

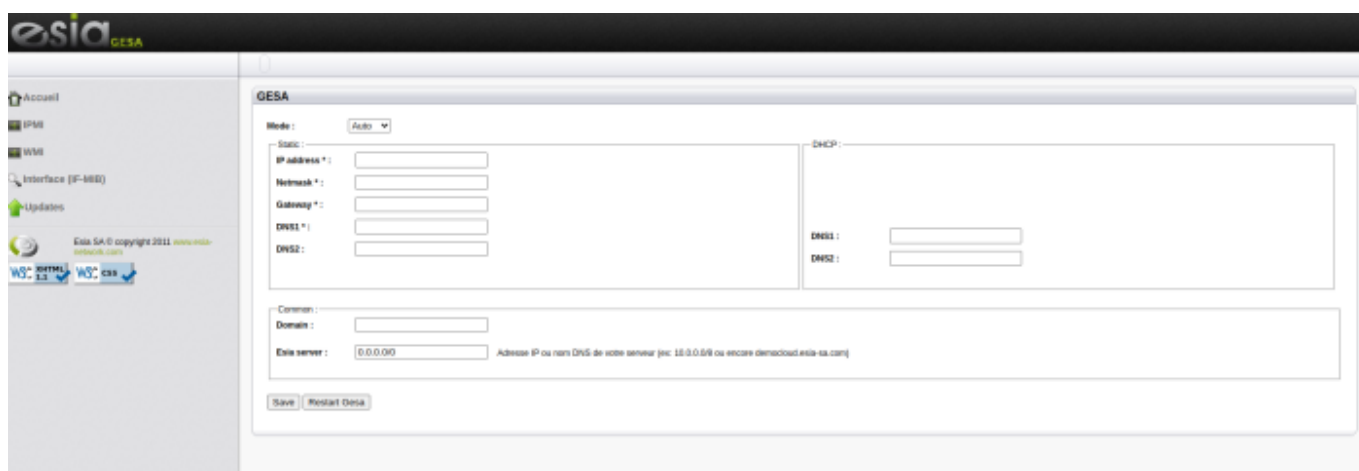
Upgrading from Unity Debian 8 to Debian 11

Introduction

This procedure explains how to upgrade one of our old ARM Unity (green boxes) to our new Debian Bullseye-based OS.

⚠ In this procedure, the update skips several versions, which is normal as the system is completely reinstalled while retaining the Unity configuration. ⚠

You're on the right tutorial if the web interface looks like this:



Unsupported models (GESA 2)

GESA 2s are very old Unity models and are **no longer supported** (even though the web interface looks like the image above). **This update is therefore not planned for this model!**

These models were supplied up to 2017. So if your Unity serial number starts with 2018 or later, it is not a GESA 2. If the SN starts with 2016 or older, it is a GESA 2.

For SNs starting with 2017, the two models have coexisted. You need to check the model field on the gesa info website. To do this, scan the QR code on the underside of the Unity or go to <https://infogesa.esia-sa.com/info.php?SN=> adding the serial number (without dashes or spaces) after the SN=



Requirements

⚠⚠⚠ **Before launching the update, check that the /boot partition has enough free space.**

⚠⚠⚠

It may be necessary to clean it up first, otherwise the operating system could be damaged.

You can check this using the command :

copy

```
df -h /boot
```

If you are in any doubt, please contact our support team.

⚠ **Avoid unplugging the box during the operation** A power failure or interruption could cause the Unity OS to fail.

Creation of a USB key (8 GB) for updating

- [Download](#) the image of the USB key. (Extract the downloaded zip file).

if the download is long and/or unstable, you can use this link :

http://stable.fr.repository.esia-sa.com/img_vm/

- Make the USB stick bootable (8 GB minimum)
 - With Rufus <https://rufus.ie/fr/>
- Connect the USB key to the Unity.

Step 1 - Boot Unity onto the USB stick

- The old Unity OS must be up to date. Otherwise the esia-update-unity script will be missing.
- Connect the USB key to Unity.
- Connect ssh to the old Unity: (port 2222, login 'esia', password 'gesa')
- Start the boot script on the USB key, enter :

```
esia-update-unity
```

```
Check if update is possible:
OK      - This is a correct raspberry pi version (>= 3)
OK      - SD card has enough pace
OK      - Unity USB KEY valid.

Now, the box will restart:
- You must waiting 2 minutes and retry to reconnect to Unity from ssh client.
- Next, you must execute this 'sudo unity_update.sh
Press ENTER to continue or CTRL + C to exit
█
```

- Confirm the update by pressing 'ENTER'.

```
Check if update is possible:
OK      - This is a correct raspberry pi version (>= 3)
OK      - SD card has enough pace
OK      - Unity USB KEY valid.

Now, the box will restart:
- You must waiting 2 minutes and retry to reconnect to Unity from ssh client.
- Next, you must execute this 'sudo unity_update.sh
Press ENTER to continue or CTRL + C to exit

Pre-reboot process
- Set USB KEY network conf
- Backup Unity network and password parameters
Reboot
```

Unity will then restart on the USB key.

