antennas:         Number of Ethemet Ports:       Set EPIC Mode         Number of GPIs:       Set EPIC Mode         Has DC Input:       Get Reader Config	
Clear Message List IP Address: 192.168.1.149 Model Number:	Inventory Filter         Mask Bank:       Clear Mask         Mask Start Bt Address:       0         Mask Length (# of bits):       Apply Filter         Mask (4 Hex digits per box):       Apply Filter         Mask (4 Hex digits per box):       Apply Filter         Mask (4 Hex digits per box):       Apply Filter         Many of the features present on the Advanced tab are made available for fine-tuning in special environments and for leading-edge that have a need for capabilities that are in development. Please be advised that some settings may put the reader in a state where i read tags. If this should happen, go to the Configure Readers tab, click the button "Reset to Default Config", then power cycle your re         SX11480       Build #:       C.2.105.05.01       S/N	t won't

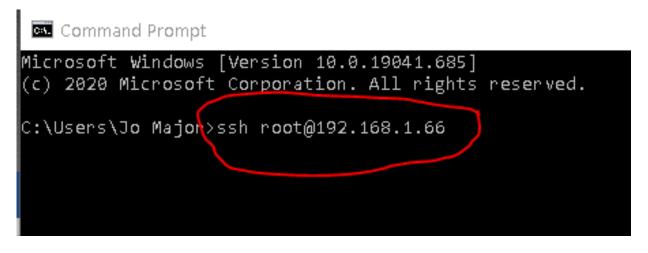
### Step 2 Getting into your Extreme

Open the Command Prompt

C:4.	Command Prompt
	rosoft Windows [Version 10.0.19041.685] 2020 Microsoft Corporation. All rights reserved.
c:∖	Users\Jo Major>
<b>—</b>	

Type ssh root@IP Address. The IP Address is the address found in the RFID Console or your listener.





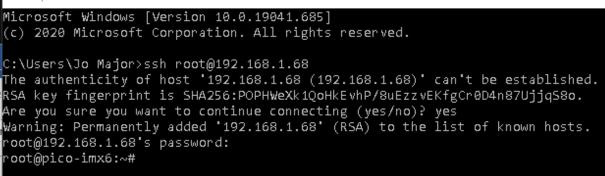
When you see "Are you sure...." type in yes.

Command Prompt - ssh root@192.168.1.68
Microsoft Windows [Version 10.0.19041.685]
(c) 2020 Microsoft Corporation. All rights reserved.
C:\Users\Jo Major>ssh root@192.168.1.68
The authenticity of host '192.168.1.68 (192.168.1.68)' can't be established.
RSA key fingerprint is SHA256:POPHWeXk1QoHkEvhP/8uEzzvEKfgCr0D4n87UjjqS8o.
Are you sure you want to continue connecting (yes/no)? yes

Enter the password. The password is sensthys1701

NOTE: the password will not show, in any way, as you are entering it. This is what you'll see when successful.

🔤 OpenSSH SSH client





### Step 3 Update Preparation

Next type in apt-get update and enter.

OpenSSH SSH client
Microsoft Windows [Version 10.0.19041.685] (c) 2020 Microsoft Corporation. All rights reserved.
C:\Users\Jo Major>ssh root@192.168.1.68 The authenticity of host '192.168.1.68 (192.168.1.68)' can't be established. RSA key fingerprint is SHA256:POPHWeXk1QoHkEvhP/8uEzzvEKfgCr0D4n87UjjqS8o. Are you sure you want to continue connecting (yes/no)? yes Warning: Permanently added '192.168.1.68' (RSA) to the list of known hosts. root@192.168.1.68's password: root@pico-imx6:~# apt-get update

This will launch a series of actions working through the various files of the Extreme. If all goes well, you should see the following screen.



