

Uploading DHP files from AN-X2-AB-DHRIO and transferring files into AN-X4-AB-DHRIO.

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The first part of this technote will go over extracting the files from the AN-X2-AB-DHRIO through the webpage and downloading the configuration file into the AN-X4-AB-DHRIO. There is more than one way to extract the HMI configuration file from the AN-X2-AB-DHRIO. This document will also go over extracting the files from the AN-X2-AB-DHRIO micro-SD (uSD) card and reloading the files onto the AN-X4-AB-DHRIO uSD card.

From the AN-X2-AB-DHRIO webpage

In the web interface for the AN-X2-AB-DHRIO expand the Administration tab and then click on the Archive Configuration.

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7 Automation Network	Quest Technical Solutions
∀Log Files	AN-X-DHP Ethernet Gateway Module
	Introduction:
AN-X Configuration	This is the main configuration screen for the AN-X-DHP Ethernet/Data Highway Plus gateway.
Archive Configuration	Directions:
Update AN-X Firmware	The main menu, located on the left, provides a list of options for this web interface. To see the sub-menus for each item, click on the down arrow beside each main option.
Restart AN-X Module	Menu Details:
7 Troubleshooting	Automation Network:
	Configure DH+ Network
	The AN-X-DHP Ethernet gateway has a DH+ port that supports 3 different baud rates and a configurable station address. The DH+ network configuration menu provides access to these configuration options.
	Monitor DH+ Network
	The AN-X-DHP monitors in real-time the AN-X-DHP diagnostic counters and the active stations on the Data Highway Plus network. Use this menu command to display the counters and the active station list.

Click on the Archive File, shown below circled in red.

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∧ Automation Network		AN-X Configuration and Log Archiver
♥ Log Files		Instructions:
∧ Administration		Use the link provided below to get the newly created archive file. This file contains all the current configuration information, log and possibly memory dump files.
AN-X Configuration		The archive file is a standard compressed tar archive. Therefore, the configuration files contained in the archive file can be extracted and used to restore an AN-X configuration. See the User's Manual for details on using cor your particular AN-X module.
Archive Configuration		Archive File
Update AN-X Firmware		
Restart AN-X Module		

This will download a complete backup of your current AN-X2-AB-DHRIO and save it to your PC in TAR Ball (Unix Archive) format. The name of the archive file is *AN-X* host name_archive.tar as shown below.

ANX2Dhp_archive.tar

If you cannot open this file, the free Windows based utility 7-Zip (<u>https://www.7-zip.org/</u>) will allow you to open them. When you open this .tar file you will see 2 directories inside of it. The files we need will be in the mnt directory. Double click on the mnt directory.



C:\Users\aaguilar\Downloads\ANX2Dhp_archive.tar\									
File Ed	lit View	Fav	/orites	Tools	Help				
_	— ·	\checkmark	•	-	×	ī			
	xtract								
ø 💷	C:\User	s\aagi	uilar\Do	wnloads	ANX2DI	hp_archiv	ve.tar∖		
Name							Size	Packed Size	Modified
mnt							3 167	5 632	
var	_						314 294	320 512	

Inside mnt you will see the mmc directory.

C:\Users\aaguilar\Downloads\ANX2Dhp_archive.tar\mnt\

File Edit	View	Favorites	Tools	Help				
	ı 🗸	″ ••	-	×	ĩ			
Add Extra	ct Tes	t Copy	Move	Delete	Info			
彦 📙 C:V	Users\a	aguilar\Do	wnloads	\ANX2Dł	np_archive	.tar\mnt\		
Name						Size	Packed Size	Modified
mmc						3 167	5 632	

Double click on mmc to view the configuration files from your AN-X2-AB-DHRIO as seen below.

