



WRQ Inc.
Reflection for IBM
327x Terminal and Printer
Emulation Software

User Handbook

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10/23/03
Revision (1)

Prepared by: Marine Corps Network Operations and Security Command (MCNOSC)
Network Operations Company (NetOps Co)
Mainframe Support Section

WRQ Inc. Reflection for IBM Version 10.0 User Guide

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10/23/03
Revision (1)

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STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY

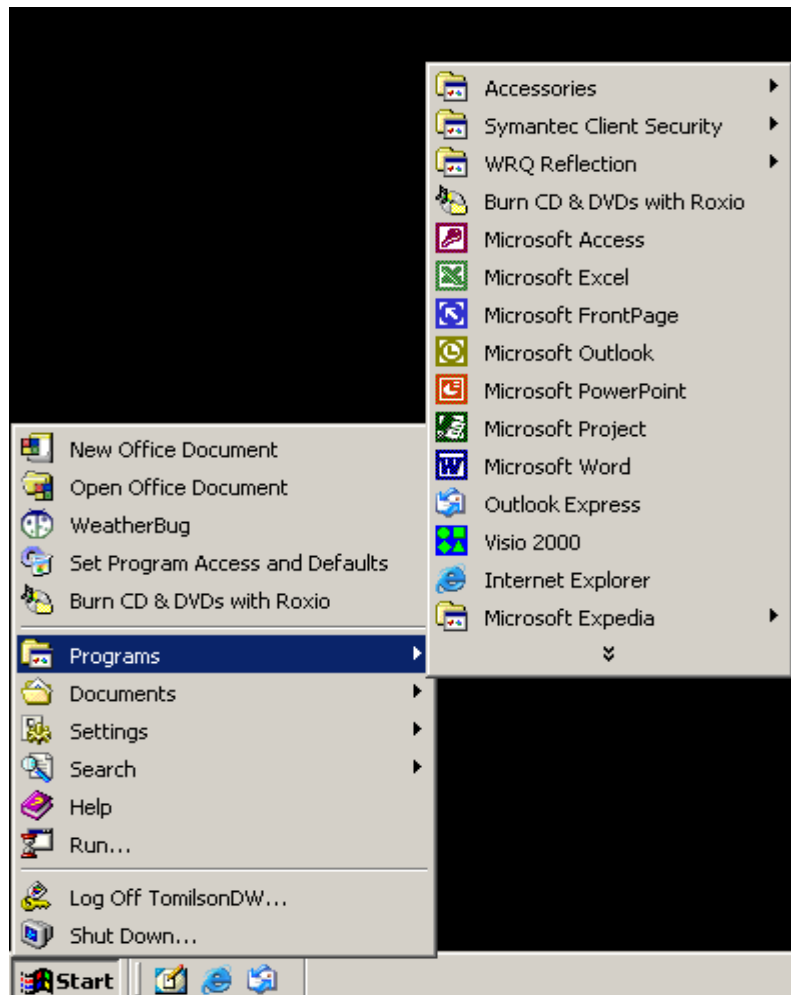
The WRQ Inc. REFLECTION for IBM is a desktop / laptop computer thick client software product that allows a user to configure and acquire a IBM mainframe 3270 terminal and/or 3278 printer sessions across a Secure Socket Layer (SSL) 128 bit encrypted Telnet network connection from their personal computer directly to the specified IBM mainframe or As/400 host.

To start a REFLECTION for IBM mainframe 3270 terminal session:

- Click your PC Windows *'Start'* button.



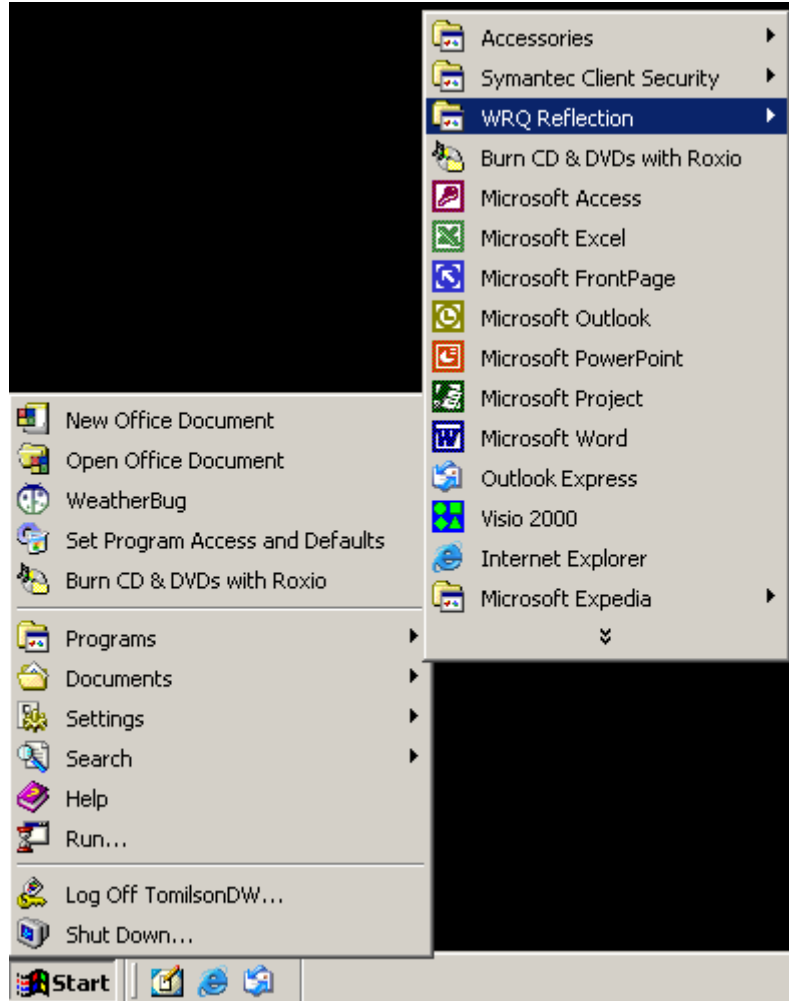
- With your mouse pointer point and click on *'Programs'*.



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STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY

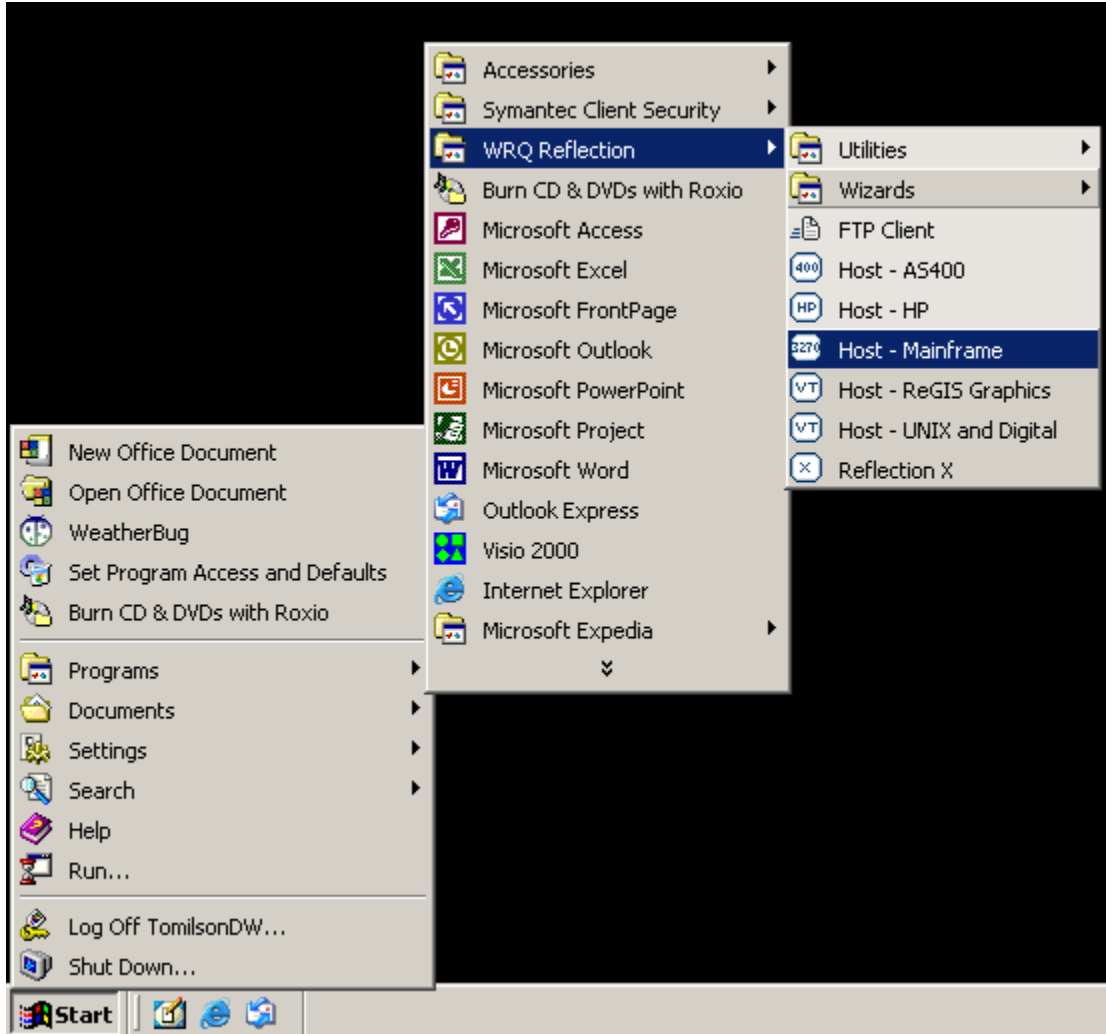
- With your mouse pointer point and click on the folder that contains your WRQ REFLECTION applications.



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STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY

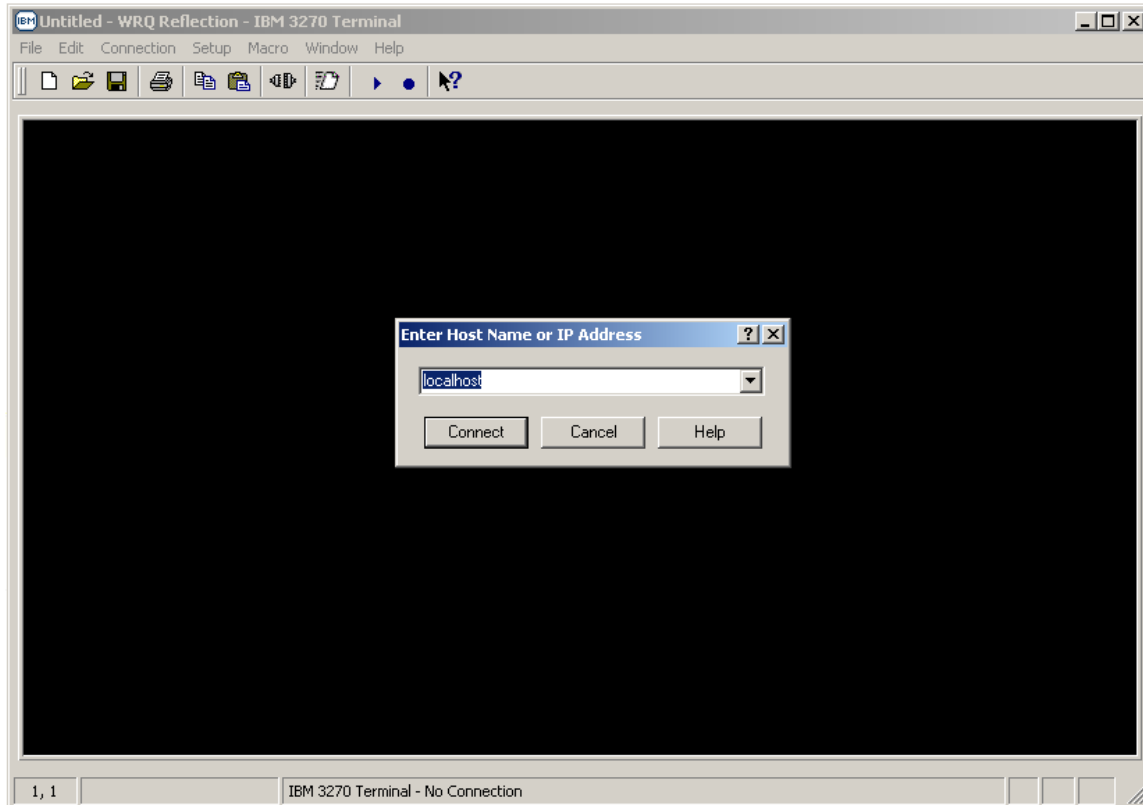
- With your mouse pointer, from the WRQ REFLECTION product menu select and click on '**3270 Host - Mainframe**'.






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STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY

- Once '3270 Host – Mainframe' has been selected, the following screen will appear on your PC Window's desktop:

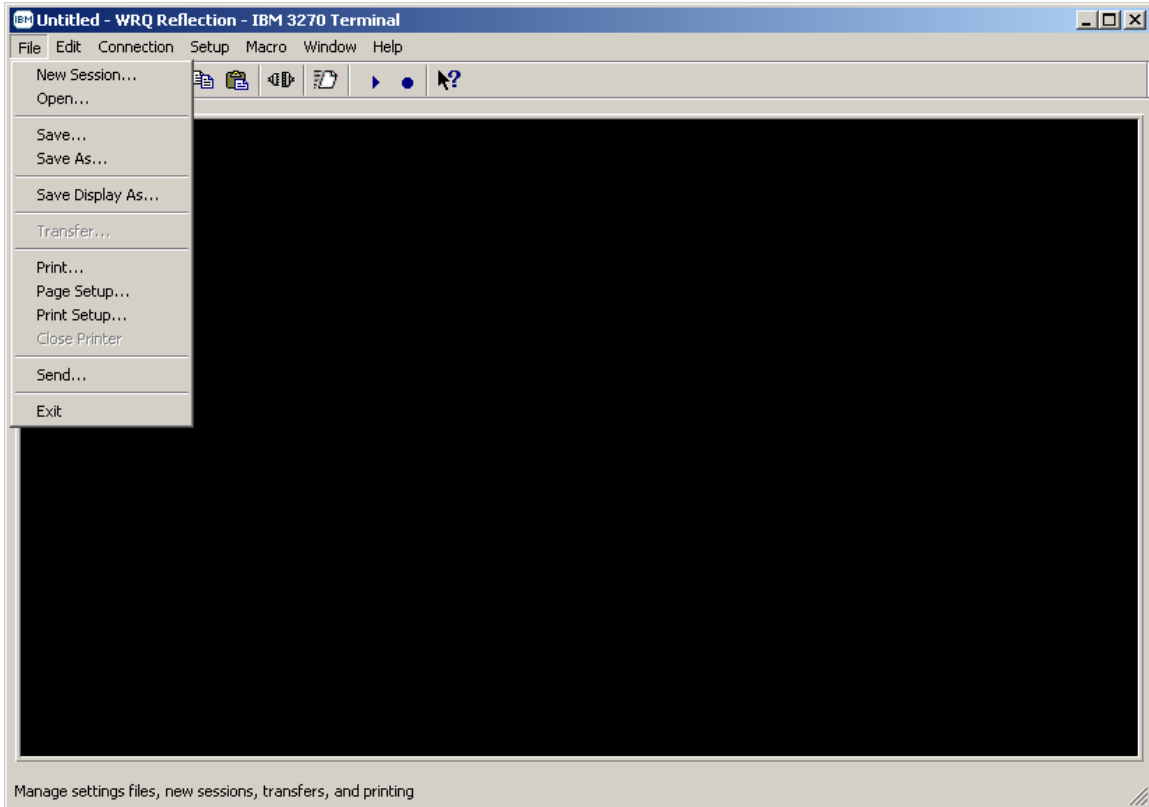


- With your mouse pointer select the  button on the 'Enter Host Name or IP Address' pop-up window.
- Entering either a **Host Name or IP Address** in the drop down block provided and selecting the  button vice the  button will establish an un-secure Telnet 3270 terminal session.
- *Note: Do not establish and/or utilize an un-secure Telnet 3270 terminal or printer session as mainframe login USERID's, Passwords, and all data being transmitted to /from your REFLECTION 3270 client sessions and the mainframe are totally in the clear resulting in information technology and network security vulnerabilities.*

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STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY

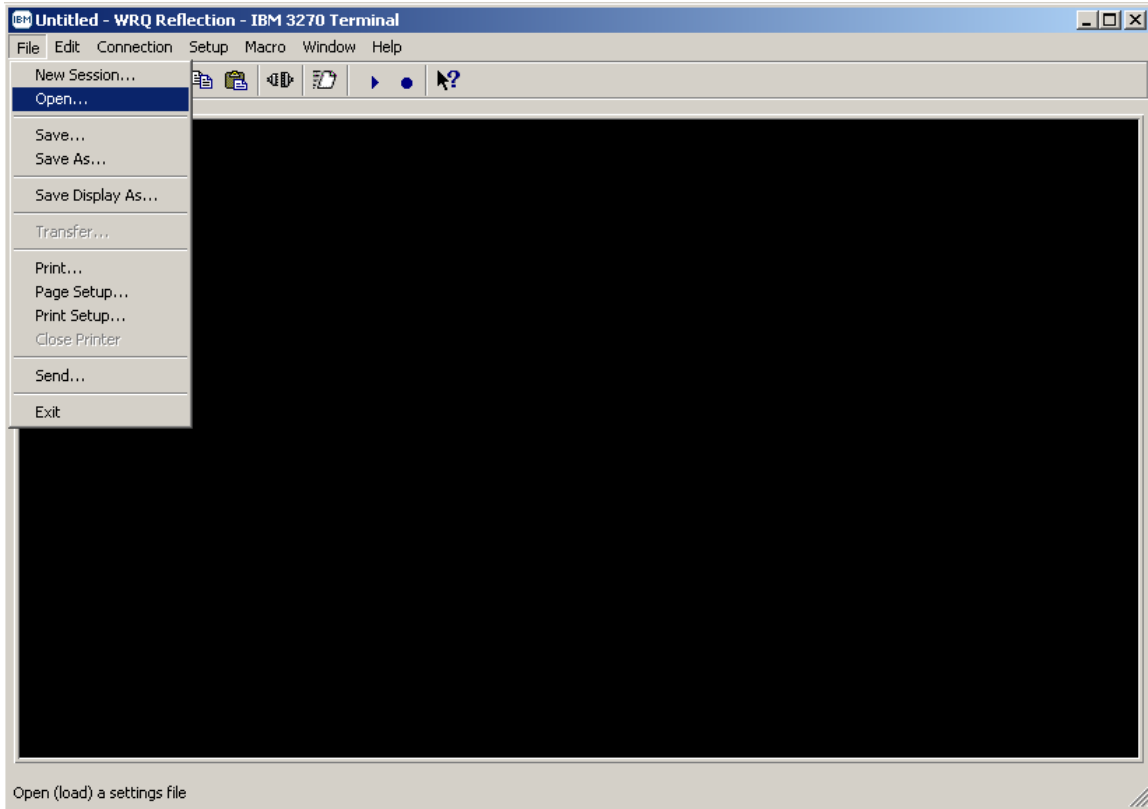
- With your mouse pointer select '*File*' from the top menu on the *3270 Untitled – WQR Reflection – IBM 3270 Terminal* display screen.



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STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY

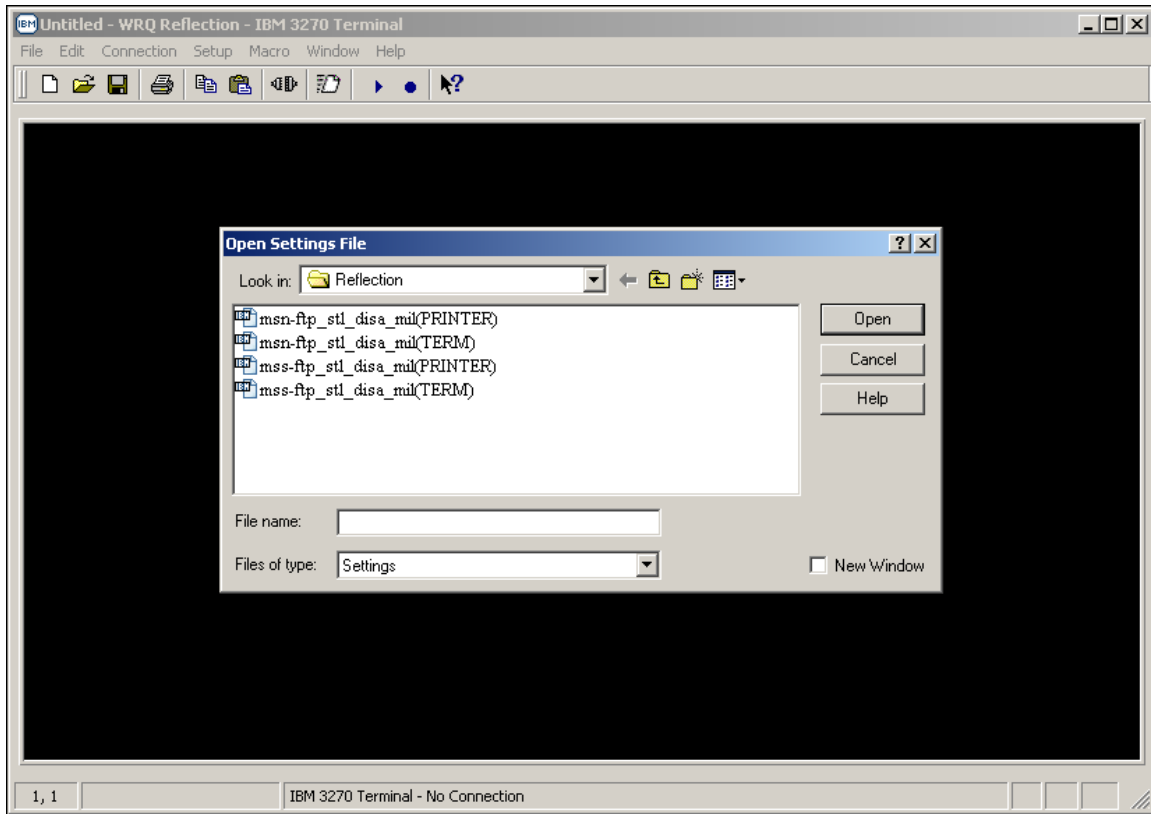
- From the 'File' drop down menu of the *3270 Untitled – WQR Reflection – IBM 3270 Terminal* display screen select '*Open...*'



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STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY

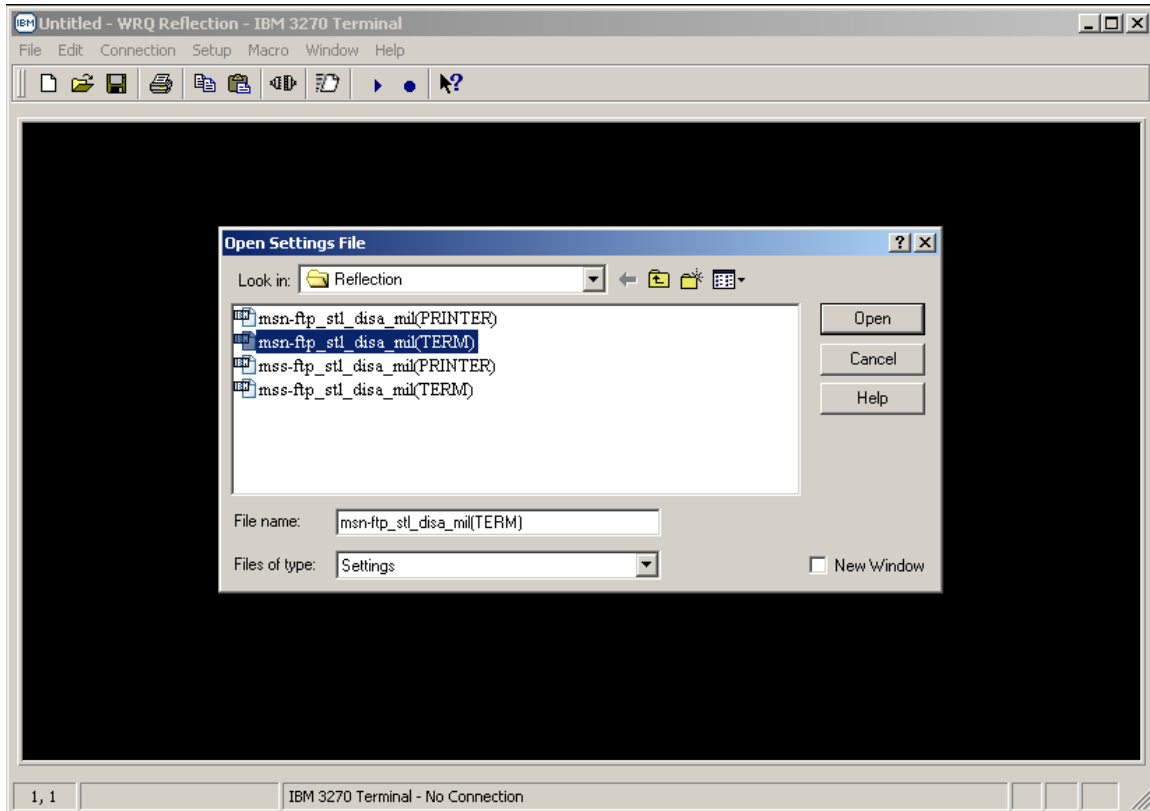
- The following 'Open Settings File' Window's pop-up screen will appear:

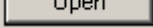


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STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY

- Select the '*msn-ftp_stl_disa_mi(TERM)*' default 128 bit Secure Socket Layer (SSL) encrypted 3270 terminal configuration settings file.



- With your mouse pointer point and click on the  button once the '*msn-ftp_stl_disa_mil(TERM)*' default 128 bit Secure Socket Layer (SSL) encrypted 3270 terminal configuration settings file is selected and appears in the '*File name:*' entry block of this pop-up screen.
- At this time, a 128 bit Secure Socket Layer (SSL) encrypted 3270 terminal session display screen with the Defense Information Systems Agency's mainframe menu should come up.
- A sample of display screen for the DISA 3270 terminal session with mainframe menu follows:

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STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY

The screenshot shows a terminal window titled "msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal". The window contains a green-on-black display with the following text:

USE OF THIS OR ANY OTHER DEPARTMENT OF DEFENSE INTEREST COMPUTER SYSTEM (DODICS) CONSTITUTES YOUR CONSENT TO MONITORING BY DOD AUTHORIZED PERSONNEL FOR COMPUTER SECURITY AND SYSTEM MANAGEMENT PURPOSES. THIS DODICS AND ALL RELATED EQUIPMENT ARE TO BE USED FOR THE COMMUNICATIONS, TRANSMISSION, PROCESSING, MANIPULATION, AND STORAGE OF OFFICIAL U.S. GOVERNMENT OR OTHER AUTHORIZED INFORMATION ONLY. UNAUTHORIZED USE OF THIS COMPUTER MAY SUBJECT YOU TO CRIMINAL PROSECUTION AND PENALTIES.

SB - QUANTICO	SD - DITCO	SE - OKINAWA	SF - KANSAS CITY
SG - LEJEUNE	SH - PENDLETON	SI - ALBANY	SK - ASIMS-S
SL - ASIMS-E	SM - ASIMS-W	SO - ARDEC	SP - ARL
SQ - ASIMS-C	SR - OSC-S/DFAS	ST - AMCOM/SBCCOM	SU - OSC-R
SV - RIA	SW - FAR EAST	SX - TEAD	SY - TACOM
QA - SSO DAYTON	QC - ASIMS-T	QD - ASIMS-H	QE - ANAD
QF - CCAD	QG - RRAD	QH - CECOM	QI - LEAD
QJ - TYAD	QK - LOGSA	QL - AMCOM-M	QR - NAMI
X - SNI MENU			

HELPDESK DSN: 490-0000 COMM: 314-260-0000
TOLL FREE: 800-645-5032

ENTER SELECTION =>

TI 0 24,42

24, 42 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended

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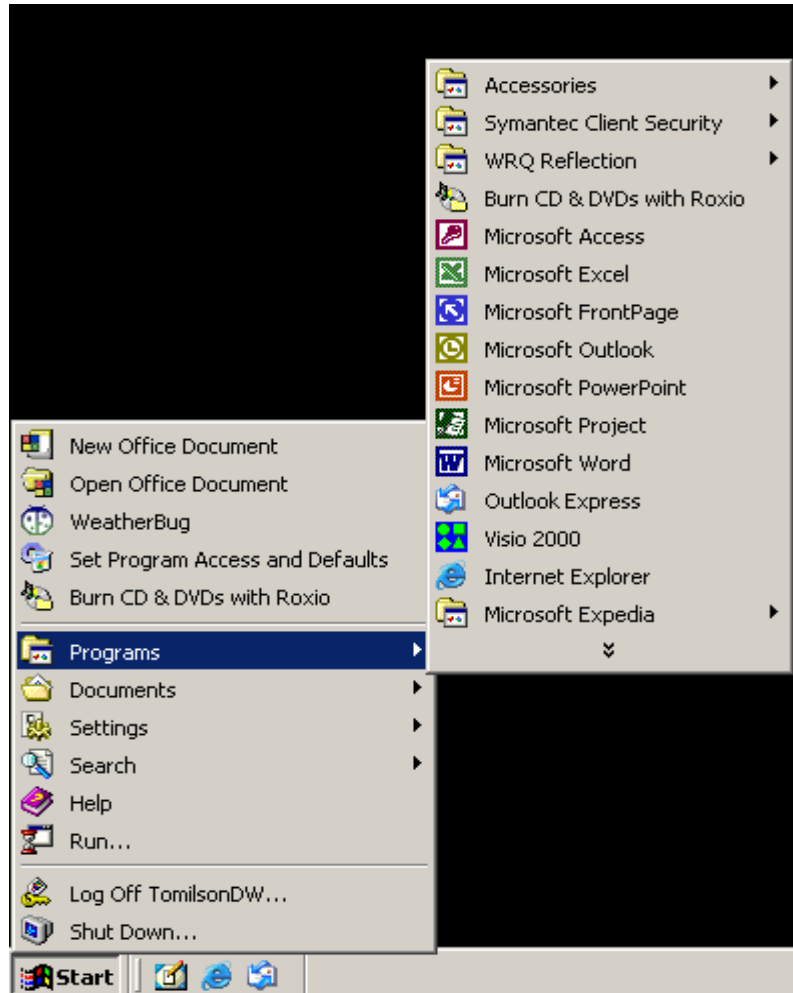
STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY

To start a REFLECTION for IBM mainframe 3270 printer session:

- Click the PC Windows 'Start' button.



