

## How to Update Servo/Stepper Firmware on a Blue Fusion Controller (5100/5200)

# 9



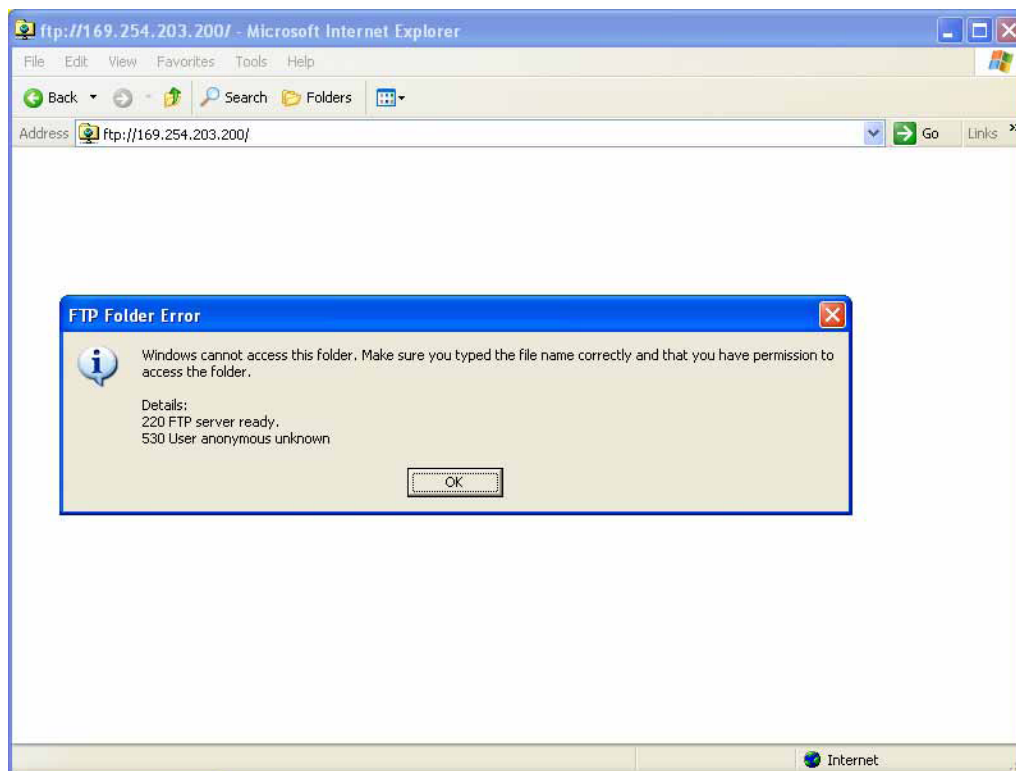
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Before you begin, download the applicable file from our web site (<http://www.ctc-control.com/customer/idxdownloads.asp>) and store it in a known file folder. For these instructions we will be updating a servo module using file **5140V0505.sr**.

Next, verify TCP/IP connectivity with your controller. For these instructions we will be using the IP address 169.254.203.200. You can find your IP address in registers 20048-20051.

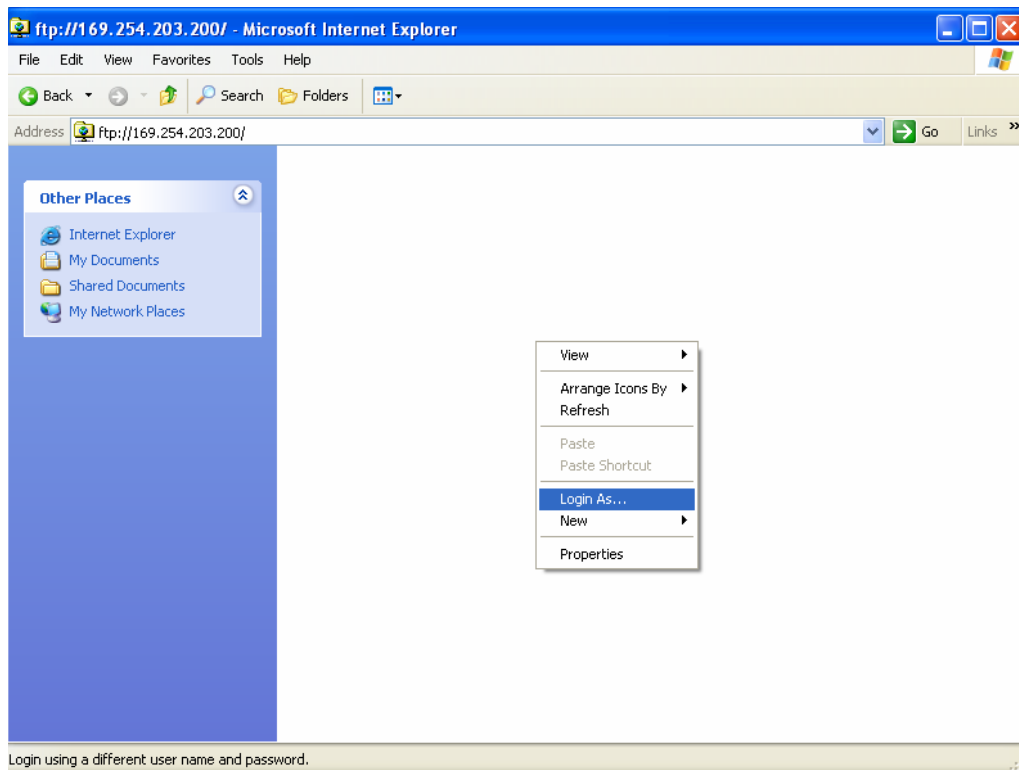
You may now follow these steps:

