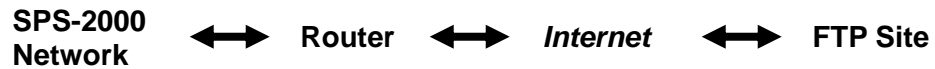# SPS-2000 Network Settings

The default SPS-2000 IP address is derived from its register number. This facilitates network set up and helps avoid user mistakes.

However, custom networks settings can be made so that an SPS-2000 system can send report data to an FTP site.

The diagram below illustrates a typical internet connection:

SPS-2000 Network ⟷ **Router** ⟷ *Internet* ⟷ **FTP Site**

To assign network settings:

1. Select System Options from the **S-Mode** menu. Touch the **PAGE #4** tab.

```
                 S-MODE SYSTEM OPTIONS

  PAGE #1 | PAGE #2 | PAGE #3 | PAGE #4 |

  # NETWORK SETTING?                              YES

     AUTOMATICALLY GET IP ADDRESS? (DHCP)         NO


     IP ADDRESS                              192.168.0.1

     SUBNET MASK                            255.255.255.0

     GATEWAY                                   0.0.0.0


     DNS SERVERS#1                             0.0.0.0

     DNS SERVERS#2                             0.0.0.0


           OK                          CANCEL
```

2. Make the following settings:

# NETWORK SETTING?	Set to **YES**.
AUTOMATICALLY GET IP ADDRESS (DHCP)	Set to YES only if you want to get the IP address from the DHCP server. Consult your network administrator.
IP ADDRESS	**192.168.0.1** (See note below)
SUBNET MASK	**255.255.255.0**
GATEWAY	If connected by router, set to IP Address of Router
DNS SERVERS#1	If connected to Internet, obtain from your Internet Service Provider (ISP)
DNS SERVERS#2	

**Note : SPS-2000s in a IRC system should be in same network.
That is, SUBNET MASK and upper part of IP address should
be identical.**

For example: xxx.xxx.xxx.xxx

Needs to be the same

Must be different
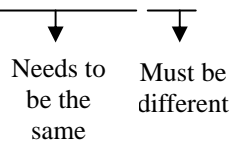
3. Touch **OK** to close and save your settings.

GuildFTPd Setup Instructions

**Note: GuildFTP can be used to demostrate FTP by connecting PC directly connected an SPS-2000.**

Set PC IP Address

At your PC, you must set the network IP Address to:

IP Address	192 . 168 . 0 . 99
Subnet Mask	255 . 255 . 255. 0

Using the following procedure if you are using Windows XP (other Windows operating systems use similar procedures):

1. Click **Start**, **Settings**, **Network Connections**. The *Network Connections* dialog displays:

2. Select the Local Area Connection listing and right-click. Select **Properties** from the sub-menu to display the *Local Area Connection Properties* dialog box.

3. Select the Internet Protocol TCP/IP listing and click the Properties command button.
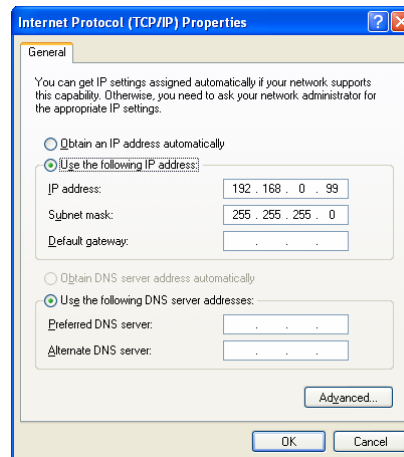
CAUTION: If you are changing your normal network settings to connect to the SPS-2000, be sure to restore your settings after SPS-2000 Communications are complete.

