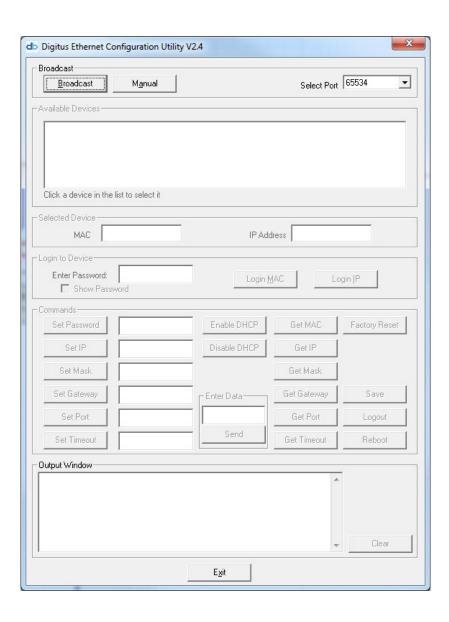


Digitus Ethernet Utility User Manual



(Last updated: May 2015)

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Introduction – Digitus Ethernet Utility User Manual

The Digitus Ethernet Utility is used to program the IP (network) settings for Digitus Devices. Note this utility is only needed when the Digitus device is on a different network segment than the DAS-SQL Service, preventing it from being discovered using UDP Broadcast and program via UDP command.

Section 1 - Discovering the Digitus Devices

Default Device IP Addresses

db Zero-U, **db Nexus** and **db Nexus Duo** devices have a default IP address of **192.168.1.1**. Please set your PC to an IP address on the **192.168.1.1/8** network, e.g. IP address **192.168.1.2**, Subnet Mask **255.255.255.0**

db Bus and **db Sentry** devices have a default IP address of **10.0.0.200**. Please set your PC to an IP address on the **10.0.0.0/8** network, e.g. **10.0.0.1**, Subnet Mask **255.255.255.0**

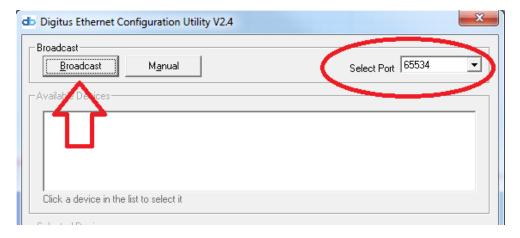
Different Digitus devices listen on different UDP ports.

Device Type	UDP Port Number
db Zero-U	65534
db Nexus	65534
db Nexus Duo	65534
db Bus products	65533
db Sentry	65532

The Digitus Ethernet Utility uses UDP broadcast to discover the devices. UDP Broadcasts only work over a single network segment. Please ensure the computer running the utility and the device are connected to the same network segment. Ideally they would be connected directly using a crossover cable.

Please note that all software firewall programs either need to be disabled, or the Digitus Ethernet Utility needs to be added as an "allow program" through the firewall.

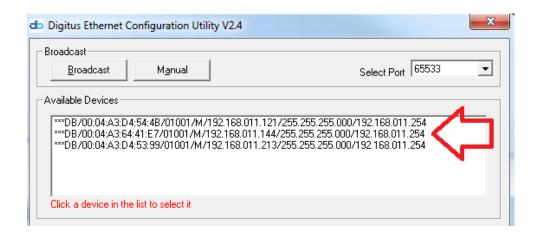
Select the correct *port* of the device being configured:



Click the **Broadcast** Button

Section 2 – Select the Device to Configure

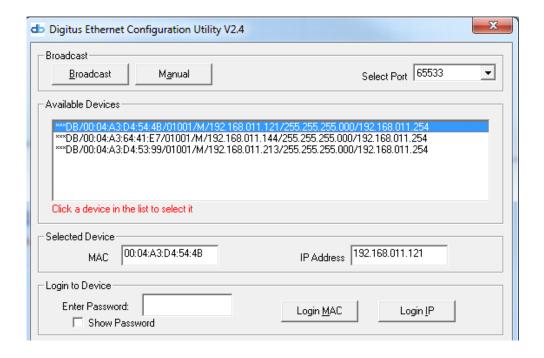
If any Digitus devices are discovered, they will be displayed in the "Available Devices" list as show below:



Click on the *device* in the list to be configured:

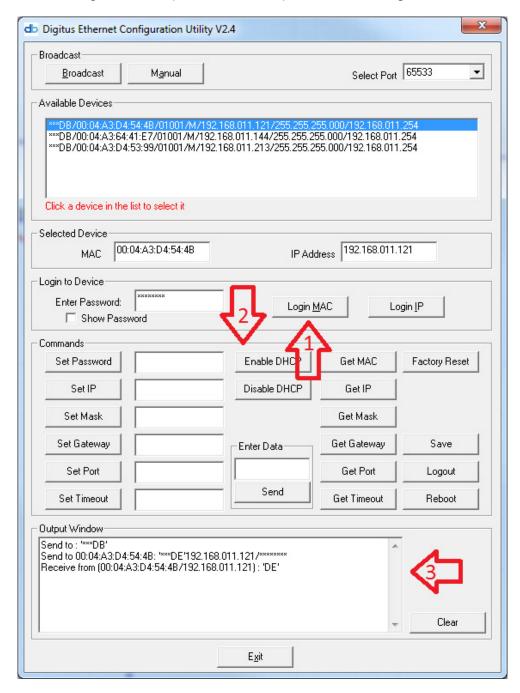
Note that the devices are identifiable by their MAC (Ethernet) address. Each Digitus device has a unique MAC address that will be printed on the actual device. The responses in the list contain the MAC address an identified below:

Unique DB Header	***DB/00:04:A3:D4:54:4B/01001/M/192.168.011.121/255.255.255.000/192.168.011.254
MAC Address	***DB/ 00:04:A3:D4:54:4B /01001/M/192.168.011.121/255.255.255.000/192.168.011.254
TCP Port	***DB/00:04:A3:D4:54:4B/ 01001 /M/192.168.011.121/255.255.255.000/192.168.011.254
DHCP (D) / Static (M)	***DB/00:04:A3:D4:54:4B/01001/ M /192.168.011.121/255.255.255.000/192.168.011.254
IP Address	***DB/00:04:A3:D4:54:4B/01001/M/ 192.168.011.121 /255.255.255.000/192.168.011.254
Subnet Mask	***DB/00:04:A3:D4:54:4B/01001/M/192.168.011.121/ 255.255.255.000 /192.168.011.254
Default Gateway	***DB/00:04:A3:D4:54:4B/01001/M/192.168.011.121/255.255.255.000/ 192.168.011.254



Section 3 – Login to the Device

The default password for all Digitus device is "password'. Enter the password and click Login MAC (1):



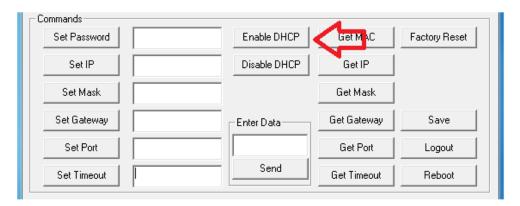
If the login is successful, all the controls within the "Commands" frame will be enabled (2).

Note the "**Output Window**" (3) shows the communication dialogue between the Digitus Ethernet Utility and the Digitus device.

Section 4 - Enabling DHCP

Although DHCP is supported, it is not recommend for Digitus devices. All communication between the Digitus DAS-SQL software and Digitus devices in done using the TCP protocol. DAS-SQL will initiate communication with the device by using its IP address. If DHCP is used, there's a chance that the IP address can change and thus DAS-SQL will not be able to communicate with the device. If DHCP must be used, please add "MAC Address Reservations" within the DHCP Server.

To Enable DHCP, click *Enable DHCP* **button**:



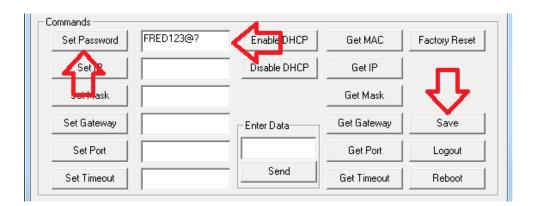
Click the Save button

Note if DHCP is already enabled, click the *Disable DHCP* button to disable it, followed by a click of the *Save* button

Section 5 – Changing Password Setting

To change any given setting, enter the new value in the text box to the right of the applicable button.

To change the UDP password, enter the *new value* as shown below:

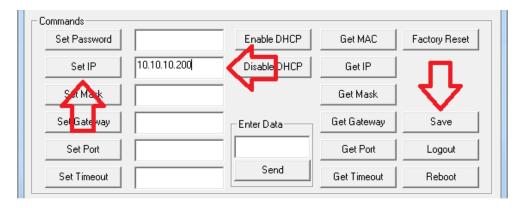


Click the **Set Password** button

Click the *Save* button

Section 6 - Changing Network (IP, Subnet Mask, Default Gateway) Settings

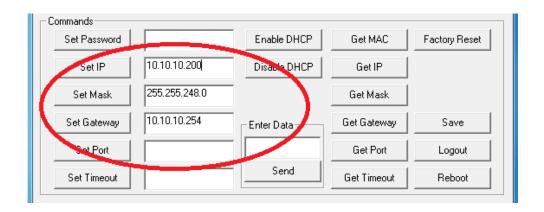
To set the IP address, enter the new value as shown below:



