



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.

ACCUEVERGY
Sign in to continue

User Name
admin

Password
.....

Sign In

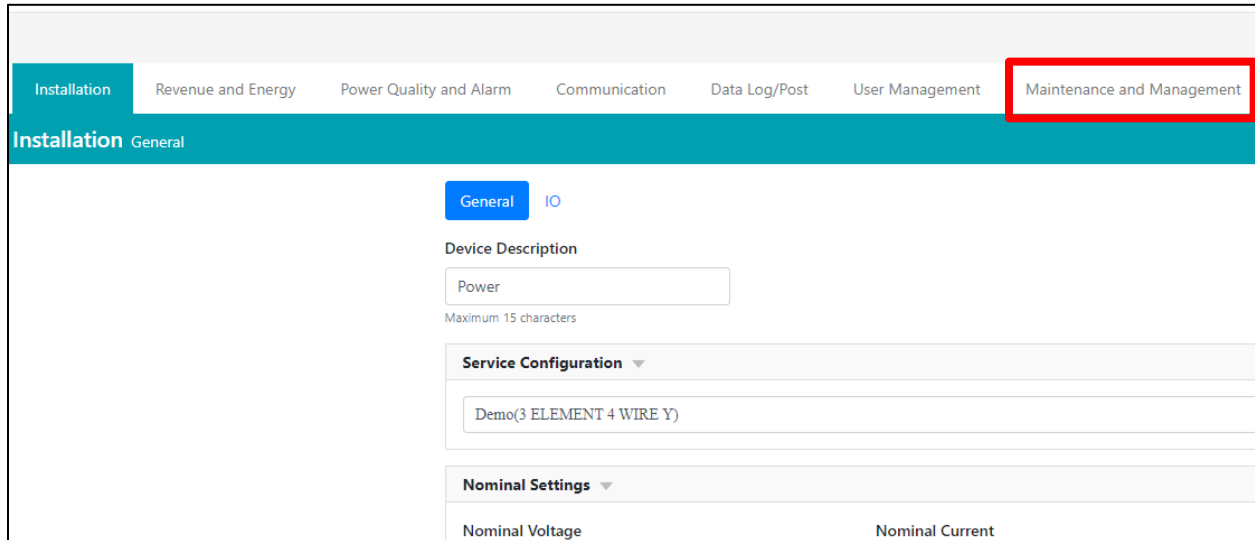
SSL Certificate

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 ACCUEVERGY

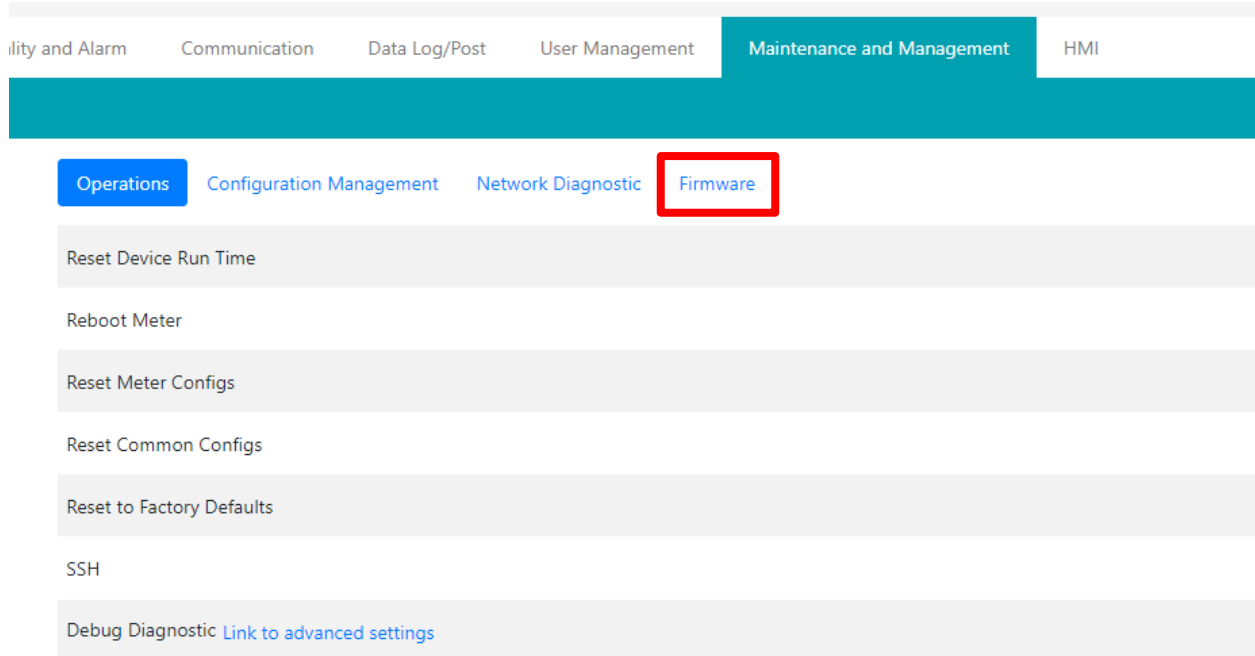
Phase C	Average	System
20.008	120.008	-
20.001	-	-
07.861	207.860	-