4. Click the "Use the following IP address" option button and enter the settings displayed in the example above.

5. Click **OK**, and then click **OK** to close the Local Area Connection Properties dialog box.

Create Directories for SPS-2000 Files

1. At your PC, create the directory: C:/2000/sps2000-ftp

2. Back up your SPS-2000 program to SD. Copy the program to C:/2000/sps2000-ftp.

3. Copy the report viewing utilities (EmpRpt.exe, FinRpt.exe, GrpRpt.exe, PluRpt.exe) to C:/2000/sps2000-ftp.

GuildFTPd Installation & Setup

1. After installation, open the GuildFTPd program from the desktop.

2. Make sure to **unblock** the GuildFTPd FTP Server Daemon, if you get the notice.

3. By right clicking on **System**, you will be able to **delete** any users or groups that are already set up.

4. Set up the Group: ADMIN; and a User: sps2000.

5. Right-click on **System**, and select **Add Group**.
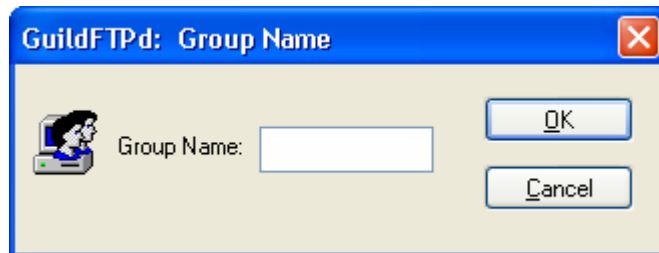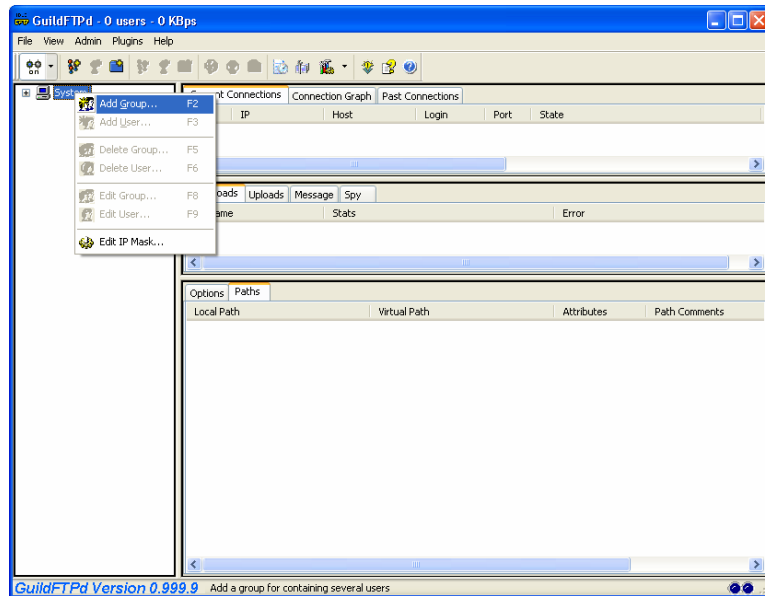
6. The Group name should be ADMIN.

7. Right-click on your Group ADMIN and select **Add User**.
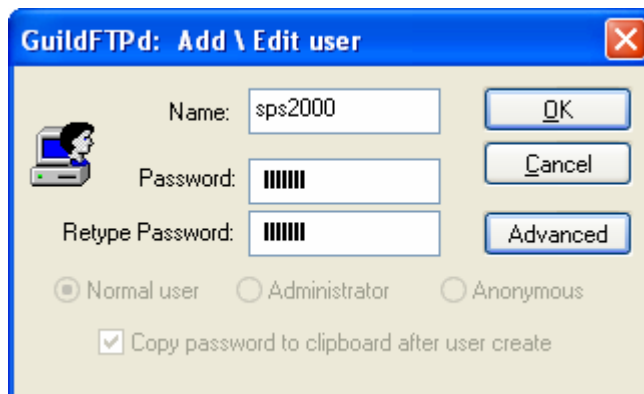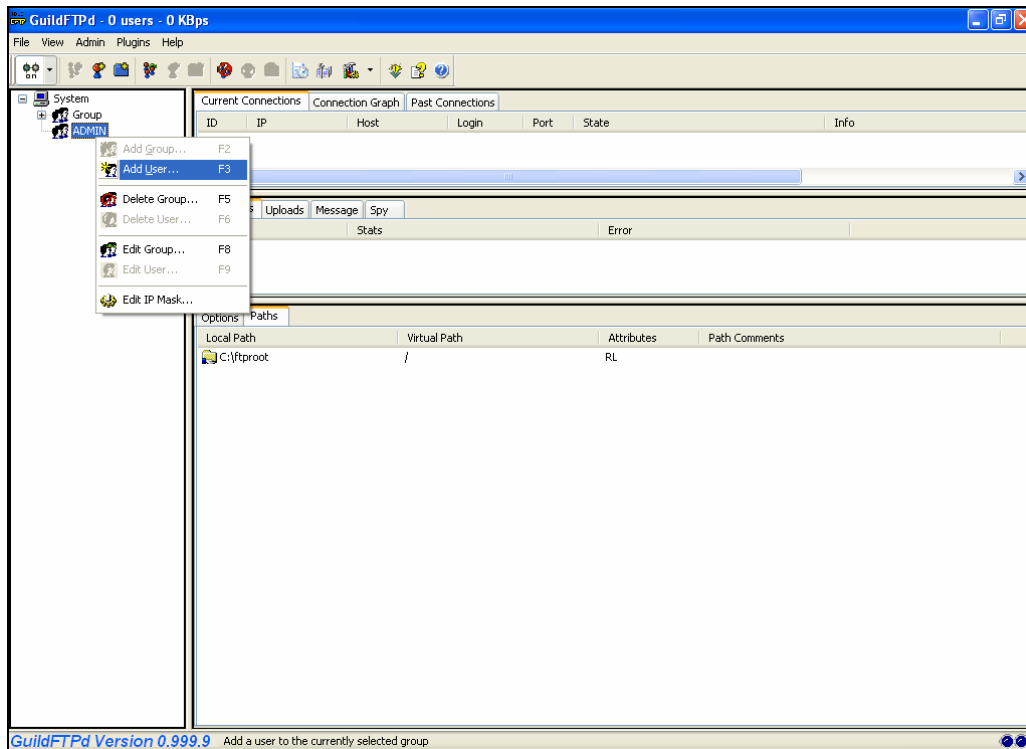
8. User name should be "sps2000" with password of "sps2000" and the Administrator radio-button selected.