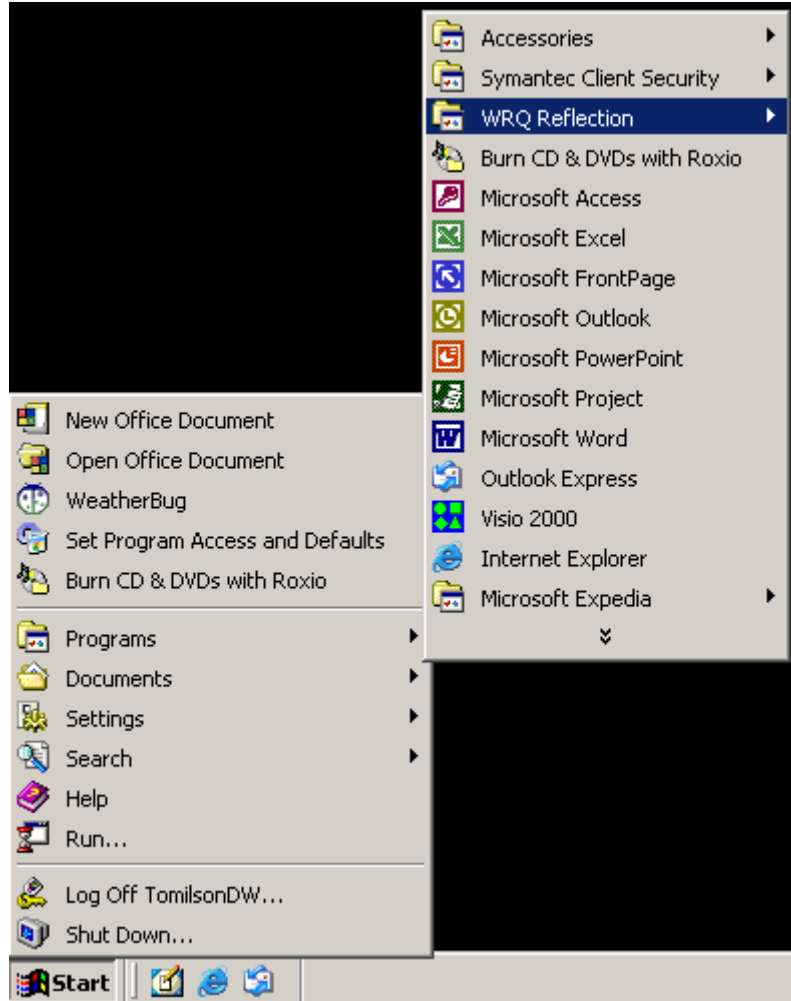
- With your mouse pointer point and click on 'Programs'.



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STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY

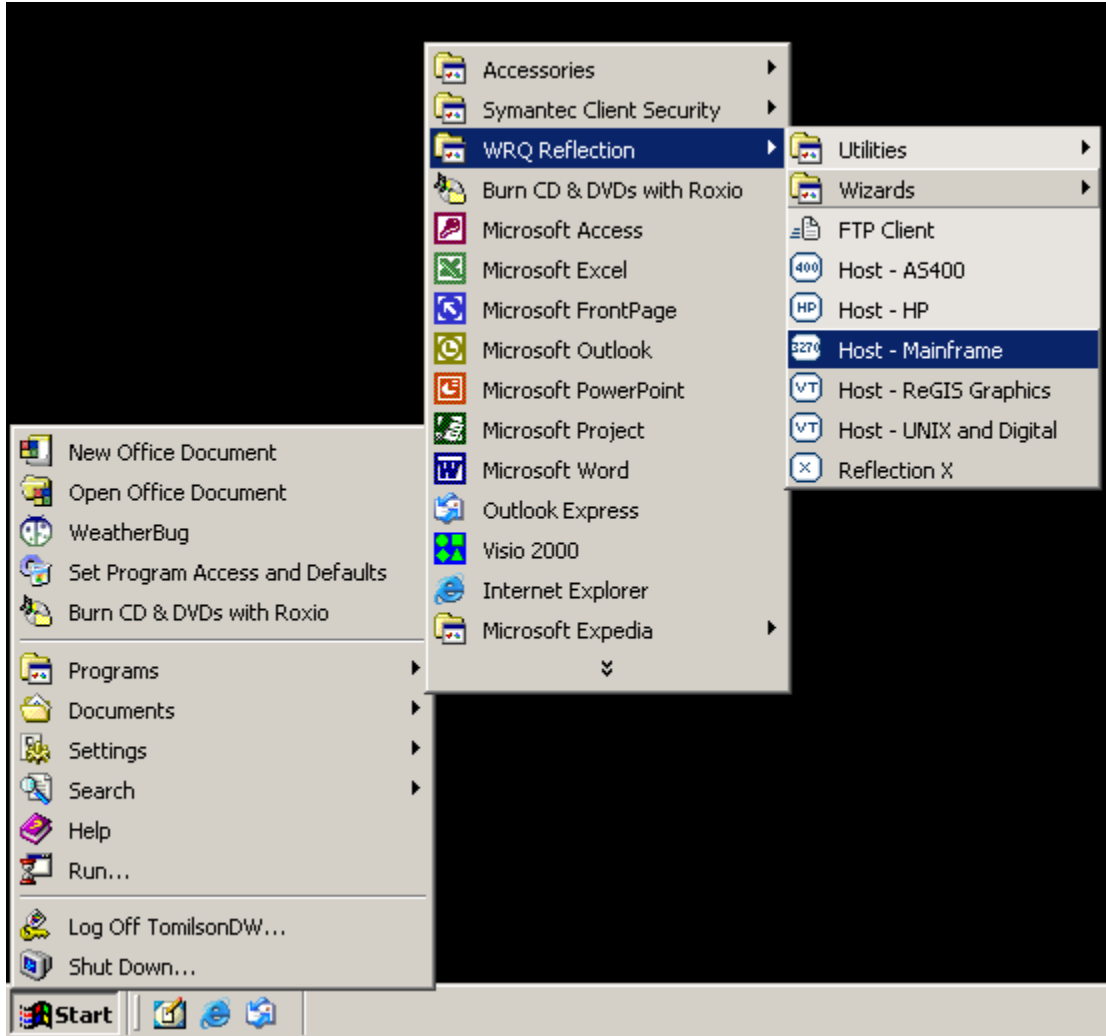
- With your mouse pointer point and click on the folder that contains your WRQ REFLECTION applications.



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STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY

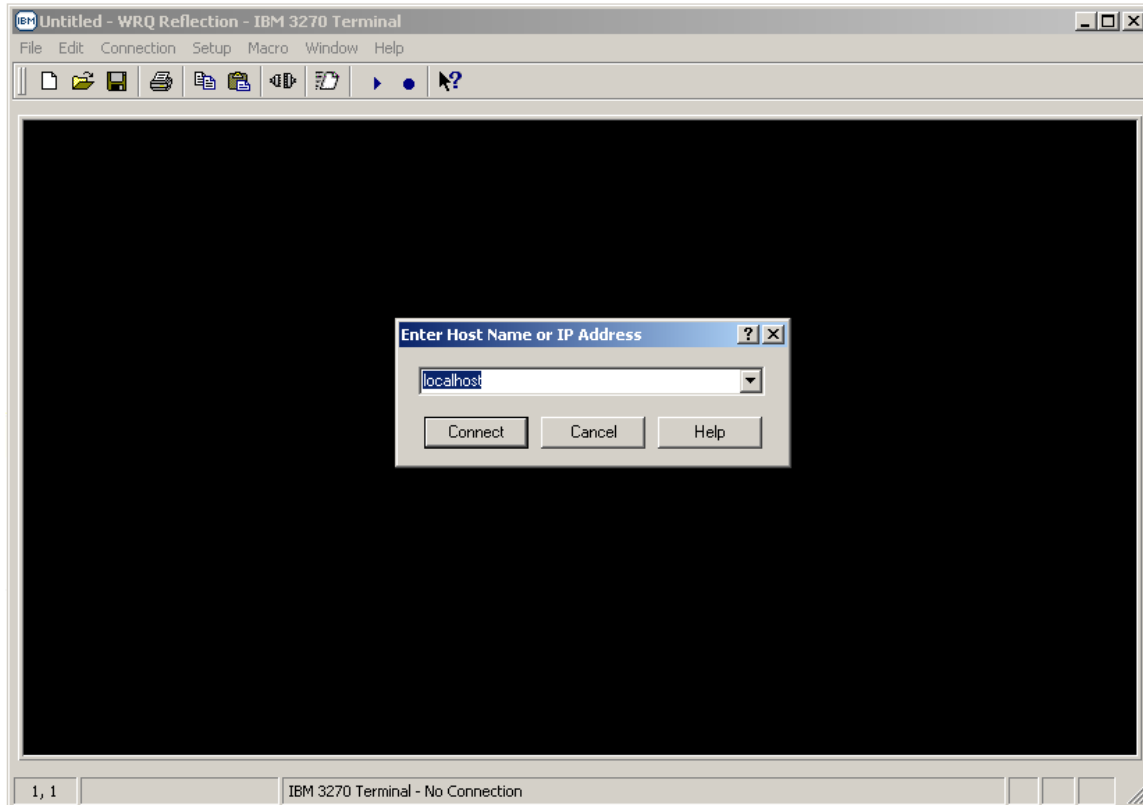
- With your mouse pointer, from the WRQ REFLECTION product menu select and click on '**3270 Host - Mainframe**'.






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STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY

- Once '3270 Host – Mainframe' has been selected, the following screen will appear on your PC Window's desktop:

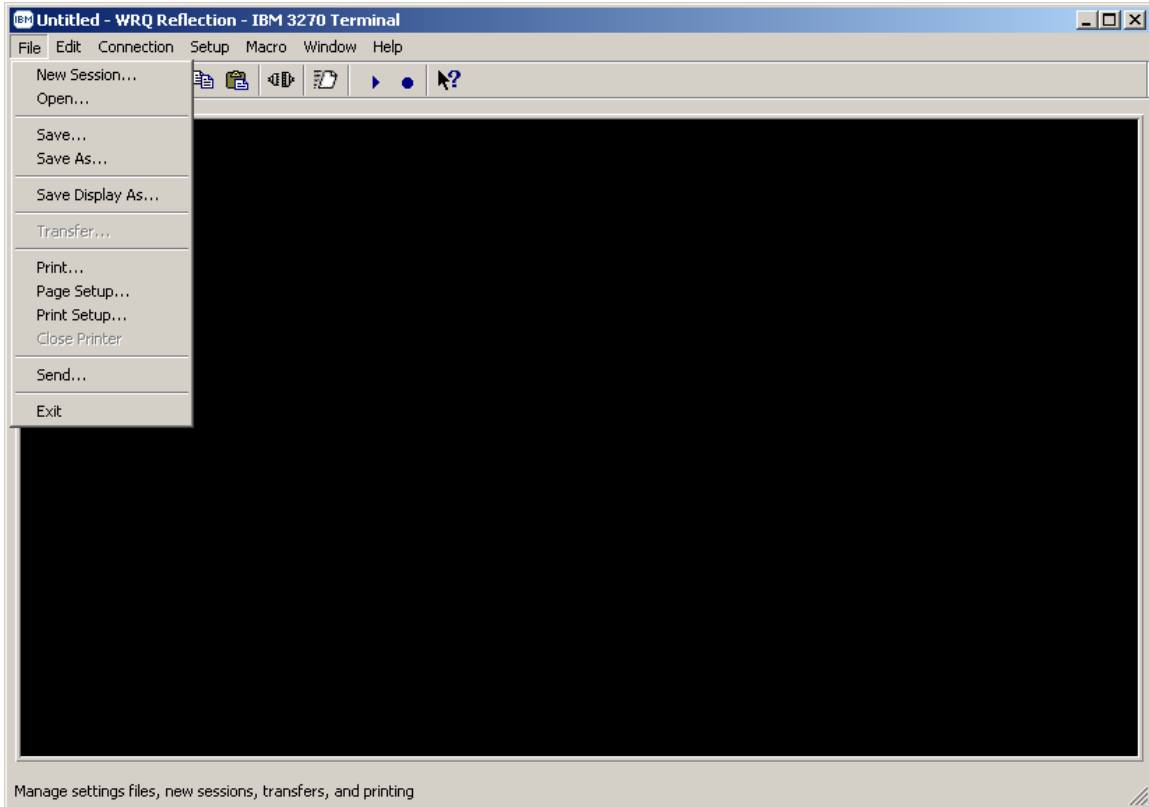


- With your mouse pointer select the  button on the 'Enter Host Name or IP Address' pop-up window.
- Entering either a **Host Name or IP Address** in the drop down block provided and selecting the  button vice the  button will establish an un-secure Telnet 3270 terminal session.
- *Note: Do not establish and/or utilize an un-secure Telnet 3270 terminal or printer session as mainframe login USERID's, Passwords, and all data being transmitted to /from your REFLECTION 3270 client sessions and the mainframe are totally in the clear resulting in information technology and network security vulnerabilities.*

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STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY

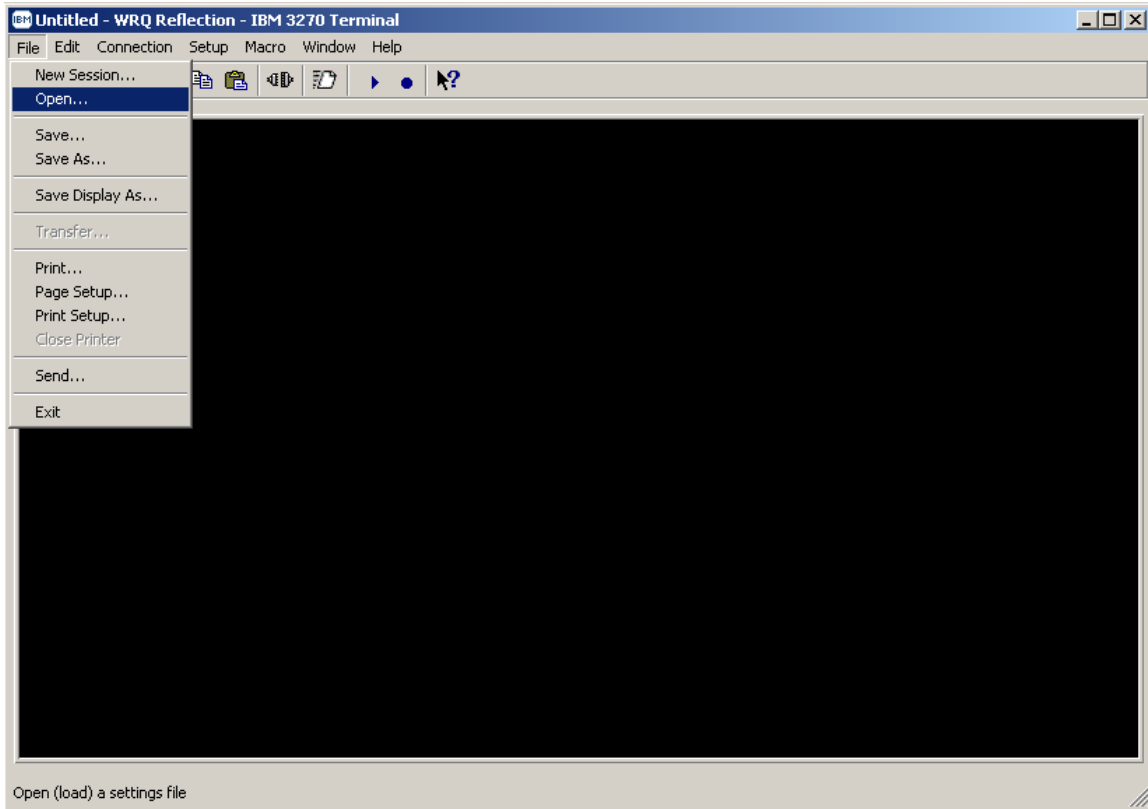
- With your mouse pointer select '*File*' from the top menu on the *3270 Untitled – WQR Reflection – IBM 3270 Terminal* display screen.



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STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY

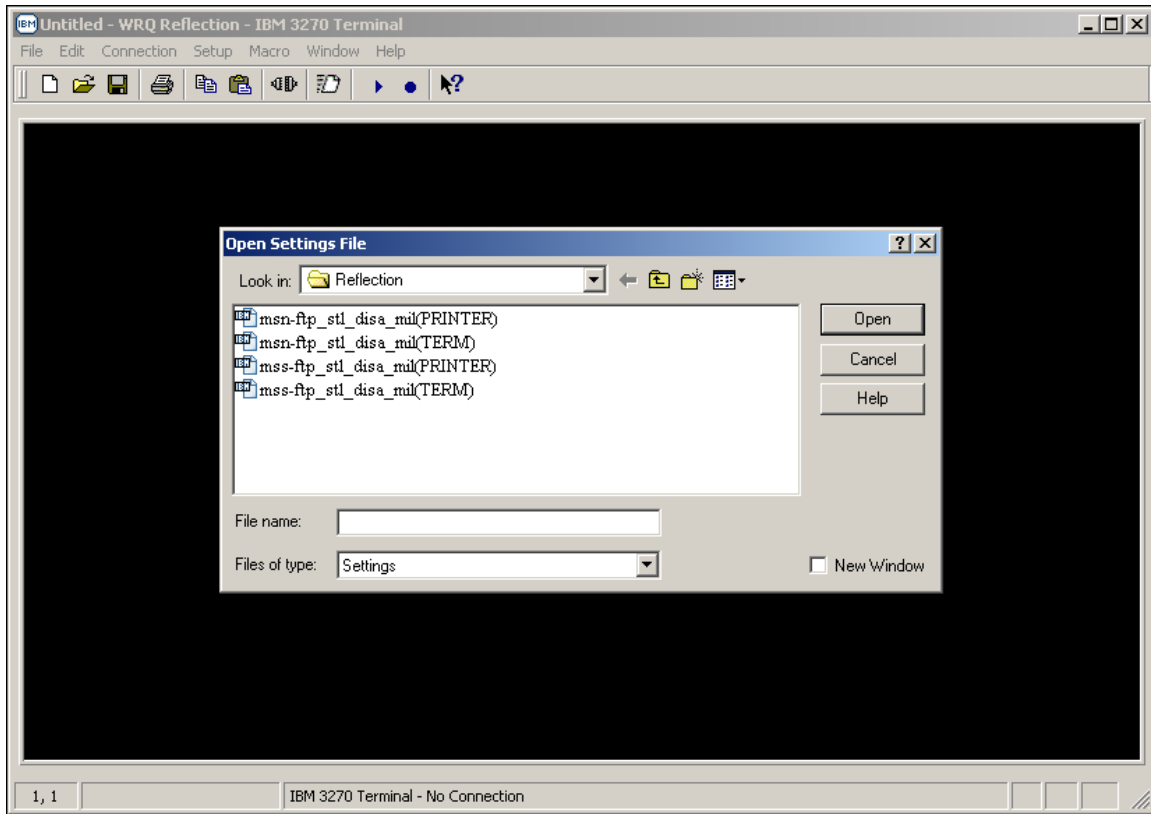
- From the 'File' drop down menu of the *3270 Untitled – WQR Reflection – IBM 3270 Terminal* display screen select '*Open...*'



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STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY

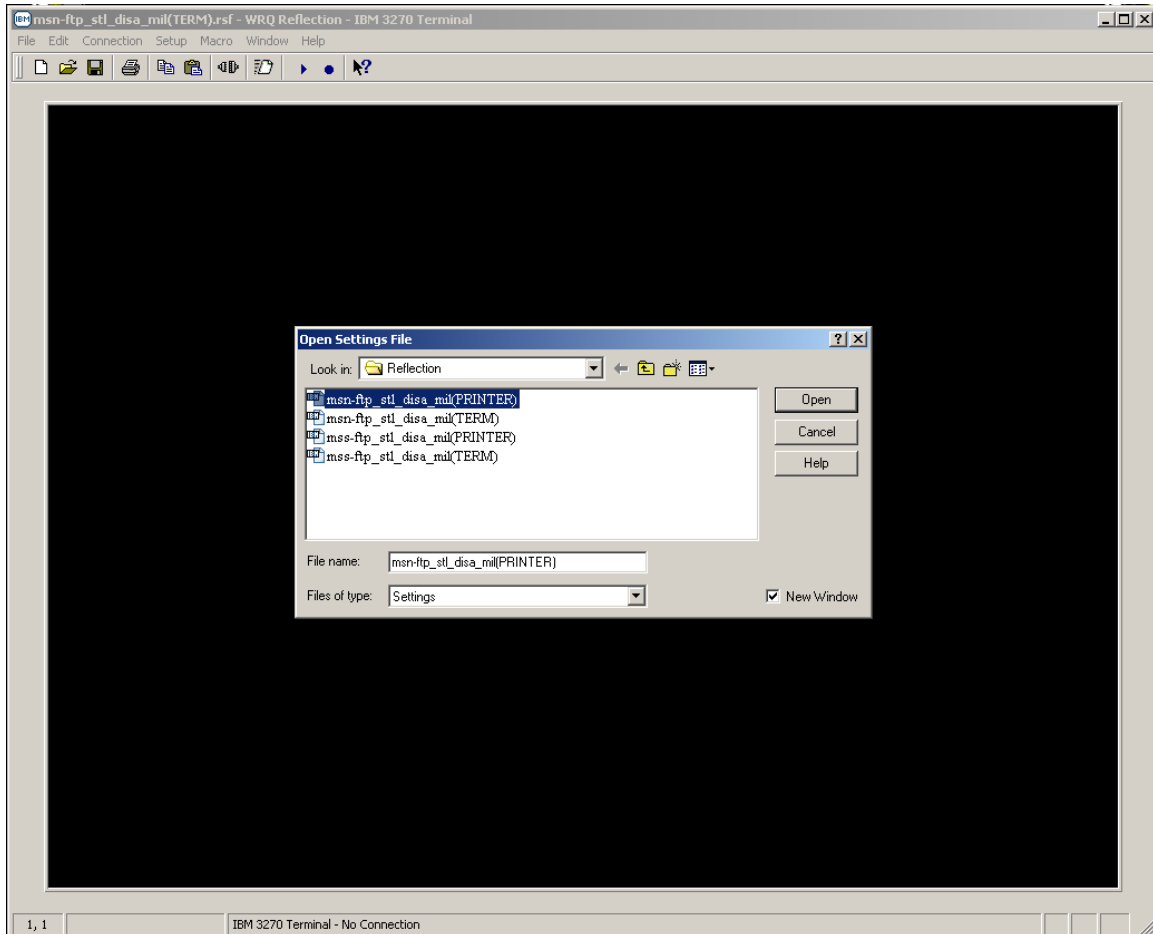
- The following 'Open Settings File' Window's pop-up screen will appear:




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STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY

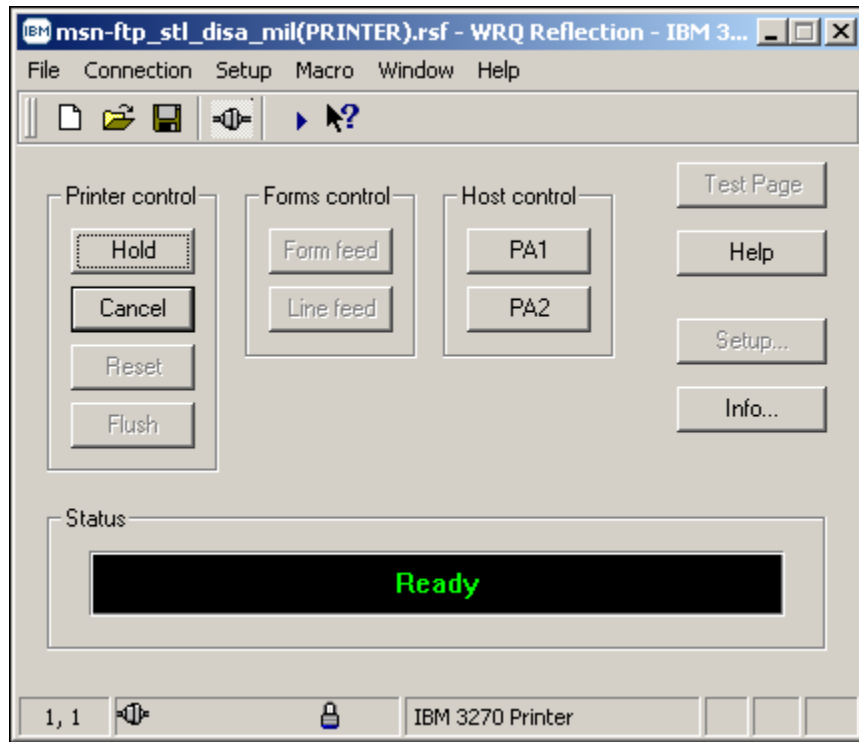
- Select the '*msn-ftp_stl_disa_mil(PRINTER)*' default 128 bit Secure Socket Layer (SSL) encrypted 3270 printer configuration settings file.



- With your mouse pointer point and click on the  button once the '*msn-ftp_stl_disa_mil(PRINTER)*' default 128 bit Secure Socket Layer (SSL) encrypted 3278 printer configuration settings file is selected and appears in the '*File name:*' entry block of this pop-up screen.
- At this time, a 128 bit Secure Socket Layer (SSL) encrypted 3270 printer session display screen should come up.
- A sample of 3270 printer session display screen follows:

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STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL AND / OR 3278 PRINTER SESSION CONNECTIVITY





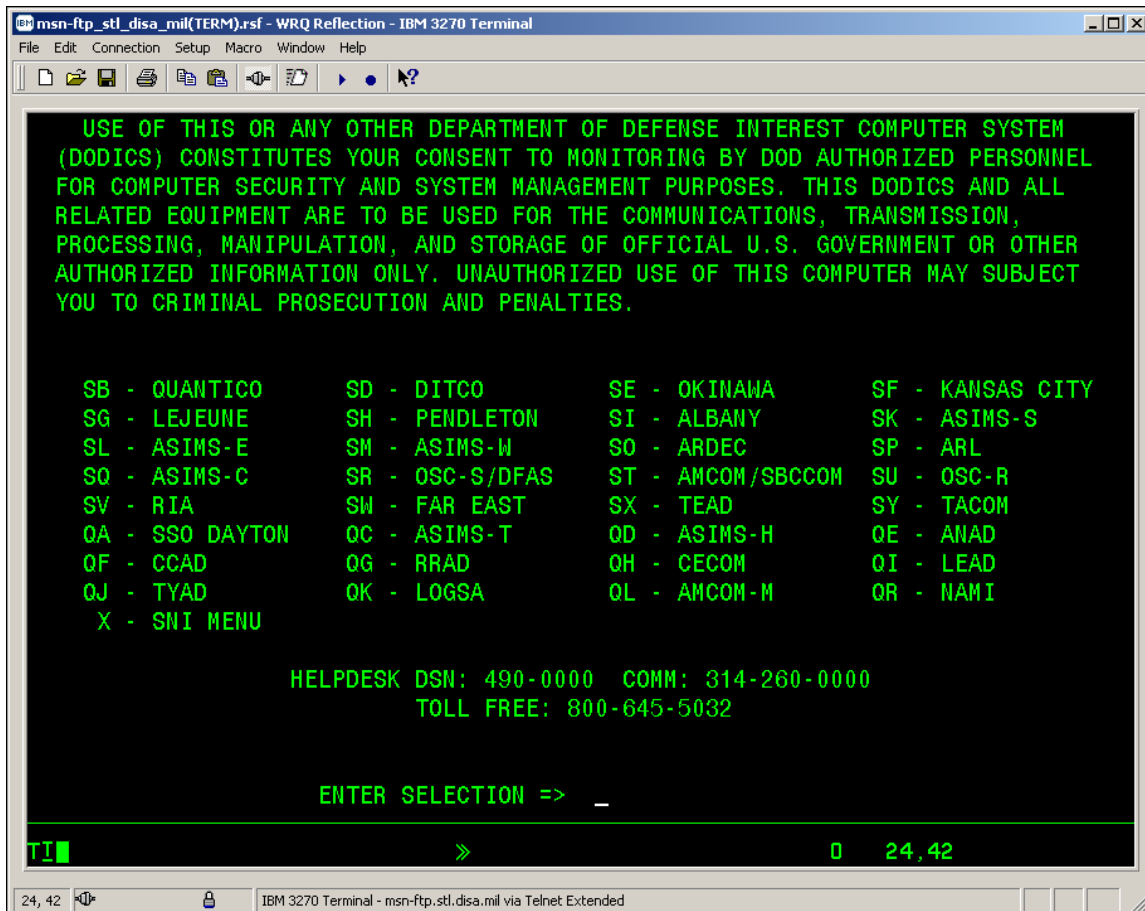
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TERMINAL SESSION BASICS

The MCDN screen is displayed when a terminal session is started. The top line of the terminal session window contains the following information:


- The Session Name: *msn-ftp_stl_disa_mil(TERM).rsf* – *WRQ Reflection – IBM 3270 Terminal*
- A numeric session identifier: *:1* will suffix the *msn-ftp_stl_disa_mil(TERM).rsf* Session Name only if multiple session windows are open.
- A singular session will not be numerically suffixed.

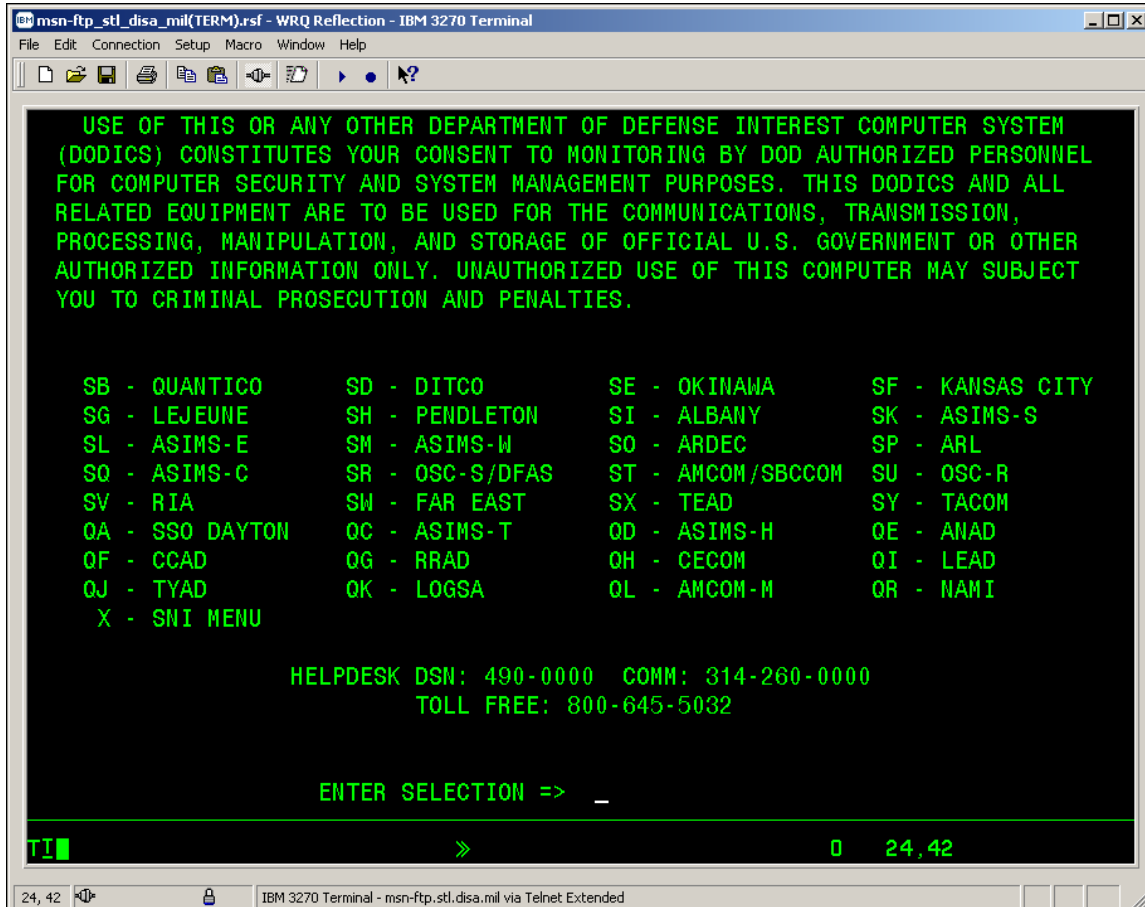
All communication between the user and the mainframe may be encrypted and transmitted over a secure link. The blue/gray pad lock symbol  displayed in the Operator Information Area (OIA) on the bottom of the terminal session window indicates a secure connection. If the blue/gray pad lock  is not visible, your session is not encrypted. This means your user-id, password and all data is being transmitted in the clear.