3. Next click on Maintenance and Management.



The screenshot shows the Accuenergy web interface. At the top, there is a navigation bar with several tabs: Installation, Revenue and Energy, Power Quality and Alarm, Communication, Data Log/Post, User Management, and Maintenance and Management. The 'Maintenance and Management' tab is highlighted with a red rectangle. Below the navigation bar, there is a sub-header 'Installation General'. Under this, there are two tabs: 'General' and 'IO'. The 'General' tab is selected. Below the tabs, there is a 'Device Description' section with a text input field containing 'Power'. Below this, there is a 'Service Configuration' section with a dropdown menu showing 'Demo(3 ELEMENT 4 WIRE Y)'. Below that, there is a 'Nominal Settings' section with two fields: 'Nominal Voltage' and 'Nominal Current'.

4. Then click on Firmware in the sub menu.



The screenshot shows the Accuenergy web interface. At the top, there is a navigation bar with several tabs: Power Quality and Alarm, Communication, Data Log/Post, User Management, Maintenance and Management, and HMI. The 'Maintenance and Management' tab is highlighted. Below the navigation bar, there is a sub-header 'Maintenance and Management'. Under this, there are four tabs: 'Operations', 'Configuration Management', 'Network Diagnostic', and 'Firmware'. The 'Firmware' tab is highlighted with a red rectangle. Below the tabs, there is a list of options: 'Reset Device Run Time', 'Reboot Meter', 'Reset Meter Configs', 'Reset Common Configs', 'Reset to Factory Defaults', 'SSH', and 'Debug Diagnostic'. The 'Debug Diagnostic' option has a link to 'Link to advanced settings'.

5. 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

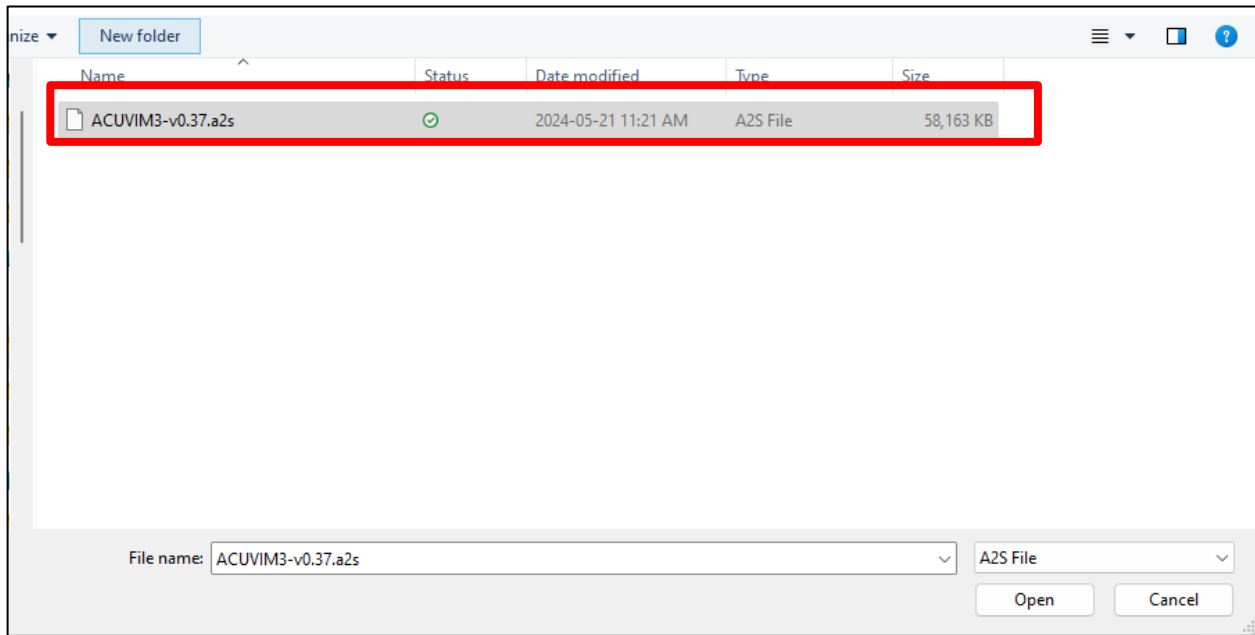
Meter Firmware Update*

Choose file

Browse

Upload

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



7. Upload the firmware file.

Remote Update
Current Version: v0.36
[Check For Update](#)

Manual Update
Meter Firmware Update*

ACUVIM3-v0.37.a2s [Browse](#)

[Upload](#)

8. Once uploaded, click on Update.

Remote Update
Current Version: v0.36
[Check For Update](#)

Manual Update
Meter Firmware Update*

ACUVIM3-v0.37.a2s [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 screen 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 a placeholder "Enter User Name" and "Password" with a placeholder "Enter Password". Below these is a blue "Sign In" button. Under the button is a link for "SSL Certificate" with a download icon. At the bottom, the text "Rebooting..." is displayed in a large, bold font.

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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