1. Open a browser window and FTP into controller by typing in the address bar:  
**ftp://169.254.203.200.**

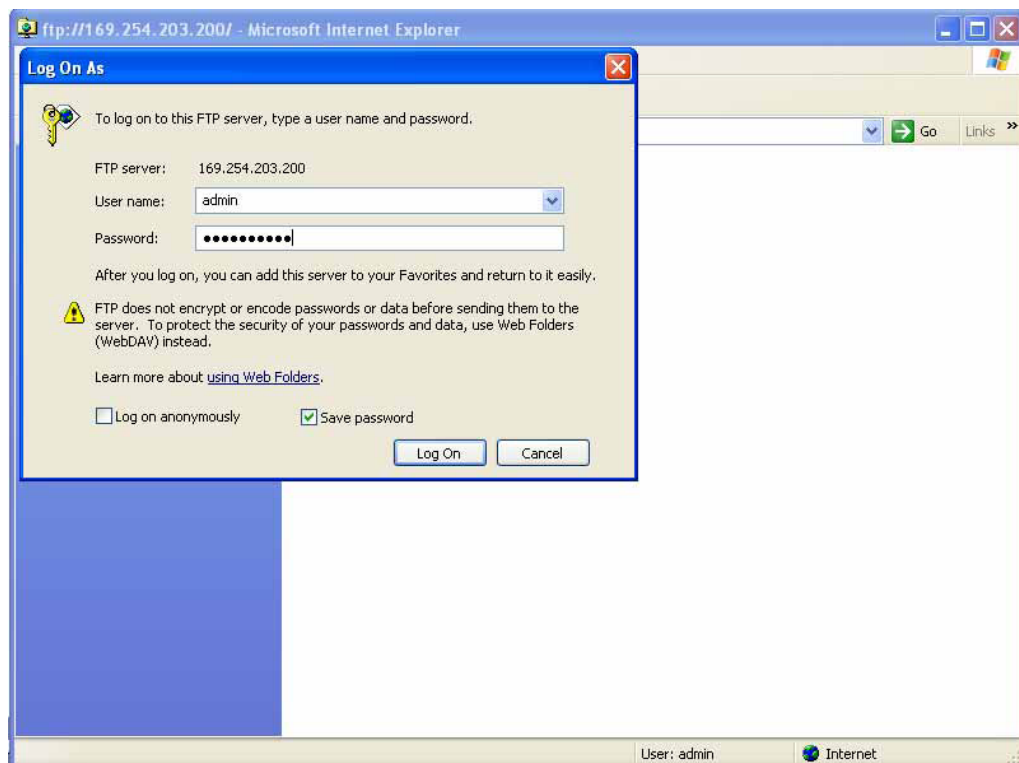


You will see an error message like the one above; please click OK.

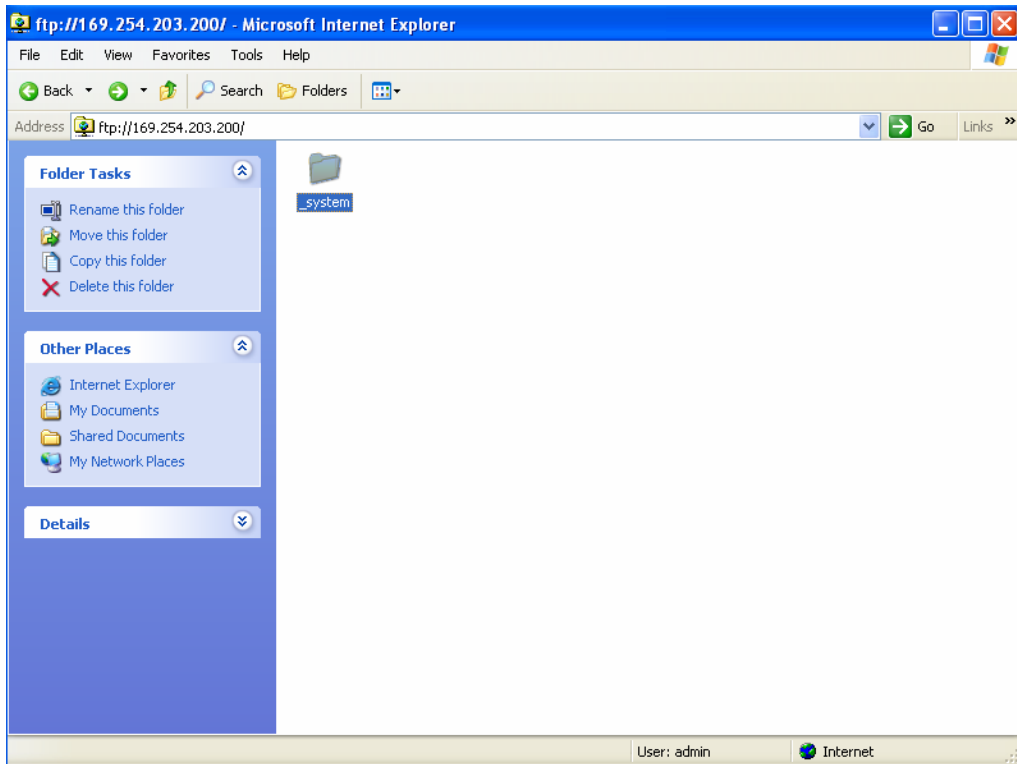
2. Right mouse click on the right hand side of the window and click on Login As:



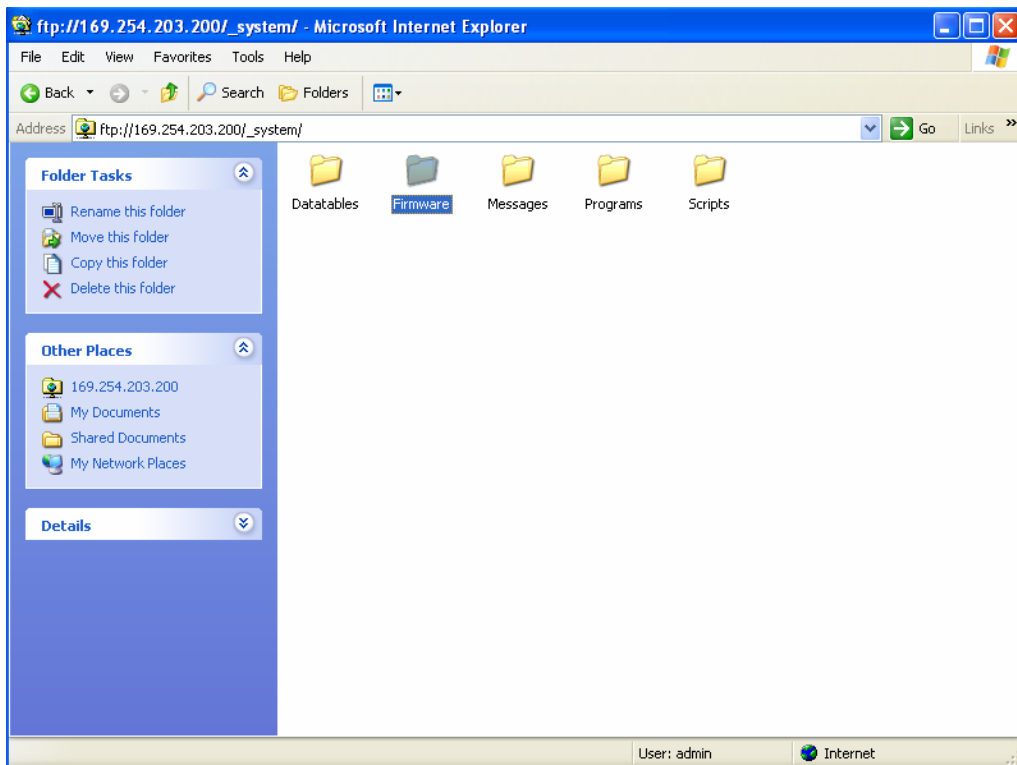
3. For User name type in admin, for Password type in BlueFusion (case sensitive). These are default values. If default values do not work; type in your designated user name and password.



