How to Speed up the MCS Readings Page

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Have the an\_bin\_2.0.9\_vr900\_whart\_lg.tgz firmware upzipped or download the unzipped folder from:

<https://github.com/rush2sk8/tesim_nivis_setup/tree/Rushad/Speed%20Up%20MCS%20Readings/Unzipped%202.0.9%20Firmware/an_bin_2.0.9_vr900_whart_lg>

If you too lazy to learn how to do this you can download the custom firmware from and skip to step 2:

<https://github.com/rush2sk8/tesim_nivis_setup/tree/Rushad/Speed%20Up%20MCS%20Readings/Custom%20Firmware>

Step 1

In order to speed up the MCS change we need to dig deep into some of the files. So head to an\_bin\_2.0.9\_vr900\_whart\_lg>profile\_templ

We will be changing the following files:

* Monitor\_Host.conf
* config.ini

In the Monitor\_Host.conf make the following values as such:

* ReadingsSavePeriod=1
* CommandsTimeout=20
* CommandsCheckPeriod=1

In config.ini make the following values as such:

* PUBLISH\_PERIOD\_TOLERANCE\_THRESHOLD = 3
* RESPONSE\_TIMEOUT\_PERIOD = 20
* PUBLISH\_STATUS\_CHECK\_PERIOD = 1

Then uncomment the following and change them to:

* CommandsTimeout=20
* CommandsCheckPeriod=1

**\*\*\*NOTE: MAKE SURE THAT an\_bin\_2.0.9\_vr900\_whart\_lg.tgz DOESN’T HAVE ANOTHER an\_bin\_2.0.9\_vr900\_whart\_lg.tgz FOLDER IN IT\*\*\*\***

After saving all these files open Cygwin and cd to the location of the folder and execute the following command: tar -czvf an\_bin\_2.0.9\_vr900\_whart\_lg.tgz an\_bin\_2.0.9\_vr900\_whart\_lg

This will zip the file in tar format. Note that you can mess around with these values but beware of what you are doing because some changes are irreversible.

Step 2

Head to your MCS admin page found at http://<VR\_IP>/admin/login.html and go to (depending on the type of website that pops up) “Upgrade Firmware” or “Edge Router Firmware”. Then select the “an\_bin\_1.5.5\_d\_vr900\_whart\_lg” firmware which can be downloaded from (<https://github.com/rush2sk8/tesim_nivis_setup/tree/Rushad/Speed%20Up%20MCS%20Readings/Factory%20Firmwares>) and enable “Reset DB (use with FW fallback)” then click upload and wait about 10 minutes.

Now time to upload your custom made firmware (or the premade custom one you downloaded earlier). Head to your MCS admin page found at http://<VR\_IP>/admin/login.html and go to (depending on the type of website that pops up) “Upgrade Firmware” or “Edge Router Firmware”. Then select the “an\_bin\_2.0.9\_vr900\_whart\_lg” firmware and enable “Reset DB (use with FW fallback)” then click upload and wait about 10 minutes.

☺You should now notice a significant update rate for the Readings tab on your MCS☺