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SLC4082TechNote402_BB2 Customer Configuration Instructions

SLC4082TechNote402_BB2_CustomerConfigurationInstructions.docx
Rev.12/22/19

The SLC4082 Babel Buster 2 (BB2) is delivered with all the data points preprogrammed to be compatible with the SLC4075-x Touchscreen gateway.

The unit may be re-configured to change the Instance ID from the default 4082, MS/TP MAC address from the default 121, or MS/TP baud rate from the default 38400.

1 When multiple units are to be installed on the same network, each unit must be assigned a unique Instance ID and MAC address.

The default IP address for the unit has been changed to: **192.168.0.103**

Do Not Change This Address, as it must be compatible with the IP address of the SLC4075 (192.168.0.104), and is never visible on a common network, even if multiple SLC4082s are in use.

The BB2 contains an http server which provides for re-configuration.

1 Required Equipment

1. External 24V ac or 24V dc power supply.
2. Laptop PC with wired Ethernet port.
3. A standard Ethernet patch cable, such as SLC4020-x.

2 Detailed Instructions

1. Configure a laptop computer to have the TCP/IP settings as follows:
 - a. Static IPV4 Address: 192.168.0.99
 - b. Subnet Mask: 255.255.255.0
 - c. Default Gateway: 0.0.0.0
2. Disconnect the patch cable **at the BB2**. This is the cable from the SLC4075 touchscreen.
3. Connect the laptop PC with an Ethernet patch cable to the BB2's Ethernet port.
4. Using a browser, enter **192.168.0.103** and see the signon screen
5. Click on "System Setup" tab
6. Log into the system
 - a. See the dialog box popup "Authentication required"
 - b. Username "**root**"
 - c. Password: "**buster**"
 - d. <Log in>

3 Upload a new configuration file

1. Select the following tabs: <System Setup>;<Setup>;<Config File>;
2. Select <Choose File> and navigate to the new file

Configuration File Manager

192.168.0.103/pgConfigFile.html

Babel Buster 2
BACNET IP - MS/TP
NETWORK GATEWAY
MODEL BB2-7030-01

CONTROL SOLUTIONS, INC.
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Data Objects | BACnet Client | BACnet Router | Modbus TCP | **System Setup**

Setup | BBMD | **Config File**

Config File | BACnet IP Port | Local Host | User

This page allows you to manage configuration files.

Store configuration to Flash file selected from directory, or to new file if checked.

Local file directory:

☐ Create new file

Boot configuration: ☐ Confirm

Upload Configuration File

Quick Help

IMPORTANT: Configuration changes will be lost the next time you cycle power if you did not click the "save" button to place those changes in non-volatile memory (Flash file).

Click "Save" to store the present configuration to a Flash file. The configuration will overwrite the selected file in the local file directory unless you check "create new file" and enter a new file name.

Click "Load" to load the currently selected file in the local file directory. This means reconfigure the system from this file. Changes take effect immediately and could have consequences. Be certain to understand the changes you are invoking before clicking "load".

Click "Boot" to select a different boot configuration file. This is the Flash file that is automatically loaded upon power-up.

Click "View" to look at the selected file. It should be an XML file, and your browser will recognize it as such if properly formatted.

Click "Delete" to remove a file from the local file directory.

Click "Browse" to select a file for upload from your PC. Once selected, then click "Upload" to complete the process.

Check "Confirm" and click "Restart" to re-boot the system. This will not cycle power to the hardware, but will reboot the processor as if power had been

3. Press <Upload>
4. If the uploaded file name is not the default BootConfig.xml, select the applicable file name from the Local file directory.
5. Press <Save> and wait for the flash memory to be updated.
6. Press <Load> to reload the configuration file, and verify the desired settings have been changed.

4 Change BACnet Instance ID

7. Select <System Setup>; <Setup>; <BACnet IP Port>
8. Change BACnet IP Settings; Device Instance to the desired value
9. <Save>
10. Wait while the information is saved to the unit
11. The browser should automatically refresh, but if it doesn't, <Refresh> to verify the value has been changed

Device Instance

Babel Buster 2
BACNET IP - MS/TP
NETWORK GATEWAY
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CONTROL SOLUTIONS, INC.
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Data Objects | BACnet Client | BACnet Router | Modbus TCP | **System Setup**

Setup | BBMD | Config File | **BACnet IP Port** | Local Host | User

This page displays BACnet IP port settings.

Refresh

BACnet IP Settings: [Local Network Settings](#)

Device Instance: 4082 Save

Port (default 0xBAC0 = 47808): 47808

Device Object Name: Selectronix SLC4082 BB2

Device Description: Babel Buster BB2-7030 BACnet Gateway/Router

Device Location: USA

APDU Timeout: 3000 APDU Retries: 3

APDU Segment Timeout: 5000 Database Revision: 39

Object Count Limits

	Input Objects	Output Objects	Value Objects
Analog	51 <input type="text"/> [51]	1 <input type="text"/> [1]	60 <input type="text"/> [60]
Binary	4 <input type="text"/> [4]	1 <input type="text"/> [1]	4 <input type="text"/> [4]
Multi-State	1 <input type="text"/> [1]	1 <input type="text"/> [1]	1 <input type="text"/> [1]

Allow fault self-reset without Ack ☒

Enable BBMD ☐

Self-restart upon comms loss ☐ Check to **disable**

Backlog Limit: 1

Multi-State offset in Modbus ☐ Check to **disable**

I-Am route learning ☐ Check to **disable**

I-Am-Router route learning ☐ Check to **disable**

Disable segmentation ☐ Check to **disable**

Disable ALL routing ☒ Check to **disable**

MSTP Port Configuration

MSTP MAC address: 12 Max Masters: 127 MS/TP Baud Rate: 38400 Update

Backlog Limit set to 1 is important

Check this box

Check this box

5 Change MS/TP MAC Address and/or Baud rate

1. Change the MSTP Port Configuration MSTP MAC address to the desired value
2. Change the baud rate using the drop down arrow to either 9600, 19200, or 76800
3. <Update>

MSTP Port Configuration

MSTP MAC address: Max Masters: MS/TP Baud Rate:

4. Click on <Config File> tab and <Save>

5. Wait while the configuration file is being saved. The browser should automatically refresh.
6. Press <Load> or power cycle the unit
7. Click on <BACnet IP Port> tab.
8. Verify the desired changes have been made.

6 Verification and Finalization

6.1 BACnet Client Information

The SLC4082 is pre-configured to be a client of the SLC4075 touch screen display. Verify that the BACnet Client screen appears as below. Note that the “MAC Found” may be blank on initial startup.

Babel Buster 2
BACNET IP - MS/TP
NETWORK GATEWAY
MODEL BB2-7030-01

CONTROL SOLUTIONS, INC.
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Data Objects | **BACnet Client** | BACnet Router | Modbus TCP | System Setup

BACnet Client | Diagnostics | Devices

This page sets up the device list for remote BACnet devices that will be accessed for remote input and/or output (via the client read and client write maps). The local device acts as a BACnet client to the remote servers configured below.

Device #

Device Instance: Local Name:

Static Address: ☐ No Who-Is Static MAC: DNet:

Default Poll Period: Seconds Default Write Priority:

Reply Timeout: Seconds Timeouts:

MAC Found:

6.2 Re-connect and Verify

1. Close the browser
2. Disconnect the Ethernet cable from the BB2.
3. Re-connect the Ethernet cable from the SLC4075 touch screen, which was disconnected in step 2.2, above.
4. Perform auto-discovery on the BB2.