



Acuvim 3 – Updating the meter firmware

This document provides users with a procedure on how to update the firmware version of the Acuvim 3 meter. The firmware update is performed over the meter's web interface

Firmware Updating Procedure

1. Login to the meter's web interface, the default username and password is admin.

ACCUEENERGY
Sign in to continue

User Name
admin

Password
.....

Sign In

SSL Certificate

2. Click on Settings located on the top right corner of the interface.

Logout Tuesday, May 21, 2024 11:32 AM About **Settings** Acuvim 3 ACCUEENERGY

Phase C	Average	System
20.008	120.008	-
20.001	-	-
07.861	207.860	-

3. Next click on Maintenance and Management.

The screenshot shows the top navigation bar of the Accuenergy web interface. The menu items are: Installation, Revenue and Energy, Power Quality and Alarm, Communication, Data Log/Post, User Management, and Maintenance and Management. The 'Maintenance and Management' item is highlighted with a red rectangular box. Below the navigation bar, the 'Installation' section is active, with a sub-menu showing 'General' and 'IO'. The 'General' sub-menu is selected, displaying fields for 'Device Description' (containing 'Power'), 'Service Configuration' (containing 'Demo(3 ELEMENT 4 WIRE Y)'), and 'Nominal Settings' (with sub-fields for 'Nominal Voltage' and 'Nominal Current').

4. Then click on Firmware in the sub menu.

The screenshot shows the 'Maintenance and Management' sub-menu. The menu items are: Operations, Configuration Management, Network Diagnostic, Firmware, and HMI. The 'Firmware' item is highlighted with a red rectangular box. Below the sub-menu, there is a list of actions: Reset Device Run Time, Reboot Meter, Reset Meter Configs, Reset Common Configs, Reset to Factory Defaults, SSH, and Debug Diagnostic. A link to advanced settings is also present.

- There are three methods to update the firmware, for this example we will use the Manual Method.

[Operations](#) [Configuration Management](#) [Network Diagnostic](#) **[Firmware](#)**

Current Meter Firmware Version: v0.36

Auto Firmware Update *

Disable Firmware update will be manually executed from this page

Critical Update Only *Recommended* Automatically update firmware when a critical and security related issue is fixed