9. This username and password correspond to how you program the Network Connections in the SPS-2000.

10. Click the plus sign by System to view the Group and User you've just created.
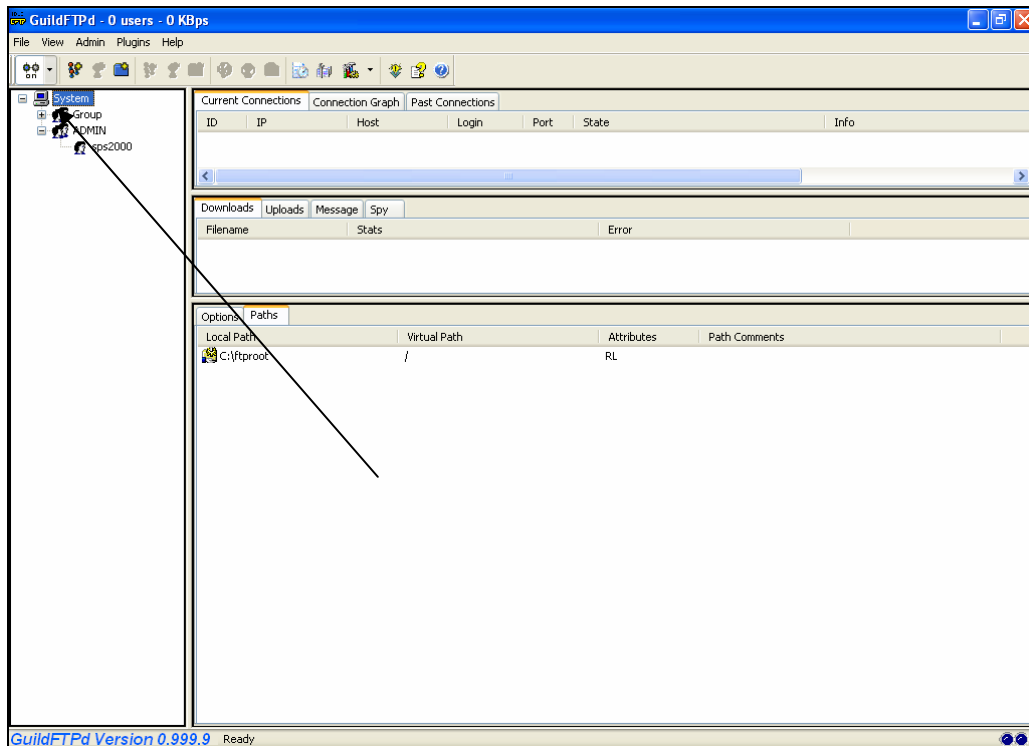
11. Edit the settings for the Group ADMIN and the User sps2000 within the System.

12. Click on **System** and in the bottom panel click on the **Options** tab.
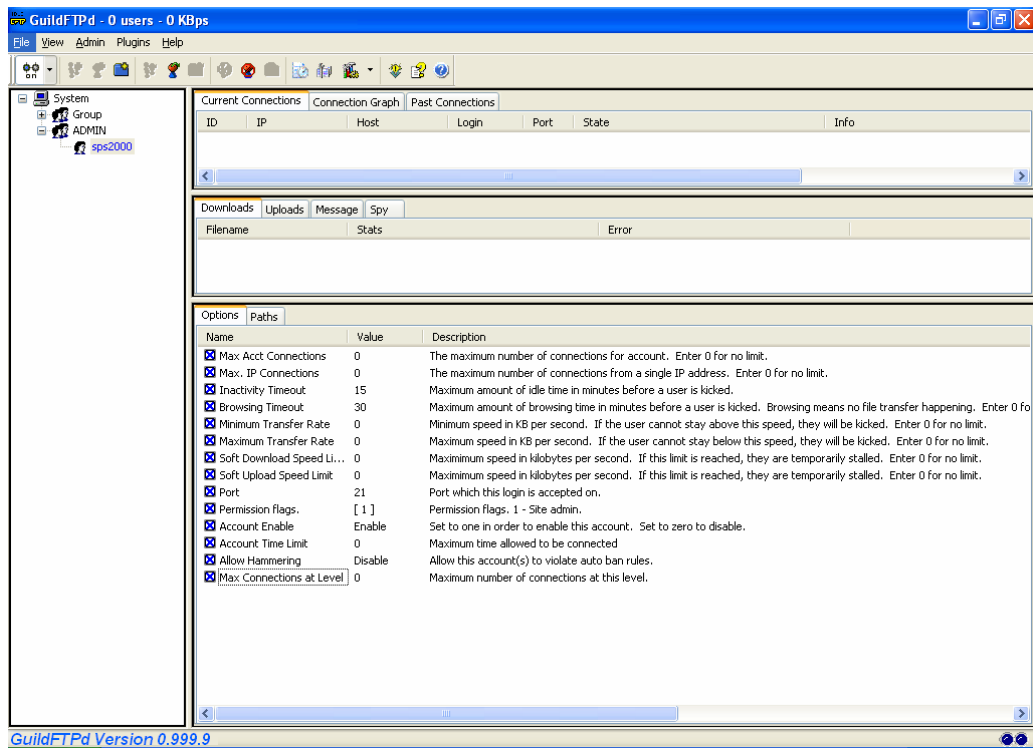
13. Make sure that at least these options are set**:**

Inactivity Timeout = 15,
Browsing Timeout = 30,
Port = 21
Permissions flag should be [1]
Account Enable= ENABLE
Allow Hammering = DISABLE,.

14. All options check boxes should be **checked** for the ADMIN Group.

15. In User ADMIN, the options should be set the same as above:
Inactivity Timeout = 15,
Browsing Timeout = 30,
Port = 21
Permissions flag should be [1]
Account Enable= ENABLE
Allow Hammering = DISABLE,.