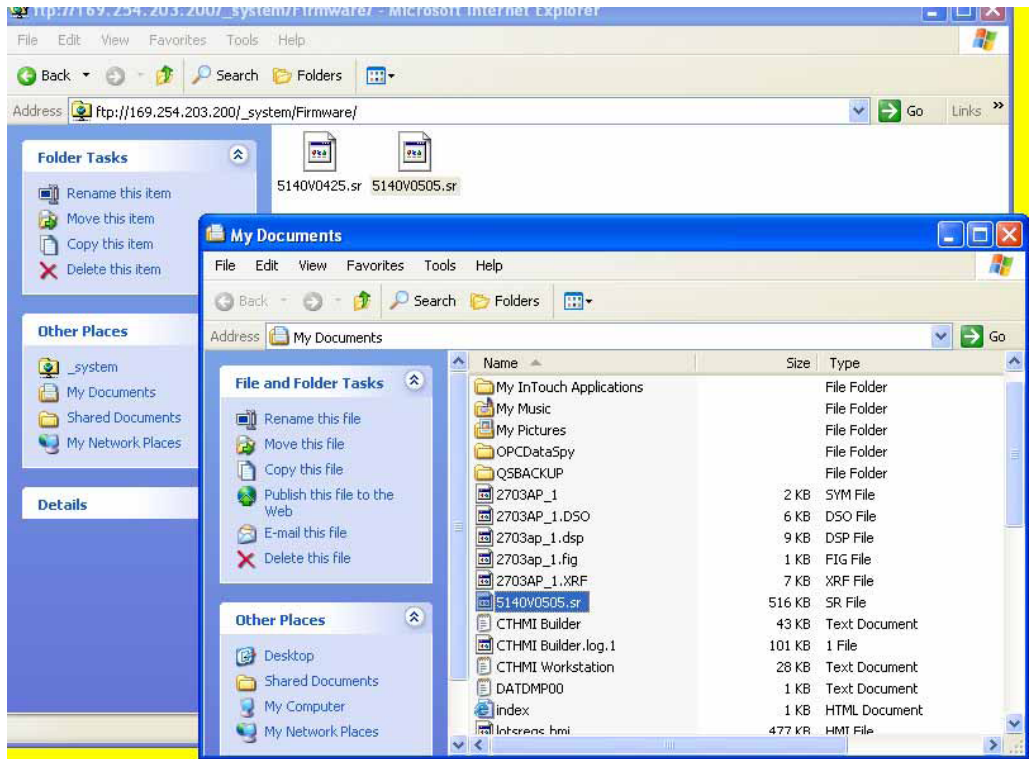
4. When logged in the following window will appear. Double click the `_system` folder.



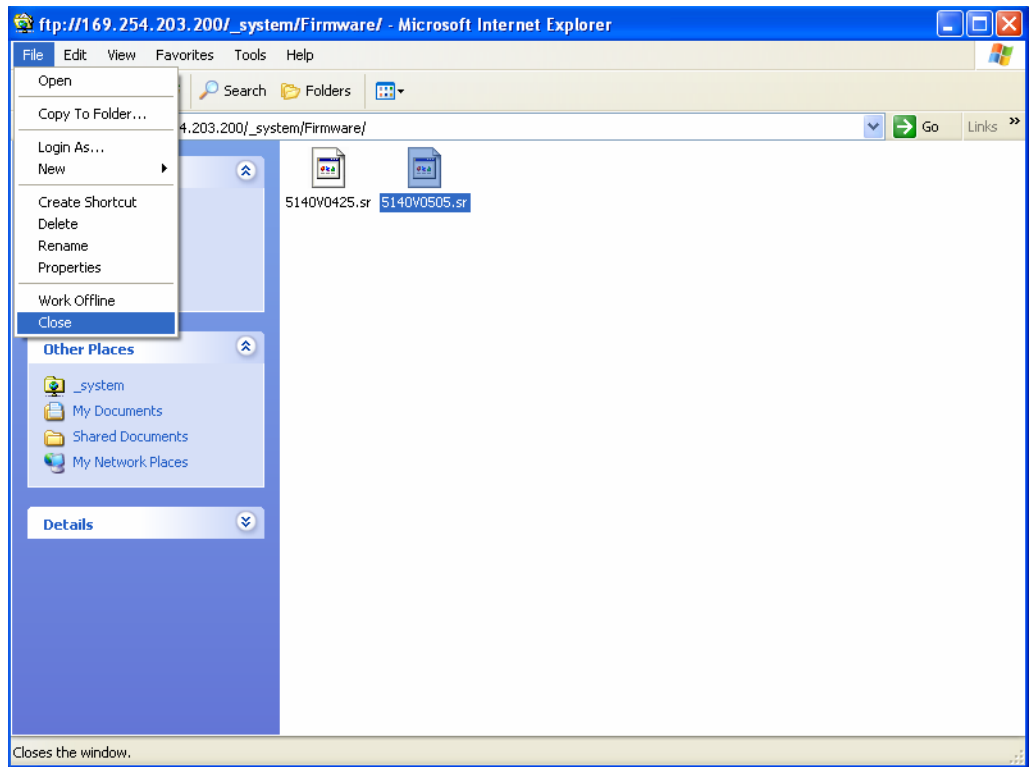
5. Now double click the `Firmware` folder.