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MULTIPLE SESSIONS

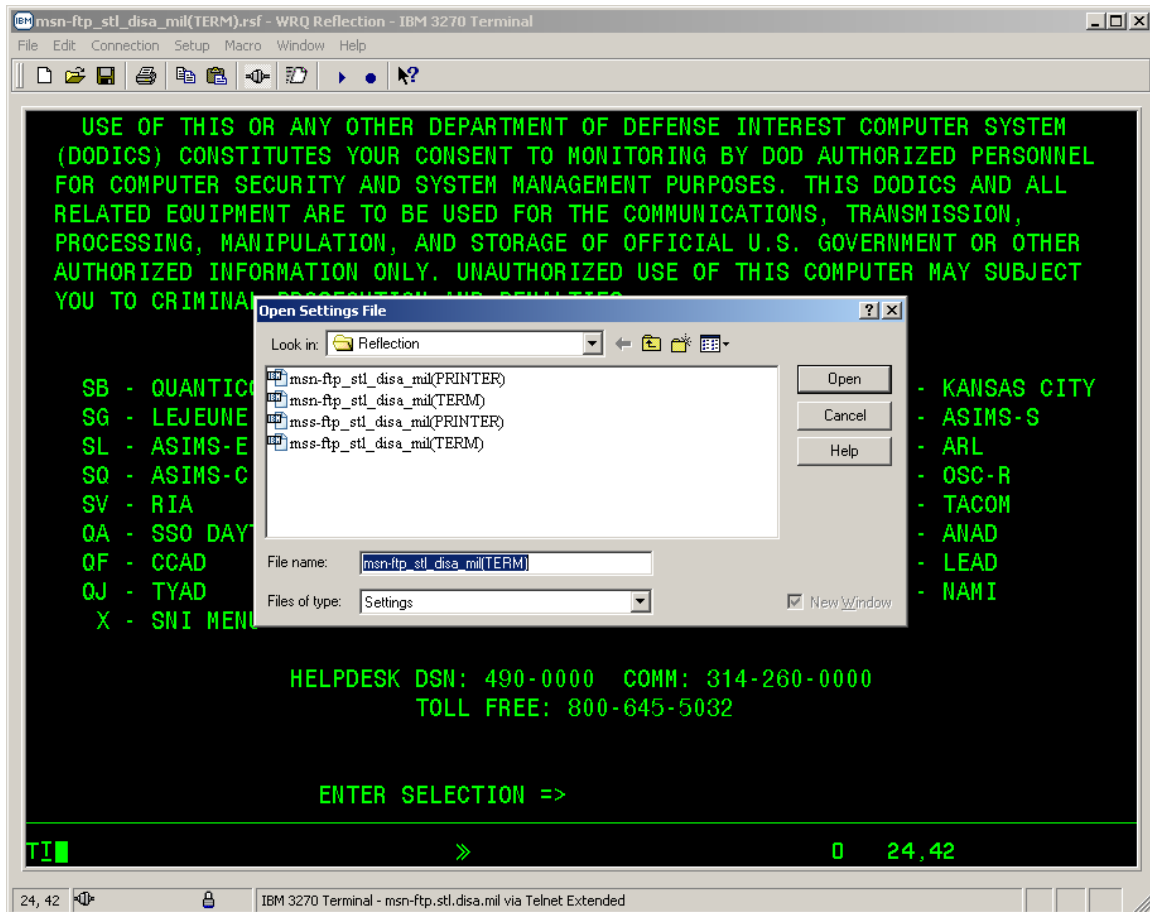
If there is a requirement to have multiple terminal sessions opened simultaneously, you may acquire another session by clicking on the *Open*  button, which is located on the toolbar.

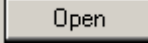


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MULTIPLE SESSIONS

- Once the **Open**  button is clicked on the following pop-up window will appear:



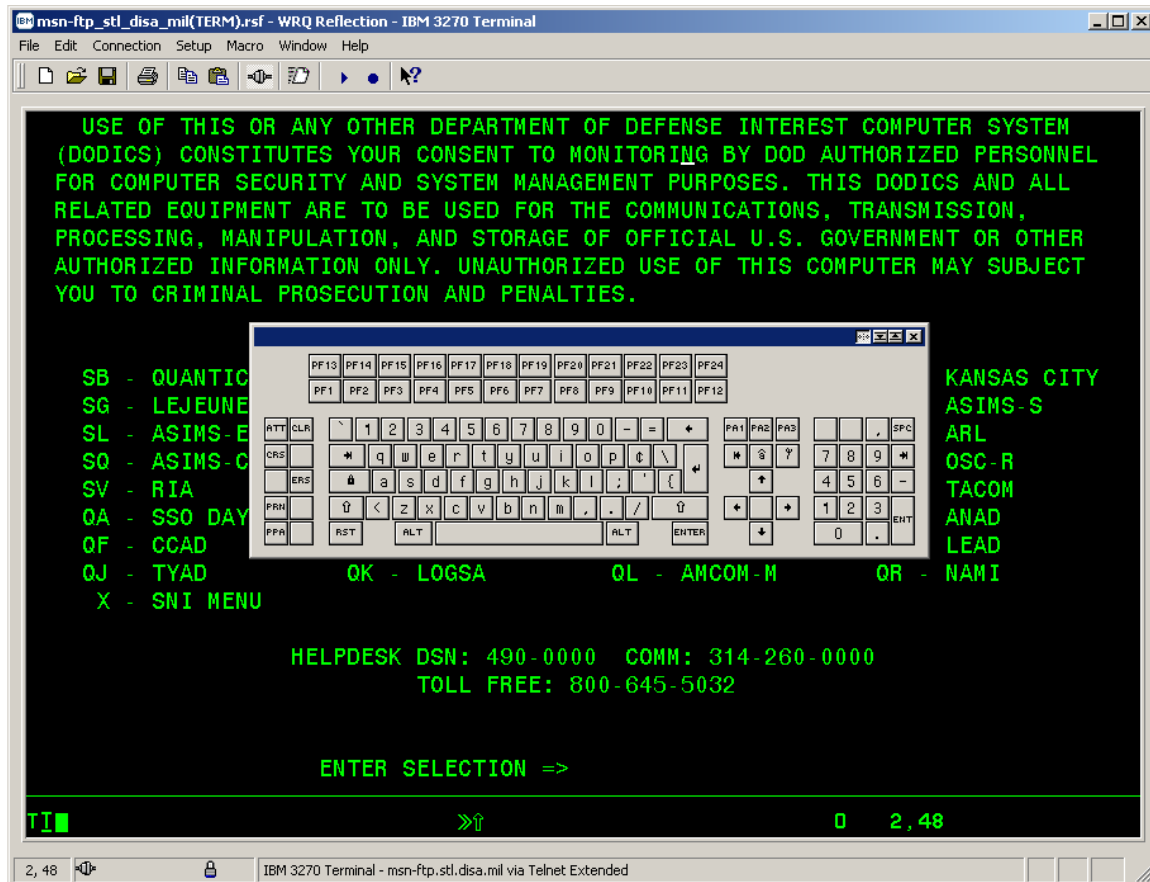
- From this **Open Settings File** pop-up window select *msn-ftp_stl_disa_mil(TERM)* if not already in the **File name block** and mouse click on the  button.
- A second terminal session window will open, the Session Name: *msn-ftp_stl_disa_mil(TERM).rsf:2 - WRQ Reflection - IBM 3270 Terminal* suffixed numerically with :2 indicates the second session. At this time your original session will be suffixed numerically with :1 to designate that this is your first session.

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KEYPAD & HOTSPOT

The keypad functional within WRQ Reflection is similar to that within the IBM Host On-Demand 3270 terminal emulation software product.

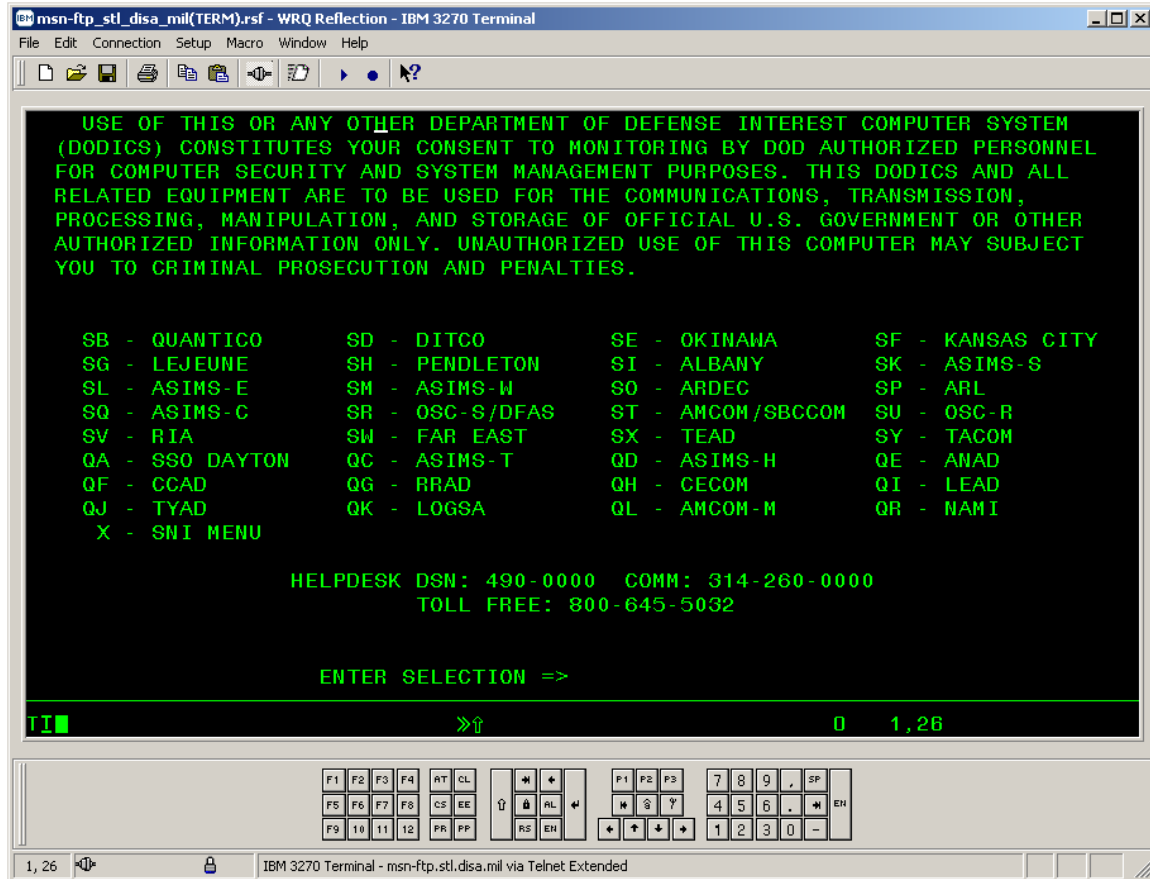
- To activate the *Keypad* press <ALT and K> simultaneously and a graphical user interface (GUI) 3270 terminal keyboard pop-up window will appear as shown below.



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KEYPAD & HOTSPOT

- By mouse clicking on and dragging this **Keypad** pop-up window to the bottom gray portion of the Reflection 3270 terminal session window the **Keypad** will attach itself to the gray portion of the 3270 terminal session window as shown below.

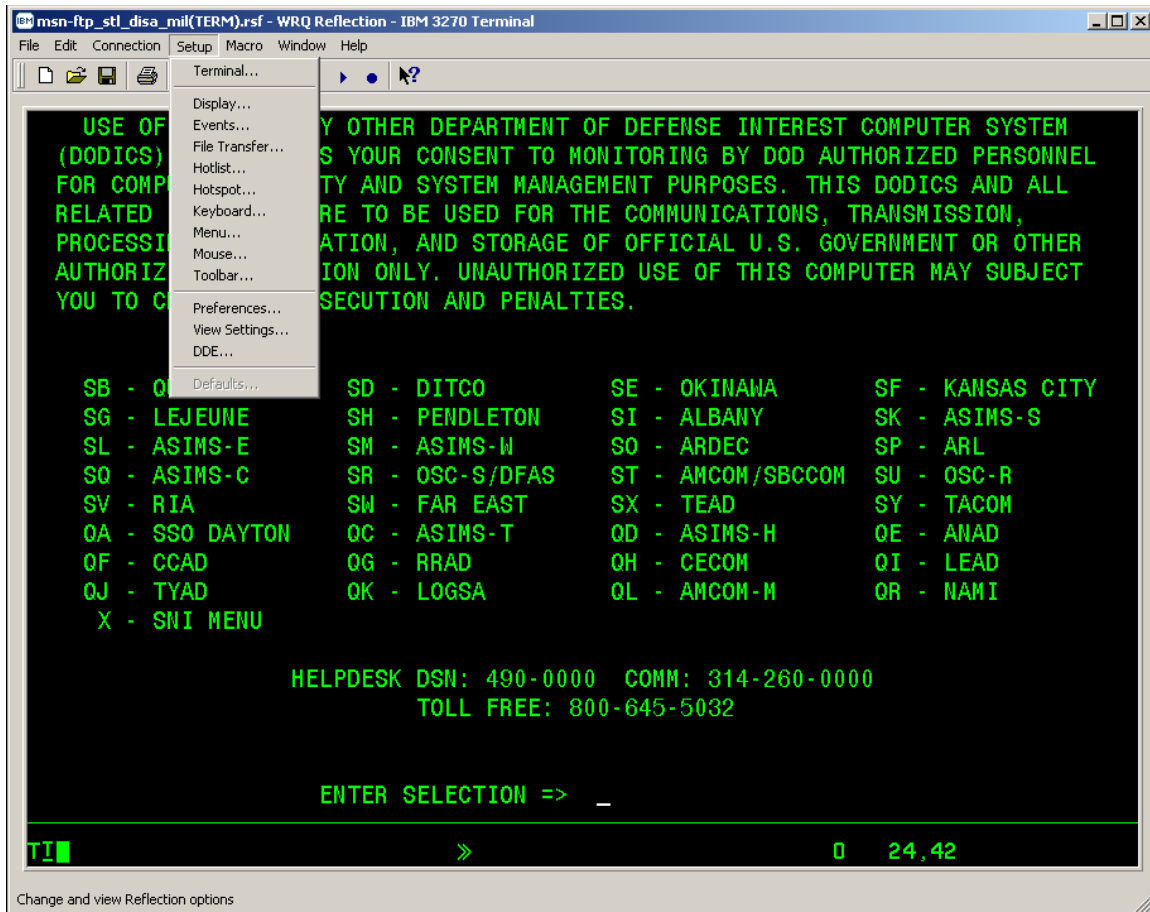


- In addition you can turn on program function keys **PF** key hotspots that display PK key buttons.

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KEYPAD & HOTSPOT

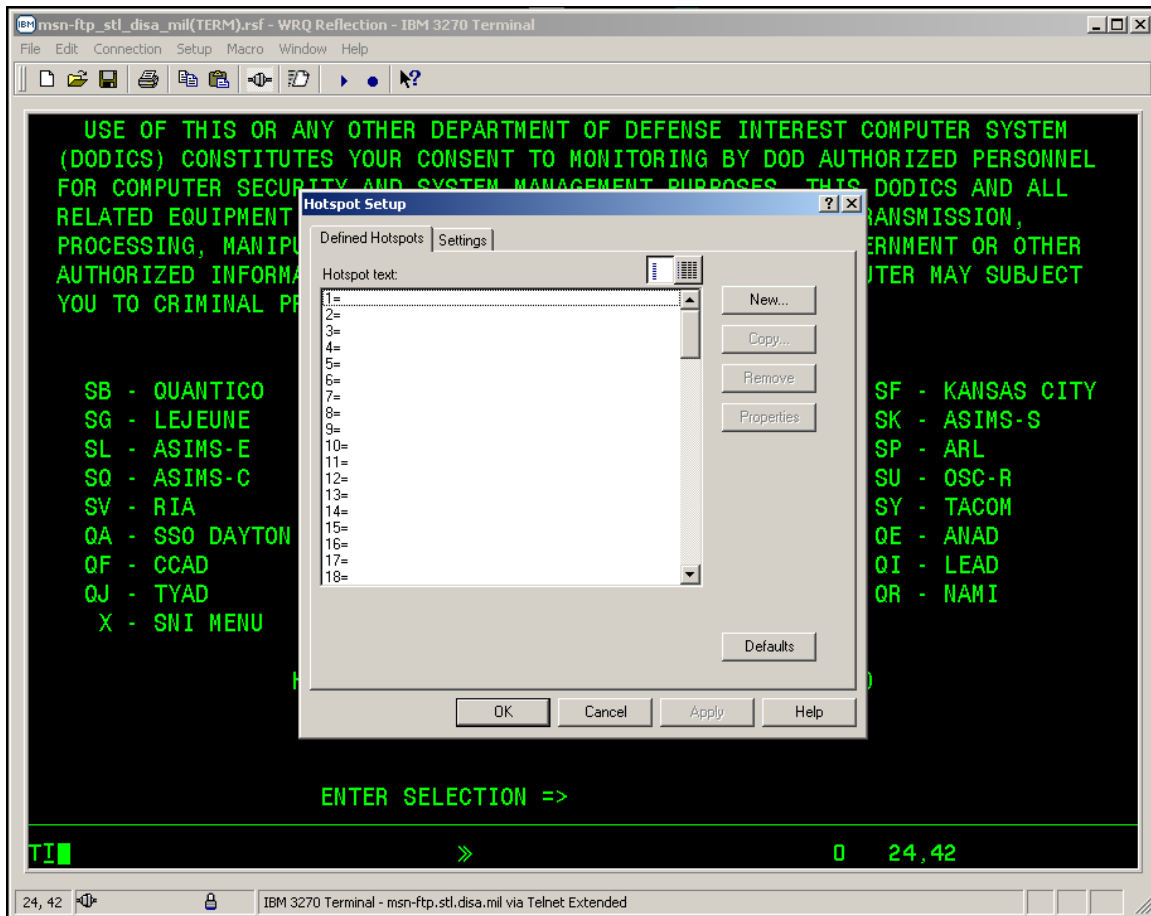
- To enable and display these **PF** key hotspots mouse click on the **Setup** button located on the top tool bar menu. A drop down menu window as displayed below will appear.



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KEYPAD & HOTSPOT

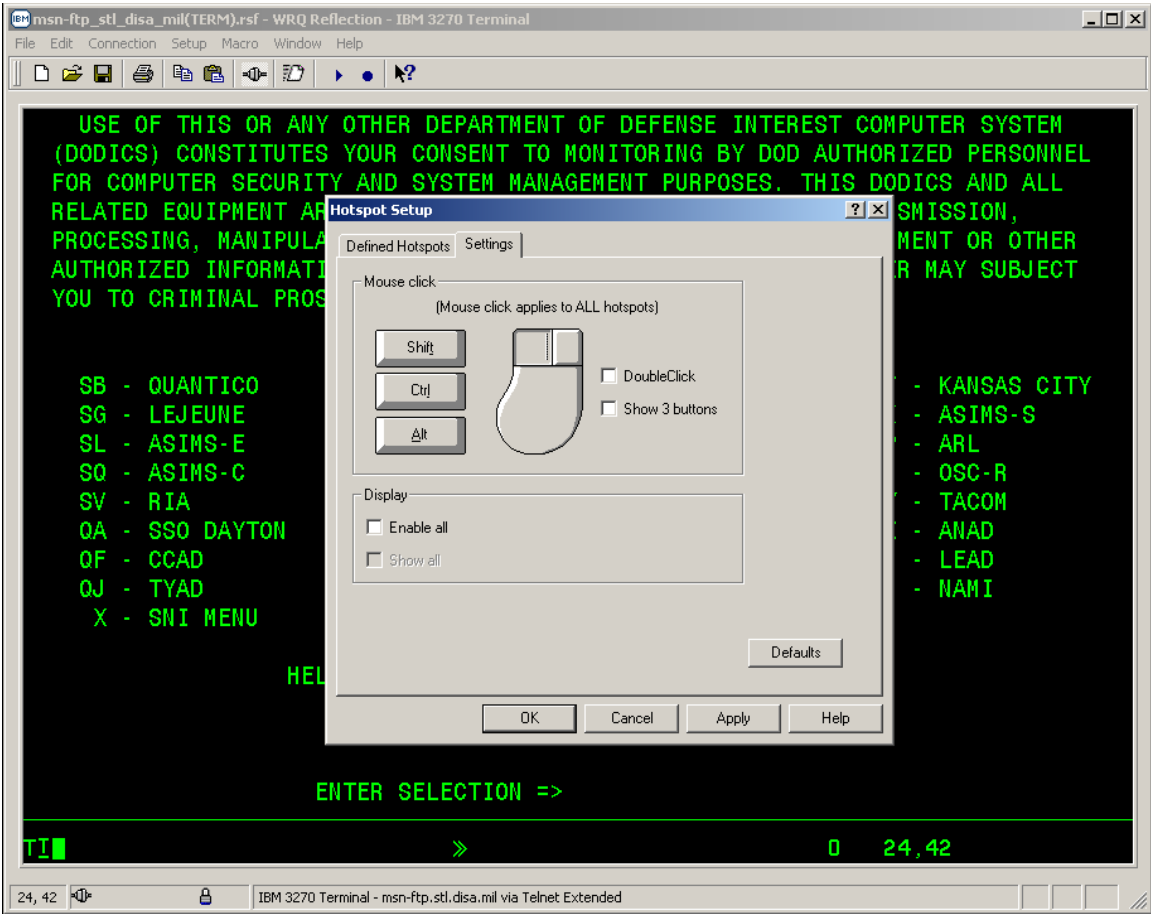
- From that drop down menu select the **Hotspot...** option and the following pop-up window will appear:



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KEYPAD & HOTSPOT

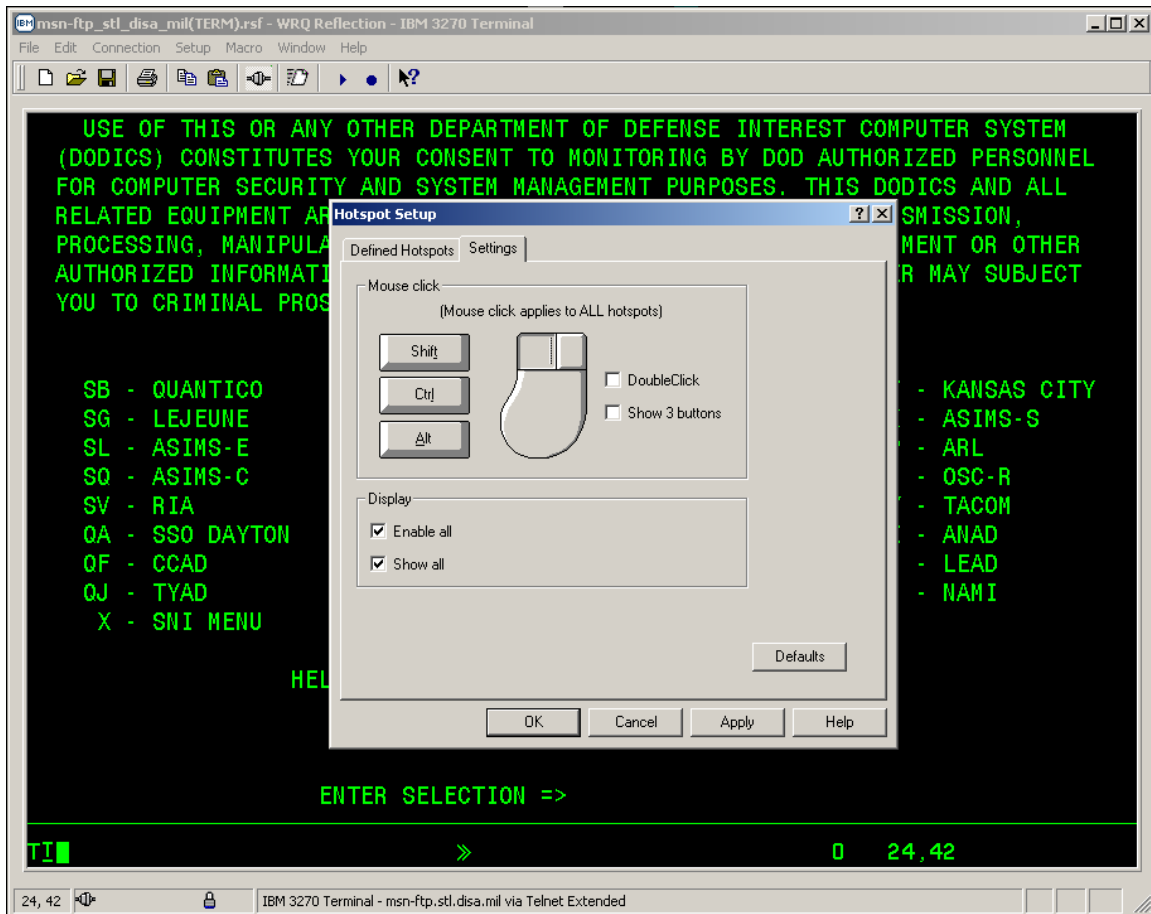
- Select the **Settings** tab on this pop-up window



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KEYPAD & HOTSTOP

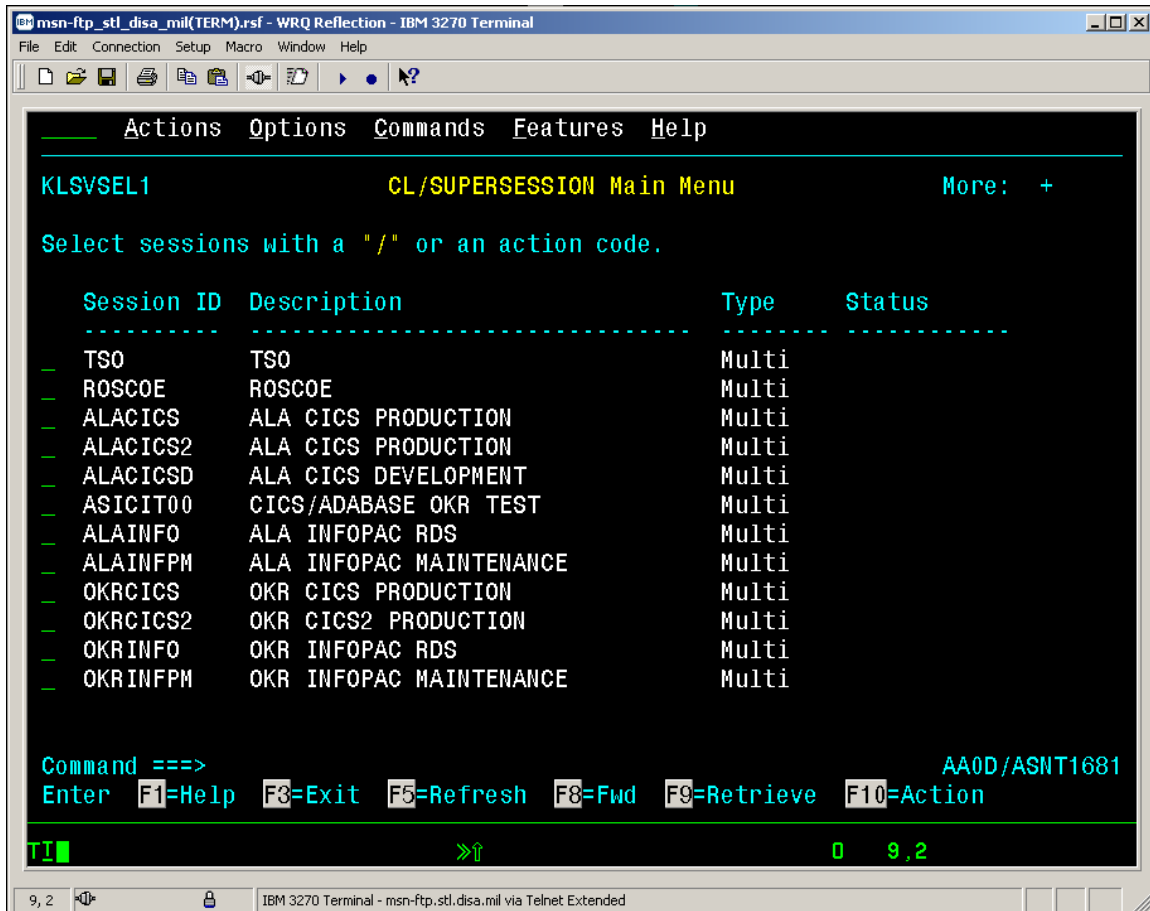
- Mouse click on the **Enable all** box will automatically un-shade and check mark the **Show all** box.



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KEYPAD & HOTSPOT

- Once both the *Enable all* and *Show all* boxes are check marked, mouse click on the button followed by the button to display the program function *PF Keys* as shown below.




- Note:** This will result in every instance of *F1, F2, F3, ... F12, etc.* character strings that appears on the terminal screen to have a fully functional hotspot button displayed around them.