16. Delete existing paths, and create the path for communication.

17. Click on the ADMIN group (1), then select the Path tab (2), and right-click the existing path to select EDIT PATH (3).
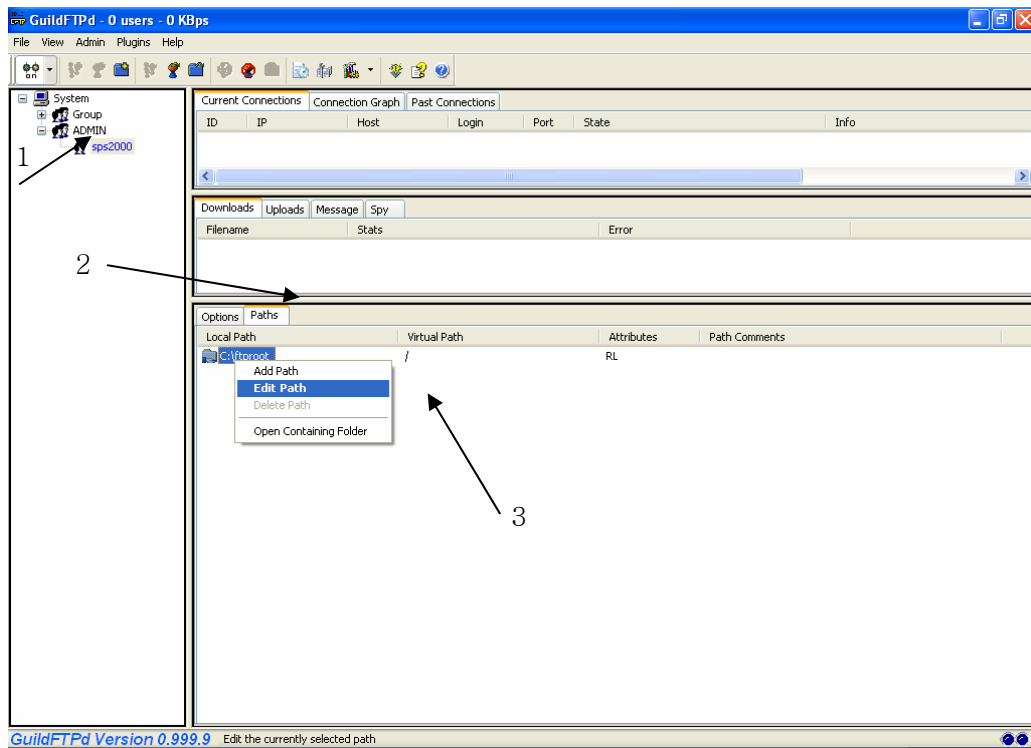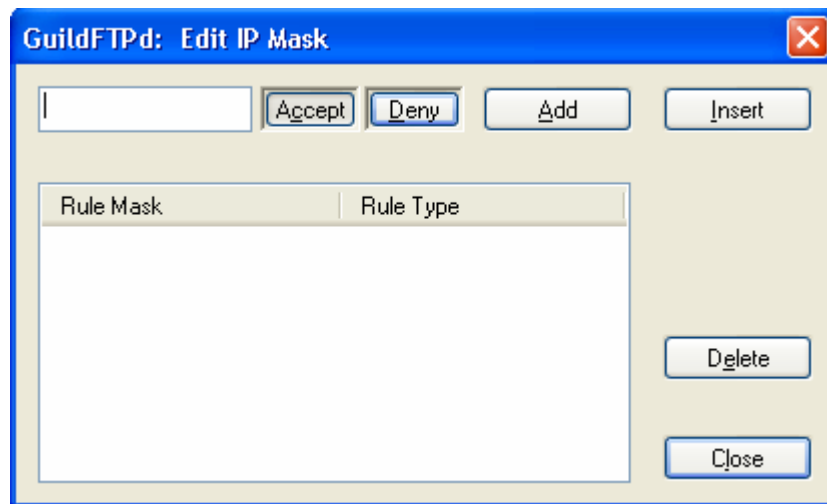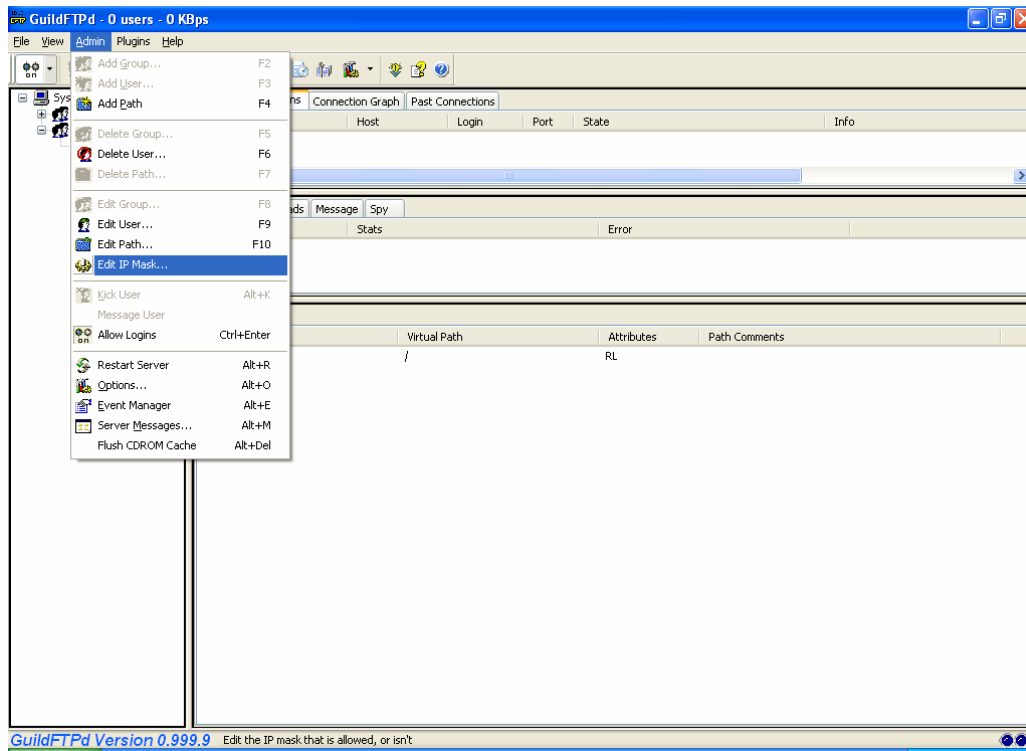