6. Drag and drop the **.sr** file into this folder.

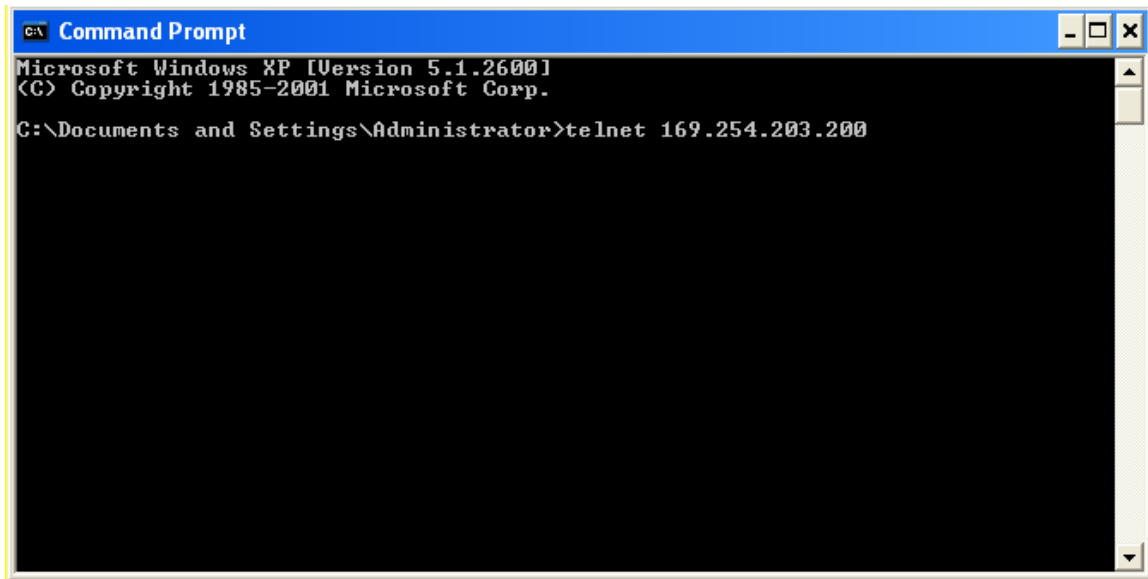


7. After copying operation is complete, Close the FTP connection.



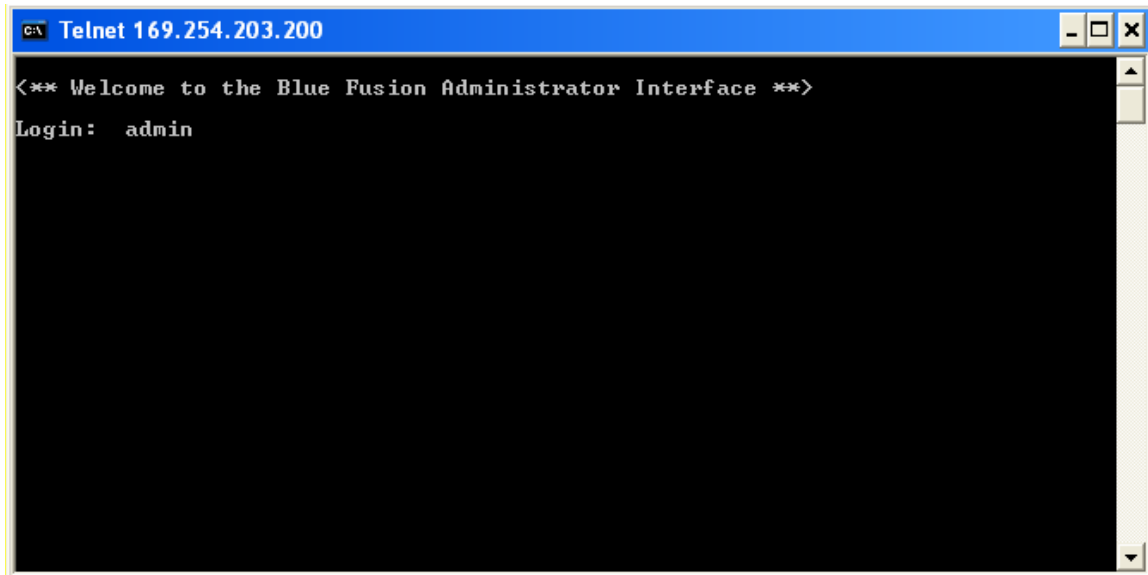
8. You will now communicate via telnet from a command prompt window. Type:

```
telnet 169.254.203.200
```



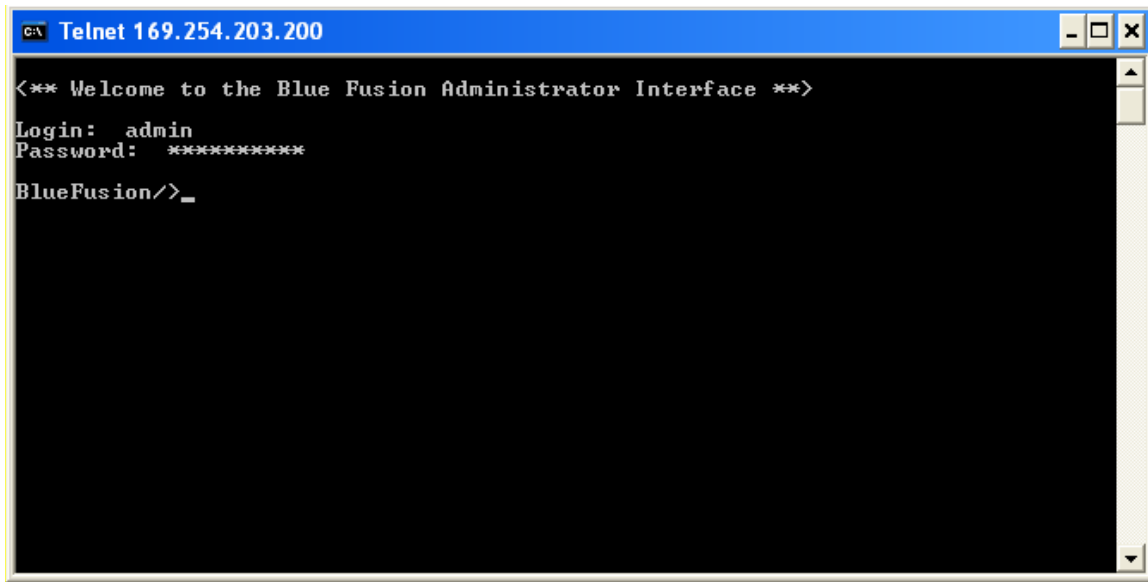
```
Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\Administrator>telnet 169.254.203.200
```