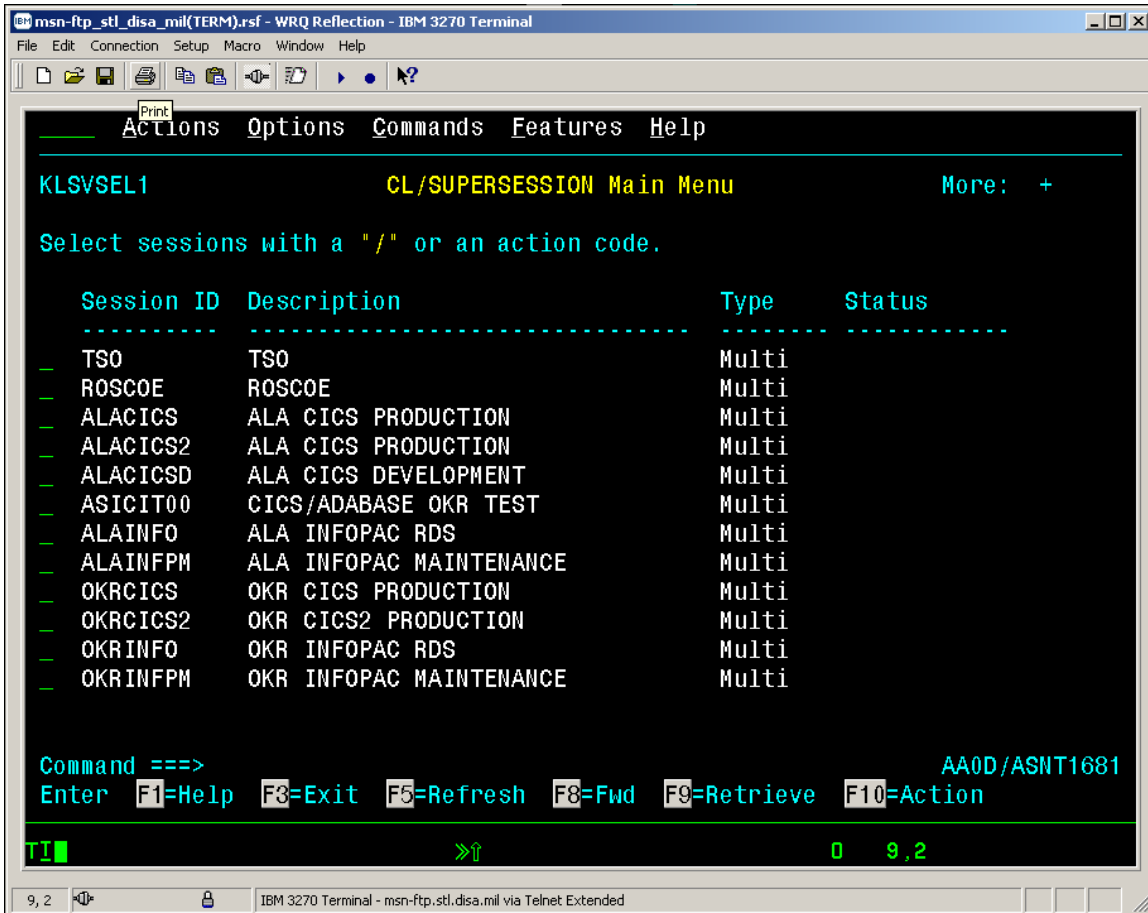
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PRINT SCREEN

Several mainframe applications do not have an associated PF Key for sending output to a printer. Normally, print screen is used to direct information to the printer in those instances. To use WRQ Reflection print screen function:

- Click the **Printer**  button located on the toolbar.
- Whatever is currently displayed on the terminal session screen will be sent to your default printer.
- You do not have to start a printer session in order to use the PrtScrn function.





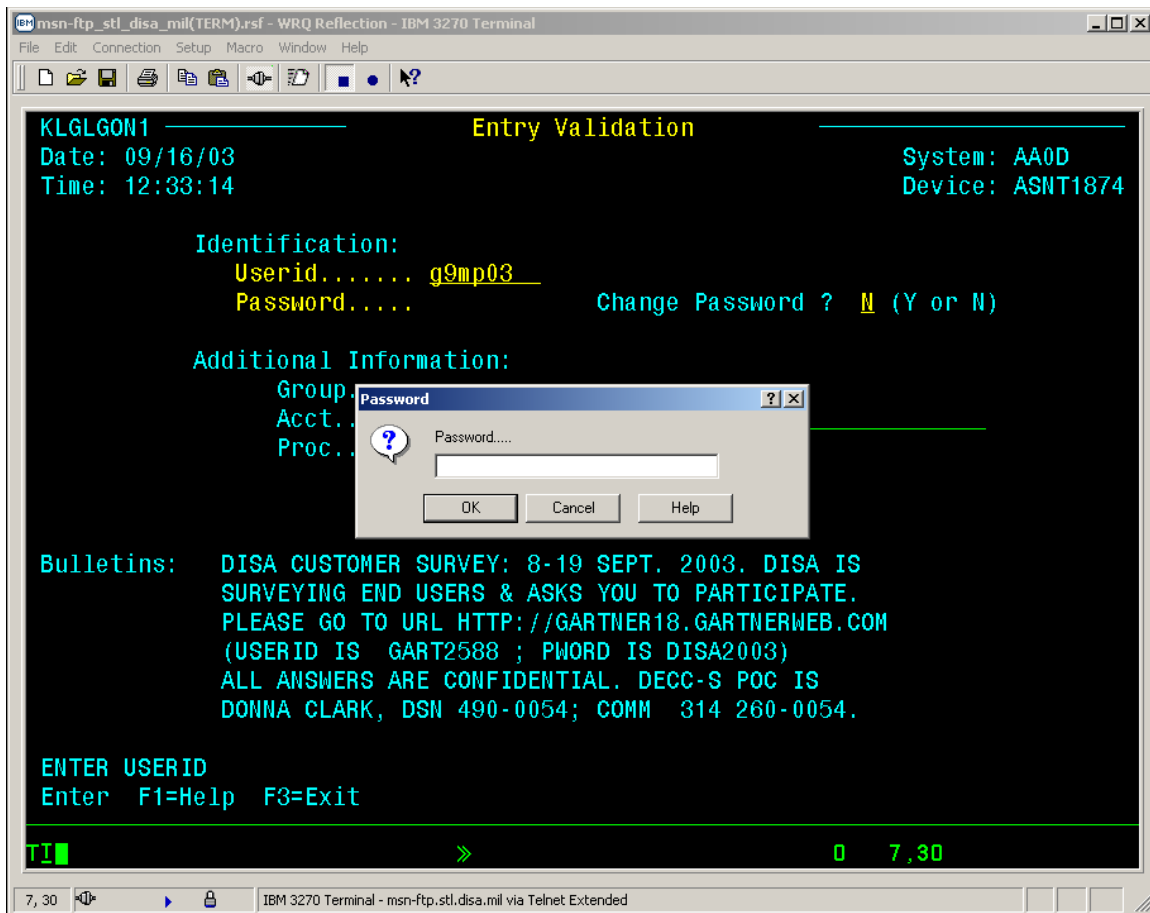
```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
Print
ACTIONS Options Commands Features Help
KLSVSEL1 CL/SUPERSESSION Main Menu More: +
Select sessions with a "/" or an action code.
Session ID Description Type Status
-----
- TSO TSO Multi
- ROSCOE ROSCOE Multi
- ALACICS ALA CICS PRODUCTION Multi
- ALACICS2 ALA CICS PRODUCTION Multi
- ALACICSD ALA CICS DEVELOPMENT Multi
- ASICIT00 CICS/ADABASE OKR TEST Multi
- ALAINFO ALA INFOPAC RDS Multi
- ALAINFPM ALA INFOPAC MAINTENANCE Multi
- OKRCICS OKR CICS PRODUCTION Multi
- OKRCICS2 OKR CICS2 PRODUCTION Multi
- OKRINFO OKR INFOPAC RDS Multi
- OKRINFPM OKR INFOPAC MAINTENANCE Multi
Command ==> AA0D/ASNT1681
Enter F1=Help F3=Exit F5=Refresh F8=Fwd F9=Retrieve F10=Action
TI 0 9,2
9, 2 IBM 3270 Terminal - msn-ftp_stl_disa_mil via Telnet Extended
```


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MACROS

WRQ Reflection has the capability of recording keystrokes thereby, allowing you to logon, navigate through different 3270 and application functions while within mainframe session by pressing the

- “**Run / Stop**”  macro button. The recorded keystrokes are saved as part of the Reflection Setting Files and linked to the specific Session Settings File.
- If you are a power user, you have the capability to create macros and utilize them at a later date. To start recording and /or stop recording a macro mouse click on the “**Start / Stop Recording**”  macro button. Please note that these macro settings files are only saved within the Reflection client software loaded to that specific personal computer.
- Also note that for security vulnerability reasons, the Reflection product will not record **Passwords** as part of a macro. All **Passwords** have to be manually entered during the running of a macro and a pop-up window to enter the **Password** is provided by the reflection software.



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KEYBOARD RE-MAP FUNCTION

All terminal emulation applications do not utilize the same keys when mapping mainframe functions. The Banyan 3270 Service may use Shift/6 to represent logical not while Attachmate may use a totally different key sequence.

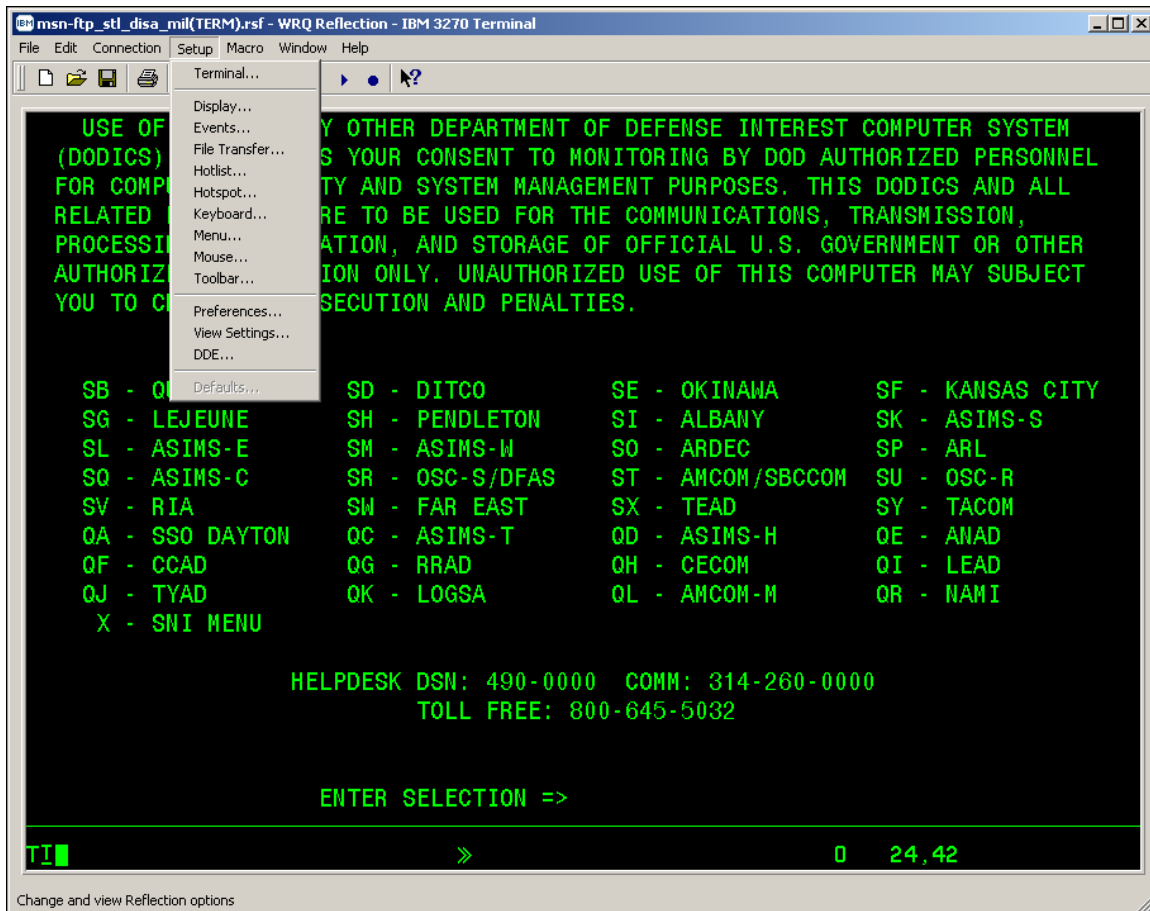
- The following table lists the default 3270 key mapping for WRQ Reflection 3270:

FUNCTION	KEYSTROKE	ENVIRONMENT
Alt Cursor	Alt+6	host
Attention	Ctrl+F1	host
Backspace	Backspace	host
Backtab	Shift+Tab	host
Clear	Ctrl+F2 or Scroll Lock	host
Clear Partition	Ctrl+F4	host
Connect	Alt+C	Reflection
Copy	Ctrl+C	Reflection
Cursor Blink	Alt+8	host
Cursor Select	Ctrl+F3	host
Delete Character	Delete	host
Delete Word	Alt+Delete	host
Device Cancel	not mapped	host
Disconnect	Alt+D	Reflection
Down	Down Arrow	host
Duplicate	Ctrl+Page Up	host
Enter	Enter	host
EraseEOF	End	host
Erase Input	Alt+F5	host
Field Delimit	Ctrl+Alt+F	host
Field Mark	Ctrl+Page Down	host
Home	Home	host
Insert	Insert	host
Keyclick	Alt+7	host
Left	Left Arrow	host
Left, double speed	Alt+Left Arrow	host
New Line	Shift+Enter	host
Next Window	Alt+N	Reflection
NumLock	Num Lock	host
PA1	Page Up	host
PA2	Page Down	host
PA3	Ctrl+3	host
Pan Left	Ctrl+Left Arrow	host
Pan Right	Ctrl+Right Arrow	host
Partition Jump	Ctrl+Tab	host
Paste	Ctrl+V	Reflection
PF1-PF12	F1-F12	host
PF13-PF24	Shift+F1-Shift +F12	host
Print Screen	Print Screen	Reflection
Reset	Esc	host
Right	Right Arrow	host
Right, double speed	Alt+Right Arrow	host
Scroll Down	Ctrl+Down Arrow	host
Scroll Up	Ctrl+Up Arrow	host
Show Command Line	Alt+L	Reflection

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SysReq	Alt+Print Screen	host
Tab	Tab	host
Toggle Terminal Keyboard	Alt+K	Reflection
Toggle Toolbar	Alt+B	Reflection
Up	Up	host
© 1994-2002 WRQ, Inc.		

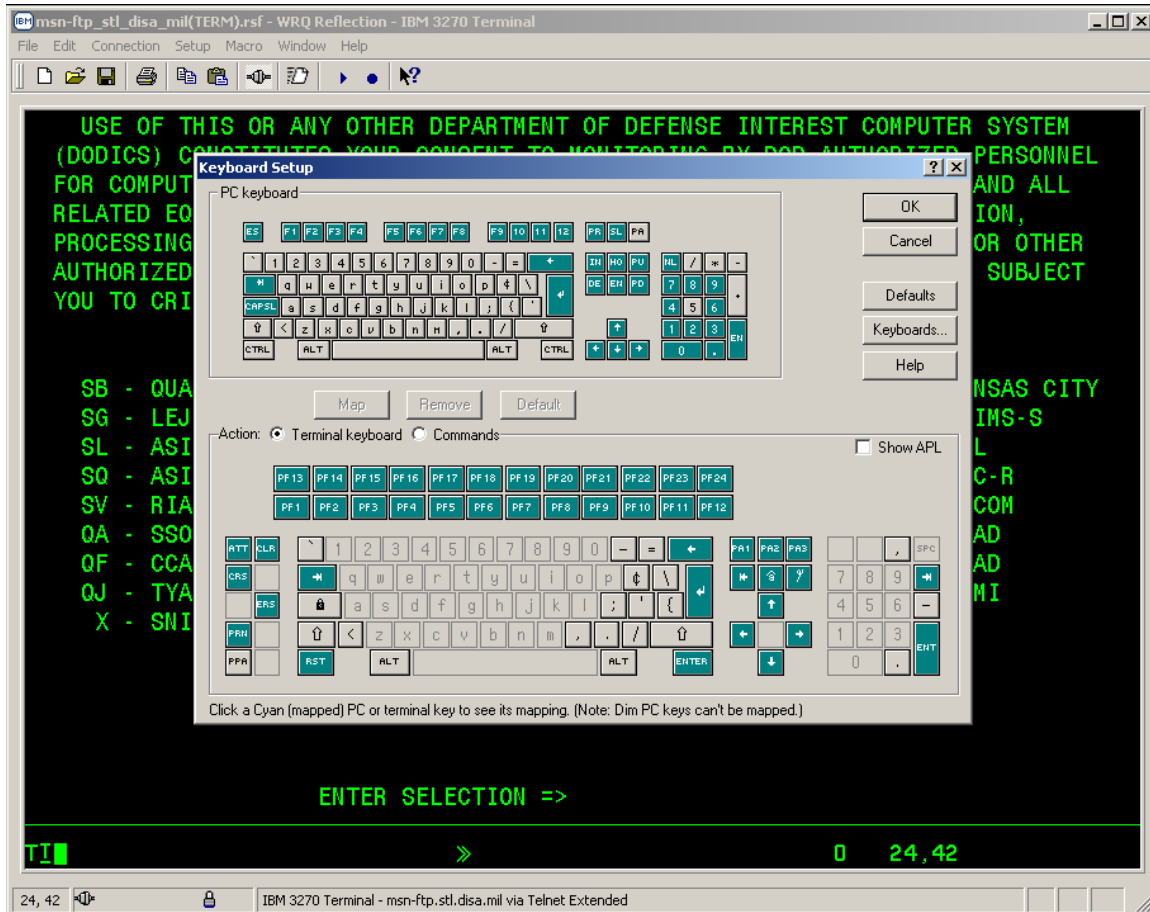
- An alternate means of determining personal computer (PC) keyboard to WRQ Reflection 3270 terminal keyboard mapping and keystrokes to function / command is to mouse click on the Setup button located on the top tool bar menu. A drop down menu window as displayed below will appear.



WRQ Inc. Reflection for IBM Version 10.0 User Guide

KEYBOARD RE-MAP FUNCTION


- From that drop down menu select the **Keyboard...** option and the following pop-up window will appear:



- This pop-up window displays a graphical representation of a PC keyboard (default is a US Enhanced 101 key PC keyboard) on the top half of the window and a graphical representation of a 3270 terminal keyboard (default is US Typewriter) on the bottom half of the window. To determine which PC keyboard key(s) represent a specific function on the 3270 terminal keyboard, mouse clicking on the 3270 terminal keyboard display key(s) associated to that specific function, the **Reset** key for example, the corresponding associated key(s) on the PC keyboard display will change from their original key colors (gray or cyan) to black, indicating these are the keys to press for that specific 3270 terminal keyboard function.
- **Note:** Both the PC keyboard and 3270 terminal keyboard types displayed can be changed from the defaults to match your specific keyboard type.
- Refer to Reflection Help files accessible by mouse clicking on the **Help** button located on the top tool bar menu.

WRQ Inc. Reflection for IBM Version 10.0 User Guide

KEYBOARD RE-MAP FUNCTION

- By default the PC keyboard to 3270 terminal keyboard mapping within WRQ Reflection for IBM has all of the necessary keys and command functions. No keyboard re-mapping is required, however if you do not feel comfortable with these defaults, you may re-map your keyboard to the key sequence(s) you've become accustomed to.
- *To re-map keyboard keys / functions please refer to Reflection Help files accessible by mouse clicking on the  button located on the top tool bar menu.*

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PRINTER SESSION BASICS

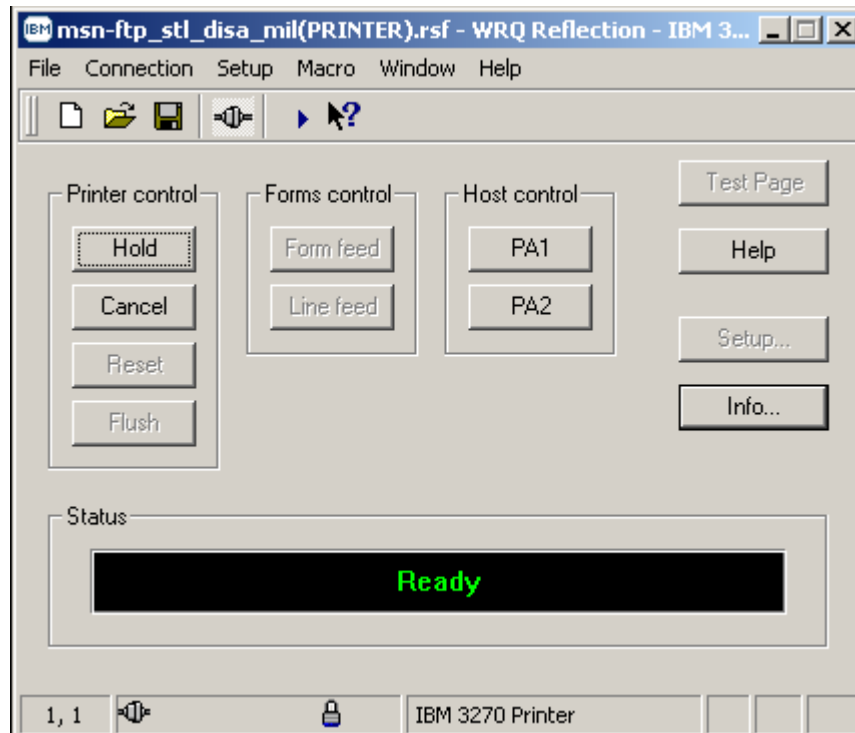
When a printer session is started a windows pop-up screen is displayed representing the status of the connection from the mainframe to your workstation's default printer. **This session must remain open in order for you to print mainframe reports. If you close the printer session window prior to the completion of printing, the next user who obtains the printer logical unit (LU) that you sent your report to will get the remainder of the report.**

You may minimize the session window at any time but do not close it until your reports have been completely printed.

The top line of the printer session window contains the following information:


- The Session Name: *msn_ftp_stl_disa_mil(PRINTER).rsf – WRQ Reflection – IBM 3270 Printer*
- A numeric session identifier: *:1* will suffix the *msn_ftp_stl_disa_mil(PRINTER).rsf* Session Name only if multiple session windows are open.
- A singular session will not be numerically suffixed.

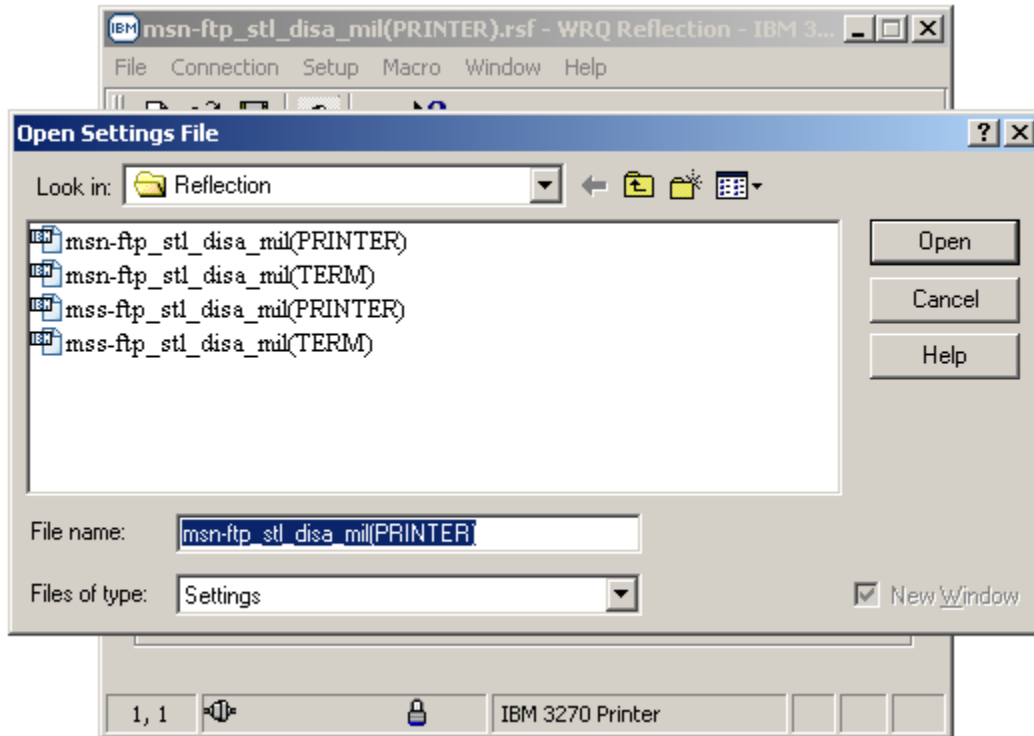
All printing communication between the user 's workstation and the mainframe may be encrypted and transmitted over a secure link. The blue/gray pad lock symbol  displayed in the Operator Information Area (OIR) on the bottom of the printer session window indicates a secure connection. If the blue/gray pad lock  is not visible, your session is not encrypted. This means all print data is being transmitted in the clear.



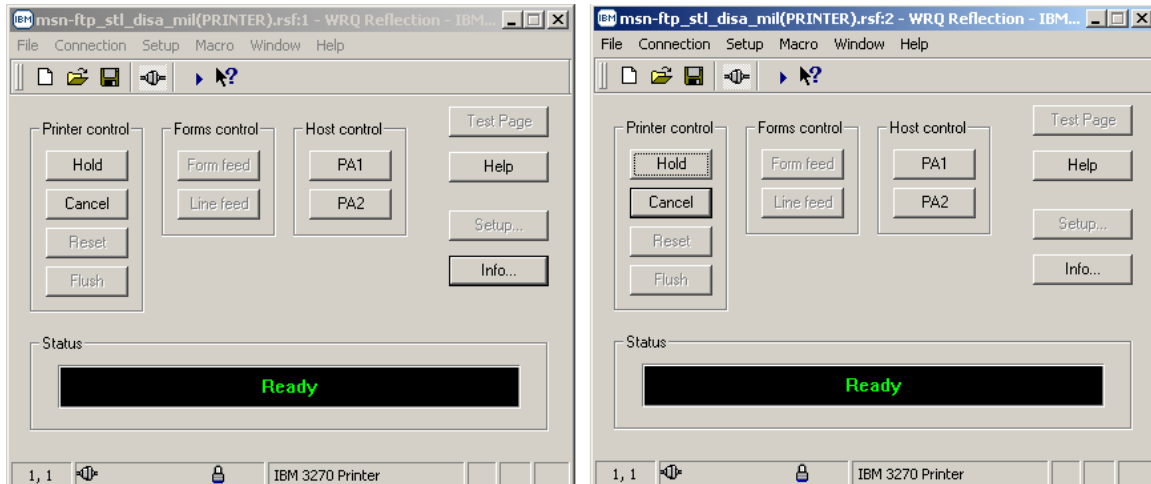
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MULTIPLE PRINTER SESSIONS

- If there is a requirement to have multiple printer session opened simultaneously, you may acquire another session by clicking on the **Open**  button, which is located on the toolbar.



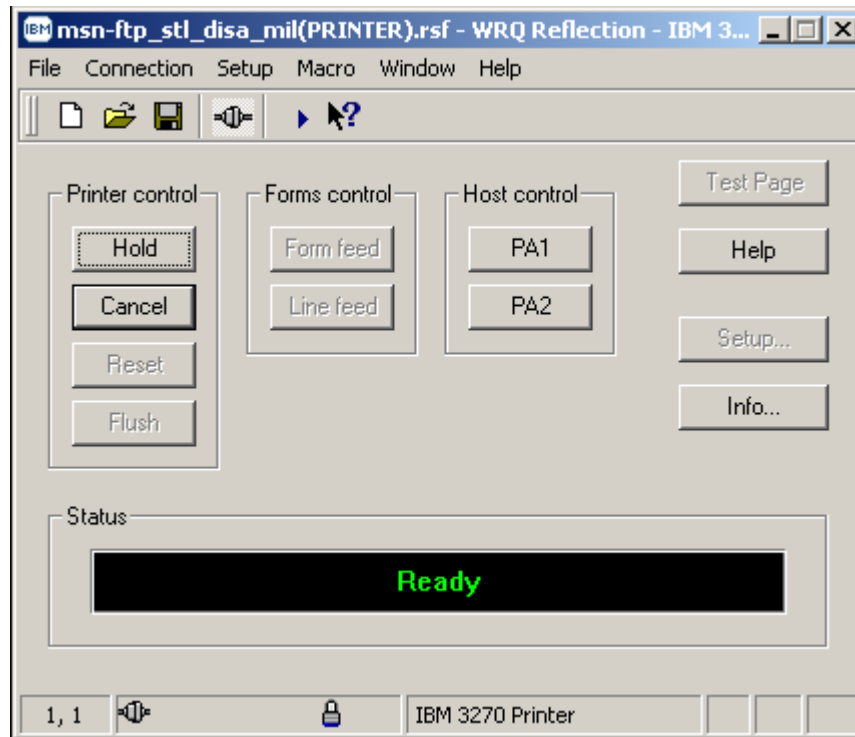
- From this **Open Settings File** pop-up window select **msn-ftp_stl_disa_mil(PRINTER)** if not already in the **File name block** and mouse click on the **Open** button.
- A second printer session window will open, the Session Name: **msn-ftp_stl_disa_mil(TERM).rsf:2 – WRQ Reflection – IBM 3270 Printer** suffixed numerically with **:2** indicates the second session. At this time your original printer session will be suffixed numerically with **:1** to designate that this is your first printer session.



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MULTIPLE PRINTER SESSIONS

There may be an occasion where you have started a terminal and printer session and accessed a mainframe application, then find that you do not remember the printer LU.



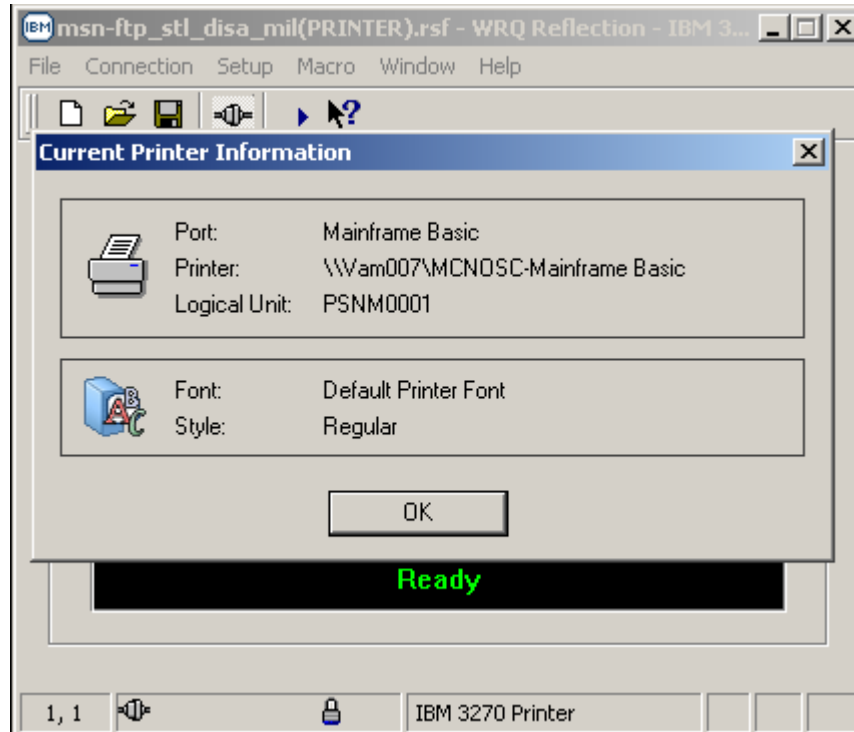
To quickly determine the printer LU, maximize the printer session window:

- Mouse click on the  button on the 3270 Printer Session window.

