



Technical Guide

Anybus Defender Offline Update

ENGLISH

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1 Offline Update

Updating the Anybus Defender firmware is usually done online, through the WAN interface (usually IGB0), as long as it is able to reach the public update server. However, in certain cases where the device cannot reach the internet upgrade is still possible with the offline method. This document serves as a step-by-step guide.

NOTE: This upgrade procedure is applicable to Anybus Defender 4000 and higher series only.

1.1 Preparation

Download the firmware image from www.hms-networks.com, under the Support & downloads Tab for the individual product, under “Downloads, documentation and resources”, section “Firmware”.

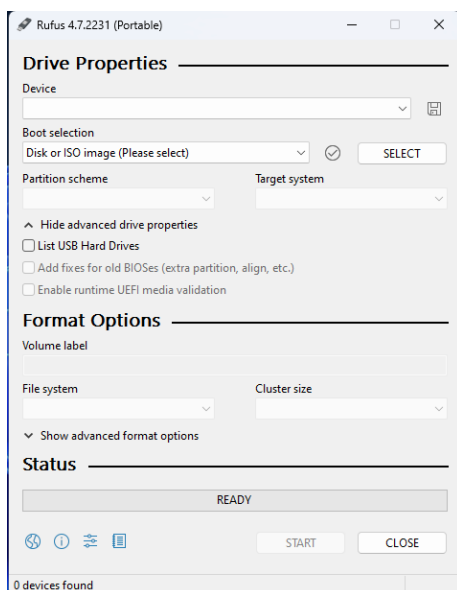
Download the file, for instance “Anybus.DefenderFW-Offline-Update-2.5.2-RELEASE-2025042412.img.gz” and unzip it to reveal the .img file.

1.2 Creation of USB stick

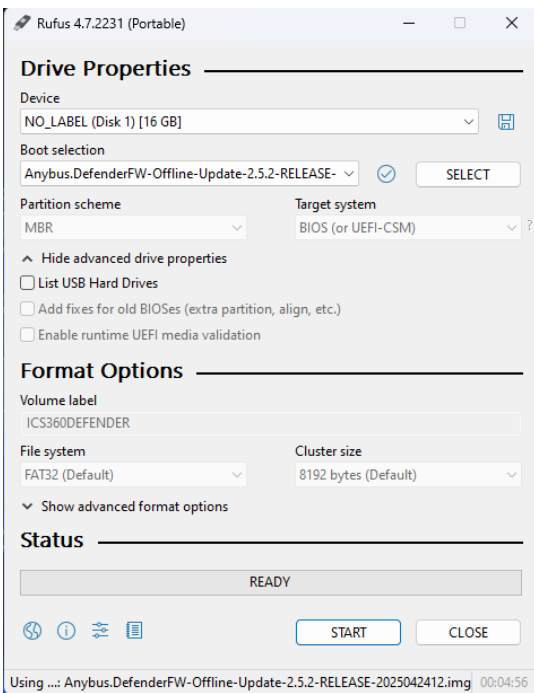
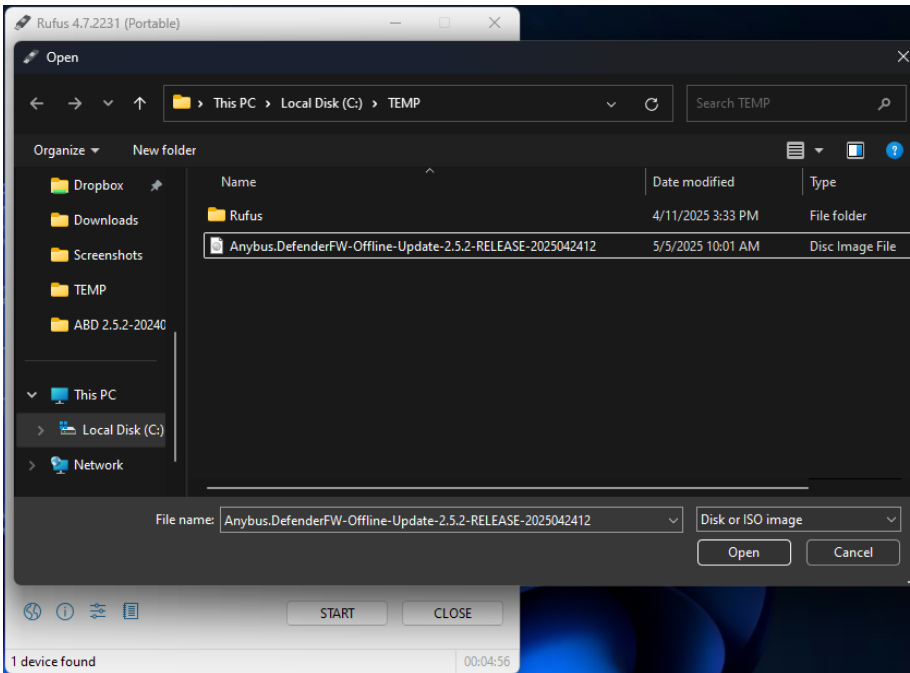
First a USB stick needs to be prepared with the right image. Use the image called “Offline-Update” from the release package. To create a USB disk a Windows tool called Rufus must be used.