e Edit	View	Fav	orites	Tools	Help						
} •	_	~	u	-	×	ñ					
-	ract 1	Test	Сору	Move	Delete	Info					
) 📙 🤇	C:\Users	i∖aagu	ilar\Dov	wnloads	ANX2DI	np_archive.tar\mnt\r	mmc\				
Vame						Size	Packed Size	Modified	Mode	User	Group
AbRioE	netlpH	mi.csv				1 315	1 536	2013-08-13 04:57	-rwxr-xr-x	root	root
AbRioE	netlp0i	rig.csv				143	512	2013-03-12 11:46	-rwxr-xr-x	root	root
AnxAb	DhpRou	uter.tx	t			69	512	2006-12-31 17:05	-rwxr-xr-x	root	root
anxdhp	o.conf					60	512	2007-01-04 21:20	-rwxr-xr-x	root	root
Config	.ReadM	e.txt				629	1 024	2021-11-03 03:09	-rwxr-xr-x	root	root
Config	.txt					141	512	2006-12-31 17:02	-rwxr-xr-x	root	root
IPAlias.	CSV					810	1 024	2006-12-31 17:12	-rwxr-xr-x	root	root



The files that you will need to import into the AN-X4-AB-DHRIO using firmware type AN-X4-AB-DHP are the following files:

- anxdhp.conf
- IPAlias.csv
- Config.txt
- AnxAbDHpRouter.txt

Note: AnxAbDHpRouter.txt was introduced in v4.7 of the AN-X2-AB-DHP firmware. Your AN-X may or may not have this file.

Extract these files into a directory on your PC that is easily assessable. You will need them later.

Next, you will need to access the AN-X4-AB-DHRIO. AN-X4 can be configured:

- to use a static IP address
- to obtain its IP address from a DHCP server
- to use the factory default setting, where the AN-X4 waits for 10 seconds for a DHCP server to respond. If it does not obtain an IP address within 10 seconds, it reverts to a static address of 192.168.0.246. All AN-X4 modules are shipped with this as the default configuration. In some certain cases, DHCP is acceptable, however unless you have control of the DHCP server, most applications will require the AN-X4 have a static IP address. DHCP servers may assign different IP addresses each time AN-X4 powers up, or is rebooted, which may make it inaccessible to hardware or software that accesses the AN-X4 module by IP address only.

At this point, it is safe to remove the AN-X2 from the network and even assign the old AN-X2 IP address to your new AN-X4. Once the IP address has been set, go to the web interface of the AN-X4. You will note that the interface, although similar, looks quite different from the old AN-X2 interface.

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Home Page	Quest Technical Solutions
Automation Network	AN-X-DHP Ethernet Gateway Module (v4.12.66)
▼ Log Files	
Administration	Introduction:
▼ Support	This is the main configuration screen for the AN-X-DHP Ethernet/Data Highway Plus galeway.
	Directions:
	The main menu, located on the left, provides a list of options for this web interface. To see the sub-menus for each item, click the down arrow beside each main option.
	Menu Details:
	Automation Network:
	DH+ Configure
	The AN-X-DHP Ethernet gateway has a DH+ port that supports 3 different baud rates and a configurable station address. The DH+ network configuration menu provides access to these configuration options. It also lets you set how much data the AN-X can send when it has the token.
	DH+ Monitor DH+
	The AN X DHP monitors in real-time the AN-X-DHP diagnostic counters and the active stations on the Data Highway Plus network. Use this menu command to display the counters and the active station list.



Configure DH+ Settings

Expand the Automation Network tab and click on the DH+ Configure link. In this section you will be able to set the Baud Rate and Station Number on the AN-X4-AB-DHRIO. You can alternately open the anxdhp.conf file and edit the Baud Rate and set the Station Number for your AN-X4-AB-DHRIO, if you wish.

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Home Page	AN-X-DHP Network Configuration
Automation Network DH+ Configure DH+ Monitor HMI IP Alias Configure HMI IP Alias View	All configuration operations require a network restart and therefore result in a disruption in the Data Highway Plus connections. These should not be performed while the process is in production mode. The AN-X Data Highway Plus network settings are configured using the form below. Select the baud rate, one of 57.6, 115.2, or 230.4, to match the Data Highway Plus network the AN-X is connected to. Select a station number, in the range 0 to 77 octal. The station address must not duplicate any other station on the network.
DH+ Router Configure DH+ Router View ▼ Log Files ▼ Administration	When AN X gets the Data Highway Plus Token, if it has any messages in its queue, it always sends at least one message. If there are any more messages in the queue after it sends the first message, it can send up to a m the number of bytes configured in Token Bytes (including the number of bytes in the first message). The range is 0 to 300 bytes. The default is 250. A setting of 0 disables sending more than 1 message per token.
▼ Support	57k: 0 115k: - 230k: - Station: 22 Octal Token Bytes: 300 SUBMIT

Configure the IP Alias File

Next, send the IPAlias.csv to the AN-X4-AB-DHRIO. Expand the Automation Network Tab and click on the HMI IP Alias Configure link. You will see this page.