WRQ Inc. Reflection for IBM Version 10.0 User Guide

MULTIPLE PRINTER SESSIONS

- A **Current Printer Information** pop-up window will appear, as shown below.
- The information in the window identifies the port, your windows printer name, and the printer Logical Unit (LU)
 - In the example below the port is: **Mainframe Basic**
 - the windows printer name is: **\\Vam007\MCNOSC-Mainframe Basic**
 - the mainframe VTAM printer Logical Unit (LU) address is: **PSNM0001**



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MULTIPLE PRINTER SESSIONS

- An example of a mainframe application that you may need to know and enter your printer session mainframe VTAM Logical Unit (LU) address within is **CICS** as shown below.
- **Note:** *That the same Logical Unit (LU) that appeared on the Current Printer Information window has been entered on the 3270 terminal display CICS SELECTION MENU under the CICS default printer setting shown as: (PA2) DEFAULT PRINTER=> PSNM0001*

```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
G9MP03                                CICS SELECTION MENU                                09/23/2003
TRAPMENU00                            GGCICSP0                                           10:55:43

01. LOGOFF OF CICS
02. PRODUCTION NATURAL
03. PRODUCTION HAS
04. NATURAL CLASS1
05. SET UP PRINTER(S)
06. BULLETIN BOARD
07. VFMENU PROCESS
08. CMA-SPOOL MENU

SELECTION=> 2_                          (PA2) DEFAULT PRINTER=> PSNM0001

PF: 1 LOGOFF                            7 BWD  8 FWD

TI █                                     >>↑      NUM      0  21,16
21, 16
```

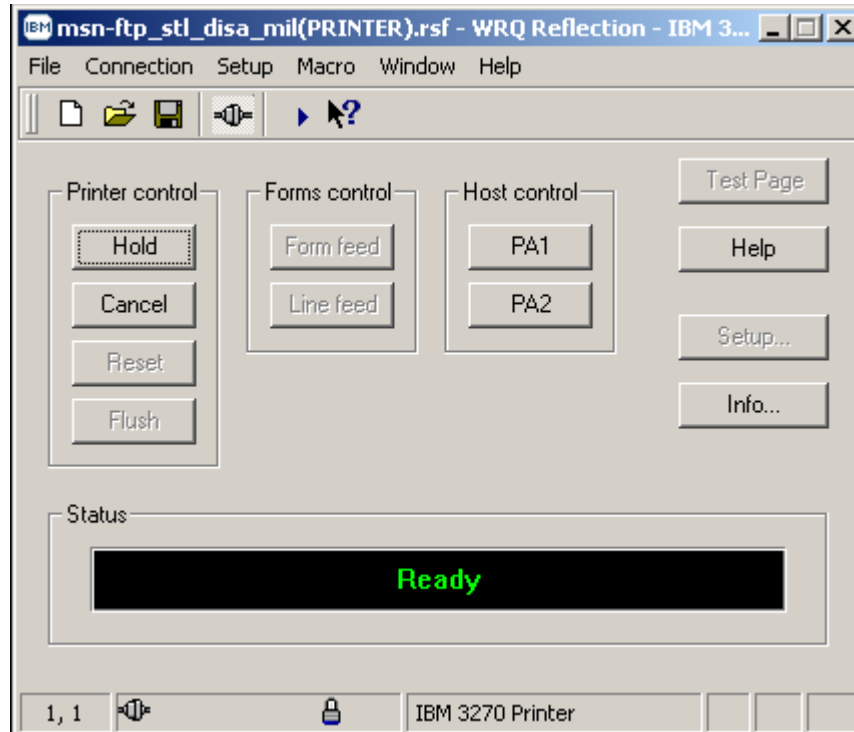
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ESTABLISHING A DEDICATED “NAILED” PRINTER SESSIONS

Specific mainframe applications have hard coded mainframe VTAM printer Logical Unit (LU) addresses imbedded within the application code, resulting in certain mainframe 3270 end-users having a requirement to establish a dedicated “Nailed” mainframe VTAM Logical Unit (LU) address printer session.

To establish a dedicated “Nailed” printer session perform the following steps:

- Open a normal Reflection 3270 printer session as describes on pages 12 through 20.
- Upon completion of those instructions you should see the 3270 printer session window as displayed below on your screen.

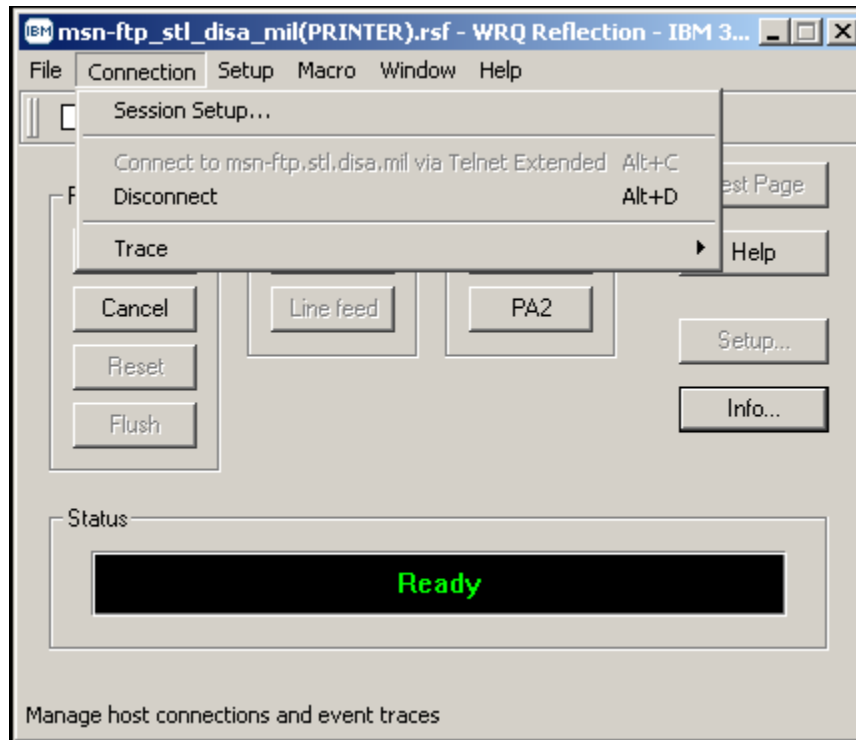


- From the 3270 printer session window mouse click on the **Connection** button located on the top tool bar menu.

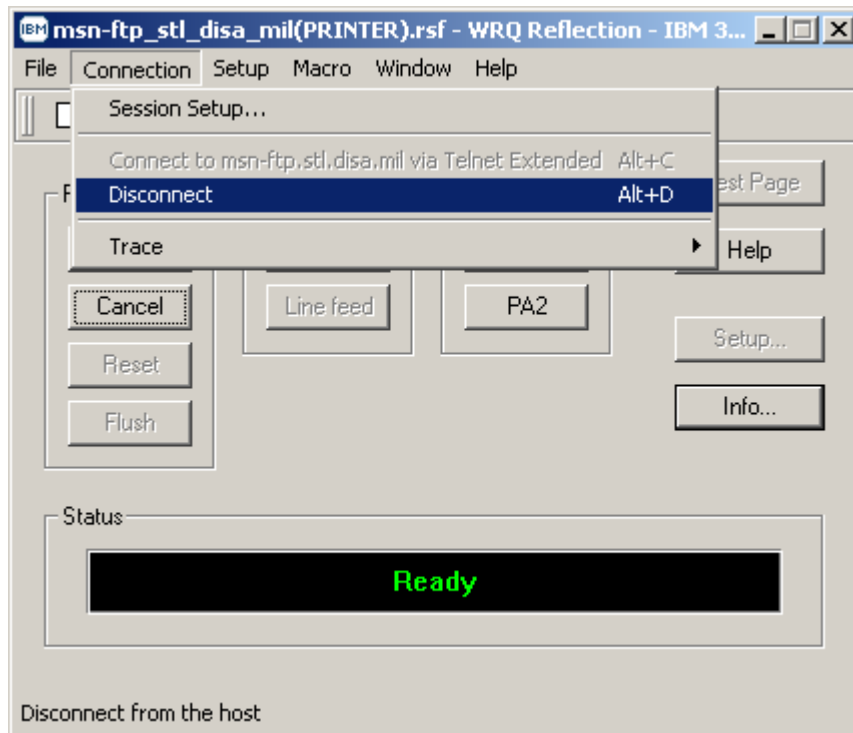
WRQ Inc. Reflection for IBM Version 10.0 User Guide

ESTABLISHING A DEDICATED “NAILED”PRINTER SESSIONS

- A windows drop down menu as shown below will appear as shown below.



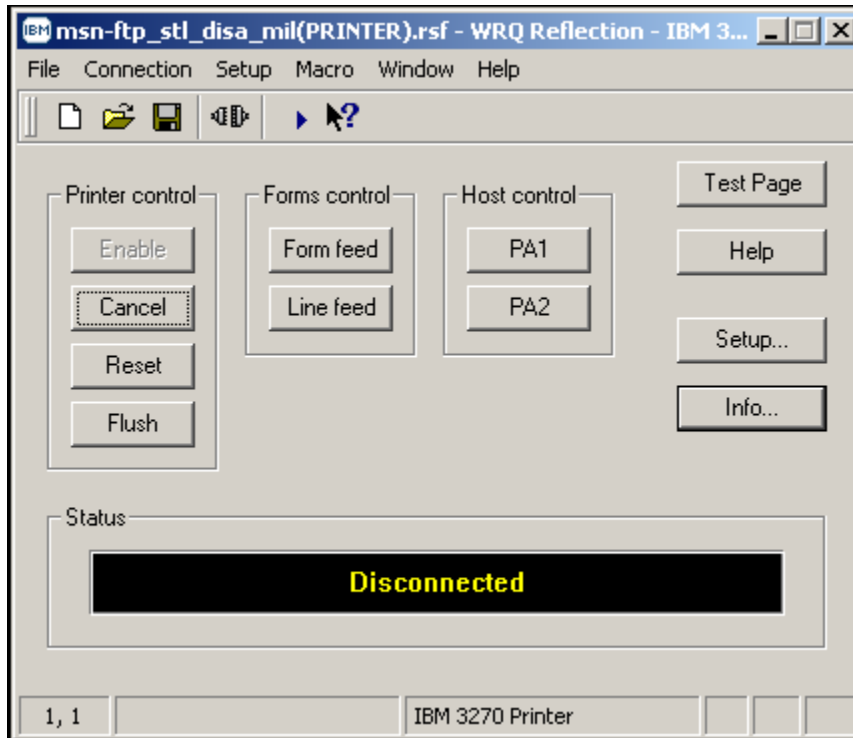
- From this drop down menu select **Disconnect** with your mouse.



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ESTABLISHING A DEDICATED “NAILED” PRINTER SESSIONS

- Once **Disconnect** is selected, the 3270 printer session window will remain open but the *Status* window will change from **Ready** as shown in the display above to **Disconnected** as shown in the display below.

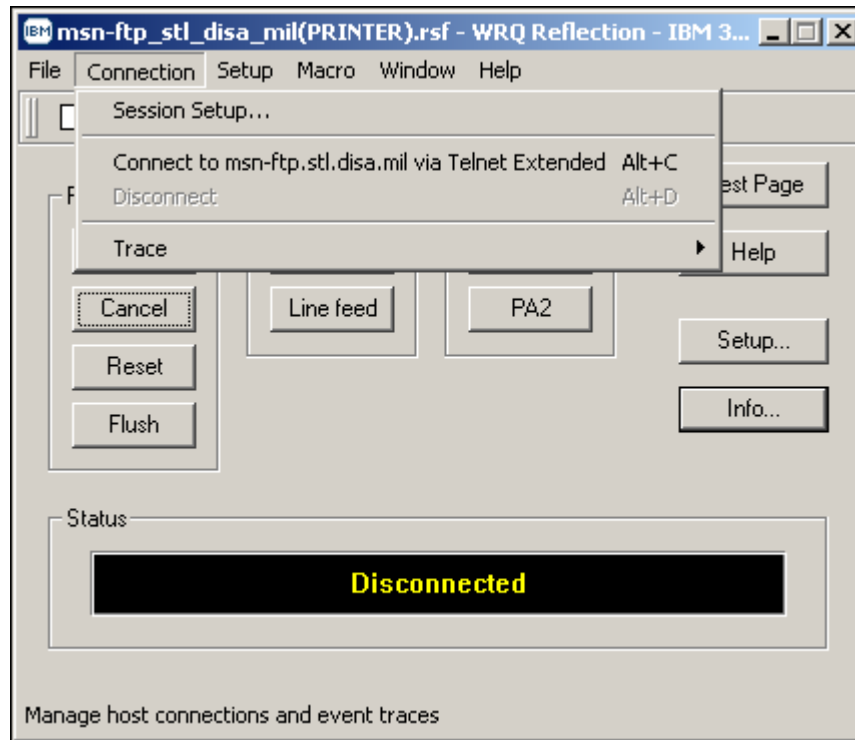


- While the 3270 printer session is in a **Disconnected** status mouse click on the **Connection** button located on the top tool bar menu.

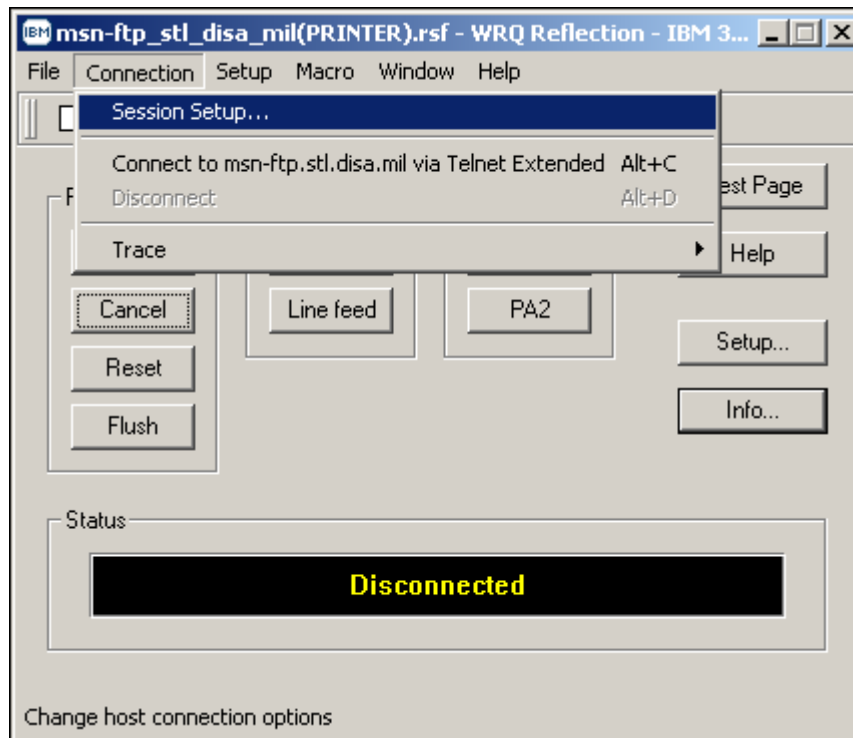
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ESTABLISHING A DEDICATED “NAILED”PRINTER SESSIONS

- A windows drop down menu as shown below will appear as shown below.



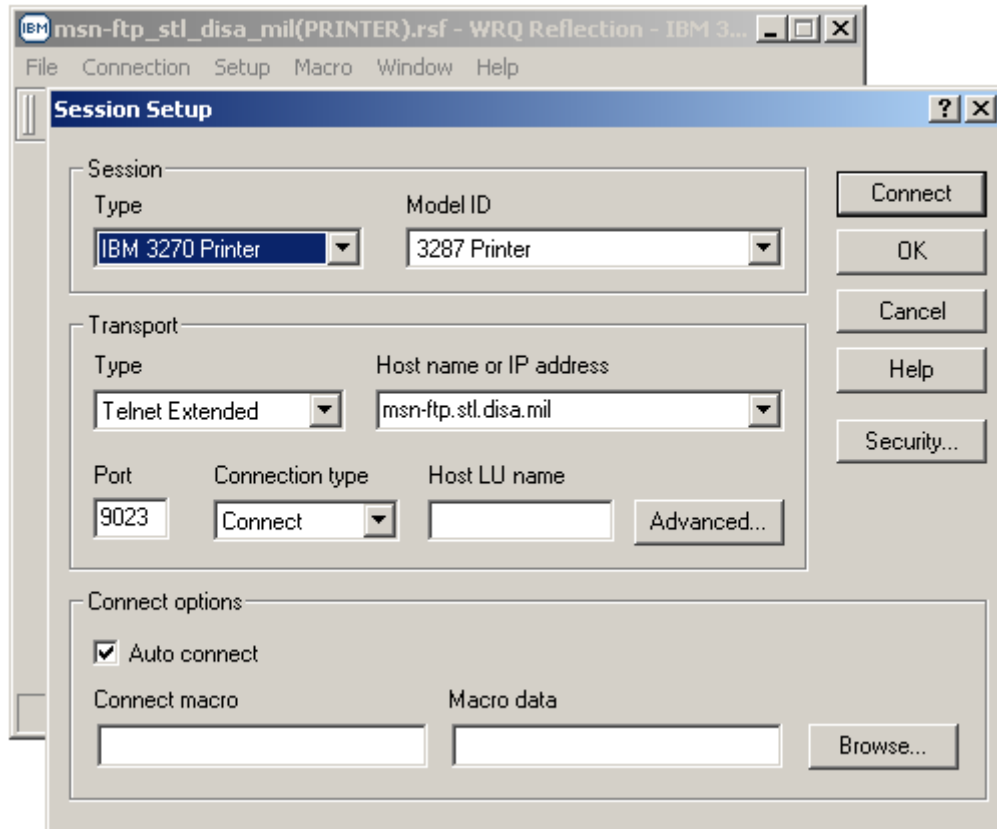
- From this drop down menu select **Session Setup...** with your mouse.



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ESTABLISHING A DEDICATED “NAILED” PRINTER SESSIONS

- Once **Session Setup...** is selected, the 3270 printer session window will remain open and a second pop-up window for **Session Setup** will appear as shown below.
- **Note:** *The 3270 printer session window may be completely hidden by the Session Setup pop-up window.*

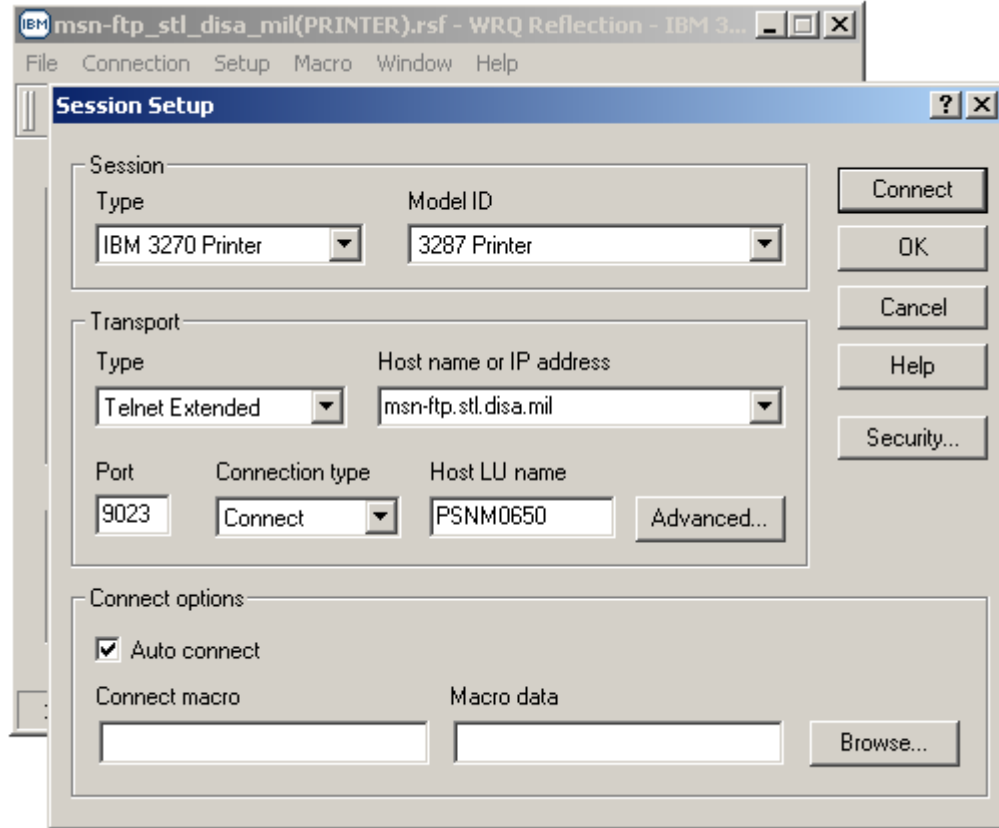


- Within the **Session Setup** pop-up window you will find a **Host LU name** dialog box.


WRQ Inc. Reflection for IBM Version 10.0 User Guide

ESTABLISHING A DEDICATED “NAILED” PRINTER SESSIONS

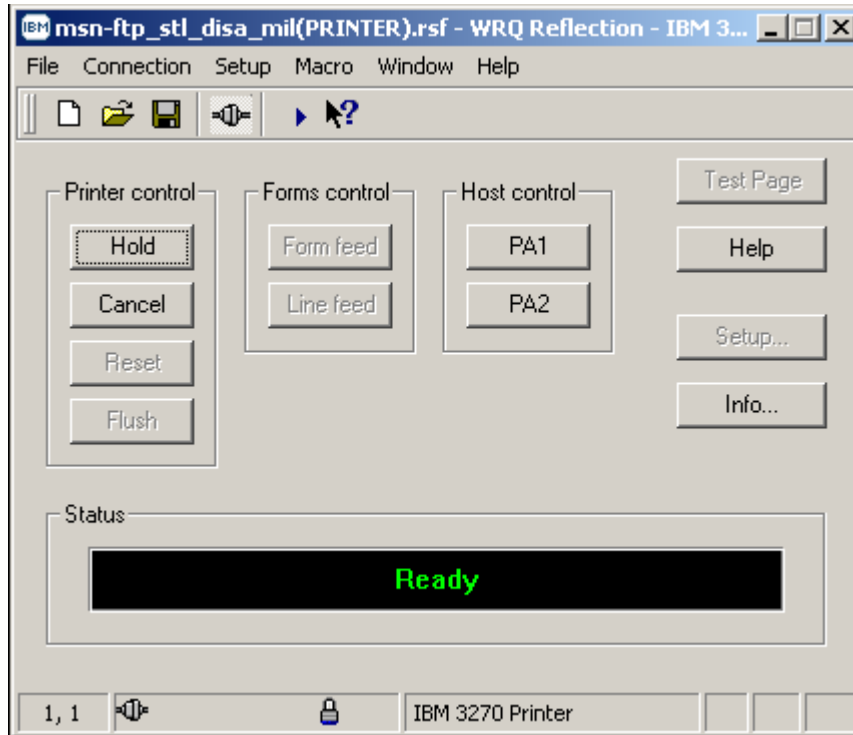
- Mouse click in the **Host LU name** dialog box and enter the mainframe VTAM printer Logical Unit (LU) address that has been assigned (**dedicated** / **“nailed”**) to you or your organization as shown in the example below.



- **Note:** Mainframe VTAM printer Logical Unit (LU) address in the example above is **PSNM0650**.
- Once you have enter the mainframe VTAM printer Logical Unit (LU) address that has been assigned (**dedicated** / **“nailed”**) to you or your organization in the **Host LU name** dialog box

mouse click the **‘Connect’**  button and the **Session Setup** pop-up window will close, your 3270 printer session window display will reconnect the session, and the **Status** window will change to **Ready** as shown

ESTABLISHING A DEDICATED “NAILED” PRINTER SESSIONS



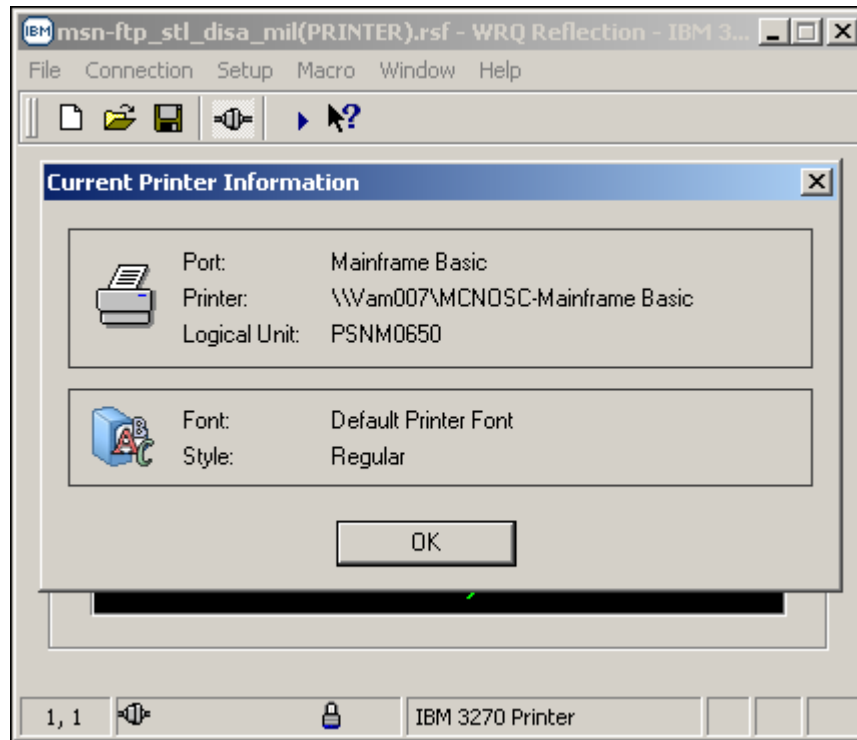
To quickly determine if your printer session now is to your assigned dedicated Nailed mainframe VTAM printer Logical Unit (LU), maximize the printer session window:

- Mouse click on the  button on the 3270 Printer Session window.

WRQ Inc. Reflection for IBM Version 10.0 User Guide

ESTABLISHING A DEDICATED “NAILED” PRINTER SESSIONS

- A **Current Printer Information** pop-up window will appear, as shown below.



- The information in the window identifies the port, your windows printer name, and the printer Logical Unit (LU)
 - In the example below the port is: **Mainframe Basic**
 - the windows printer name is: **\\Vam007\MCNOSC-Mainframe Basic**
 - the mainframe VTAM printer Logical Unit (LU) address is: **PSNM0650**

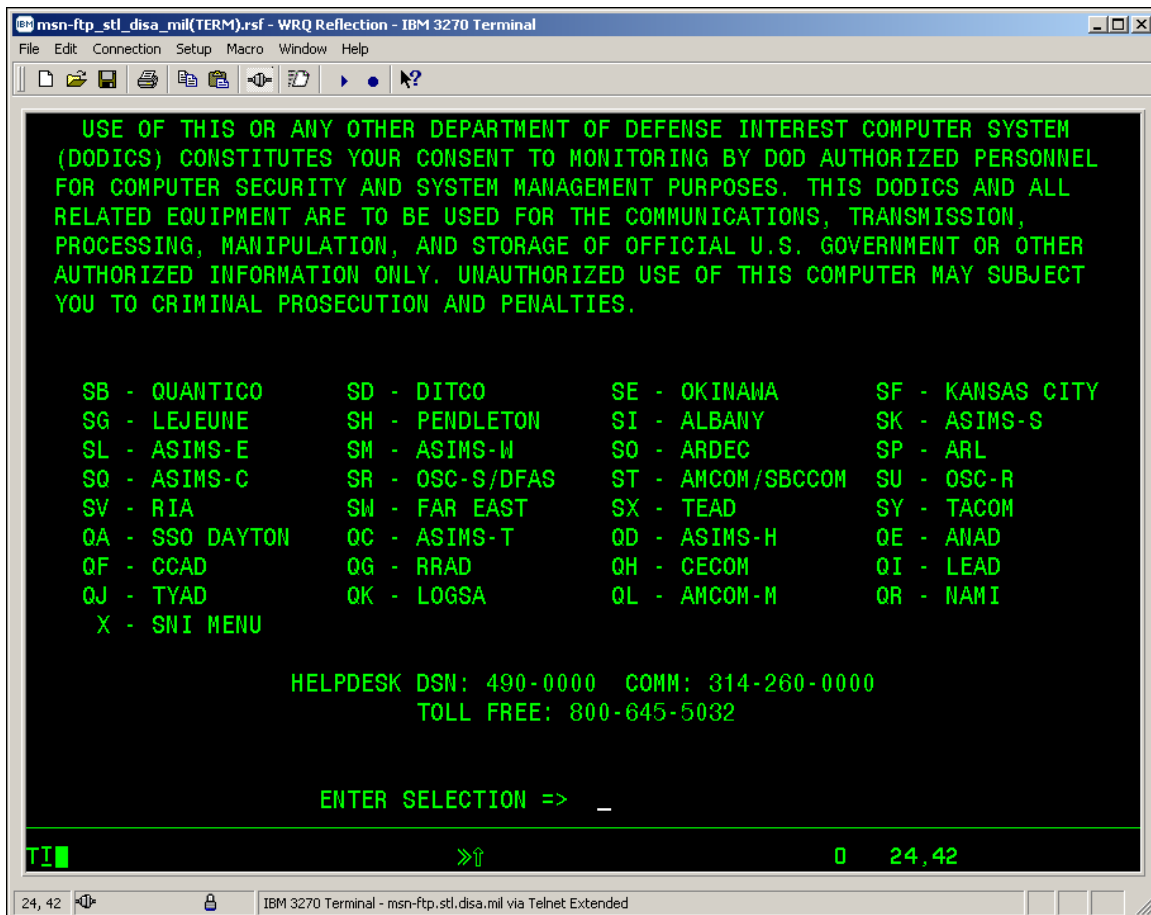
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ESTABLISHING A DEDICATED "NAILED" TERMINAL SESSIONS

Specific mainframe applications have hard coded mainframe VTAM terminal Logical Unit (LU) addresses imbedded within the application code, resulting in certain mainframe 3270 end-users having a requirement to establish a dedicated "Nailed" mainframe VTAM Logical Unit (LU) address terminal session.

To establish a dedicated "Nailed" terminal session perform the following steps:

- Open a normal Reflection 3270 terminal session as describes on pages 3 through 11.
- Upon completion of those instructions you should see the 3270 terminal session window as displayed below on your screen.

