

Title: How to configure an Enhanced Site Control Unit (ESCU).

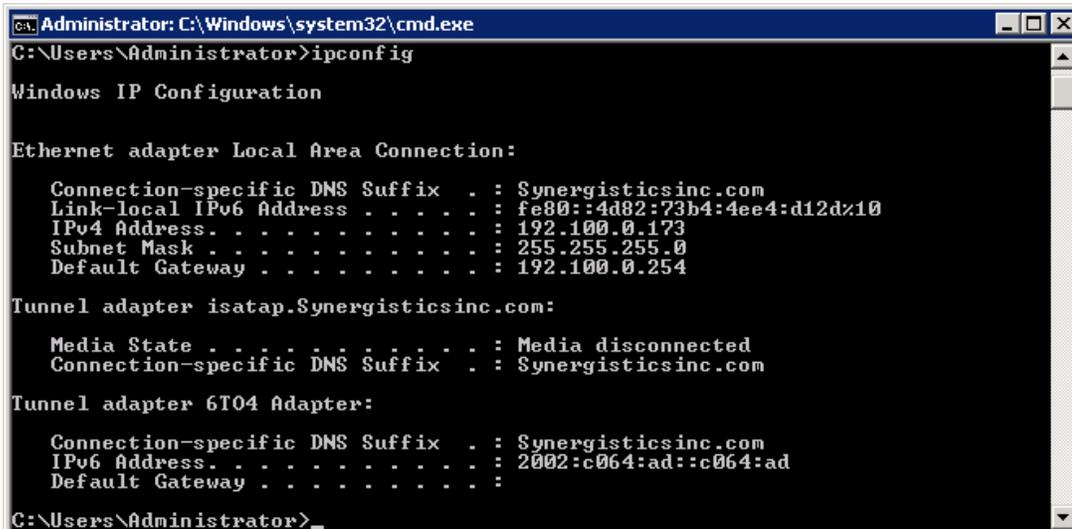
Contents: This document explains how to configure an Enhanced Site Control Unit (ESCU).

Procedure:

Verifying the IP address currently assigned to your computer:

The Enhanced Site Control Units (ESCU) are shipped with a default IP address of 192.168.0.254. In order to connect to the ESCU to configure it, the computer you are using must be assigned an IP address within the same IP range (i.e. 192.168.0.x).

1. To check the IP address currently assigned to your computer, click the **Start** button and type **CMD** in the *Search programs and files* box and then press **Enter**.
2. A Command Prompt window will then be displayed. Type **ipconfig** and press **Enter**.
3. The currently assigned IP address (**IPv4 Address**) will then be displayed:



```
Administrator: C:\Windows\system32\cmd.exe
C:\Users\Administrator>ipconfig

Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : Synergisticsinc.com
    Link-local IPv6 Address . . . . . : fe80::4d82:73b4:4ee4:d12d%10
    IPv4 Address. . . . . : 192.100.0.173
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.100.0.254

Tunnel adapter isatap.Synergisticsinc.com:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : Synergisticsinc.com

Tunnel adapter 6T04 Adapter:

    Connection-specific DNS Suffix  . : Synergisticsinc.com
    IPv6 Address. . . . . : 2002:c064:ad::c064:ad
    Default Gateway . . . . . :

C:\Users\Administrator>
```

4. If the currently assigned IP address is within the 192.168.0.x range, your computer will be able to communicate to and configure the ESCU. Please skip the section of this procedure titled 'Assigning a static IP address to your computer'.

Assigning a Static IP address to your computer:

1. If your computer does not already have a 192.168.0.x address, you will need to manually assign a static IP address, in this range, to your computer.
2. From the **Start Menu**, select **Start > Control Panel**. Click on **Network and Internet** and then **Network and Sharing Center**.
3. On the left side of the screen, click **Change adapter settings**. **Right-click** on your Network Connection, typically named **Local Area Connection**, and select **Properties**.
4. Select **Internet Protocol Version 4 (TCP/IPv4)** and click **Properties**.
5. Select the **Use the following ip address** radio button. Enter the **IP address** of **192.168.0.1** and a **Subnet mask** of **255.255.255.0**. Click **OK** to save the changes.

Configuring the ESCU:

1. Connect your computer and the ESCU to the same network switch. Alternately, the computer and ESCU can be connected directly together using a crossover cable.

Note since all ESCU are shipped with the default IP address of 192.168.0.254, it is important to connect only one to the network at a time to prevent duplicate IP addresses.

2. Open your web browser and type 192.168.0.254 in the address bar. The following ESCU configuration web page will be displayed:

The screenshot shows a web browser window titled "enhanced ESCU Configuration - Internet Explorer". The address bar contains "http://192.168.0.254/". The page content includes the following fields and values:

- Release: 5C Build: 131
- MAC: 78 : 32 : 4F : 00 : 00 : 2B
- IP Address: 192 . 168 . 0 . 254
- Subnet: 0 . 0 . 0 . 0
- Gateway: 0 . 0 . 0 . 0
- Port: 2200
- Password: [empty]
- Confirm Password: [empty]
- Speed: 4800 (dropdown menu)
- Disconnect timeout seconds: 30
- Ping: Allowed (dropdown menu)
- Assign button

3. Enter a static **IP address**, **Subnet** and **Gateway**.
4. It is recommended to leave the TCP **Port** at the default, **2200**. Currently, Millennium Expert/Enterprise and Xtra do not allow you to change the TCP port in the software. As a result, the port must be 2200 in order for the software to be able to communicate to the ESCU.
5. If desired, enter a **Password**. If a password is entered, this password must be supplied if you need to connect to and reconfigure the ESCU in the future. If the password is forgotten, the ESCU must be set back to factory defaults and reconfigured.
6. Set the **Speed** according to the following guidelines:
 - If the ESCU is controlling a Site that has any older revisions of DCD, ECU or RCD boards, the **Speed** must be set at 4800 baud.

- If the ESCU is controlling a Site that is comprised only of Enhanced Door Control Devices (EDCD), the baud rate can then be set higher, depending on the quality and length of the wiring run. Typically, it is recommended to set the Speed at 38400 for EDCC sites. Speeds of 76800 and 153600 can be used for sites that have less than 20 EDCC's and wiring runs under 1000 feet.
7. It is recommended to leave the **Disconnect timeout seconds** set at **30** seconds.
 8. It is recommended to set the **Ping** setting to **Allowed**, which provides the ability to ping the device so the connection can be tested. If the **Ping** setting is set for **Blocked**, you will not be able to ping the device, which may complicate future troubleshooting.
 9. Once the settings are configured as desired, press the **Assign** button to apply the configuration to the ESCU.