

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

Document Code: TN-ANX4ABDHRIO_ANX2DHPFilesintoANX4DHP_01-2305 Date: May 17, 2023 Revision: 1.03

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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.

day QTS AN-X-DHP (v4.12.6) web int: × +	
← → C ▲ Not secure 192.168.35.151	6 文
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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← → C ▲ Not secure 192.168.35.1		@ ☆
✓ 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 Manuary your particular AN-X module.	al for details on using con
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.



27 (C:\User	rs\aagu	ıilar∖	Downloa	ads∖ANX	(2Dhp_ar	chive.ta	ır\				
File	Edit	View	Fa	vorites	Tools	Help						
÷			~	•	-	×	ĩ					
Add	Extr	act T	est	Сору	Move	Delete	Info					
ø	🛄 C:	\Users	\aag	juilar\Do	wnloads	\ANX2D	hp_arch	ive.tar\				
Nam	e							Size	Packed S	öize	Modified	
n n	nnt							3 167	5 (632		
vi vi	ar							314 294	320 5	512		

Inside mnt you will see the mmc directory.

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

File	Edit	View	v Fav	/orites	Tools	Help				
÷			\checkmark	•	-	×	ĩ			
Add	Extr	act	Test	Сору	Move	Delete	Info			
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Nam	e							Size	Packed Size	Modified
m	imc							3 167	5 632	

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

Zz (Zz C:\Users\aaguilar\Downloads\ANX2Dhp_archive.tar\mnt\mmc\										
File	Edit Vi	ew Fa	vorites	Tools	Help						
4		\checkmark	•	-	×	ี่ที					
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Nam	e					Size	Packed Size	Modified	Mode	User	Group
x Al	bRioEnetl	Hmi.cs	sv			1 315	1 536	2013-08-13 04:57	-rwxr-xr-x	root	root
R 🖾	bRioEnetl	oOrig.cs	sv			143	512	2013-03-12 11:46	-rwxr-xr-x	root	root
📄 Ar	nxAbDhpf	Router.t	xt			69	512	2006-12-31 17:05	-rwxr-xr-x	root	root
an 🦉	xdhp.com	f				60	512	2007-01-04 21:20	-rwxr-xr-x	root	root
Co	onfig.Read	Me.txt				629	1 024	2021-11-03 03:09	-rwxr-xr-x	root	root
Co	onfig.txt					141	512	2006-12-31 17:02	-rwxr-xr-x	root	root
🔊 IP/	Alias.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.

🏘 QTS AN-X-DHP (v4.12.66) 🗙	+
\leftarrow \rightarrow C A Not secure 192.	16835.150/indeu.html 🖄 🖄 🖬 🎕 😡
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 gateway.
	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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\leftarrow \rightarrow C \blacktriangle Not secure 192.	16835.150/index.html 🗠 🖈 🔲 🔹 🕻
Home Page	AN-X-DHP Network Configuration
Automation Network	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.
DH+ Configure	The AN-X Data Highway Plus network settings are configured using the form below.
UH+ Monitor HMLIP Alias Configure	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.
HMLIP Alias View	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	When AN X giets 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 brokes confloring on Token brike including the number of broken in the instra message.
DH+ Router View	The range is 10 300 bries. The default is 20.
▼Log Files	A setting of 0 disables sending more than 1 message per token.
Administration	
▼ Support	57k o 115k
	230%
	Station: 22Octal
	loken 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.



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← → C ▲ Not secure 192.	92.168.35.150/index.html	Ê ☆
<u>Home Page</u>		
Automation Network	AN-X-DHP HMI IP Alias Configuration	
DH+ Configure		
DH+ Monitor	AN-X-DHP HMI IP Alias Contiguration 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 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.

🔷 QTS AN-X-DHP (v4.12.66) 🗙	+	
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Home Page		
Automation Network	AN-X-DHP HMI IP Alias Configuration	
DH+ Configure		
DH+ Monitor	AN-X-DHP HMI IP Allas Contiguration 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.



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← → C ▲ Not secure 19	2.168.35.150/index.html 世 合
Home Page	IPNias csv (810 bytes, text/csv) saved File transfer Complete
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:
HMI IP Alias View	; ANKI-AN-UMP-ITLI SAMPLE ALBS FILE,
DH+ Router Configure	; Lines reginning uith semicloins are considered comments and are ignored, ; Remve semicloins from examples below to enable alises,
DH+ Router View	; Copy and modify lines from examples below as needed ,
▼ Log Files) by offsuit, no aliases are emoted since they may conflict uith exiting IP appresses If the souther, correlate lower district of Patrices and they be strained and the souther souther souther south
Administration	; for Example:,
▼ Support	Allesfret?, Alles



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.

🔷 QTS AN-X-DHP (v4.12.66) 🗙	+ ~
← → C ▲ Not secure 192.	16835.150/index.html
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.

🔹 QTS AN-X-DHP (v4.12.66) 🛛 🗙	+ *
← → C ▲ Not secure 192.	18835.150/indec.html 년 🖈 🛽
<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	AN-X-DHP Ethernet Gateway Module (v4.12.66)
DH+ Configure	
DH+ Monitor	Introduction
HMI IP Alias Configure	
HMLIP Alias View	This is the main configuration screen for the AN-X-DHP Ethernel/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	Menu Defaile
Administration	inclu beally.
▼ 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 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.
	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 View

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 ontinns for this web interface. To see the sub-menus for each item click the down arrow beside each main ontion					
▼ Log Files	ain menu, locateo on me len, provides a list or options for this web interface. To see the sub-menus for each item, click the down arrow beside each main option.					
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.



🔷 QTS AN-X-DHP (v4.12.66) 🗙	+	~		
← → C ▲ Not secure 192	168.35.150/index.html	🖻 🖈 🔲		
Home Page				
Automation Network AN-X-DHP Router Configuration				
DH+ Configure				
DH+ Monitor	AN-A-DHP Router Conliguration 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	Select 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.



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ang QTS AN-X-DHP (v4.12.66) ×	+
\leftarrow \rightarrow C \blacktriangle Not secure 192.	168.35.150/index.html
Home Page	AnxDhpCfgRouter.txt (69 bytes, text/plain) saved.File transfer Complete
Automation Network	Killing DH+ RouterManual configuration done
DH+ Configure	
<u>DH+ Monitor</u>	Contiguration File:
HMI IP Alias Configure	0 Eth 192.168.35.120 CLX 120 Eth 192.168.35 120 CLX
HMI IP Alias View	
<u>DH+ Router Configure</u>	
<u>DH+ Router View</u>	
▼Log Files	
Administration	
▼ Support	
	Configuration Log:
	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.



Name	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
	4/7/2023 7:19 AM	File folder	
	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	
	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 KB
dtsnet.dtb	10/13/2022 2:10 PM	DTB File	87 KB
💣 u-boot.img	10/13/2022 2:10 PM	Disc Image File	1,105 KB
uEnv.txt	10/13/2022 2:10 PM	Text Document	1 KB
📄 zlmage	1/31/2023 5:26 AM	File	42,634 KB

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	
	4/7/2023 7:07 AM	File folder	
📙 Init	4/7/2023 7:07 AM	File folder	
	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 KB
📄 qtsnet.dtb	10/13/2022 2:10 PM	DTB File	87 KB
u-boot.img	10/13/2022 2:10 PM	Disc Image File	1,105 KB
uEnv.txt	10/13/2022 2:10 PM	Text Document	1 KB
📄 zlmage	1/31/2023 5:26 AM	File	42,634 KB

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

Ē	Name	Date modified	Туре	Size	
١.	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.