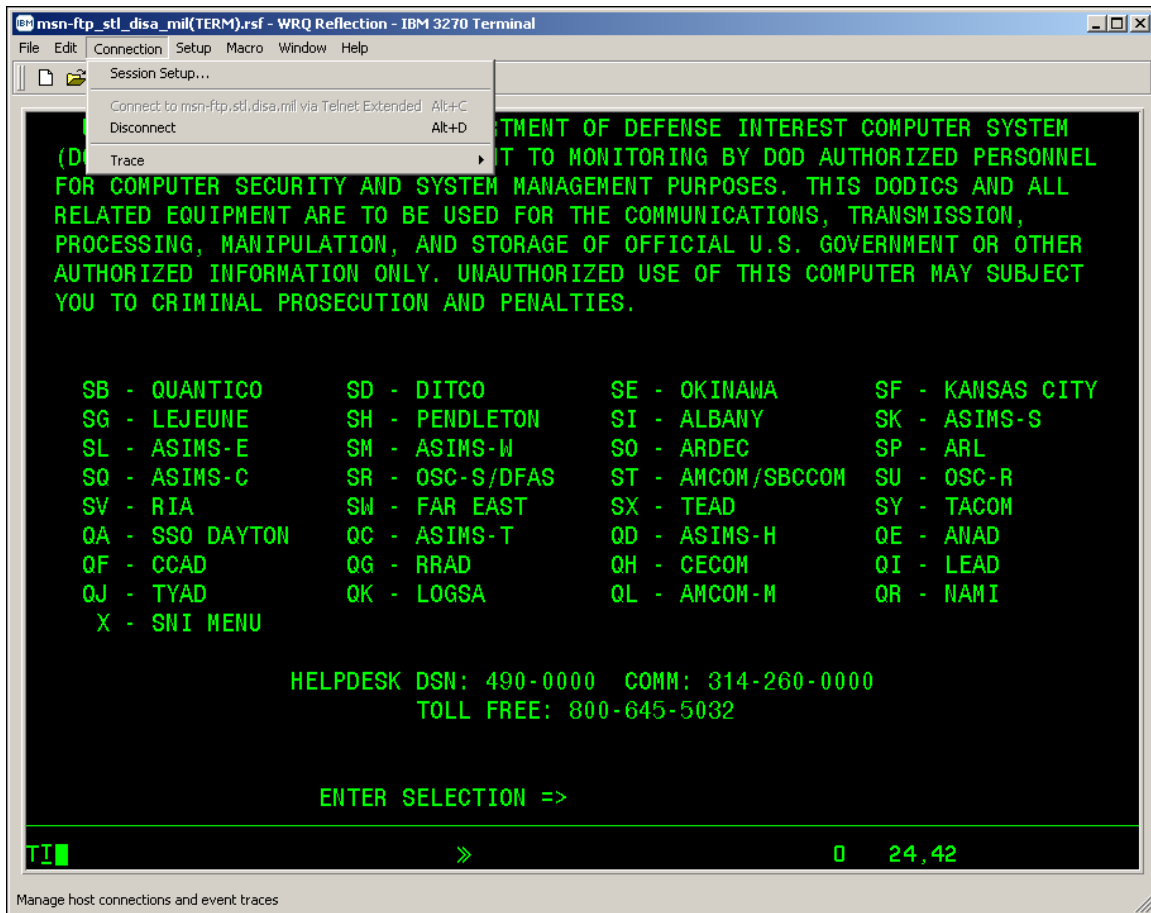


- From the 3270 terminal session window mouse click on the **Connection** button located on the top tool bar menu.

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ESTABLISHING A DEDICATED "NAILED" TERMINAL SESSIONS

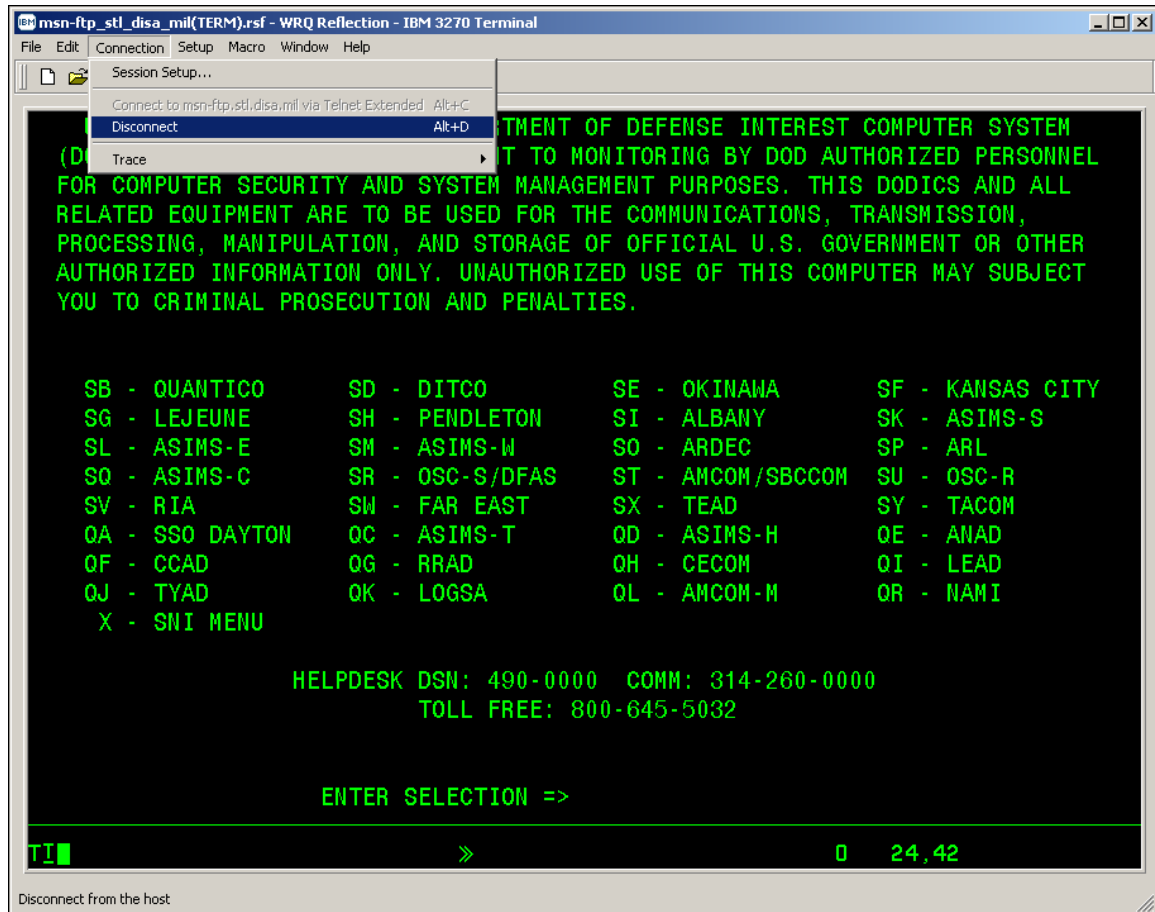
- A windows drop down menu as shown below will appear as shown below.



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ESTABLISHING A DEDICATED “NAILED” TERMINAL SESSIONS

- From this drop down menu select **Disconnect** with your mouse.



- Once **Disconnect** is selected, the 3270 terminal session window will remain open but the actual 3270 terminal connect (the green mainframe 3270 DoD Warning / site selection menu screen) will change from the display above to blank screen as shown in the display below.
- Note:** That the 3270 terminal session status information displayed in the Operator Information Area (OIA) on the bottom of the terminal session window indicates:

IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended

while the session is connected

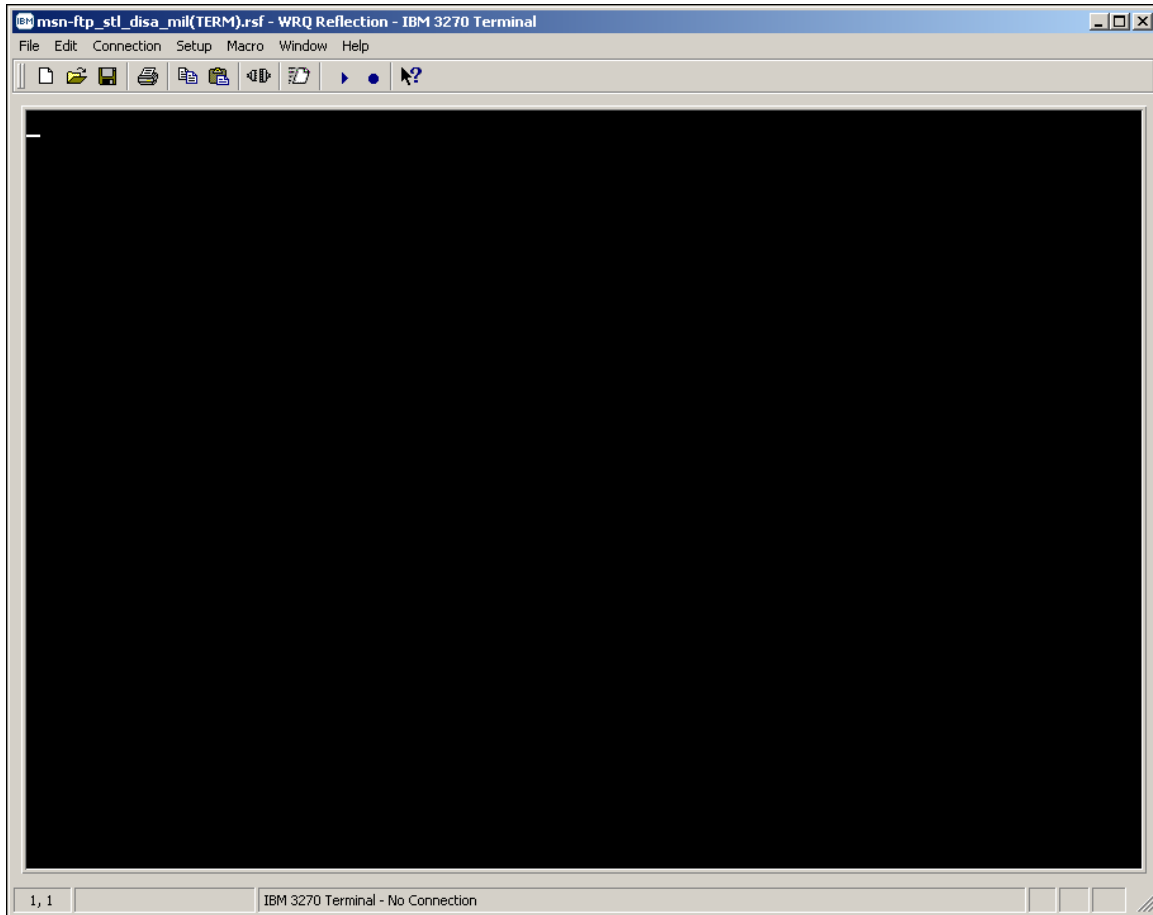
and indicates:

IBM 3270 Terminal - No Connection

when the session is disconnected.

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ESTABLISHING A DEDICATED “NAILED” TERMINAL SESSIONS

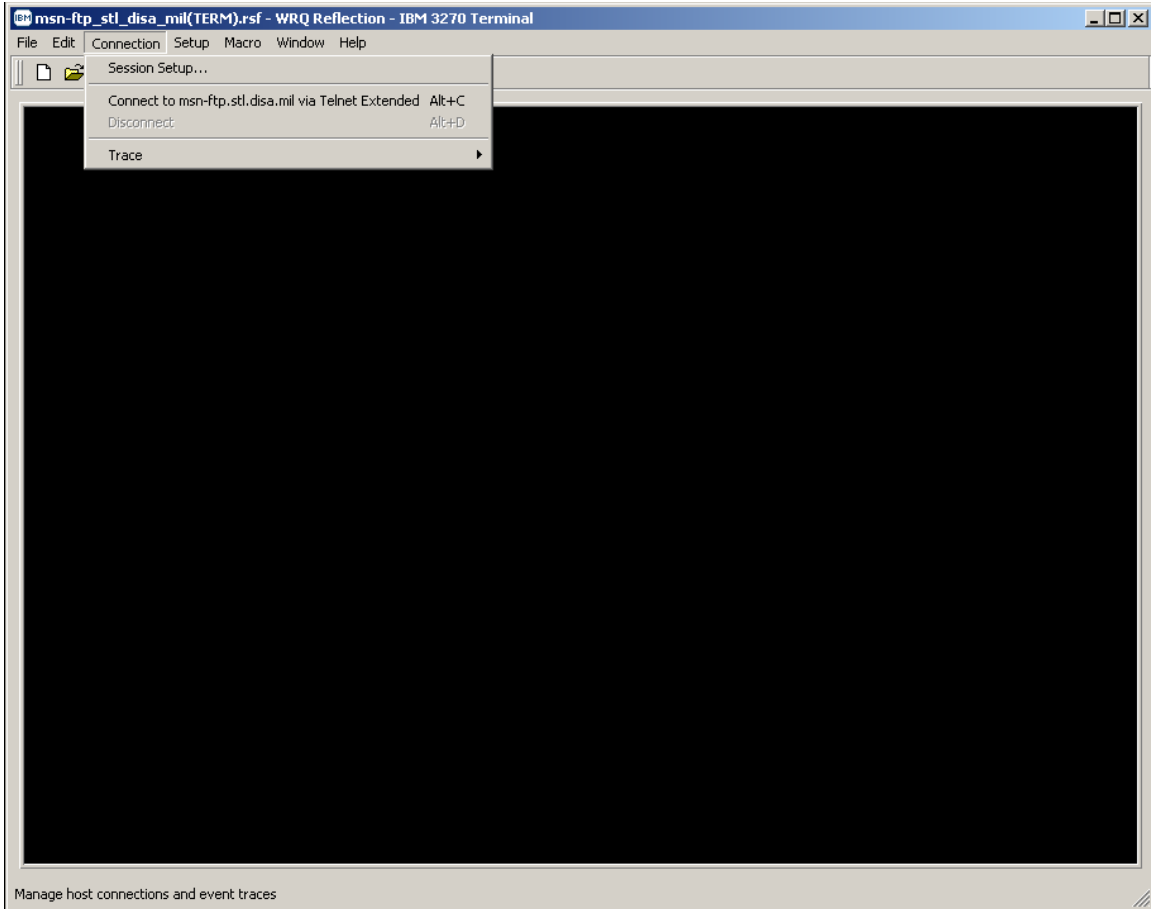


- While the 3270 terminal session is in a disconnected status mouse click on the **Connection** button located on the top tool bar menu.

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ESTABLISHING A DEDICATED “NAILED” TERMINAL SESSIONS

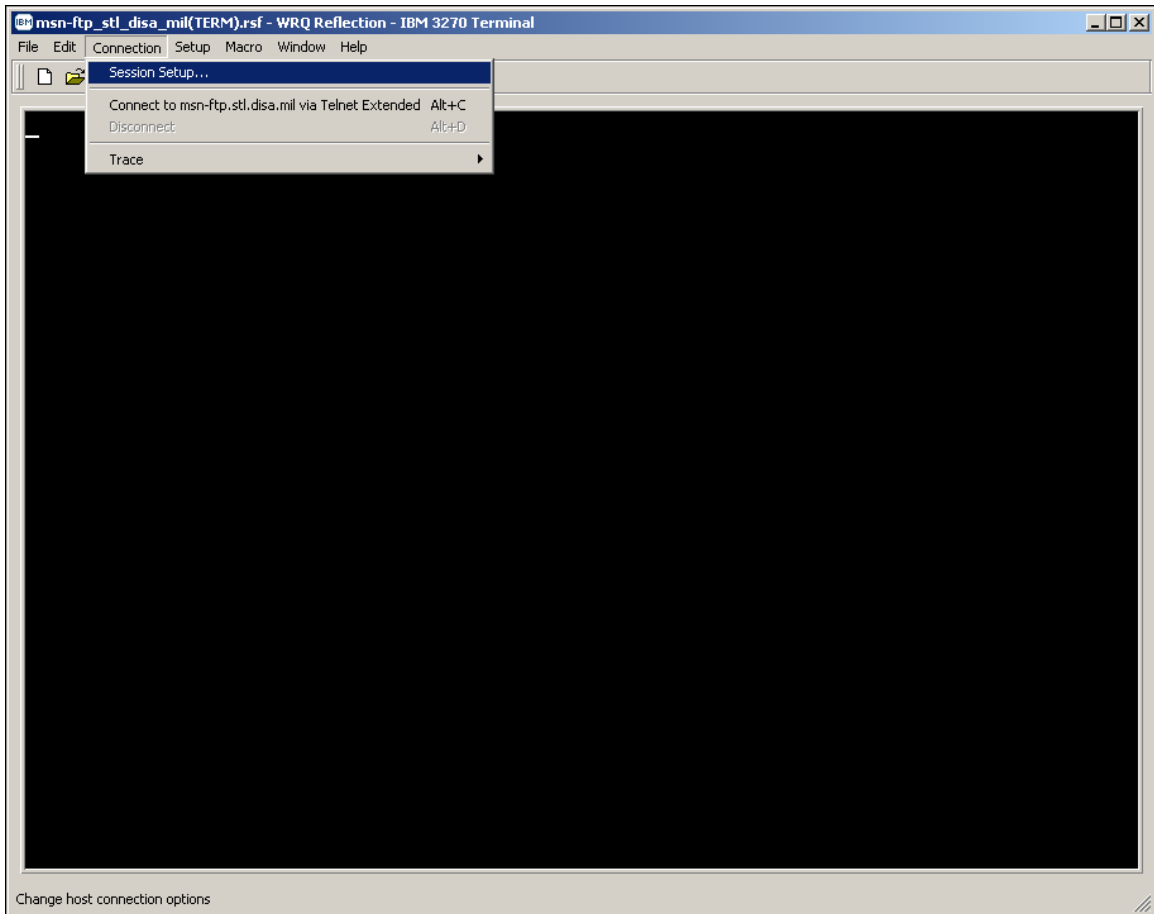
- A windows drop down menu as shown below will appear as shown below.



WRQ Inc. Reflection for IBM Version 10.0 User Guide

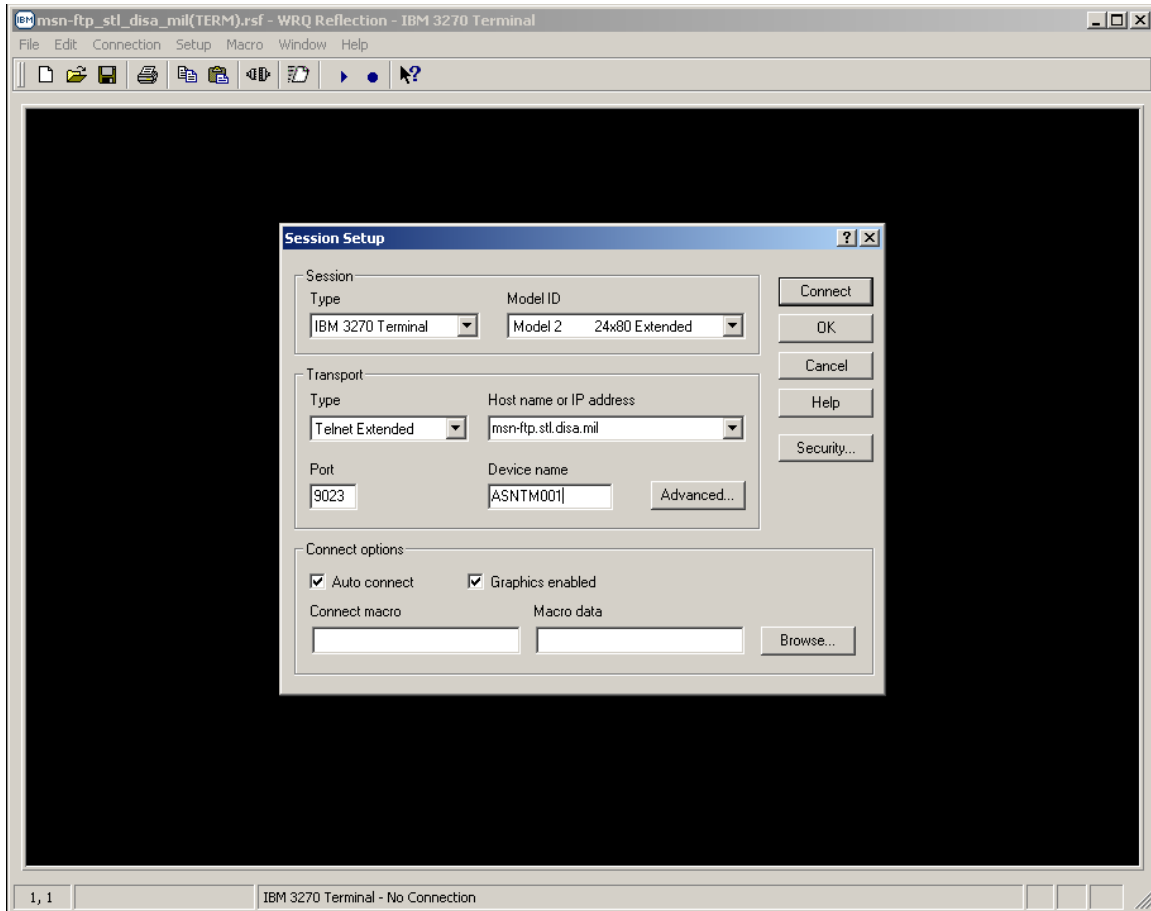
ESTABLISHING A DEDICATED “NAILED” TERMINAL SESSIONS


- From this drop down menu select **Session Setup...** with your mouse.



- Once **Session Setup...** is selected, the 3270 terminal session window will remain open but disconnected, and a second pop-up window for **Session Setup** will appear as shown below.

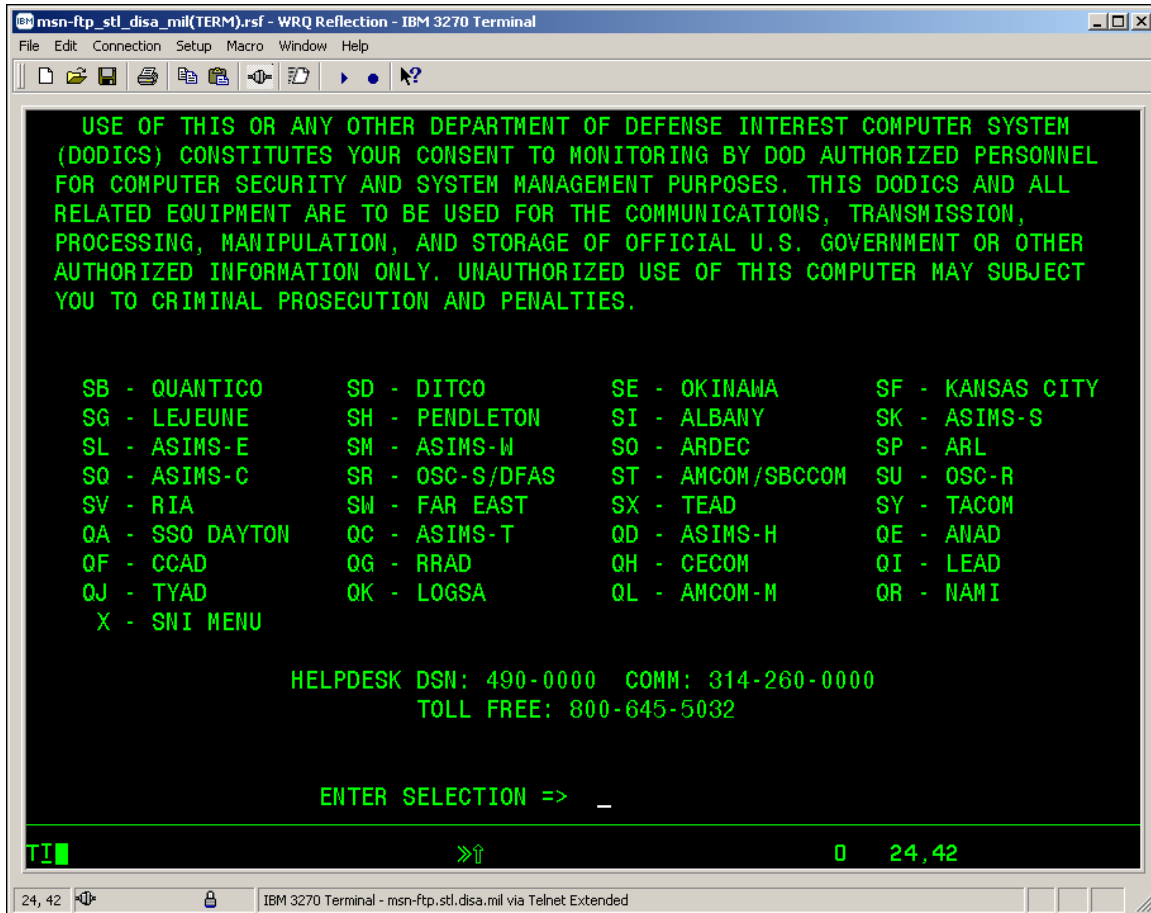
ESTABLISHING A DEDICATED “NAILED” TERMINAL SESSIONS



- **Note:** Mainframe VTAM terminal Logical Unit (LU) address in the example above is **ASNM0001**.
- Once you have entered the mainframe VTAM terminal Logical Unit (LU) address that has been assigned (**dedicated / “nailed”**) to you or your organization in the *Device name* dialog box
- Mouse click the **‘Connect’**  button and the *Session Setup* pop-up window will close, your 3270 terminal session window display will reconnect the session, and the green mainframe 3270 DoD Warning / site selection menu screen will reappear as shown below.

WRQ Inc. Reflection for IBM Version 10.0 User Guide

ESTABLISHING A DEDICATED “NAILED” TERMINAL SESSIONS



```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
[Icons]
USE OF THIS OR ANY OTHER DEPARTMENT OF DEFENSE INTEREST COMPUTER SYSTEM
(DODICS) CONSTITUTES YOUR CONSENT TO MONITORING BY DOD AUTHORIZED PERSONNEL
FOR COMPUTER SECURITY AND SYSTEM MANAGEMENT PURPOSES. THIS DODICS AND ALL
RELATED EQUIPMENT ARE TO BE USED FOR THE COMMUNICATIONS, TRANSMISSION,
PROCESSING, MANIPULATION, AND STORAGE OF OFFICIAL U.S. GOVERNMENT OR OTHER
AUTHORIZED INFORMATION ONLY. UNAUTHORIZED USE OF THIS COMPUTER MAY SUBJECT
YOU TO CRIMINAL PROSECUTION AND PENALTIES.

SB - QUANTICO      SD - DITCO        SE - OKINAWA     SF - KANSAS CITY
SG - LEJEUNE      SH - PENDLETON   SI - ALBANY      SK - ASIMS-S
SL - ASIMS-E      SM - ASIMS-W     SO - ARDEC       SP - ARL
SQ - ASIMS-C      SR - OSC-S/DFAS  ST - AMCOM/SBCCOM SU - OSC-R
SV - RIA          SW - FAR EAST    SX - TEAD        SY - TACOM
QA - SSO DAYTON   QC - ASIMS-T     QD - ASIMS-H     QE - ANAD
QF - CCAD         QG - RRAD        QH - CECOM       QI - LEAD
QJ - TYAD         QK - LOGSA       QL - AMCOM-M     QR - NAMI
X - SNI MENU

HELPDESK DSN: 490-0000  COMM: 314-260-0000
TOLL FREE: 800-645-5032

ENTER SELECTION => _

TI  >>↑  0  24,42
24, 42  IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended
```

To quickly determine if your terminal session now is to your assigned (**dedicated / “Nailed”**) mainframe VTAM terminal Logical Unit (LU) address, from the terminal session green mainframe 3270 DoD Warning / site selection menu screen start to login as you normally would to the site(s) you utilize, i.e., (**SI – ALBANY**).

- On the **Userid / Password Entry Validation** 3270 screen, in the upper right hand corner you will see **Device: ASNTM001** where in this example, **ASNM0001** is your dedicated ‘Nailed’ mainframe VTAM printer Logical Unit (LU) address.

WRQ Inc. Reflection for IBM Version 10.0 User Guide

ESTABLISHING A DEDICATED "NAILED" TERMINAL SESSIONS

- For informational purposes only, an example of the Userid / Password Entry Validation 3270 screen is shown below.

```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help

KLGLGOM1                               Entry Validation
Date: 09/26/03                          System: AA0D
Time: 11:31:49                          Device: ASNTM001

Identification:
  Userid..... _____
  Password.....          Change Password ? N (Y or N)

Additional Information:
  Group..... _____
  Acct..... _____
  Proc..... _____

Bulletins:  DEFENSE ENTERPRISE COMPUTING CENTER ST. LOUIS
             ALBANY OS/390 DOMAIN

             FOR PROBLEMS CALL: DSN 490-0000 OR
             TOLL FREE 1-800-645-5032

ENTER USERID
Enter F1=Help F3=Exit

TI  >>  0  6,30

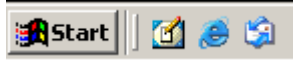
6,30  IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended
```

WRQ Inc. Reflection for IBM Version 10.0 User Guide

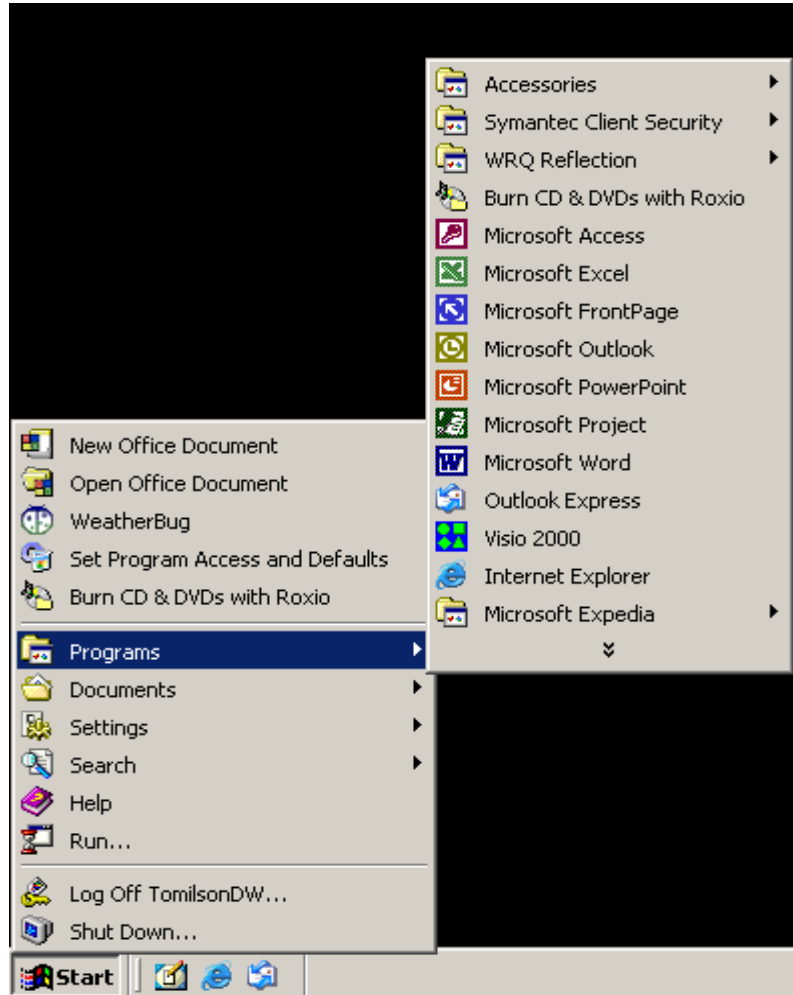
CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

To start a REFLECTION for IBM mainframe 3270 terminal session:

- Click the PC Windows 'Start' button.