Download the latest version of Rufus here: <https://rufus.ie/>

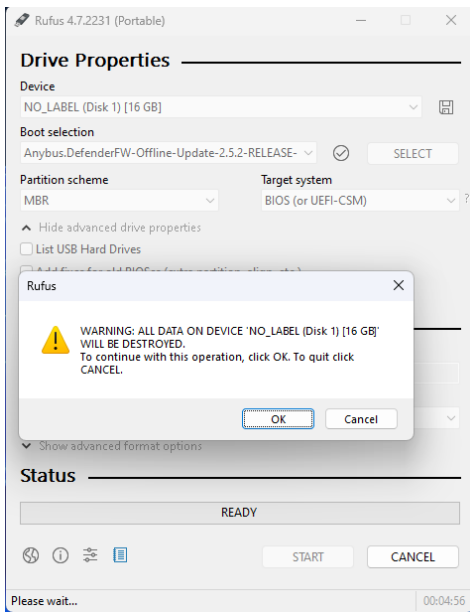
Start Rufus



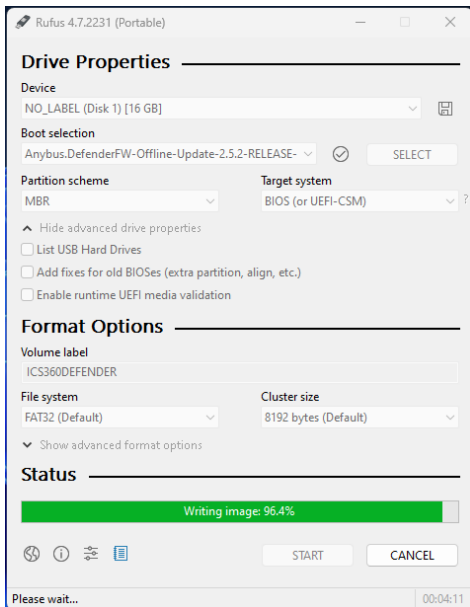
Press SELECT to open an image. Select an unzipped file with “Offline-Update” to create one to flash the device completely. In this example: Anybus.DefenderFW-Offline-Update-2.5.2-RELEASE-2025042412.img



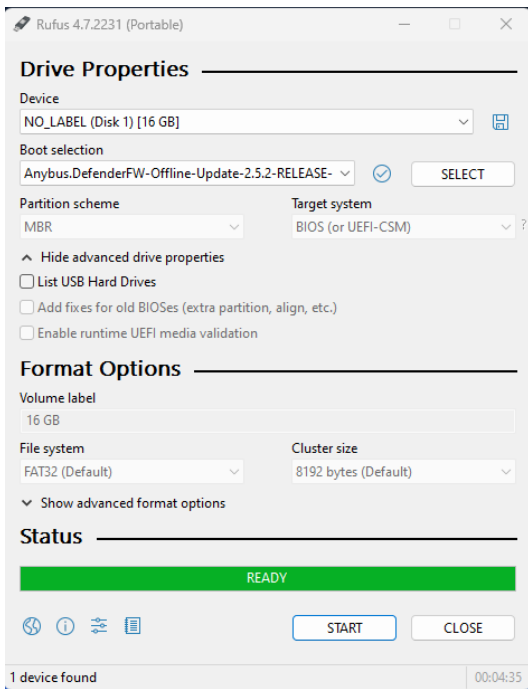
Press **START** and Acknowledge that all data on the USB drive will be destroyed.



Let Rufus prepare the USB stick with the offline update. This can take a few minutes.