Step 2 - Update Unity

- SSH connection to the USB key (port 2222, login 'esia', password 'gesa')

Your computer may give you an SSH key error, this is normal. Once connected in SSH, you should have this displayed on the screen.

If the host name is '**UNITY-REPAIR**', this means that Unity has booted correctly from the USB key.

```
Linux UNITY-REPAIR 6.1.58-v8+ #1694 SMP PREEMPT Mon Oct 30 11:52:28 GMT 2023
aarch64
```

The programs included with the Debian GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

Last login: Tue Jan 16 15:24:31 2024 from 10.14.0.32

Wi-Fi is currently blocked by rfkill.

Use raspi-config to set the country before use.

```
esia@UNITY-REPAIR:~ $
```

Now type this command

```
esia-update-unity
```

The system will ask you for the password again, type

```
gesa
```

Unity will ask you to press “enter” to start the installation.



It is essential to avoid shutting down the terminal or a power cut, as the SD card in the unity will be damaged and will no longer boot.

The unity will then update itself.

```
esia@UNITY-REPAIR:~ $ esia-update-unity
sudo: unable to resolve host UNITY-REPAIR: Name or service not known
[sudo] password for esia:
This process is irreversible. Do you want to continue ?
Press ENTER to continue or CTRL + C to exit
```

Transfer disk image to SD card

Disk image size : 1.2G

49.4MiB 0:00:18 [1.82MiB/s] [====>] 11% ETA 0:05:14

Unity now reboots on the updated GESA OS. The update is now complete.

You can check that the update has been completed by entering the Unity IP address in your browser.

If you reach this page, everything has gone smoothly.



You can remove the USB key and use it on another box.

IMPORTANT: Update the Unity from its repositories from the graphical interface



GESA Unity

FR esia

INFORMATIONS GÉNÉRALES

Adresse IP publique	/	Numéro de série	Serveur lié
Adresse IP locale	192.168.219.1	Type	Unity
Masque de sous-réseau	255.255.255.0	Modèle	PI 3 Model B Rev 1.2
Passerelle	192.168.219.254	Version de l'OS	Debian 11.9
DNS			

MISES À JOUR

Mettre à jour

Dernière mise à jour - Début	22/03/24 00:23:01	Heure de mise à jour journalière	Pas configurées
Dernière mise à jour - Fin	22/03/24 00:23:28		

PAQUETS

STATUS	NOM	VERSION	DESCRIPTION
✓	esia-plugins-basic	1.6.5+11r0	The Esia plugins for galaxy
✓	esia-plugins-common	3.6.4+22r0	The Esia main plugins
✓	esia-plugins-open	2.2.8+3r0	Community Opensource plugins
✓	esia-rcm	0.0.3+1r0	Remote Control Manager
✓	esia-watchdog	2.3.3+4r0	Used to restart esia important systems after crash
✓	gesa-base	3.0.9+3r0	GESA configurations initiales
✓	gesa-ecatp-client	2.0.20+0r0	Client Ecatp

DIAGNOSTIQUE

Résolution DNS	OK
Accès internet	OK
Connexion au serveur	OK
Liaison ECATP	OK

INTERFACES

IF INDEX	ADRESSE IP	NOM	STATUS	NOMBRE D'OCTETS REÇU	NOMBRE D'OCTETS ENVOYÉS	ERREURS EN ENTRÉE (CRC)	ERREURS EN SORTIE	MTU	VITESSE
2	192.168.219.1	eth0	up	49.68 MB	16.75 MB	0	0	1500	1000 Mb/s
3		wlan0	down	0	0	0	0	1500	1000 Mb/s

ps: remember to refresh your browser's cache after the update (ctrl + f5)

From:

<https://wiki.esia-sa.com/> - **Esia Wiki**

Permanent link:

https://wiki.esia-sa.com/en/advanced/update_unity_arm

Last update:

2025/11/14 10:28