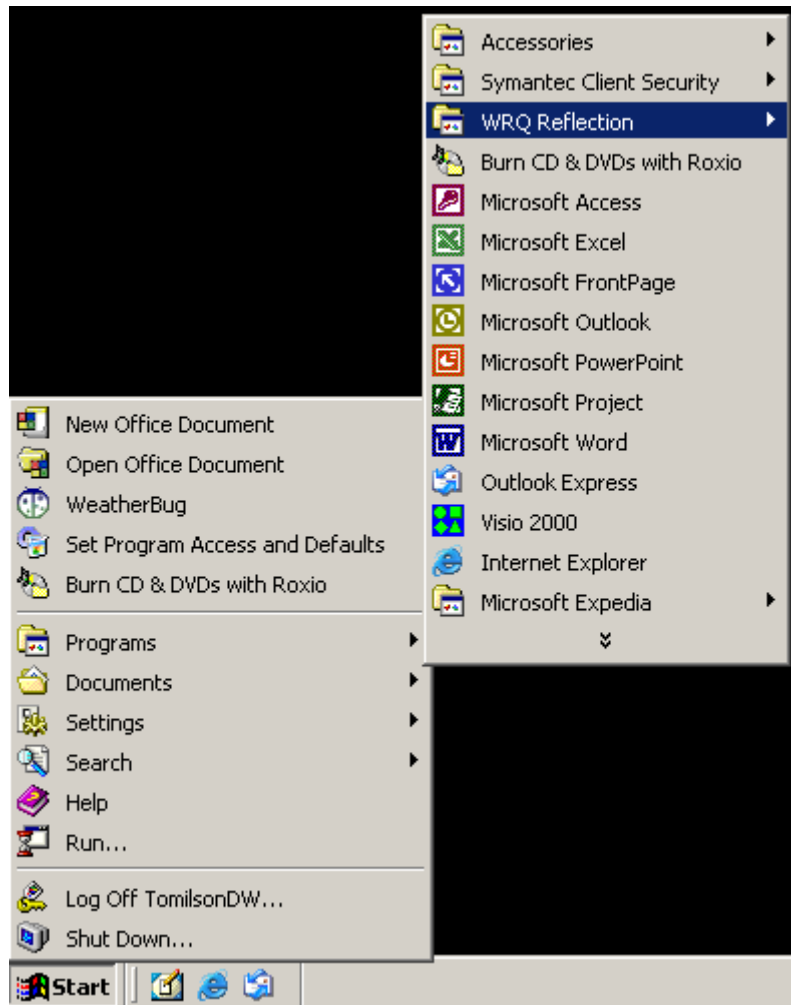
- With your mouse pointer point and click on 'Programs'.



WRQ Inc. Reflection for IBM Version 10.0 User Guide

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

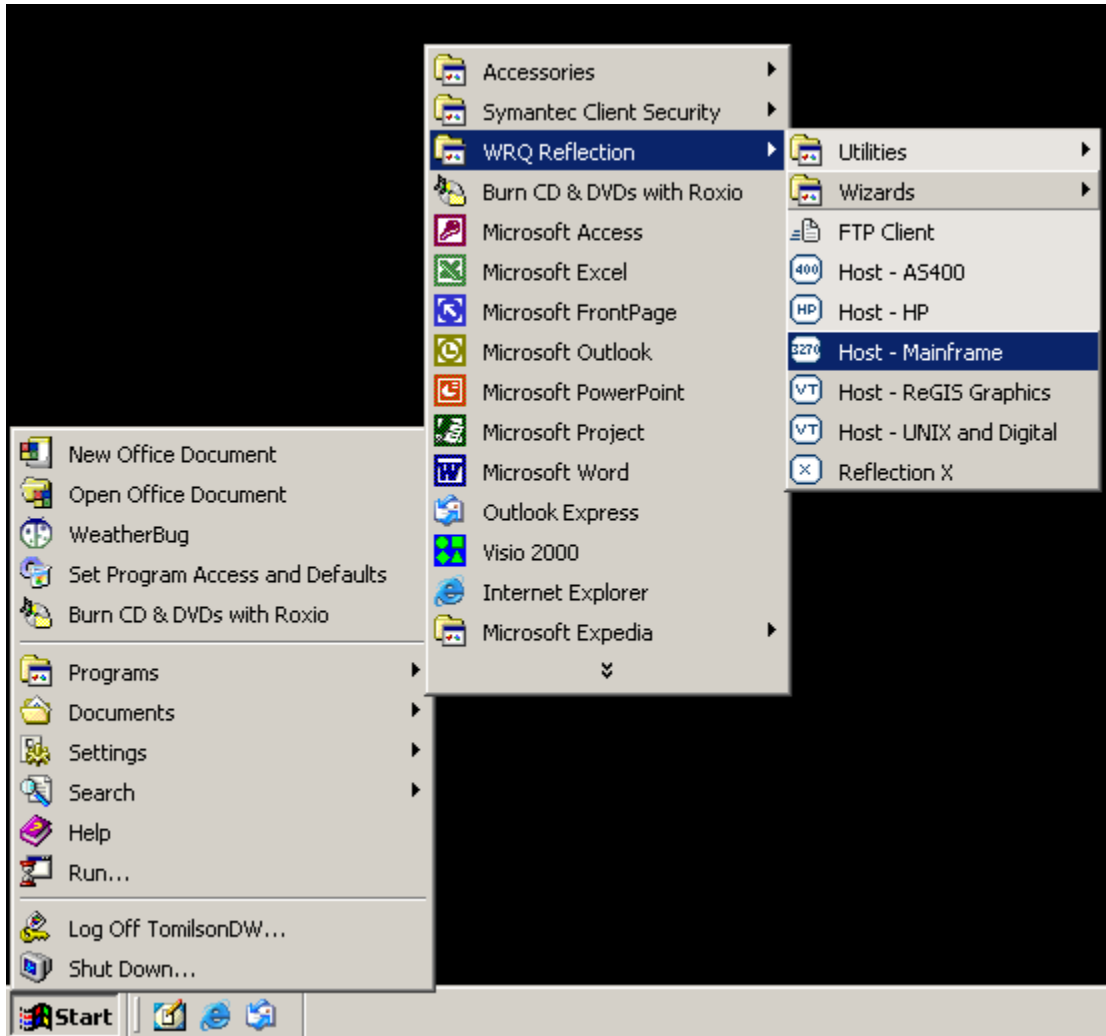
- With your mouse pointer point and click on the folder that contains your WRQ REFLECTION applications.



WRQ Inc. Reflection for IBM Version 10.0 User Guide

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

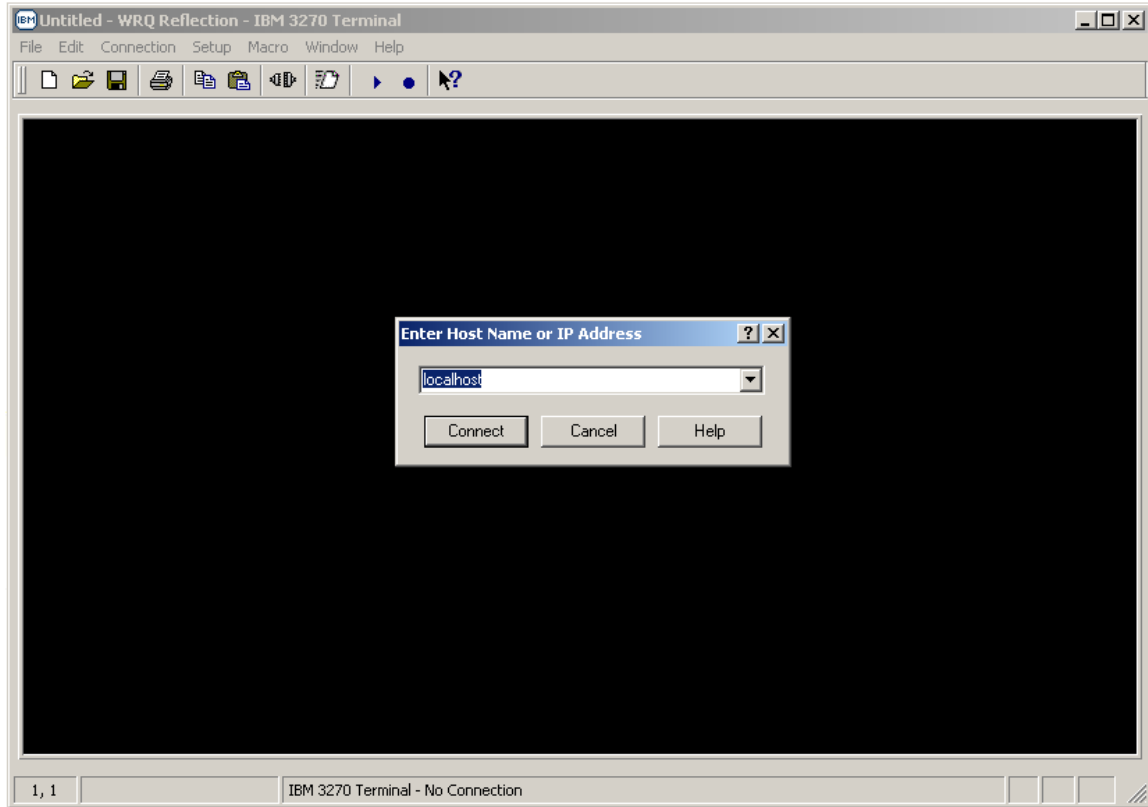
- With your mouse pointer, from the WRQ REFLECTION product menu select and click on '3270 Host - Mainframe'.






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CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

- Once '3270 Host – Mainframe' has been selected, the following screen will appear on your PC Window's desktop:

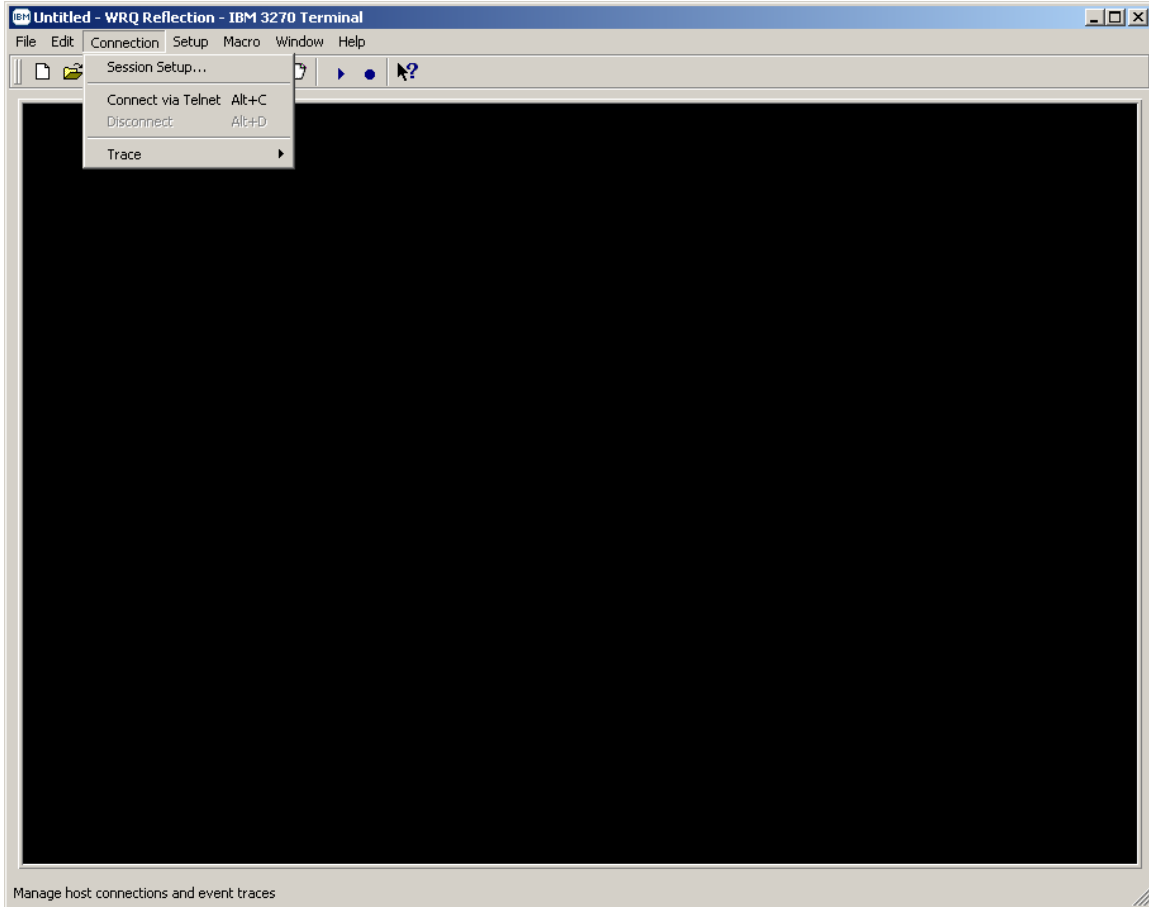


- With your mouse pointer select the  button on the 'Enter Host Name or IP Address' pop-up window.
- Entering either a **Host Name or IP Address** in the drop down block provided and selecting the  button vice the  button will establish an un-secure Telnet 3270 terminal session.
- *Note: Do not establish and /or utilize an un-secure Telnet 3270 terminal or printer session as mainframe login USERID's, Passwords, and all data being transmitted to /from your REFLECTION 3270 client sessions and the mainframe are totally in the clear resulting in information technology and network security vulnerabilities.*

WRQ Inc. Reflection for IBM Version 10.0 User Guide

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

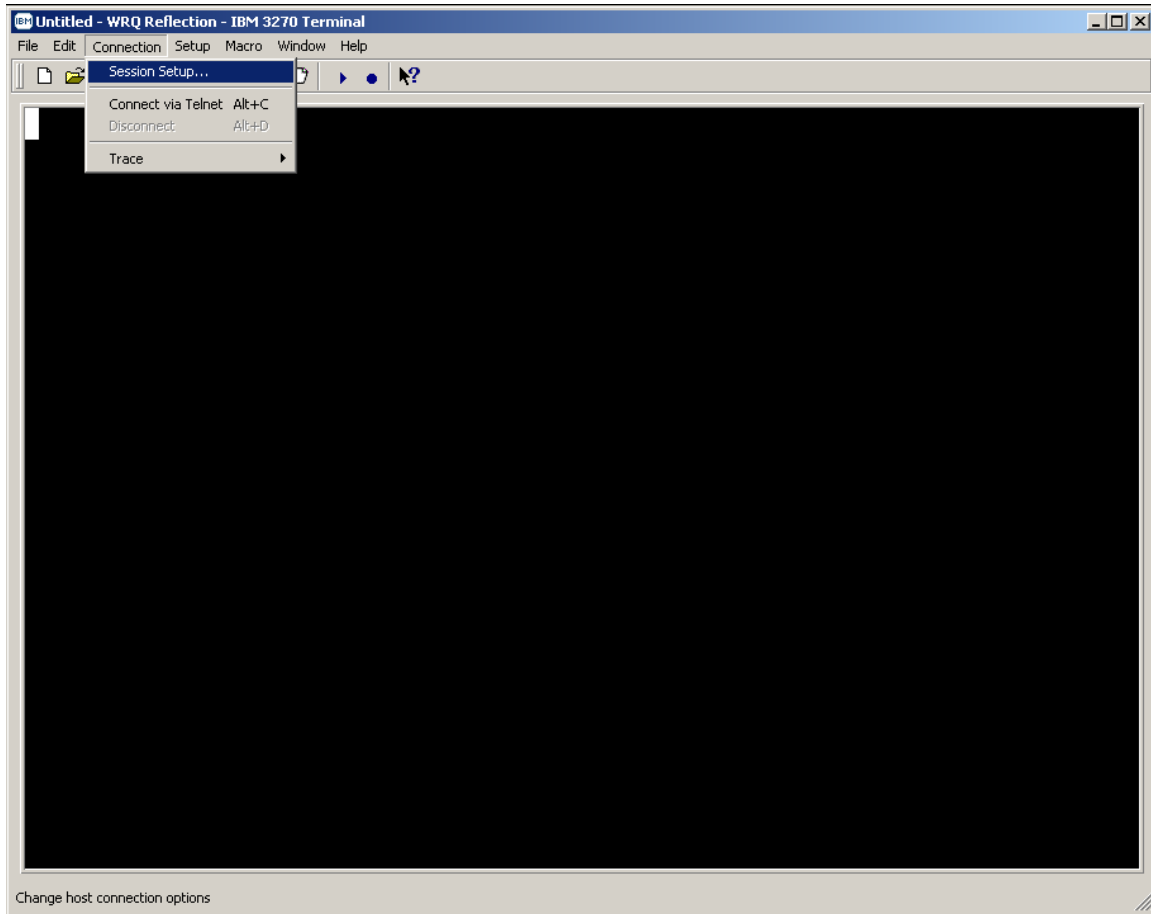
- With your mouse pointer select 'Connection' **Connection** from the top menu on the *3270 Untitled* – *WQR Reflection – IBM 3270 Terminal* display screen.



WRQ Inc. Reflection for IBM Version 10.0 User Guide

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

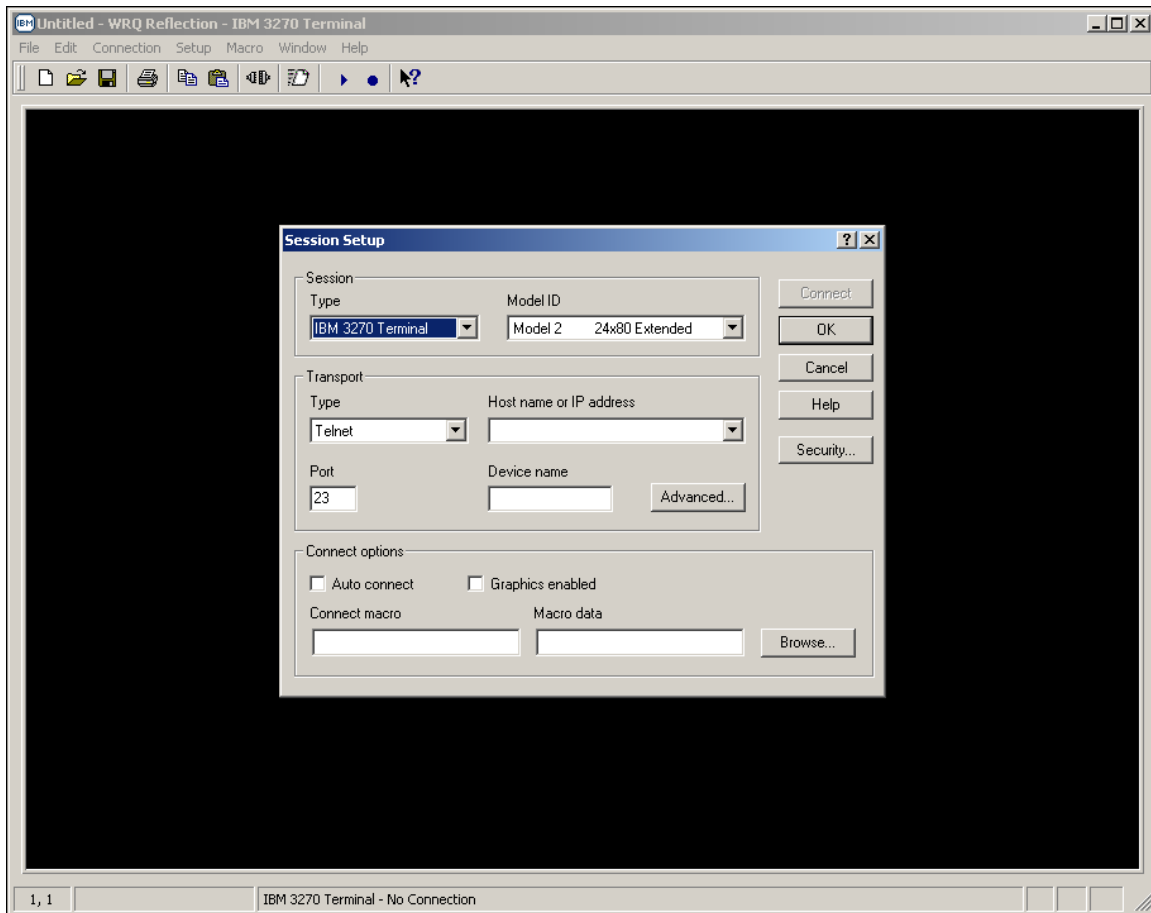
- From the 'Connection' drop down menu of the *3270 Untitled - WRQ Reflection - IBM 3270 Terminal* display screen select 'Session Setup...'



WRQ Inc. Reflection for IBM Version 10.0 User Guide

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

- The following 'Session Setup' Window's pop-up screen will appear:



WRQ Inc. Reflection for IBM Version 10.0 User Guide

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

- The 'Session Setup' properties dialog box will be displayed.

Session Setup [?] [X]

Session

Type: IBM 3270 Terminal Model ID: Model 2 24x80 Extended

Transport

Type: Telnet Host name or IP address: []

Port: 23 Device name: [] Advanced...

Connect options

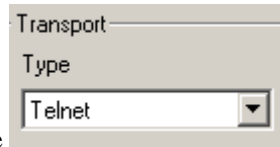
Auto connect Graphics enabled

Connect macro: [] Macro data: [] Browse...

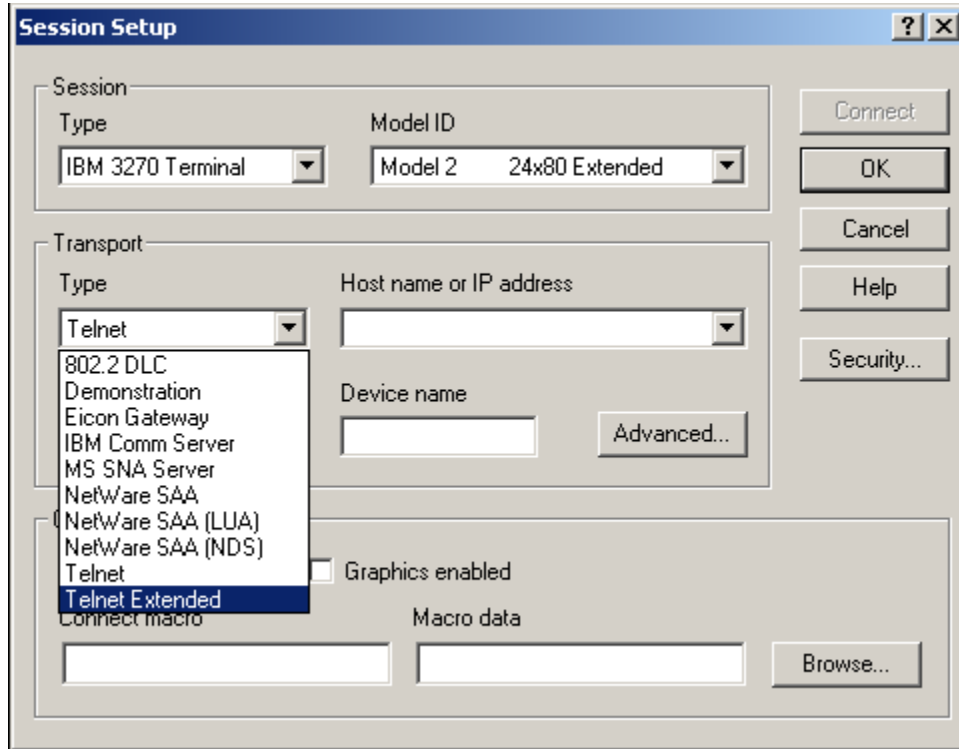
Buttons: Connect, OK, Cancel, Help, Security...

WRQ Inc. Reflection for IBM Version 10.0 User Guide

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH



- Mouse click on the drop down arrow and select '*Telnet Extended*'.



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CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

- The screen image below shows the 'Telnet Extended' option in the 'Transport Type' box once selected.

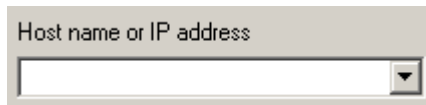
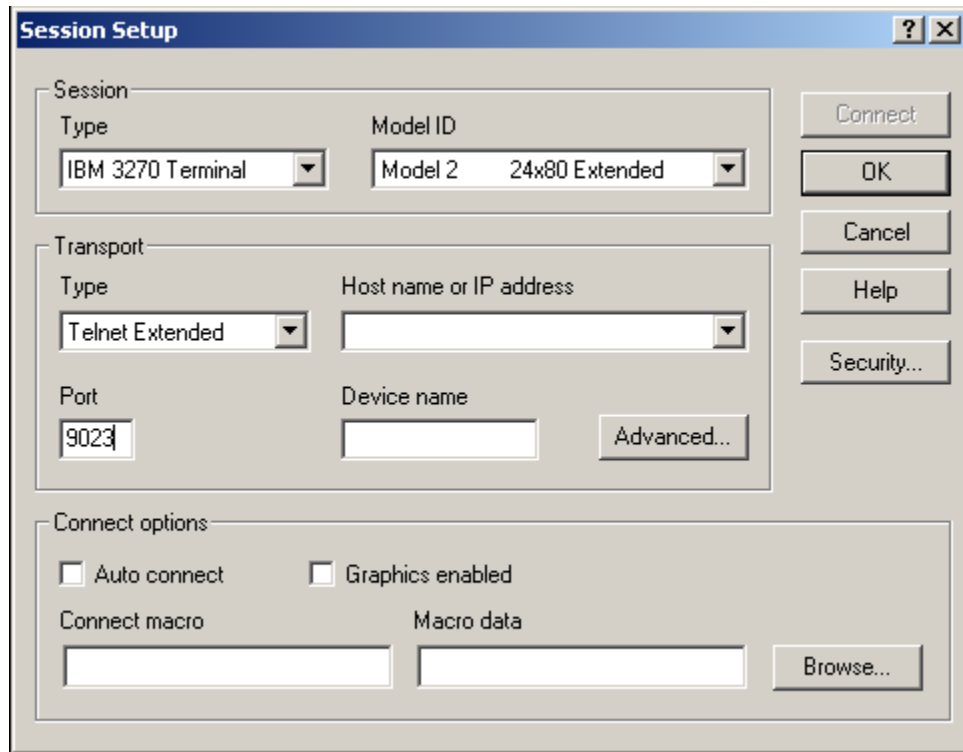
The screenshot shows a 'Session Setup' dialog box with the following fields and controls:


- Session:**
 - Type: IBM 3270 Terminal
 - Model ID: Model 2 24x80 Extended
- Transport:**
 - Type: Telnet Extended
 - Host name or IP address: [Empty]
 - Port: 23
 - Device name: [Empty]
 - Advanced... button
- Connect options:**
 - Auto connect:
 - Graphics enabled:
 - Connect macro: [Empty]
 - Macro data: [Empty]
 - Browse... button
- Buttons:** Connect, OK, Cancel, Help, Security...

Port
23

- Mouse click in the port dialog box, the default telnet port is port # 23, enter '9023' in this dialog box as shown below.

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH



- Mouse click in the  dialog box and enter either the Domain Name Server (DNS) name or TCP/IP address for the host mainframe that you wish to connect to with the Reflection for IBM 3270 terminal emulation.

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CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

- Enter 'msn-ftp.stl.disa.mil' for 3270 terminal connectivity to Marine Corps mainframe-based application located at the Defense Information Service Agency (DISA), Defense Enterprise Computing Center (DECC), St. Louis, MO in this dialog box as shown below.

The screenshot shows the 'Session Setup' dialog box with the following configuration:


- Session:** Type: IBM 3270 Terminal; Model ID: Model 2 24x80 Extended
- Transport:** Type: Telnet Extended; Host name or IP address: msn-ftp.stl.disa.mil; Port: 9023; Device name: (empty); Advanced... button
- Connect options:** Auto connect: ; Graphics enabled: ; Connect macro: (empty); Macro data: (empty); Browse... button

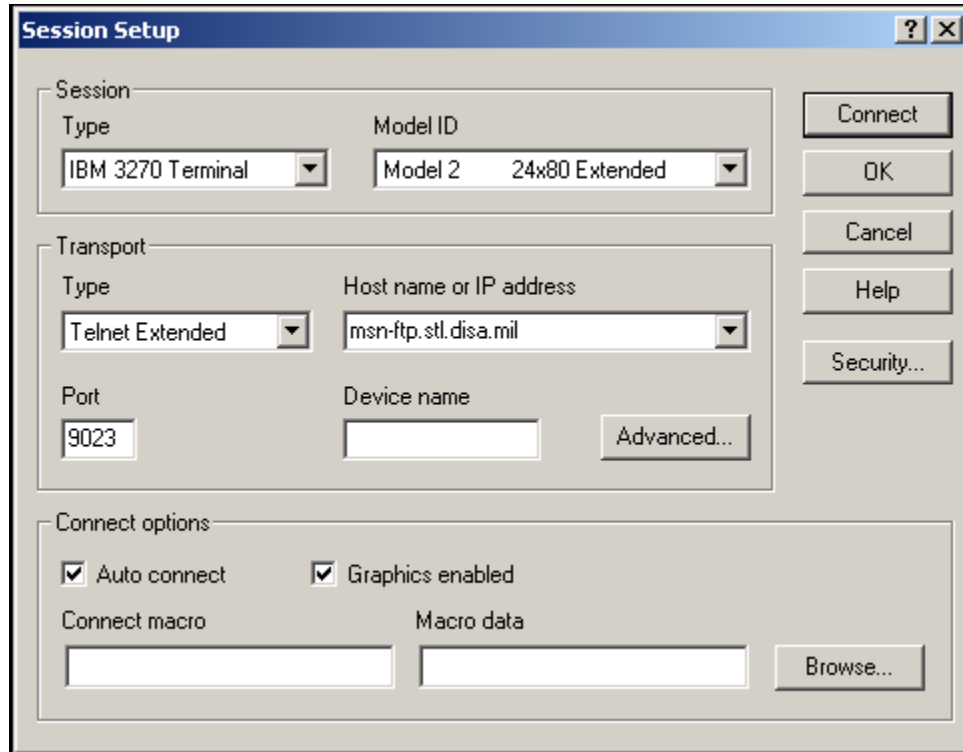
Device name

- Mouse click in the *Device name* dialog box and enter the mainframe VTAM terminal Logical Unit (LU) address that has been assigned (**dedicated** / **“nailed”**) to you or your organization as shown in the example on pages 54 through 57, if you are an end-user that must establish a dedicated / “nailed” 3270 terminal session.
- **Note:** Skip this step and continue below if you do not require a dedicated / “nailed” 3270 terminal session.