Automatically Keep Firmware to Latest Version

Check Time*

1am ~ 2am

Save

Remote Update

Current Version: v0.36

Check For Update

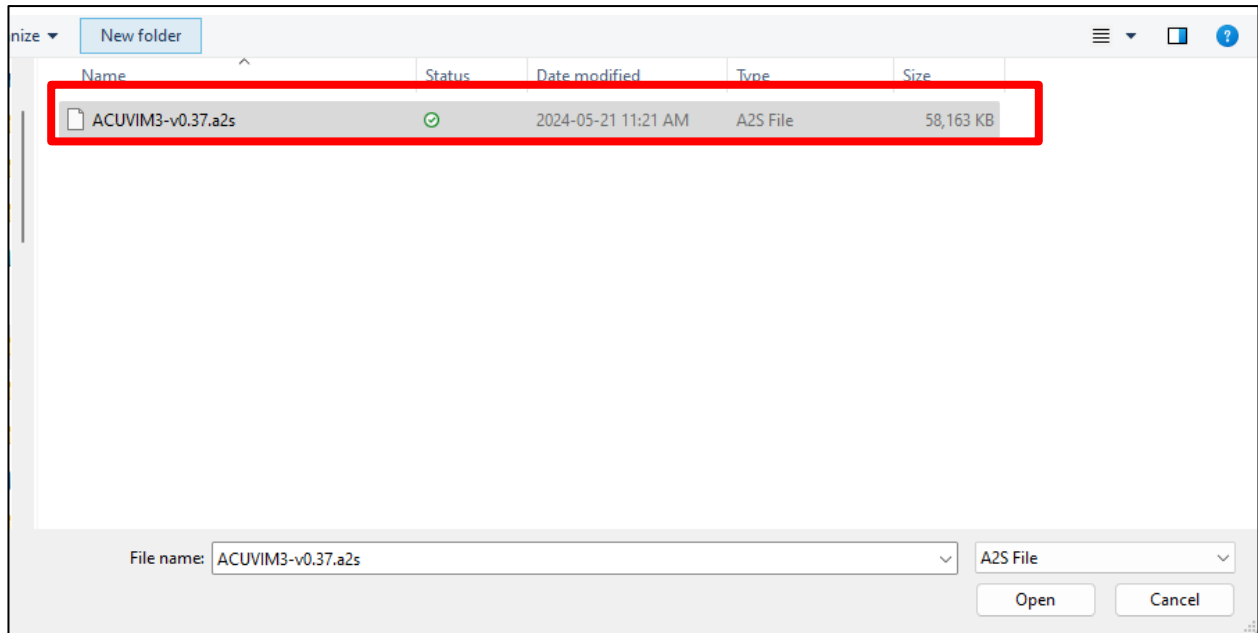
Manual Update

Meter Firmware Update*

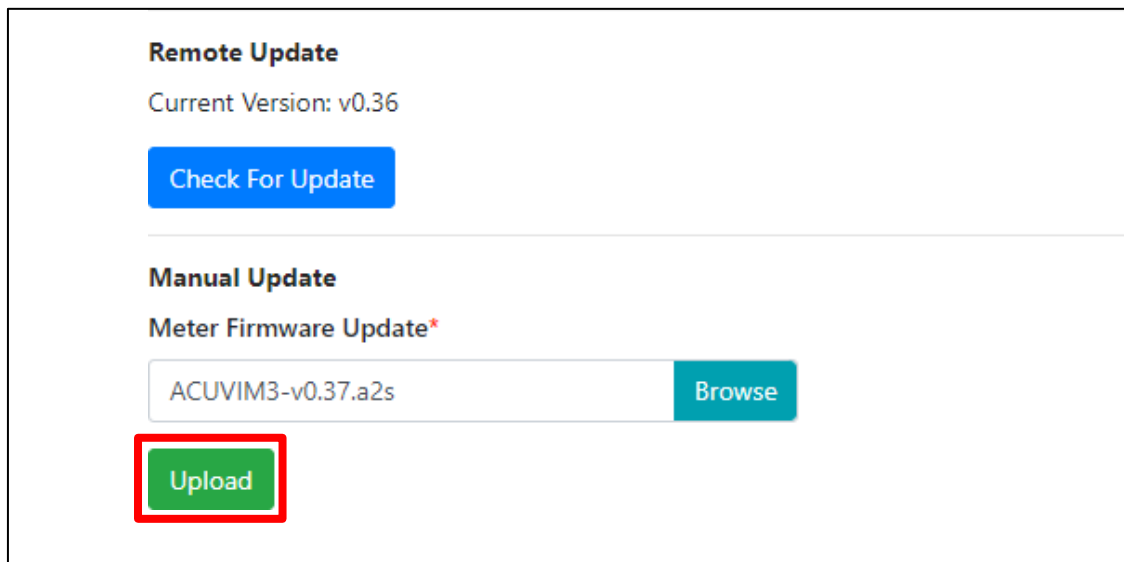
Choose file **Browse**

Upload

6. Upload the firmware file, the file type is .a2s.



7. Upload the firmware file.



8. Once uploaded, click on Update.

Remote Update
Current Version: v0.36

[Check For Update](#)

Manual Update
Meter Firmware Update*

[Browse](#)

uploading...

[C](#)

Remote Update
Current Version: v0.36

[Check For Update](#)

Manual Update
Ready to update
Click 'Update' to begin update

[Update](#) [Cancel](#)

9. The firmware update will take approximately 3-5 minutes to complete.

Manual Update

Ready to update

Click 'Update' to begin update



Upgrading Progress ▾

```
checking if file exist
check if file exist complete
The uploaded package is : ACUVIM3-v0.37.a2s
start decrypting and validating firmware update package
decrypting...
validating...
succesfully decrypting and validating firmware update package ACUVIM3-v0.37.a2s
extracting package
extracting package complete
***** start firmware HELP sub script
*****Start update*****
checking if file exist
check if file exist complete
getting current root device
get current root device complete
getting update part
get update part complete
getting update device
get update device complete
formatting update device
UPDATE_ROOT: /dev/mmcblk1p1; UPDATE_PART: 1
format update device complete
creating symlink for the update process
creating symlink complete
getting update part
get update part complete
installing rootfs
extracting files
```

10. Once the update is complete the meter will reboot, this will take 1-2 minutes.

The image shows a login interface for Accuenergy. At the top is the Accuenergy logo with the text "Sign in to continue" below it. There are two input fields: "User Name" with the placeholder "Enter User Name" and "Password" with the placeholder "Enter Password". Below these is a blue "Sign In" button. Underneath the button is a link for "SSL Certificate" with a download icon. At the bottom of the screen, the text "Rebooting..." is displayed in a large, bold font.



11. After the reboot is complete users can log into the web interface again and check the About page to confirm the meter firmware was updated successfully.

Meter	
Meter Model	Acuvim-3-mV-P1
Meter Serial Number	ASP20230511
Device Description	Power
Meter Hardware Version	v1.05
Meter Firmware Version	v0.37
Ethernet 1 MAC address	EC:C3:8A:23:05:11
Ethernet 2 MAC address	EC:C3:8A:23:05:12
Wi-Fi MAC address	C0:EE:40:83:19:E6
Firmware Update Date	20240521
Seal Status	Off
eMMC Health Status	Abnormal
Disk Usage	0.0%
Device Run Time	2665 Hours 4 Minutes