🚾 OpenSSH SSH client

C:\Users\Jo Major>ssh root@192.168.1.68 The authenticity of host '192.168.1.68 (192.168.1.68)' can't be established. RSA key fingerprint is SHA256:POPHWeXk1QoHkEvhP/8uEzzvEKfgCr0D4n87UjjqS8o. Are you sure you want to continue connecting (yes/no)? yes Warning: Permanently added '192.168.1.68' (RSA) to the list of known hosts. root@192.168.1.68's password: oot@pico-imx6:~# apt-get update Ign:1 https://www.sensthys.com extremepackage/ InRelease Ign:2 https://www.sensthys.com fwpackage/ InRelease Ign:3 https://www.sensthys.com bleserver/ InRelease Ign:4 https://www.sensthys.com python3/ InRelease Ign:5 https://www.sensthys.com extremepackage/ Release Ign:6 https://www.sensthys.com fwpackage/ Release Ign:7 https://www.sensthys.com bleserver/ Release Ign:8 https://www.sensthys.com python3/ Release Ign:9 https://www.sensthys.com extremepackage/ Packages.diff/Index Ign:10 https://www.sensthys.com extremepackage/ Translation-en Ign:11 https://www.sensthys.com fwpackage/ Packages.diff/Index Ign:12 https://www.sensthys.com fwpackage/ Translation-en Ign:13 https://www.sensthys.com bleserver/ Packages.diff/Index Ign:14 https://www.sensthys.com bleserver/ Translation-en Ign:15 https://www.sensthys.com python3/ Packages.diff/Index Ign:16 https://www.sensthys.com python3/ Translation-en Ign:17 https://www.sensthys.com extremepackage/ Packages Ign:10 https://www.sensthys.com extremepackage/ Translation-en Ign:18 https://www.sensthys.com fwpackage/ Packages Ign:12 https://www.sensthys.com fwpackage/ Translation-en Ign:19 https://www.sensthys.com bleserver/ Packages Ign:14 https://www.sensthys.com bleserver/ Translation-en Ign:20 https://www.sensthys.com python3/ Packages Ign:16 https://www.sensthys.com python3/ Translation-en Ign:17 https://www.sensthys.com extremepackage/ Packages Ign:10 https://www.sensthys.com extremepackage/ Translation-en Ign:18 https://www.sensthys.com fwpackage/ Packages Ign:12 https://www.sensthys.com fwpackage/ Translation-en Ign:19 https://www.sensthys.com bleserver/ Packages Ign:14 https://www.sensthys.com bleserver/ Translation-en Ign:14 https://www.sensthys.com python3/ Packages Ign:16 https://www.sensthys.com python3/ Translation-en Get:17 https://www.sensthys.com extremepackage/ Packages [366 B] Ign:10 https://www.sensthys.com extremepackage/ Translation-en Hit:18 https://www.sensthys.com fwpackage/ Packages Ign:12 https://www.sensthys.com fwpackage/ Translation-en Hit:19 https://www.sensthys.com bleserver/ Packages Ign:14 https://www.sensthys.com bleserver/ Translation-en Hit:20 https://www.sensthys.com python3/ Packages Ign:16 https://www.sensthys.com python3/ Translation-en etched 366 B in 1min 24s (4 B/s) Reading package lists. 🦲 Done

The successful response to the apt-get update command. If seen, please go to Step 4. Occasionally, this process will show error messages. you'll see that the reader has duplicate names in the file system. We list the errors know to us, and how to resolve them. Please contact us if you come across an error not discussed here.



#### Step 3.1 Fixing the "Configured Multiple Times"

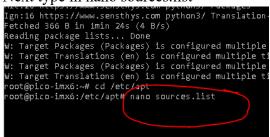


Here we see the "configured multiple times" message.

To start, please type
cd /etc/apt
This changes the targeted directory and should return this screen.
w: Tanget Packages (Packages) is configured mult
W: Target Translations (en) is configured multip
W: Target Packages (Packages) is configured mult
W: Target Translat <u>ions (en) is</u> configured multip
root@pico-imx6:~# cd /etc/apt/
root@pico-imx6:/etc/apt#



Next type in nano sources.list



This will show you a list. Examining the following list, you'll see that the second and fifth lines are identical.