When ready the status screen looks like this:



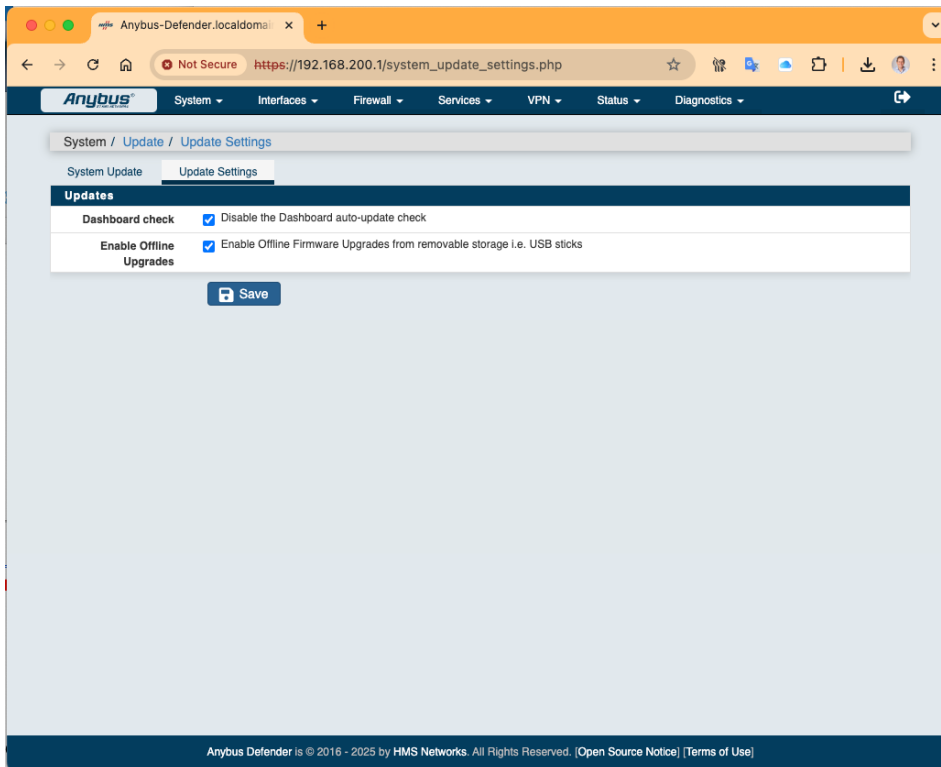
Now put the USB drive in one of USB ports on the Anybus Defender that you want to update. Any of the USB ports will work.

1.3 Enable offline update mode

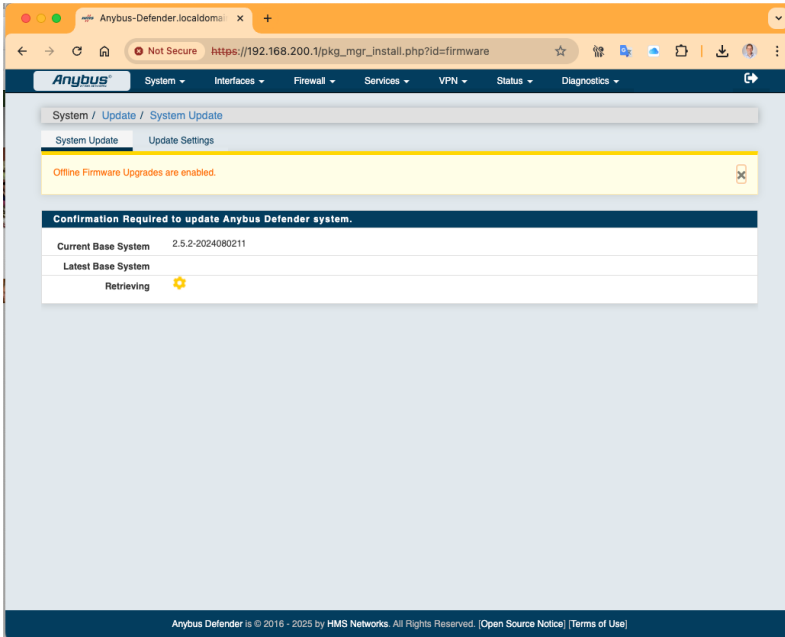
Connect to the Anybus Defender web configuration interface. By default, open a browser and surf to <https://192.168.200.1>.

NOTE: This does not have to be done locally, e.g. you can have someone else insert the USB key in the Defender and remotely access the device to initiate an update.