18. Path: C:\2000\sps2000-ftp

19. Virtual path: only /.
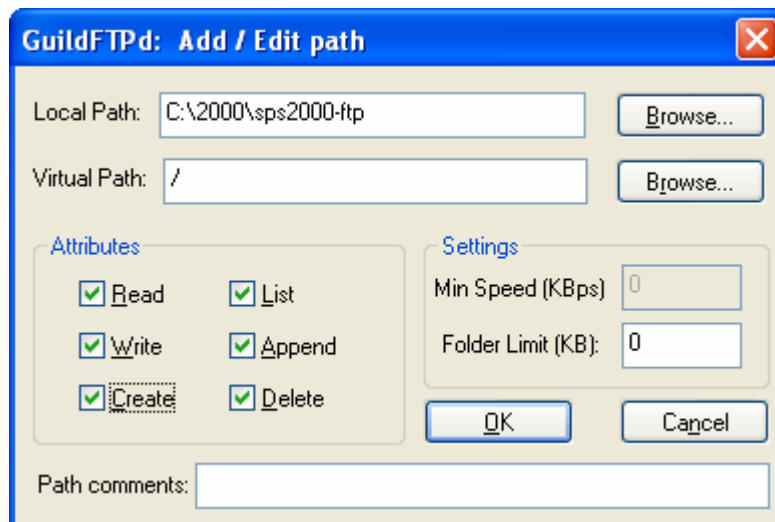
20. The folders also need to have all 6 of the attributes (RWADCL) selected.
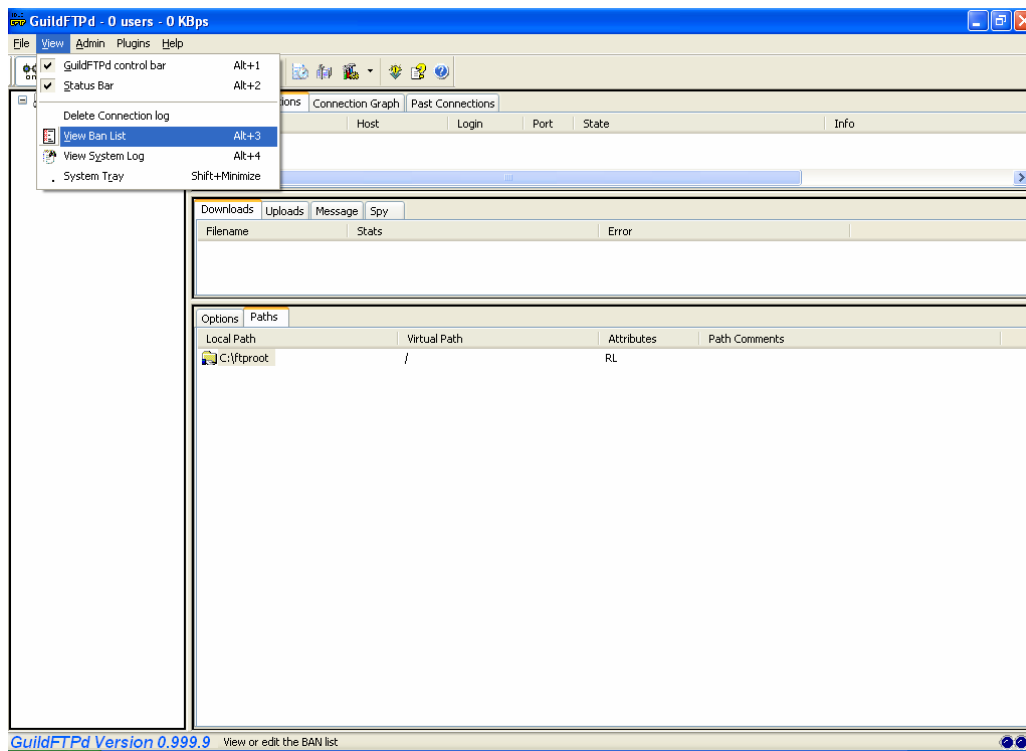
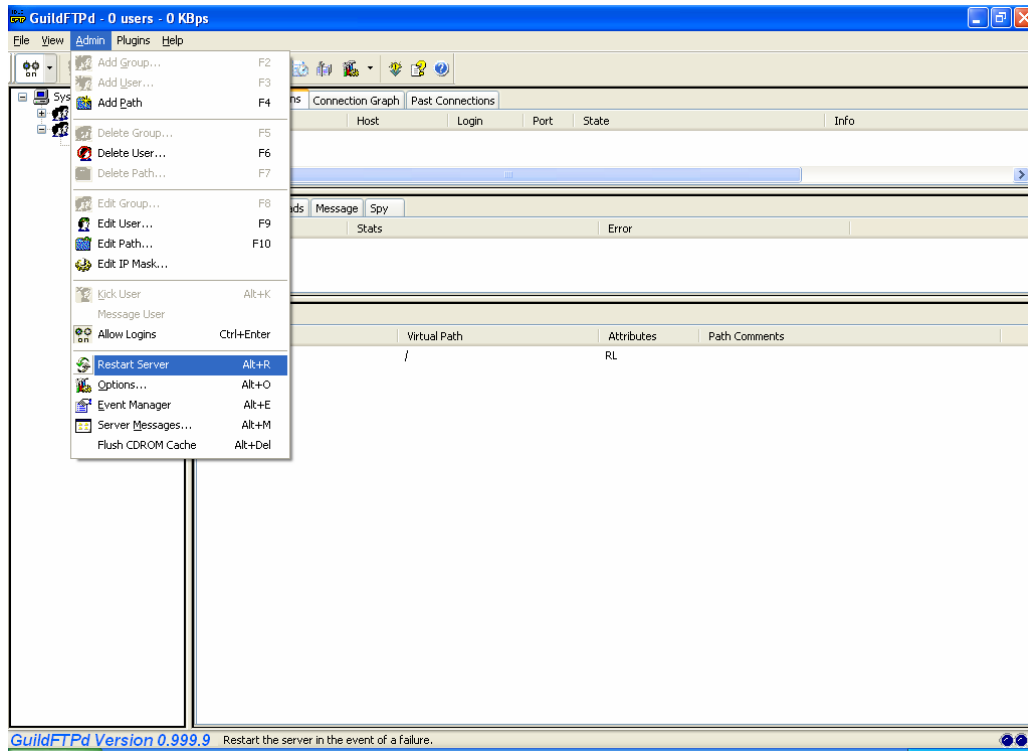21. Select the Admin menu at the top of the screen and go to Edit IP Mask.