💌 OpenSSH SSH	client						_		$\times$
GNU nano 2.7	.4		File:	sources.list					^
	es] https://www es] https://www es] https://www	.sensthys.com	fwpackage/ bleserver/ python3/						
<mark>^G</mark> Get Help <mark>^X</mark> Exit	<mark>^O</mark> Write Out <mark>^R</mark> Read File	^₩ Where Is ^\ Replace	<mark>^K</mark> Cut Text <mark>^U</mark> Uncut Text	<mark>^]</mark> Justify <mark>^T</mark> ⊤o Spell	^C Cur Pos ^_ Go To Line	<mark>^Y</mark> Prev Page <mark>^V</mark> Next Page		irst Lin ast Lin	

Using your arrow keys to erase the bottom line. That should give you this screen. On this screen please Exit using ^X as shown in the bottom left.

🔤 OpenSSH SSH client			- 🗆 ×
GNU nano 2.7.4		File: sources.list	Modified 🔨
deb [trusted=yes] h deb [trusted=yes] h	ttps://www.sensthys.com extremepack ttps://www.sensthys.com fwpackage/ ttps://www.sensthys.com bleserver/ ttps://www.sensthys.com python3/	age/	
	rite Out _^₩ ₩here Is^K Cut Te ead File _^\_ReplaceU Uncut	xt <mark>^J</mark> Justify <mark>^C</mark> Cur Pos Text <mark>^T</mark> To Spell <mark>^</mark> Go To Line	^Y Prev Page M-∖ First Line ^V Next Page M-/ Last Line ↓



That will bring you to this screen. Note the line that says "File Name to Write: sources.list"

#### Hit Enter.

🔤 OpenSSH SSH client		- 🗆 ×
GNU nano 2.7.4	File: sources.list	Modified ^
deb [trusted=yes] ht deb [trusted=yes] ht	tps://www.sensthys.com extremepackage/ tps://www.sensthys.com fwpackage/ tps://www.sensthys.com bleserver/ tps://www.sensthys.com python3/	
File Name to Write:	sources.list	
^G Get Help ^C Cancel	M-D DOS Format M-A Append M-M Mac Format M-P Prepend	M-B Backup File ^T To Files

Now let's verify that the issue has been resolved.



Please enter apt-get update, and you should now see your problem resolved.

oot@pico-imx6:/etc/apt# apt-get update Ign:1 https://www.sensthys.com extremepackage/ InRelease Ign:2 https://www.sensthys.com fwpackage/ InRelease gn:3 https://www.sensthys.com bleserver/ InRelease Ign:4 https://www.sensthys.com python3/ InRelease Ign:5 https://www.sensthys.com extremepackage/ Release gn:6 https://www.sensthys.com fwpackage/ Release [gn:7 https://www.sensthys.com bleserver/ Release Ign:8 https://www.sensthys.com python3/ Release Ign:9 https://www.sensthys.com extremepackage/ Packages.diff/Index Ign:10 https://www.sensthys.com extremepackage/ Translation-en Ign:11 https://www.sensthys.com fwpackage/ Packages.diff/Index Ign:12 https://www.sensthys.com fwpackage/ Translation-en Ign:13 https://www.sensthys.com bleserver/ Packages.diff/Index Ign:14 https://www.sensthys.com bleserver/ Translation-en [gn:15 https://www.sensthys.com python3/ Packages.diff/Index Ign:16 https://www.sensthys.com python3/ Translation-en Ign:17 https://www.sensthys.com extremepackage/ Packages Ign:10 https://www.sensthys.com extremepackage/ Translation-en Ign:18 https://www.sensthys.com fwpackage/ Packages Ign:12 https://www.sensthys.com fwpackage/ Translation-en gn:19 https://www.sensthys.com bleserver/ Packages Ign:14 https://www.sensthys.com bleserver/ Translation-en Ign:20 https://www.sensthys.com python3/ Packages Ign:16 https://www.sensthys.com python3/ Translation-en Ign:17 https://www.sensthys.com extremepackage/ Packages Ign:10 https://www.sensthys.com extremepackage/ Translation-en Ign:18 https://www.sensthys.com fwpackage/ Packages Ign:12 https://www.sensthys.com fwpackage/ Translation-en Ign:19 https://www.sensthys.com bleserver/ Packages [gn:14 https://www.sensthys.com bleserver/ Translation-en Ign:20 https://www.sensthys.com python3/ Packages Ign:16 https://www.sensthys.com python3/ Translation-en Hit:17 https://www.sensthys.com extremepackage/ Packages Ign:10 https://www.sensthys.com extremepackage/ Translation-en Hit:18 https://www.sensthys.com fwpackage/ Packages Ign:12 https://www.sensthys.com fwpackage/ Translation-en Hit:19 https://www.sensthys.com bleserver/ Packages Ign:14 https://www.sensthys.com bleserver/ Translation-en Hit:20 https://www.sensthys.com python3/ Packages Ign:16 https://www.sensthys.com python3/ Translation-en Reading package lists... Done oot@pico-imx6:/etc/apt#