Click on the Choose File button.



Technical Note TN-ANX4ABDHRIO_ANX2DHPFilesintoANX4DHP_01-2305

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<u>Home Page</u>						
Automation Network	AN-X-DHP HMI IP Alias Co	nfiguration				
DH+ Configure	AN X DUD UMUD Alice Configuration Independence					
DH+ Monitor	AN-X-DHP HMI IP Alias Configuration Instructions:					
HMI IP Alias Configure	All configuration operations require a module reboot and therefore result in a disruption in the Ethernet/IP connections. These sh	ould not be performed while the process is in production mode.				
HMI IP Alias View	The AN-X-DHP Adapter's HMI IP Alias function is configured using a text file.					
DH+ Router Configure	Manually create a text configuration file using a text editor and use the form below to select the local file. Use the 'Send File to A	N-X' button to apply this configuration file.				
DH+ Router View						
▼Log Files	Select file Choose File No file chosen Send File to AN-X					
Administration						
▼ Support						

Browse and locate your IPAlias.csv file from your AN-X2. Once selected, click on the Send file to AN-X button.

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Home Page		
Automation Network	AN-X-DHP HMI IP Alias Configuration	
DH+ Configure		
DH+ Monitor	AN-X-DHP HMI IP Alias Configuration Instructions:	
HMI IP Alias Configure	All configuration operations require a module reboot and therefore result in a disruption in the Ethernet/IP connections. These should not be performed while the process is in production mode.	
HMI IP Alias View	The AN-X-DHP Adapter's HMI IP Alias function is configured using a text file.	
DH+ Router Configure	Manually create a text configuration file using a text editor and use the form below to select the local file. Use the 'Send File to AN X' button to apoly this configuration file	
DH+ Router View		
▼Log Files	Select file: Choose File IPAlias.csv Send File to AN-X	
Administration		
▼ Support		

Once the file has been sent to the AN-X4 and parsed successfully, the AN-X4 will display a page like the one shown below. Click on the REBOOT link, circled below in red.



Technical Note TN-ANX4ABDHRIO_ANX2DHPFilesintoANX4DHP_01-2305

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<u>Home Page</u>	IPAlias csv (810 bytes, text/csv) saved File transfer Complete	l i		
Automation Network	Changes to the IP Alias configuration will take effect only after a REBOOT of the AN-X Module.			
DH+ Configure	Click to REBOOT or Home Page			
DH+ Monitor				
HMI IP Alias Configure	Configuration File: ; AU-X2-A8-DMP-HUI Sample Alias File,			
HMI IP Alias View	; An-Ac-Mo-UMP-THL Sample Alles File,			
DH+ Router Configure	; Lines beginning uith semicolons are considered comments and are ignored, ; Remove semicolons from examples below to enable aliases, ; Copy and wolfy lines from examples below as needed ,			
DH+ Router View	; Copy and modify lines from examples below as needed , , ; By default, no aliases are enabled since they may conflict with existing IP addresses			
Log Files	; by derault, no allases are emapled since they may conflict with existing if addresses , ; If possible, correlate lower digits of IP address with DHP Station Address			
Administration	; if possible; correlate lower algits of 12 wadress with Une station wadress ; for Example;			
' Support	AlisanterTP, AlisanterTP, AlisanterTP, AlisanterT, Al			
	Avig=12:48.35.150 Hertwak=257.255.25.0 Aliastor19: robbleg Aliastor for thereat/IP Aliasto 19:2.166.35.6 > DHP 6000 (3) Aliasto 19:2.166.35.7 > DHP 6000 (3) AR-X DHP Aliases configured successfully			



The AN-X4 has not reboot yet. You will see a screen shown below, you must click on the REBOOT NOW link before the AN-X4 will now reboot.