22. Delete any entries here.

23. Select the View menu at the top of the screen and select View Ban List.

24. Unban any entries here.

25. Click on the Admin menu at the top of the screen and select Restart Server.

26. You should now be able to connect using the GuildFTPd.

Finished! The PC is now able to communicate with the SPS-2000.

FTP Transmission of Report Files

1. Select **SRAM BACKUP** from the **S-Mode** menu.

| REG | REP | PGM | S | EMPLOYEE SIGN ON |

SELF TEST	SRAM BACKUP	MEMORY ALLOCATION
	LOAD MEMORY ALLOCATION FROM SD	
KEY RELOCATION	BACKUP PGM TO SD	PRINTER DRIVER SELECTIONS
	RESTORE PGM FROM SD	
DEFINE PORT	SAVE REPORT TO SD	PASSWORD
	RESTORE REPORT FROM SD	
LOAD DEFAULT MESSAGES	FTP TRANSMISSION	CLERK UNLOCK
	NONE	
SRAM BACKUP		

2. Touch **FTP TRANSMISSION**.

FTP TRANSMISSION

FTP SERVER ADDRESS	192.168.0.99
FTP PORT NUMBER	21
FTP ID	sps2000
FTP PASSWORD	******

CONNECT..

CLOSE

4. Enter the information for the FTP site you are connecting to:

FTP SERVER ADDRESS	**192.168.0.99**
FTP PORT NUMBER	**21**
FTP ID	**sps2000**
FTP PASSWORD	**Sps2000**

3. Touch **CONNECT**. If the connection is successful, the following screen displays:

```
                    # SELECT REPORT FILES

  # PAGE 1  | # PAGE 2 | # PAGE 3 |
  # SELECT REPORT FILES

  FINANCIAL                  ☑ Z1   □ Z2   □ Z3   □ Z4   □ Z5

  EMPLOYEE                   ☑ Z1   □ Z2   □ Z3   □ Z4   □ Z5

  PLU                        ☑ Z1   □ Z2   □ Z3   □ Z4   □ Z5

  GROUP                      ☑ Z1   □ Z2   □ Z3   □ Z4   □ Z5

  GROUP BY TIME PERIOD       □ Z1   □ Z2   □ Z3   □ Z4   □ Z5

  TIME PERIOD                □ Z1   □ Z2   □ Z3   □ Z4   □ Z5

  TIME KEEPING               □ Z1   □ Z2   □ Z3   □ Z4   □ Z5

  MIX & MATCH                □ Z1   □ Z2   □ Z3   □ Z4   □ Z5


    SELECT ALL        SELECT OFF          UPLOAD FILES

                          CLOSE
```

4. Select file(s) you want to transmit and touch **UPLOAD FILES**.

Viewing .FRT/.RPT Report Formats

SAM4s SPS-2000 reports are transmitted via FTP in .FRT format; Reports archived by SD card are saved in .RPT format. These files are not ASCII and cannot be directly read by a report editor. However, SAM4s supplies separate utilities to view, print or export .FRT and .RPT files. They are:

Report type	Utility
Financial	FinRpt.exe
Group	GrpRpt.exe
Employee	EmpRpt.exe
PLU	PluRpt.exe