#### Step 3.2 Fixing the Certificates Issue

If you see a series of errors discussion "certificates", then your reader needs to have its clock set. The Extreme does not have an onboard clock with battery backup. When the Extreme boots up, if there is nothing in the environment that "sets" the clock of the Extreme, the clock will be far enough off that the validation of certificates involved with the Apt-Get process doesn't work.

Let's first figure out if this is the issue – starting with requesting the reader tell us the date and time. Two notes – the time is expressed in a 24h format and the time is UTC. Coordinated Universal Time (UTC) is 7 hours ahead of Pacific Time.

Request time and date

#### root@pico-imx6:~# date Wed May 12 16:23:49 UTC 2021

Now set the date and time. Please note the *exact format* of this command. Set this to the actual date and time.

#### root@pico-imx6:~# date "2021-05-12 16:23:00" Wed May 12 16:23:00 UTC 2021

Verify that the date and time are now correct.

#### root@pico-imx6:~# date Wed May 12 16:23:03 UTC 2021

Please enter apt-get update, and you should now see your problem resolved.



oot@pico-imx6:/etc/apt# apt-get update [gn:1 https://www.sensthys.com extremepackage/ InRelease Ign:2 https://www.sensthys.com fwpackage/ InRelease Ign:3 https://www.sensthys.com bleserver/ InRelease gn:4 https://www.sensthys.com python3/ InRelease Ign:5 https://www.sensthys.com extremepackage/ Release Ign:6 https://www.sensthys.com fwpackage/ Release gn:7 https://www.sensthys.com bleserver/ Release gn:8 https://www.sensthys.com python3/ Release gn:9 https://www.sensthys.com extremepackage/ Packages.diff/Index Ign:10 https://www.sensthys.com extremepackage/ Translation-en gn:11 https://www.sensthys.com fwpackage/ Packages.diff/Index gn:12 https://www.sensthys.com fwpackage/ Translation-en gn:13 https://www.sensthys.com bleserver/ Packages.diff/Index Ign:14 https://www.sensthys.com bleserver/ Translation-en Ign:15 https://www.sensthys.com python3/ Packages.diff/Index Ign:16 https://www.sensthys.com python3/ Translation-en Ign:17 https://www.sensthys.com extremepackage/ Packages gn:10 https://www.sensthys.com extremepackage/ Translation-en Ign:18 https://www.sensthys.com fwpackage/ Packages Ign:12 https://www.sensthys.com fwpackage/ Translation-en ign:19 https://www.sensthys.com bleserver/ Packages Ign:14 https://www.sensthys.com bleserver/ Translation-en Ign:20 https://www.sensthys.com python3/ Packages Ign:16 https://www.sensthys.com python3/ Translation-en Ign:17 https://www.sensthys.com extremepackage/ Packages Ign:10 https://www.sensthys.com extremepackage/ Translation-en gn:18 https://www.sensthys.com fwpackage/ Packages Ign:12 https://www.sensthys.com fwpackage/ Translation-en Ign:19 https://www.sensthys.com bleserver/ Packages Ign:14 https://www.sensthys.com bleserver/ Translation-en Ign:20 https://www.sensthys.com python3/ Packages Ign:16 https://www.sensthys.com python3/ Translation-en Hit:17 https://www.sensthys.com extremepackage/ Packages Ign:10 https://www.sensthys.com extremepackage/ Translation-en Hit:18 https://www.sensthys.com fwpackage/ Packages Ign:12 https://www.sensthys.com fwpackage/ Translation-en Hit:19 https://www.sensthys.com bleserver/ Packages Ign:14 https://www.sensthys.com bleserver/ Translation-en Hit:20 https://www.sensthys.com python3/ Packages Ign:16 https://www.sensthys.com python3/ Translation-en Reading package lists... Done oot@pico-imx6:/etc/apt#