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Home Page	
Automation Network	AN-X Module REBOOT
DH+ Configure	To REBOOT the AN-X module hit the 'REBOOT NOW' link.
DH+ Monitor	
HMI IP Alias Configure	REBOOT NOW
HMI IP Alias View	
DH+ Router Configure	Warning : Hitting the 'REBOOT NOW' link causes the AN-X module to restart. All communications with automation networks, HMI stations or PLC racks will be interrupted.
DH+ Router View	
▼ Log Files	
Administration	
▼ Support	



NOTE: If you skip this step the new IPAlias configuration file will not take effect until the AN-X4-AB-DHRIO reboots.

After about 30 seconds, your browser should change, and show that the AN-X4 has now been restarted.

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<u>Home Page</u>	AN-X Module Restart
Automation Network	
DH+ Configure	AN X is resetting. Wait about 30 seconds before clicking the continue link
DH+ Monitor	
HMI IP Alias Configure	Continue
HMI IP Alias View	
DH+ Router Configure	
DH+ Router View	
▼ Log Files	
Administration	
▼ Support	

Click on the "Continue" link to go back to the main AN-X4 Interface.



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Home Page	QuestTechnical Solutions
Automation Network <u>DH+ Configure DH+ Monitor </u>	AN-X-DHP Ethernet Gateway Module (v4.12.66)
HMI IP Alias Configure HMI IP Alias View DH+ Router Configure	Introduction: This is the main configuration screen for the AN-X-DHP Ethernet/Data Highway Plus gateway.
DH+ Router View ▼ Log Files ▼ Administration	Directions: The main menu, located on the left, provides a list of options for this web interface. To see the sub-menus for each item, click the down arrow beside each main option. Menu Details:
▼ Support	Automation Network:
	DH+ Configure The AN-X-DHP Ethemet gateway has a DH+ port that supports 3 different baud rates and a configurable station address. The DH+ network configuration menu provides access to these configuration options. It also let's you set how much data the AN-X can send when it has the token. DH+ Monitor DH+ The AN-X-DHP monitors in real-line the AN-X-DHP diagnostic counters and the active stations on the Data Highway Plus network. Use this menu command to display the counters and the active station list. HMI IP Alias Configure Use this command to send the IP alias configuration file to the AN-X module. See the User's Manual for details. HMI IP Alias View Use this command to view the IP alias configuration file and the alias configuration log. See the User's Manual for details. DH+ Router Configure Use this command to send a router configuration file to the AN-X. DH+ Router Configure Use this command to send a router configuration file to the AN-X.

DH+ Router Configuration

Next, click on the DH+ Router Configure link, shown below circled in red.

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Home Page	Cuest Technical Solutions				
Automation Network	AN-X-DHP Ethernet Gateway Module (v4.12.66)				
DH+ Configure					
DH+ Monitor					
HMI IP Alias Configure	Introduction:				
HMLIP Alias View	This is the main configuration screen for the AN-X-DHP Ethernet/Data Highway Plus gateway.				
DH+ Router Configure	Directions:				
DH+ Router View	The main menu, located on the left, provides a list of options for this web interface. To see the sub-menus for each item, click the down arrow beside each main option,				
▼ Log Files					
Administration	Menu Details:				
▼ Support	Automation Network:				
	DH+ Configure				
	The AN-X-DHP Ethernet galeway has a DH+ port that supports 3 different baud rates and a configurable station address. The DH+ network configuration menu provides access to these configuration options. It a lets you set how much data the AN-X can send when it has the token.				

Click on the Choose File (Browse in some browsers) and navigate to your AnxAbDHPRouter.txt file that was saved off your AN-X2, or that was retrieved from your AN-X2 Archive TAR Archive.



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Home Page		
Automation Network	AN-X-DHP Router Configuration	
DH+ Configure		
DH+ Monitor	AN-X-DHP Router Configuration Instructions:	
HMI IP Alias Configure	All configuration operations require a module reboot and therefore result in a disruption in the Ethernet/IP connections. These should not be performed while the process is in production mode.	
HMI IP Alias View	The AN-X-DHP Router is configured using a text file.	
DH+ Router Configure	Manually create a text configuration file using your text editor of choice and use the form below to select the local file. Use the 'Send File to AN-X' button to apply this configuration file.	
DH+ Router View		
▼ Log Files	Setect file Choose File No file chosen Send File to AN-X	
Administration		
▼ Support		

After choosing the file AnxAbDHpRouter.txt, click on the Send File to AN-X button.