9. User: admin and press <Enter>:



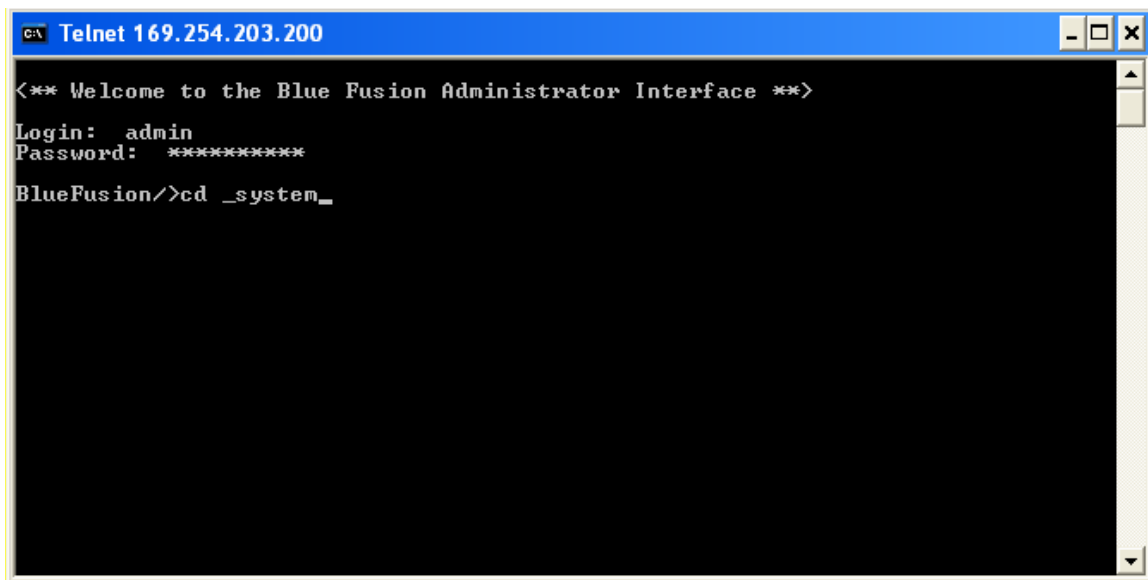
```
Telnet 169.254.203.200
<*** Welcome to the Blue Fusion Administrator Interface ***>
Login: admin
```

10. Password: BlueFusion and press <Enter>:



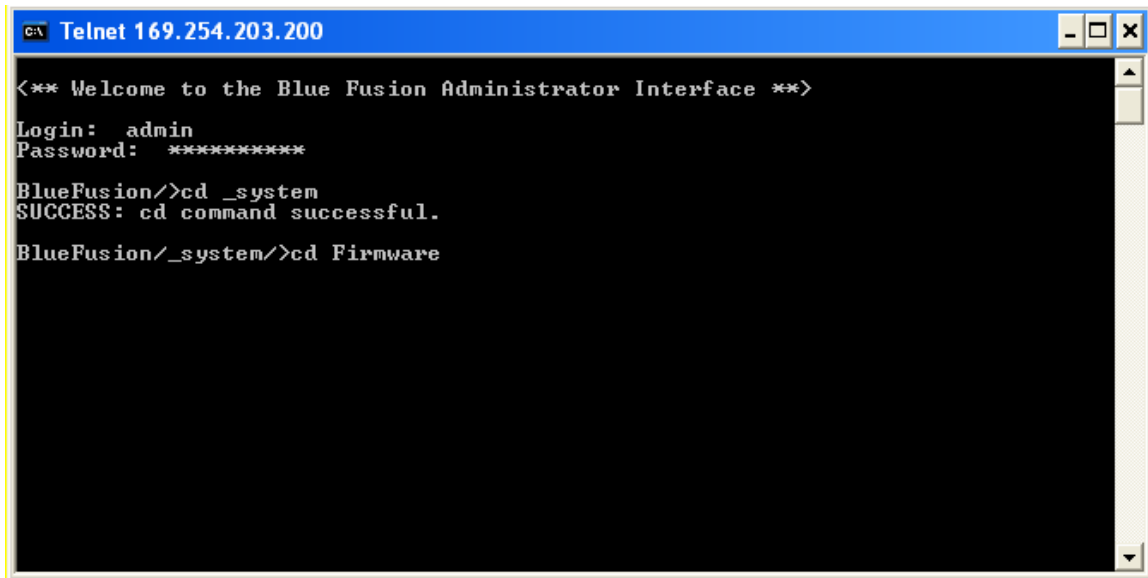
```
C:\ Telnet 169.254.203.200
<*** Welcome to the Blue Fusion Administrator Interface ***>
Login: admin
Password: *****
BlueFusion/>_
```