### Step 4Update the Reader

Now enter apt-get install extremepackage



#### Step 4.1 Fixing the dpkg error

If the install process provides responds with "dpkg was interrupted, you must manually run "dpkg – configure -a"" the reader has picked up a dpkg bug.

If you didn't see this message, please proceed to 4.2

If you did see this message, please enter dpkg – configure -a





2r Step 4.2 Installing extremepackage

Please type in apt-get install extremepackage. When you see "Do you want to continue", please enter Y.

Description: Extreme software core services, web interface updates, LLRP
root@pico-imx6:/etc/apt#_dpkgconfigurea
root@pico-imx6:/etc/apt# apt-get install extremepackage
Reading package lists Done
Building dependency tree
Reading state information Done
The following additional packages will be installed:
bleser ver
The following packages will be upgraded:
bleserver extremepackage
2 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
1 not fully installed or removed.
Need to get 4222 kB/5494 kB of archives.
After this operation, 2048 kB of additional disk space will be used.
Do you want to continue? [Y/n]

Following the upgrade process, the reader will go down to reboot.

```
After this operation, 2048 kB of additional disk space will be used.

Do you want to continue? [Y/n] Y

Get:1 https://www.sensthys.com extremepackage/ extremepackage 1.1.40 [4222 kB]

Fetched 4222 kB in 3s (1266 kB/s)

(Reading database ... 230 files and directories currently installed.)

Preparing to unpack .../bleserver_1.0.1_all.deb ...

Unpacking bleserver (1.0.1) over (1.0.1) ...

Preparing to unpack .../extremepackage_1.1.40_all.deb ...

Unpacking extremepackage (1.1.40) over (1.1.37) ...

Setting up bleserver (1.0.1) ...

Broadcast message from root@pico-imx6 (pts/1) (Wed Feb 10 21:56:29 2021):

The system is going down for reboot NOWL

root@pico-imx6:/etc/apt#
```



## Chapter 5 Verify the Update

Please close the RFID Console.

Relaunch the console and wait for the Extreme to appear. Click on the reader. It may be that the reader isn't fully UP and in the messages it asked you to click on the reader again. Once the reader is up and running, the lower message should say "No errors logged".

If you select the Sensor tab, the build # will reflect that the software package has been updated.

Reader Name	IP Address	MAC Address	Up Time	Active Cou	Sensor Network Setup	RFID Setup GPIO Contro	I GPS Setup IMU S	stup Updates	
SensX Extreme	192.168.1.68	00:1f:7b:73:18:d2	00:02:01	5					
					Name:	SensX Extreme			
					Model:	SX11480	0.0		1110
					Serial #:	4194000001			
					Build #: (	C.21.02.08.01		10A	1
					Module FW #:	V3.1.14	5		-
					Latitude:	0.00000			
					Longitude:	0.00000			
					Elevation:	0.0			
	Clear Rea	der List		>					
eading Sensor Setup for 1	192.168.1.68			~					
o errors logged.									
							F	Reboot Reader	
				~					