After the AN-X4 parses the router config, it will show the configuration like the screen below. There is no need to reboot the AN-X4 at this point.



Technical Note TN-ANX4ABDHRIO_ANX2DHPFilesintoANX4DHP_01-2305

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\leftarrow \rightarrow C A Not secure 192.	168.35.150/index.html
<u>Home Page</u>	AnxDhpCfgRouter.txt (69 bytes, text/plain) saved.File transfer Complete
Automation Network	Killing DH+ RouterManual configuration done
<u>DH+ Configure</u>	
<u>DH+ Monitor</u>	Configuration File: LocalLinkID 100
HMI IP Alias Configure	0 Eth 192.168.35.120 CLX 120 Eth 192.168.35.120 CLX
HMI IP Alias View	
DH+ Router Configure	
<u>DH+ Router View</u>	
▼Log Files	
Administration	
▼ Support	
	AN-X-AB-DHP-ROUTER Configuration
	LocalLinkID:100
	Lnk:0 Eth 192.168.35.120 CLX Lnk:120 Eth 192.168.35.120 CLX
	DH+ Routing Table Parsed Successfully

Reading Files Directly from the AN-X2-AB-DHRIO uSD Card

This section will go over how to retrieve the files from the AN-X2-AB-DHRIO uSD card and move them over the AN-X4-AB-DHRIO uSD card. First, remove your uSD card from the back of your AN-X2 and install it into a suitable uSD card reader, and bring up the files in Windows Explorer. You should see files like the ones shown below.



Vame	Date modified	Туре	Size
DrvTemplates	4/28/2022 7:25 AM	File folder	
RioEipScn	4/28/2022 7:25 AM	File folder	
AbRioEnetlpHmi.csv	8/13/2013 11:57 AM	Microsoft Excel C	2 KB
AbRioEnetlpOrig.csv	3/12/2013 6:46 PM	Microsoft Excel C	1 KB
AN-X2-AB-ADPT.v4.2.2.qtf	5/8/2018 12:49 AM	QTF File	2,812 KB
AN-X2-AB-DHP.v4.12.6.qtf	1/1/2007 12:58 AM	QTF File	3,163 KB
AN-X2-AB-DRV-04.v4.8.2.qtf	10/2/2018 8:10 AM	QTF File	3,367 KB
AN-X2-AB-HMI.v4.9.3.qtf	2/19/2019 8:00 PM	QTF File	2,877 KB
AN-X2-AB-RIO-EIPSCN.v4.4.1.qtf	3/14/2018 4:12 PM	QTF File	3,294 KB
AN-X2-AB-SCAN.v4.2.2.qtf	11/18/2019 11:16 AM	QTF File	2,750 KB
AN-X2-Maint.v1.1.14.qtf	6/7/2012 3:46 PM	QTF File	2,735 KB
AnxAbAdptConfig.bin	12/17/2012 9:15 AM	BIN File	29 KB
AnxAbDhpRouter.txt	12/31/2006 11:05 PM	Text Document	1 KB
AnxAbScanConfig.bin	1/15/2007 12:18 AM	BIN File	100 KB
anxdhp.conf	1/5/2007 3:20 AM	CONF File	1 KB
Config.ReadMe.txt	11/3/2021 10:09 AM	Text Document	1 KB
Config.txt	12/31/2006 11:02 PM	Text Document	1 KB
IPAlias.csv	12/31/2006 11:12 PM	Microsoft Excel C	1 KB

Configuring the IP Address

To configure your AN-X4-AB-DHRIO with the same IP Address as your old AN-X2-AB-DHRIO, you will need the Config.txt file from the AN-X2-AB-DHRIO. Switch to the directory of your AN-X4 uSD image. Notice the difference between the older AN-X2 uSD image (shown above), and the newer AN-X4 uSD image shown below. In your AN-X4 uSD directory, locate and double click on the IPCfg directory.



