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No Time to Waste Copy Configurations Feature

We all need to have some tools to help us gain in productivity, especially in today's market where jobs are a fast track. All Neptronic BACnet controllers have a feature called "Copy Config" that enables you, via the network, to copy the configurations of a controller to one or more controllers that require the same setup. Depending on the controller model, this tool can be accessed via the controller display or the BACnet building monitoring station (BMS).

Note that even though no BMS is present on the job site, the function can still operate, as long as the BACnet network wires are connected and controllers have been properly configured (controllers must be addressed and baud rate must be the same). The good news is that by default, the controllers are set for "Auto Baud Rate" so only the addresses must be changed. You may want to refer to the BACnet Guide, which is available online, for all wiring requirements and limitations.

There are a few guidelines to respect when executing the "Copy Config";

- The controllers must be set to "Run" mode. If in program mode, the controller will not copy.
- The controllers must be of the same type. You cannot copy the configuration of an EVCB to an EFCB controller.
- The controllers must be the same model. Even though the TUCB can be used as a fan coil controller, it cannot be copied to an EFCB or TFCB series controller.
- The controllers must have the same software/application version. We cannot copy an EVCB first generation and an EVCB second generation since the BACnet objects have changed.

Note that slave addresses can be copied, but a manual verification must be done since the slave addresses do not send a result.

These are the steps required to achieve the copy configuration feature;

- Configure the master controller that will use the "copy from" function.
- Identify the controllers that require the same configuration as the master. All controllers must have a different MAC address. The "copy config" is presented as a range and works better if addresses are sequential.
- Enter start address. This excludes the master controller.
- Enter end address. The range will be from the first address to the end address.
- Execute

USA NEP Inc. P.O. Box 1151 Medford Oregon, USA 97501 Tel.: (541) 531-5746 Middle East & Asia NEP International FZE P.O. Box 125687, Dubai, UAE Tel.: +97155 8825487 Fax: +9714 3426772 Singapore Neptronic Pte Ltd Office D6, #03-38, Mountbatten Square 229, Mountbatten Road, Singapore – 398 007 Mobile: +65 8118 4184 Tel: +65 6650 6212 Fax: +65 6491 6423 If the "copy config" was launched via the display, the results appear on the screen. A result is shown for all the copied addresses and can be viewed individually using the arrow buttons. It will show if the controller copied successfully or failed. If it failed, it also provides an error code to identify why it failed; "copy config succeed" - Copy config was successful.

"copy config progerr" - Copy config failed because the target device is in Program Mode. "copy config typeerr" - Copy config failed because the target device is not the same as the source device.

"copy config modlerr" - Copy config failed because the model number of the source device and the target device are not the same. For example, copying a TROB24T4XYZ1 configuration to a TRO24T4XYZ3.

"copy config mem err" - Copy config failed because the software/application version of the source device and the target device are not the same.

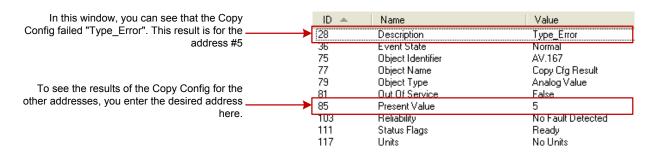
"copy config Slave" - The target device has a slave address, and it cannot respond to the master. Manually verify that the configuration was copied correctly or avoid using a slave address (128 - 254). "copy config commerr" - Copy config failed because the target device did not respond after 3 attempts. Either the address does not exist, or there is a problem with the wiring or with noise.

When viewed via BACnet, the results appear in the "view properties" of the "Copy Cfg Result" as shown below:

🔘 Device	🗹 AL 🔽 AV 🔽 AO	MSV		
💿 Groups	🗹 BI 🔽 BV 🔽 BO	✓ Other	View Properties	<u>Change Value</u>
ID 🔺	Name	Value	Status	~
AV.150	Floating T03/T04	0%	Ready	
AV.151	Cfg_Floating T03/T04Timer	100 Seconds	Ready	
AV.155	T01Pulsing	0%	Ready	
AV.156	TO2Pulsing	0%	Ready	
AV.157	T03Pulsing	0%	Ready	
AV.158	TO4Pulsing	0%	Ready	
AV.165	Copy Cfg Start Address	5 No Units	Ready	
AV.166	Copy Cfg End Address	10 No Units	Ready	
AV.167	Copy Cfg Result	5 No Units	Ready	
BI.1	Digital Input1	[0] Open	Ready	
BI.2	Digital Input2	[0] Open	Ready	
BI.3	Digital Input3	[0] Open	Ready	

In the "View Properties", you will be able to see	ID 🔺	Name	Value
the results. In this case, the copy configuration	28	Description	In Progress
is still "In Progress".	36	Event State	Normai
	75	Object Identifier	AV.167
	77	Object Name	Copy Cfg Result
	79	Object Type	Analog Value
	81	Out Of Service	False
	85	Present Value	5
	103	Reliability	No Fault Detected
	111	Status Flags	Ready
	117	Units	No Units

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To have access to the results, the "Copy Config Execute" must remain at "Yes." Once verification is done, change the value back to "No."

Below is a table to identify the "copy config" access point for each type of controllers;

Controller Type	Access via Display	Access via BACnet
TROB24T4XYZ1	\checkmark	
EVCB series	V	V
EFCB sries	V	~
TFCB series	~	
TUCB	✓	~
тинв	V	✓
CMMB106		V

The BACnet objects are the same for all models except for the CMMB106. The remaining controllers use the following objects;

- AV.165 Start Address
- AV.166 End Address
- **BV.90 Execute Copy Config** _
- AV.167 Copy Config Result _

Hopefully, this feature can be of use to facilitate the implementation of the controls on job sites and help speed up the delivery.

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