11. Change directory to \_system:



```
C:\ Telnet 169.254.203.200
<*** Welcome to the Blue Fusion Administrator Interface ***>
Login: admin
Password: *****
BlueFusion/>cd _system_
```

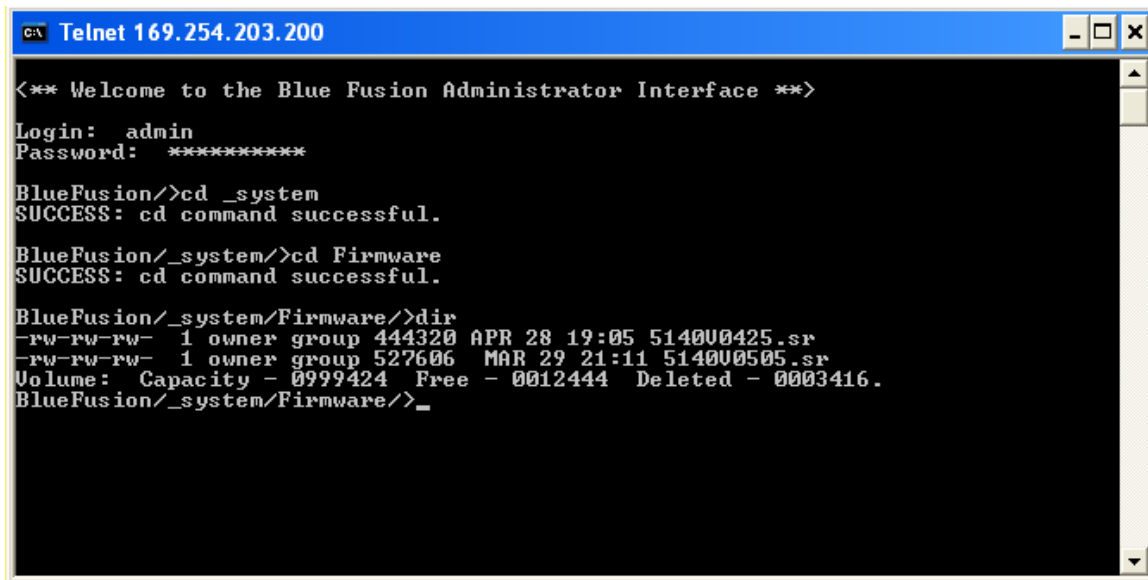
12. Change directory to Firmware:



```
C:\ Telnet 169.254.203.200

<*** Welcome to the Blue Fusion Administrator Interface ***>
Login: admin
Password: *****
BlueFusion/>cd _system
SUCCESS: cd command successful.
BlueFusion/_system/>cd Firmware
```

13. Just to verify the file is located in this folder, display the contents by commanding a dir:

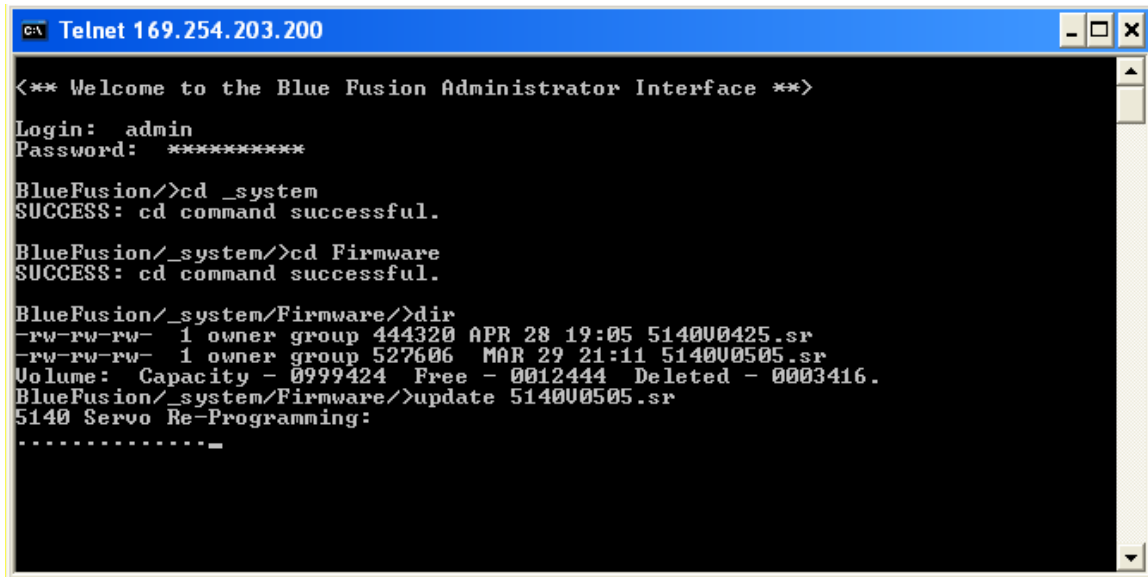


```
C:\ Telnet 169.254.203.200

<*** Welcome to the Blue Fusion Administrator Interface ***>
Login: admin
Password: *****
BlueFusion/>cd _system
SUCCESS: cd command successful.
BlueFusion/_system/>cd Firmware
SUCCESS: cd command successful.
BlueFusion/_system/Firmware/>dir
-rw-rw-rw- 1 owner group 444320 APR 28 19:05 5140U0425.sr
-rw-rw-rw- 1 owner group 527606 MAR 29 21:11 5140U0505.sr
Volume: Capacity - 0999424 Free - 0012444 Deleted - 0003416.
BlueFusion/_system/Firmware/>_
```