Name	Date modified	Туре	Size
Dhp	4/7/2023 7:19 AM	File folder	
Firmware	4/7/2023 7:07 AM	File folder	
nit 🛛	4/7/2023 7:07 AM	File folder	
IPCfg	4/7/2023 7:07 AM	File folder	
RioDrv	4/7/2023 7:07 AM	File folder	
RioHmi	4/7/2023 7:07 AM	File folder	
ssh	4/7/2023 7:07 AM	File folder	
MLO	10/13/2022 2:10 PM	File	106 K
dtsnet.dtb	10/13/2022 2:10 PM	DTB File	87 K
💿 u-boot.img	10/13/2022 2:10 PM	Disc Image File	1,105 K
uEnv.txt	10/13/2022 2:10 PM	Text Document	1 K
📄 zlmage	1/31/2023 5:26 AM	File	42,634 K

You will see a file in that directory named IPConfig.txt. Rename that file to IPConfig.old. Copy and paste your old Config.txt file into this directory. Press F2, or right-click and select "Rename" and rename the old Config.txt file to IPConfig.txt.



NOTE: It is very important that you change the file name and extension as show below.

You should have an IPConfig.txt file in your IPCfg directory, shown below. If you chose to save a copy of the original IPConfig.txt, that file will show up.

Name	Date modified	Туре	Size
IPConfig.txt	12/31/1999 11:42 PM	Text Document	1 KB

Configuring the DH+ Settings

Click back to the root uSD directory. Locate and double-click on the Dhp directory.



Name	Date modified	Туре	Size
Dhp	4/7/2023 7:19 AM	File folder	
Firmware	4/7/2023 7:07 AM	File folder	
Init	4/7/2023 7:07 AM	File folder	
IPCfg	4/7/2023 7:07 AM	File folder	
RioDrv	4/7/2023 7:07 AM	File folder	
RioHmi	4/7/2023 7:07 AM	File folder	
ssh	4/7/2023 7:07 AM	File folder	
MLO	10/13/2022 2:10 PM	File	106 k
dtsnet.dtb	10/13/2022 2:10 PM	DTB File	87 k
u-boot.img	10/13/2022 2:10 PM	Disc Image File	1,105 k
uEnv.txt	10/13/2022 2:10 PM	Text Document	1 k
📄 zlmage	1/31/2023 5:26 AM	File	42,634 k

You will see the 3 main configuration files for the DH+ mode of the AN-X4.

Name	Date modified	Туре	Size
AnxDhpCfg.txt	12/31/1999 11:01 PM	Text Document	1 KB
AnxDhpCfgHmiAlias.txt	1/1/2000 12:06 AM	Text Document	1 KB
AnxDhpCfgRouter.txt	1/1/2000 12:24 AM	Text Document	1 KB

Note: You can save copies of these files by creating a directory inside Dhp. Name it "Original", or "Backup". Click on AnxDhpCfg.txt and hold down SHIFT. Finally, click on AnxDhpCfgRouter.txt. This will select all 3 files. Right-click on the selected files and select Cut from the popup menu. Then, right-click on the new directory you created and choose Paste. This will move all the files to the backup directory. Regardless, you may still need to clean out this directory before you can paste and rename your old files in this directory, if the old files still exist.

Once your Dhp directory is clear, you can copy/paste the original files from your AN-X2 uSD card into this Dhp directory.





NOTE: It is very important that you change the file name and extension as show below.

Create DH+ Config

First, the file anxdhp.conf will need to be renamed to AnxDhpCfg.txt.

📗 anxdhp.conf

AnxDhpCfg.txt

Create IPAlias Config

Next, IPAlias.csv file will need to be renamed to AnxDhpCfgHmiAlias.txt.

🔊 IPAlias.csv

AnxDhpCfgHmiAlias.txt

Create DH+ Router Config

Finally, AnxAbDhpRouter.txt will need to be renamed to AnxDhpCfgRouter.txt. Note that this file name is very similar to the old name, so take care when renaming this file.

- AnxAbDhpRouter.txt
- AnxDhpCfgRouter.txt

Testing your work

After you have renamed/copied all 3 files into the Dhp folder, eject the uSD card from Windows, and reinstall into the AN-X4. Now power up the AN-X4, and your config should be active.