Financial Report Viewer

1. Execute FinRpt.EXE.
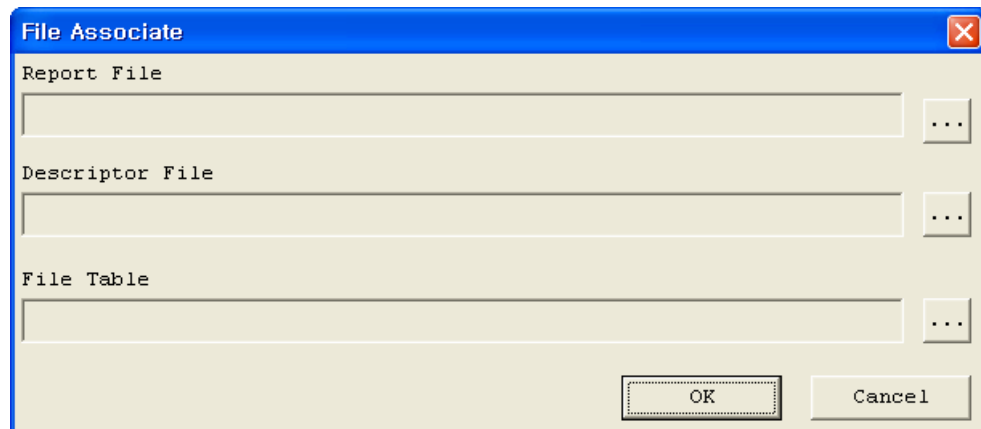
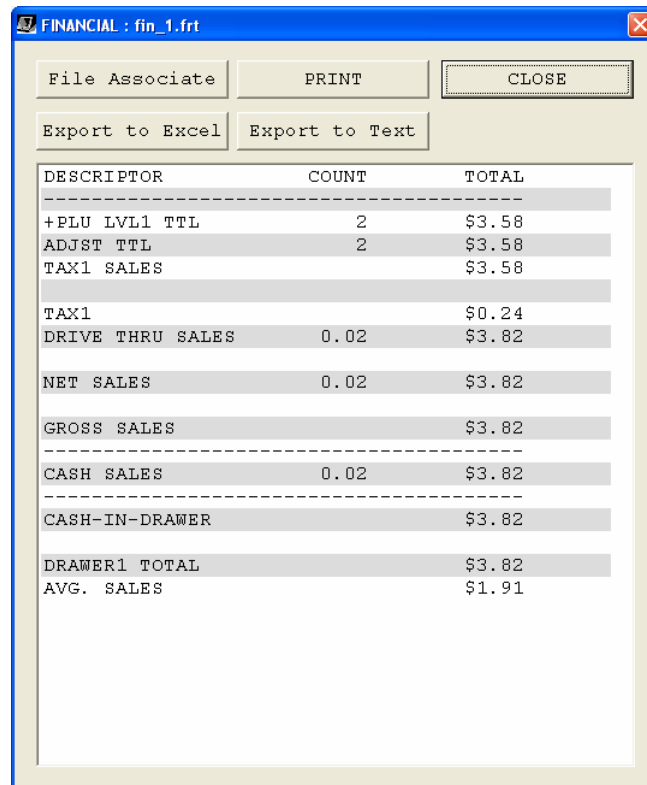2. Specify each file by clicking the browse button:

    Report File: Fin_1.frt or Fin1.rpt (where the numeral indicates the report level, Z1, Z2, Z3, etc.)
    Descriptor File: The financial report descriptor file: FINRPT_MSG.pgm
    File Table: The register information file. Its name is FILETAB.dat

3. Click **OK**. The financial report displays:

```
FINANCIAL : fin_1.frt                              [X]

   File Associate        PRINT            CLOSE

   Export to Excel    Export to Text

  DESCRIPTOR              COUNT          TOTAL
  ----------------------------------------
  +PLU LVL1 TTL              2          $3.58
  ADJST TTL                  2          $3.58
  TAX1 SALES                            $3.58

  TAX1                                  $0.24
  DRIVE THRU SALES        0.02          $3.82

  NET SALES               0.02          $3.82

  GROSS SALES                           $3.82
  ----------------------------------------
  CASH SALES              0.02          $3.82
  ----------------------------------------
  CASH-IN-DRAWER                        $3.82

  DRAWER1 TOTAL                         $3.82
  AVG. SALES                            $1.91
```

4. Choose:

   Print: to print the file
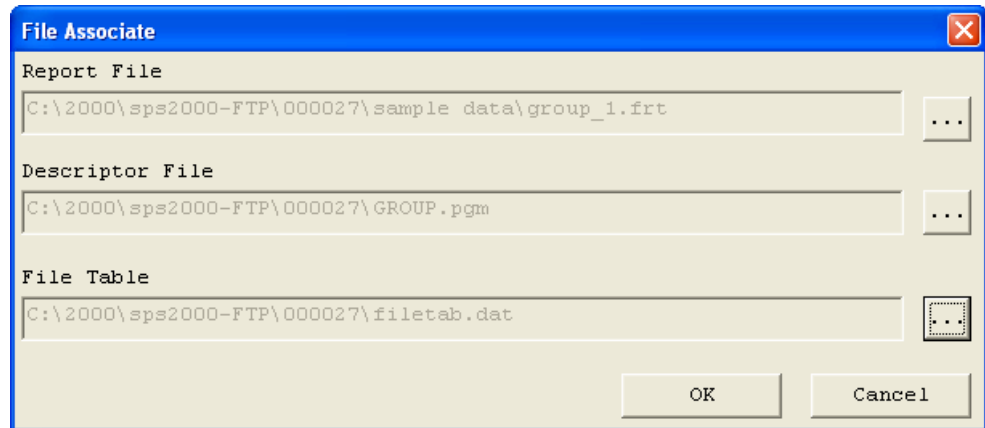   **Export to Excel**: to save the report in text (.txt) format
   Export to Text: to save the report in Excel (.xls) format
   File Associate: to select a new financial report
   Close: to exit

Group Report Viewer

1. Execute GrpRpt.EXE.

2. Specify each file by clicking the browse button:

   Report File: Group_1.frt or Grp1.rpt (where the numeral indicates the report level, Z1, Z2, Z3, etc.)
   Descriptor File: The group program file: GROUP.pgm
   File Table: The register information file. Its name is FILETAB.dat