Click the Set IP button

Click the **Save** button

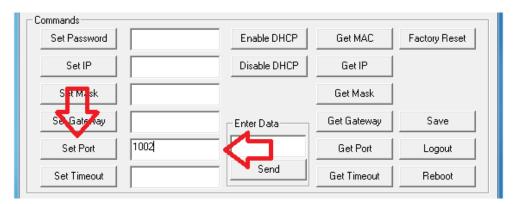
Repeat the steps for the **Subnet Mask** and **Default Gateway** configured:



Section 7 – Changing TCP Port Setting

It should be very rare that the default listening TCP port needs to be changed.

To change the TCP Port, enter the new value as shown below:



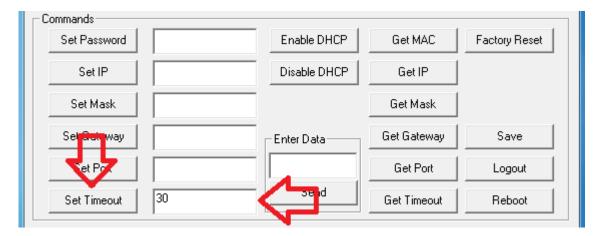
Click the **Set Port** button

Click the *Save* button

Section 8 – Changing TCP Timeout Setting

The default (and **recommend**) timeout value is 30 (seconds).

To change the TCP Timeout, enter the new value as shown below, the minimum permitted value is 20 (seconds) and the maximum is 59 (seconds).



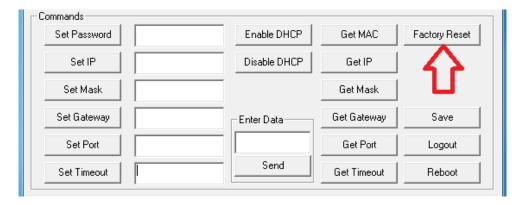
Click the **Set Timeout** button

Click the *Save* button

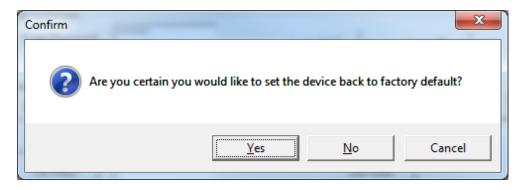
Section 9 – Factory Reset (db Bus Product only)

To reset the entire db Bus system back to factory default, use the Factory Rest button. Note that all **user data**, **event logs** and **configuration data** will be lost. The Factory reset will **not** however restore to an earlier version of **firmware**. If the firmware version has been changed, the current version will remain active on the db Bus devices.

Click the *Factory Reset* button

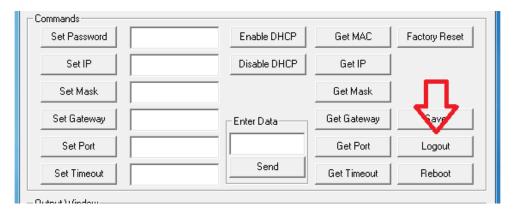


Click the Yes button on the Confirmation dialogue box



Section 9 – Logging Out of the UDP Configuration

To logout of the UDP session, click the Logout button

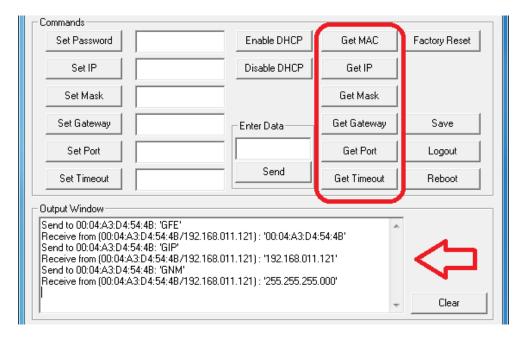


Once you've logged out of the UDP session, click the Broadcast button again, to confirm the new settings. Refer to the table in **Section 2** of his document to confirm that the new settings have been applied.

Section 10 - Using the "Get" Buttons

The "Get" buttons allow you to read the current settings from a device.

Click the applicable button and the current setting from the device will be displayed in the **Output Window**:





Digitus Biometrics, Inc. 2 East Bryan Street, Ste 502 Savannah, GA 31401 USA

Phone: 912-231-8175
Fax: 912.629.9478
www.digitus-biometrics.com
support@digitus-biometrics.com
Specifications subject to change without notice.