If file is not visible here please return to the beginning. Otherwise proceed to the next step.

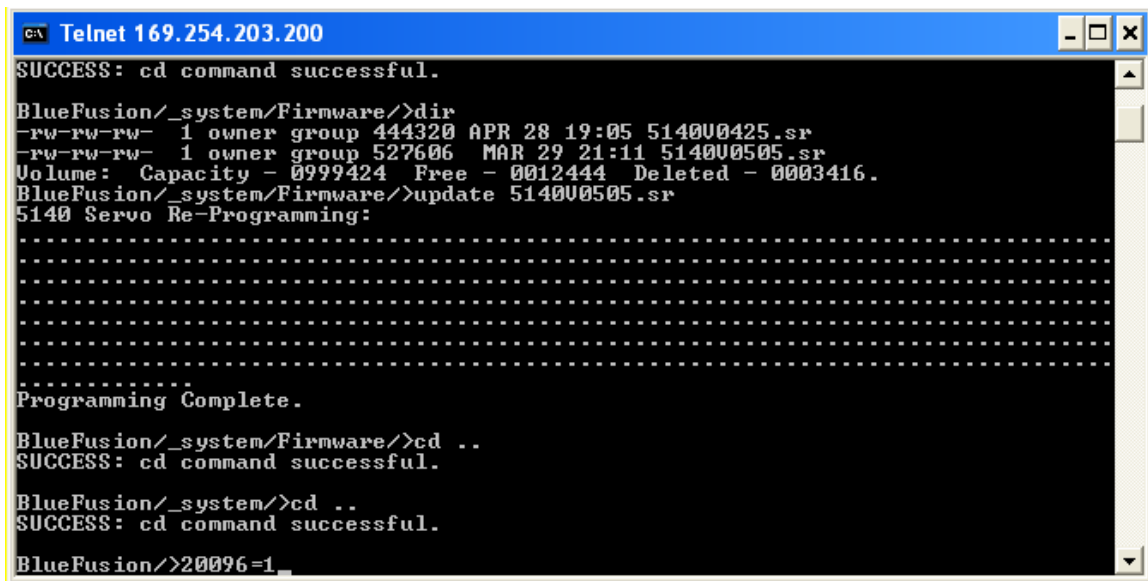
14. Type the command `update 5140V0505.sr` and press <Enter>. You should see a screen similar to the one below.



```
C:\ Telnet 169.254.203.200
<*** Welcome to the Blue Fusion Administrator Interface ***>
Login: admin
Password: *****
BlueFusion/>cd _system
SUCCESS: cd command successful.
BlueFusion/_system/>cd Firmware
SUCCESS: cd command successful.
BlueFusion/_system/Firmware/>dir
-rw-rw-rw- 1 owner group 444320 APR 28 19:05 5140U0425.sr
-rw-rw-rw- 1 owner group 527606 MAR 29 21:11 5140U0505.sr
Volume: Capacity - 0999424 Free - 0012444 Deleted - 0003416.
BlueFusion/_system/Firmware/>update 5140U0505.sr
5140 Servo Re-Programming:
.....
```

The entire procedure will take approximately five minutes. A message will appear when completed.

15. Return to the BlueFusion root directory and type `20096=1` and press <Enter>:



```
C:\ Telnet 169.254.203.200
SUCCESS: cd command successful.
BlueFusion/_system/Firmware/>dir
-rw-rw-rw- 1 owner group 444320 APR 28 19:05 5140U0425.sr
-rw-rw-rw- 1 owner group 527606 MAR 29 21:11 5140U0505.sr
Volume: Capacity - 0999424 Free - 0012444 Deleted - 0003416.
BlueFusion/_system/Firmware/>update 5140U0505.sr
5140 Servo Re-Programming:
.....
Programming Complete.
BlueFusion/_system/Firmware/>cd ..
SUCCESS: cd command successful.
BlueFusion/_system/>cd ..
SUCCESS: cd command successful.
BlueFusion/>20096=1_
```

This concludes the procedure. You may now type `quit` to terminate telnet communications and `exit` to return to Windows.