3. Click **OK**. The financial report displays:

4. Choose:

   Print: to print the file
   Export to Excel: to save the report in text (.txt) format
   Export to Text: to save the report in Excel (.xls) format
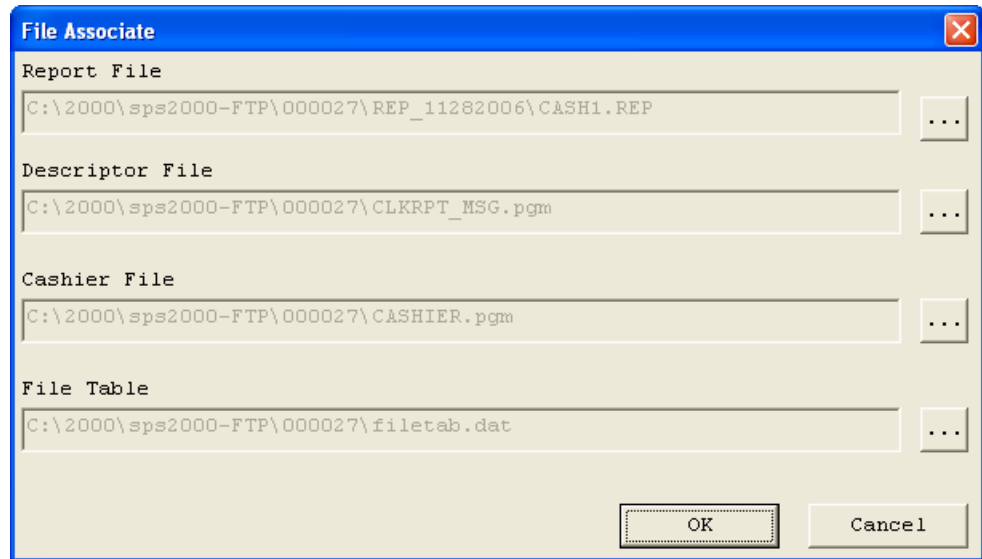   **File Associate**: to select a new financial report
   Close: to exit

Employee Report Viewer

1. Execute EmpRpt.EXE.

2. Specify each file by clicking the browse button:

    Report File: CASH1.frt or CASH1.rpt (where the numeral indicates the report level, Z1, Z2, Z3, etc.)
    Descriptor File: The clerk report report descriptor file: CLKRPT_MSG.pgm
    Cashier File: The Cashier file program: CASHIER.pgm
    File Table: The register information file. Its name is FILETAB.dat

3. Click **OK**. The financial report displays:

4. Choose:

    Print: to print the file
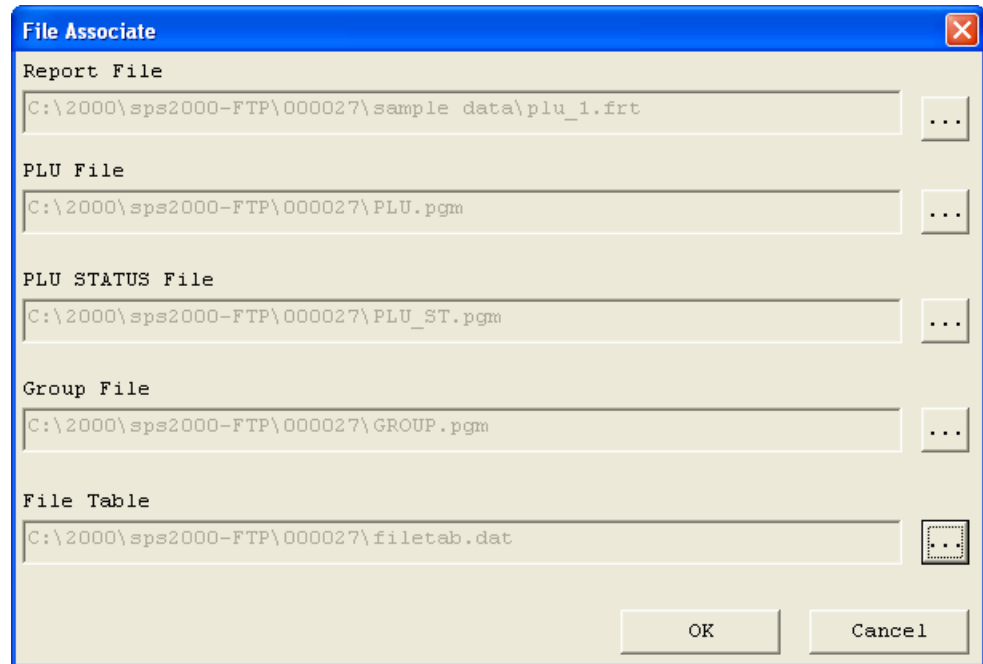   **Export to Excel**: to save the report in text (.txt) format
    Export to Text: to save the report in Excel (.xls) format
    File Associate: to select a new financial report
    Close: to exit

PLU Report Viewer

1. Execute EmpRpt.EXE.

2. Specify each file by clicking the browse button:

    Report File: Plu_1.frt or Plu1.rpt (where the numeral indicates the report level, Z1, Z2, Z3, etc.)
    PLU File: The PLU program file: PLU.pgm
    PLU STATUS File: The PLU Status program file: PLU_ST.pgm
    Group File: The Group program: GROUP.pgm
    File Table: The register information file. Its name is FILETAB.dat

3. Click **OK**. The financial report displays:

4. Choose:

    Print: to print the file
    Export to Excel: to save the report in text (.txt) format
    Export to Text: to save the report in Excel (.xls) format
    File Associate: to select a new financial report
    Close: to exit