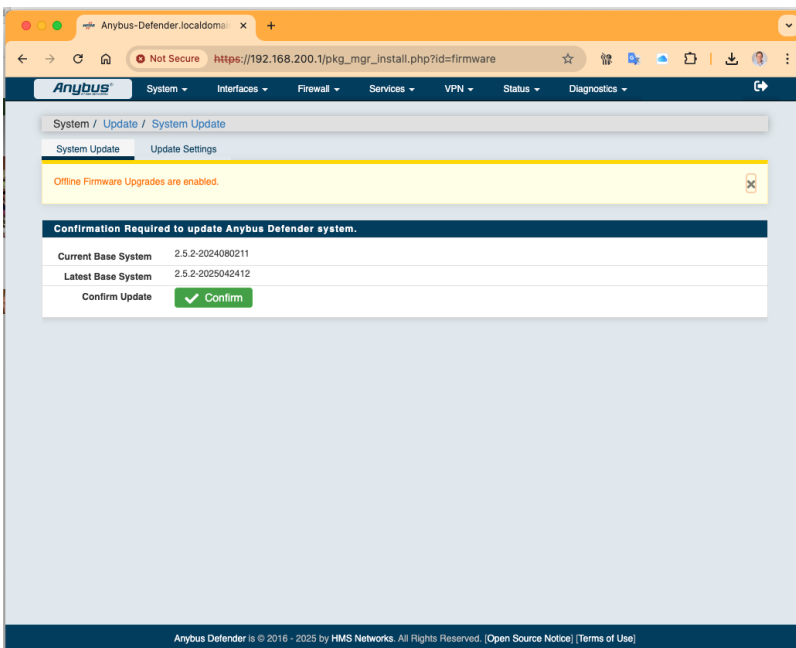
In MENU: System -> Update, TAB: Update Settings, find the setting "Enable Offline Firmware Updates from removable storage i.e. USB sticks" and select the checkbox in front. Press "Save" to confirm.



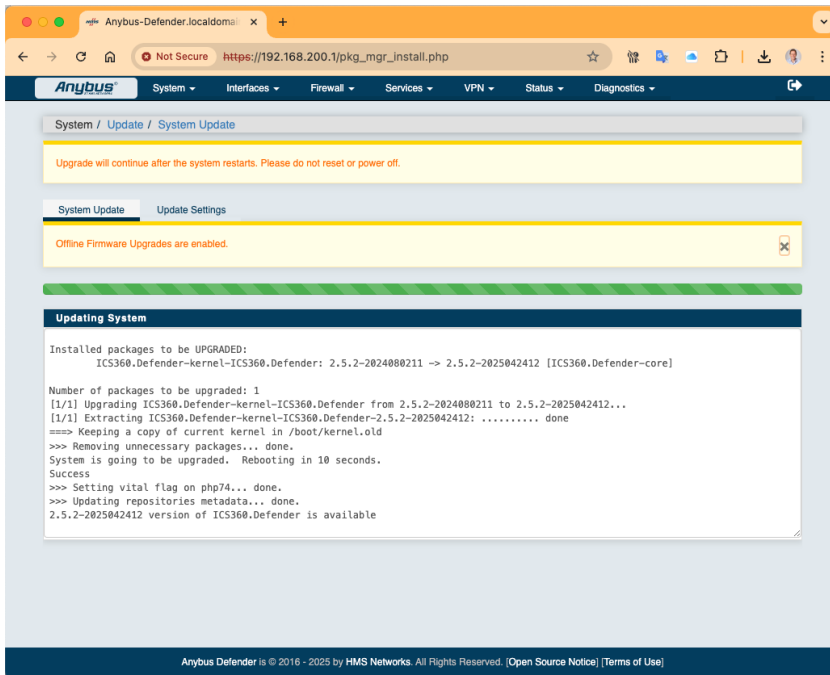
Change to TAB: System Update. A notice that Offline Firmware Upgrades are enabled is given, and the software is searching for valid updated files on the connected USB drives. This can take a few minutes as files are copied over to local storage.



When a valid update file is found the GUI will provide the information what version can be updated too and provide the option to “Confirm” to initialize the upgrade.



After pressing Confirm, the upgrade will initialize. The system will reboot automatically, and the total upgrade procedure only takes a few minutes.



When finished you can connect through the web-interface again, and after logging in you can confirm the new software version on the dashboard.