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CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

- Under 'Connect options'  mouse click the check boxes on 'Auto connect' and 'Graphics enabled' as shown below



The screenshot shows the 'Session Setup' dialog box with the following configuration:

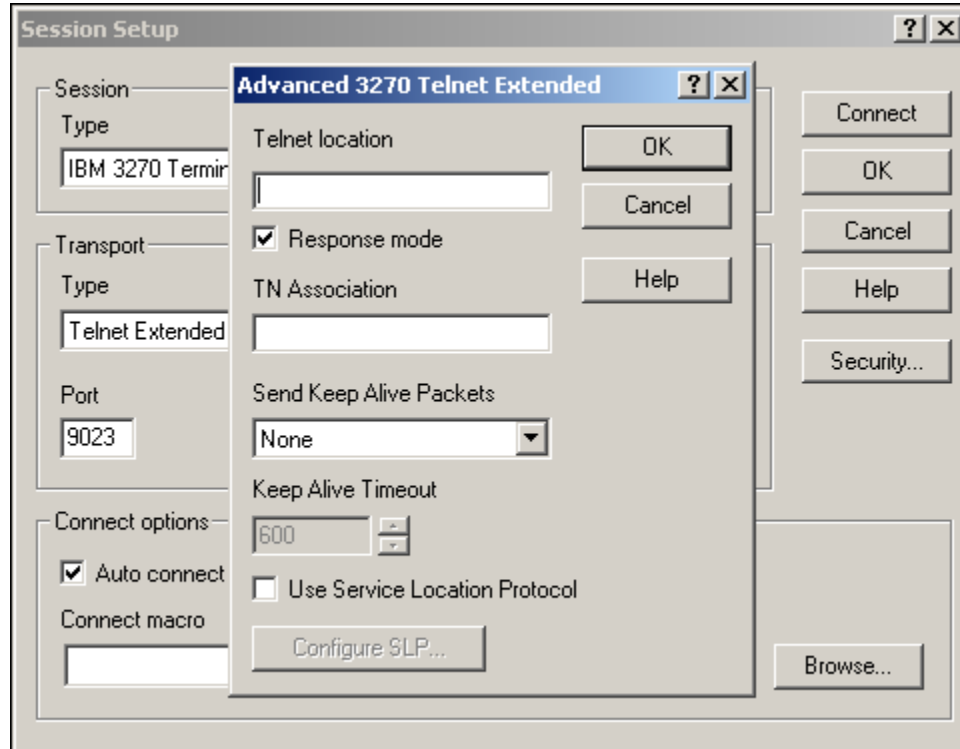
- Session:**
 - Type: IBM 3270 Terminal
 - Model ID: Model 2 24x80 Extended
- Transport:**
 - Type: Telnet Extended
 - Host name or IP address: msn-ftp.stl.disa.mil
 - Port: 9023
 - Device name: (empty)
- Connect options:**
 - Auto connect:
 - Graphics enabled:
 - Connect macro: (empty)
 - Macro data: (empty)

Buttons on the right side: Connect, OK, Cancel, Help, Security...
Buttons at the bottom: Advanced..., Browse...

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CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

- Mouse click on the **Advanced...** button and the '*Advanced 3270 Telnet Extended*' windows pop-up dialog box will appear as shown below.

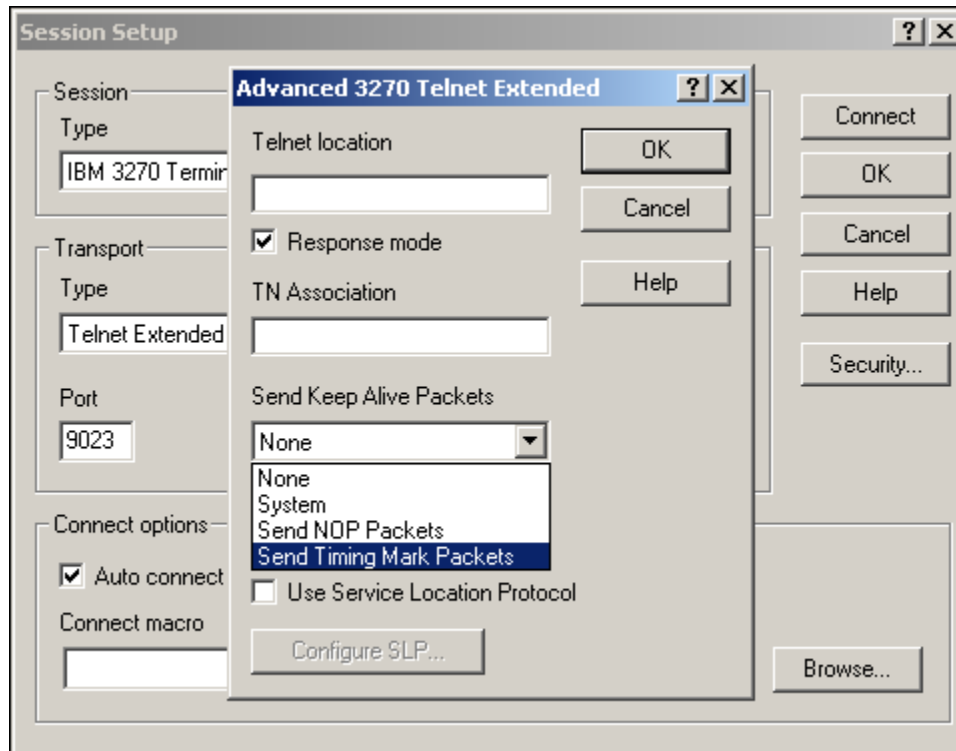


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CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH



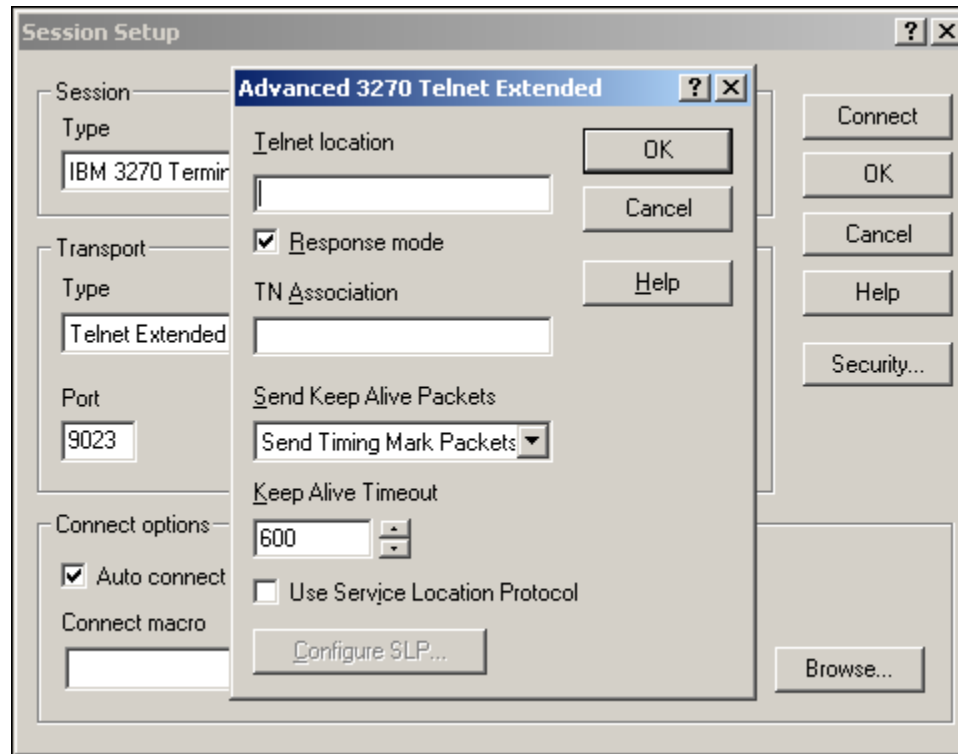
- Mouse click on the drop down arrow and select '*Send Timing Marker Packets*' as shown below.

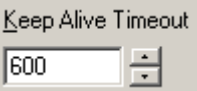



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CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

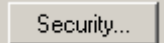
- The screen image below shows the 'Send Timing Mark Packets' option in the 'Send Keep Alive Packets' box once selected.

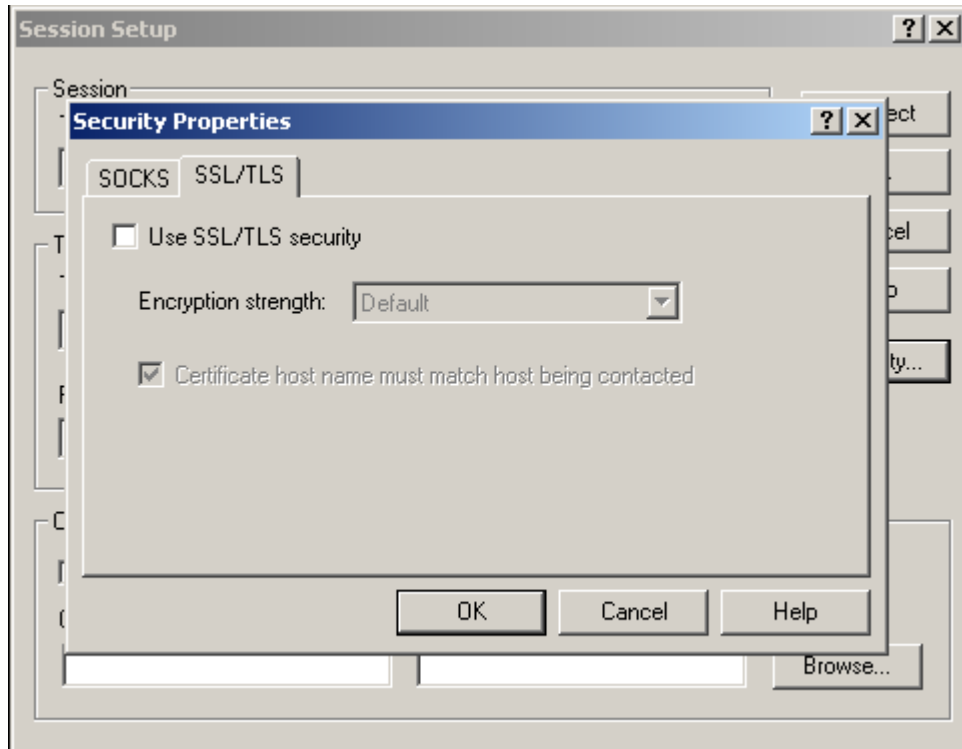


- Leave the  time set to **600** seconds and mouse click on the  button to complete and close the 'Advanced 3270 Telnet Extended' windows pop-up dialog box.

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CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

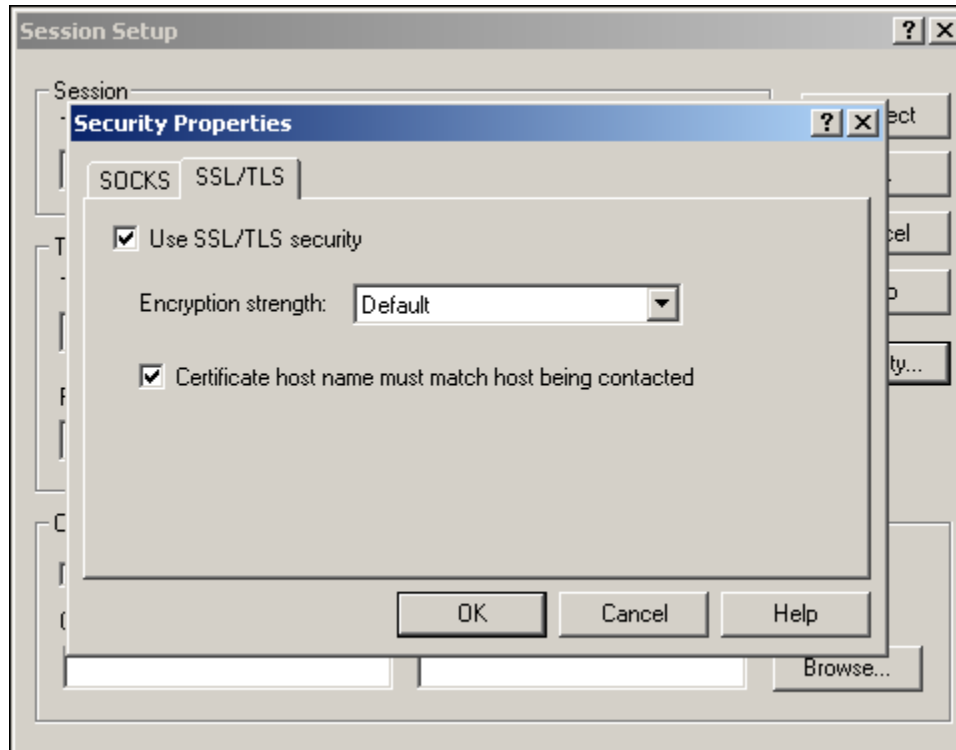
- Mouse click on the  button of the 'Session Setup' dialog box and the 'Security Properties' windows pop-up dialog box will appear as shown below.



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CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

- Select the 'SSL/TLS' tab and mouse click on the Use SSL/TLS security check box as shown below.

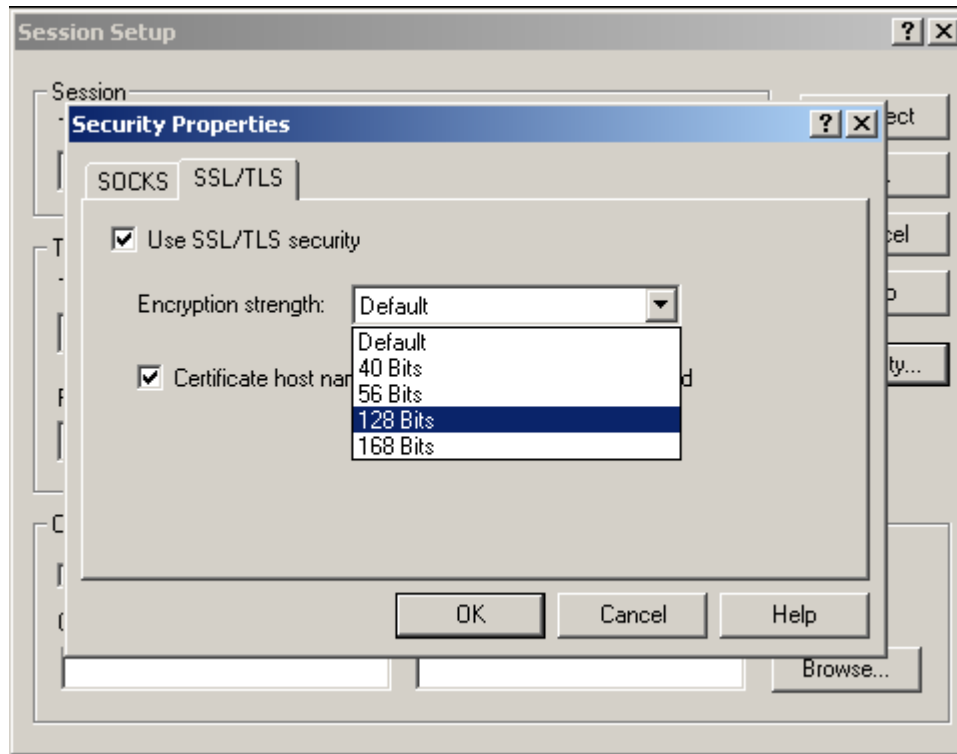


- Once the Use SSL/TLS security check box has been checked the 'Encryption strength' dialog box will become un-shadowed and the drop down box and arrow will become unprotected and fully functional.

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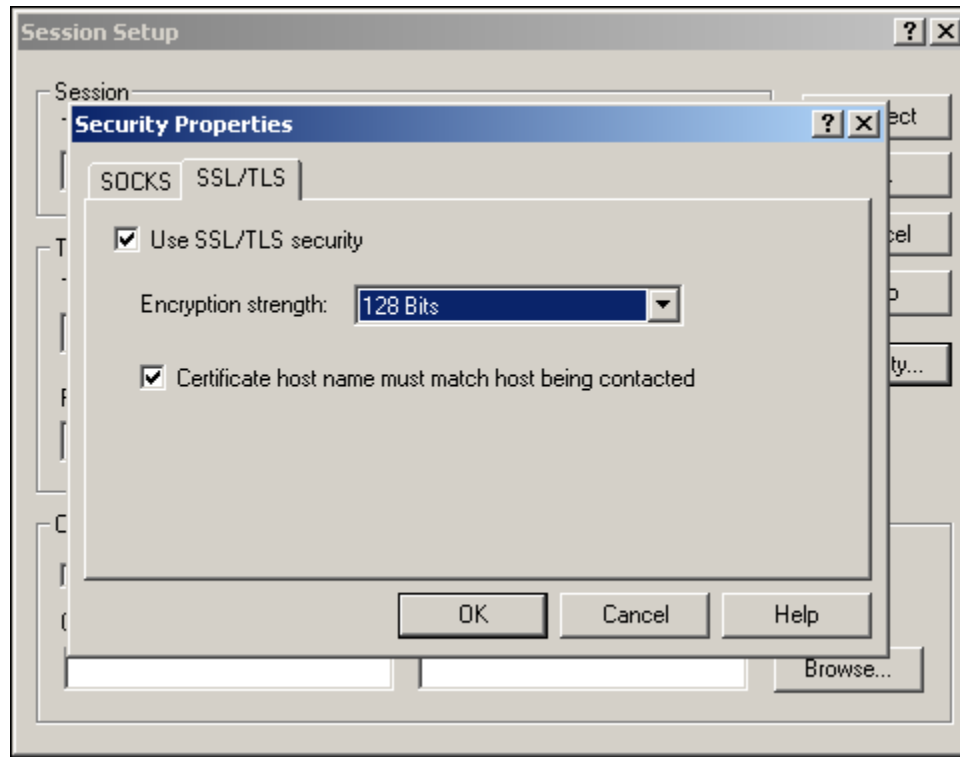
CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

- Mouse click on the '*Encryption strength*' dialog box's drop down arrow and select '*128 Bits*' as your encryption strength as shown below.



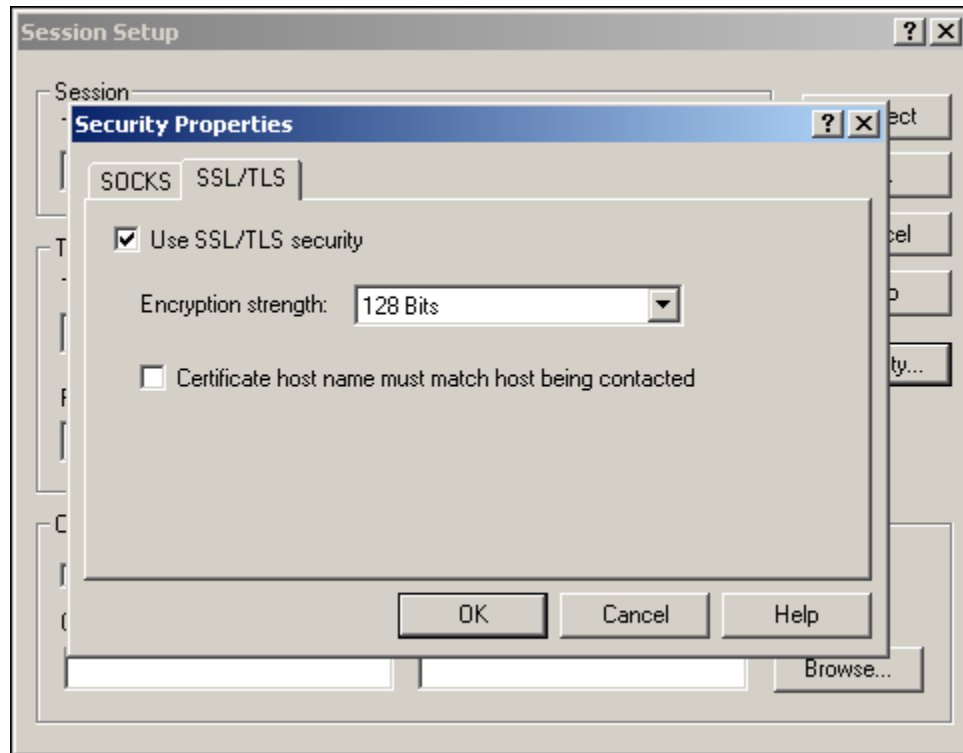
- Once '*128 Bits*' has been selected as your encryption strength the screen will appear as shown below.

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH



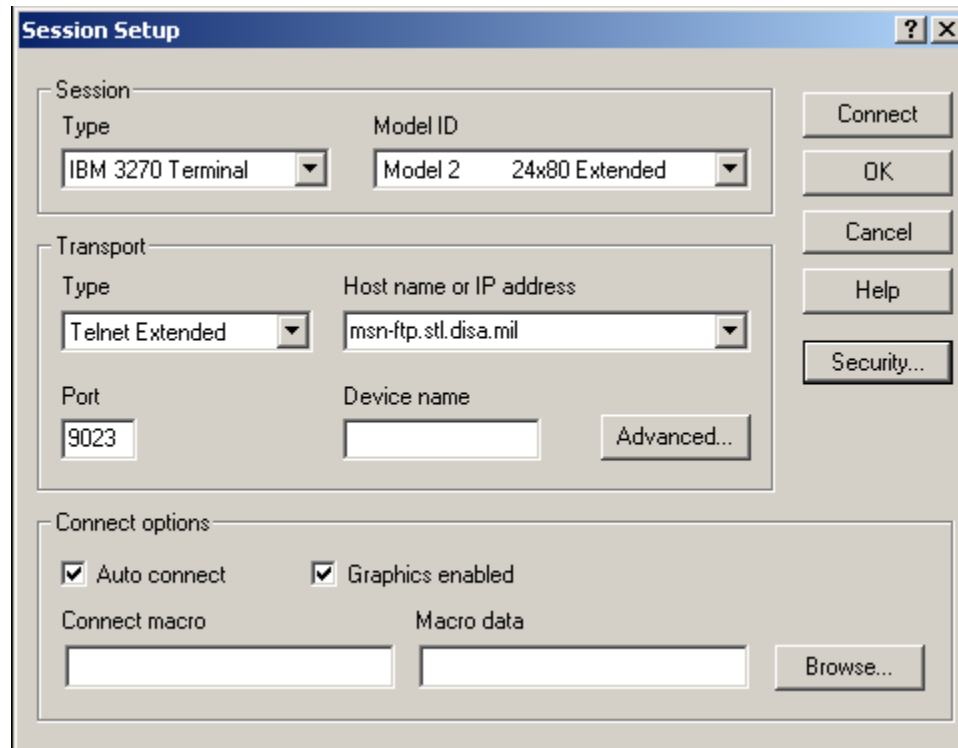
- Mouse click on and un-check the Certificate host name must match host being contacted check box as shown below.

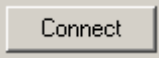
CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH



- Once the Certificate host name must match host being contacted check box is un-checked as shown above, mouse click on the button to complete and close the '*Security Properties*' windows pop-up dialog box and return you to the '*Session Setup*' windows pop-up dialog box as shown below.

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH



- Mouse click on the  button located on the *'Session Setup'* windows pop-up dialog box to complete the session's setup and to establish the session's connection as shown in the display below.

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CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

The screenshot shows a terminal window titled "Untitled - WRQ Reflection - IBM 3270 Terminal". The window contains the following text:

```
USE OF THIS OR ANY OTHER DEPARTMENT OF DEFENSE INTEREST COMPUTER SYSTEM
(DODICS) CONSTITUTES YOUR CONSENT TO MONITORING BY DOD AUTHORIZED PERSONNEL
FOR COMPUTER SECURITY AND SYSTEM MANAGEMENT PURPOSES. THIS DODICS AND ALL
RELATED EQUIPMENT ARE TO BE USED FOR THE COMMUNICATIONS, TRANSMISSION,
PROCESSING, MANIPULATION, AND STORAGE OF OFFICIAL U.S. GOVERNMENT OR OTHER
AUTHORIZED INFORMATION ONLY. UNAUTHORIZED USE OF THIS COMPUTER MAY SUBJECT
YOU TO CRIMINAL PROSECUTION AND PENALTIES.
```

SB - QUANTICO	SD - DITCO	SE - OKINAWA	SF - KANSAS CITY
SG - LEJEUNE	SH - PENDLETON	SI - ALBANY	SK - ASIMS-S
SL - ASIMS-E	SM - ASIMS-W	SO - ARDEC	SP - ARL
SO - ASIMS-C	SR - OSC-S/DFAS	ST - AMCOM/SBCCOM	SU - OSC-R
SV - RIA	SW - FAR EAST	SX - TEAD	SY - TACOM
QA - SSO DAYTON	QC - ASIMS-T	QD - ASIMS-H	QE - ANAD
QF - CCAD	QG - RRAD	QH - CECOM	QI - LEAD
QJ - TYAD	QK - LOGSA	QL - AMCOM-M	QR - NAMI
X - SNI MENU			

HELPDESK DSN: 490-0000 COMM: 314-260-0000
TOLL FREE: 800-645-5032

ENTER SELECTION =>

TI | >>↑ 0 24,42

24, 42 IBM 3270 Terminal - msn-ftp.stl.dsa.mil via Telnet Extended

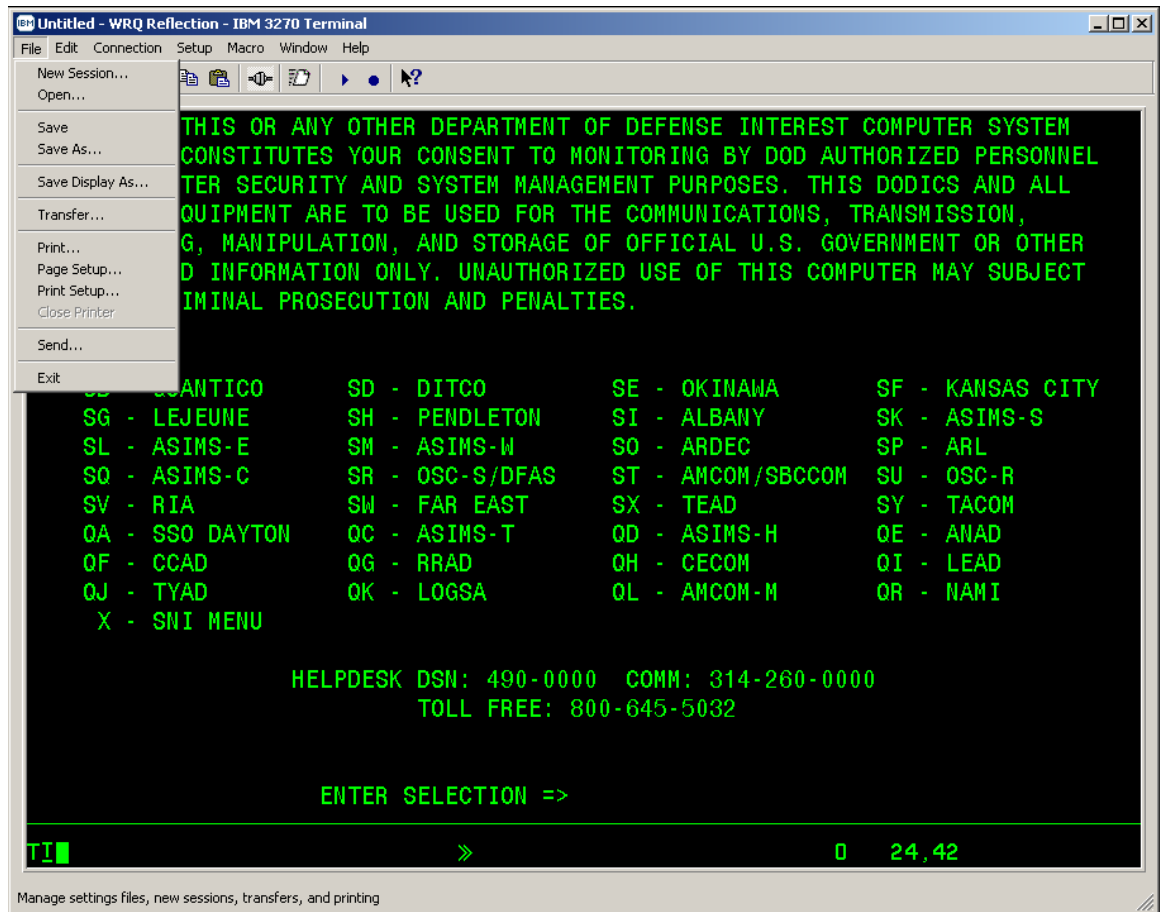
- Note that the top line session name indicates this is an untitled / unsaved WRQ Reflection – IBM 3270 Terminal session configuration file as shown below.



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CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

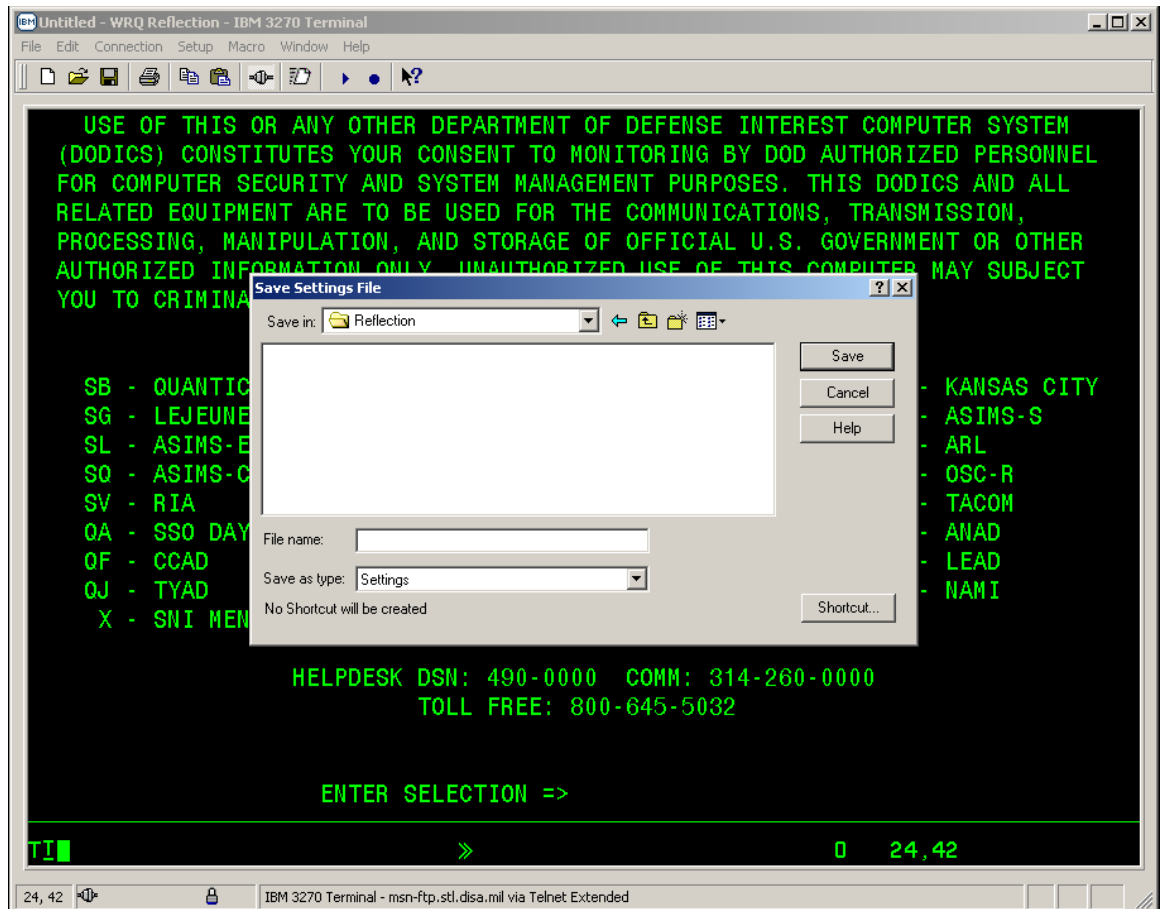
- From the 'File' drop down menu of the 3270 Untitled – WQR Reflection – IBM 3270 Terminal display screen select 'Save as...'



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CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

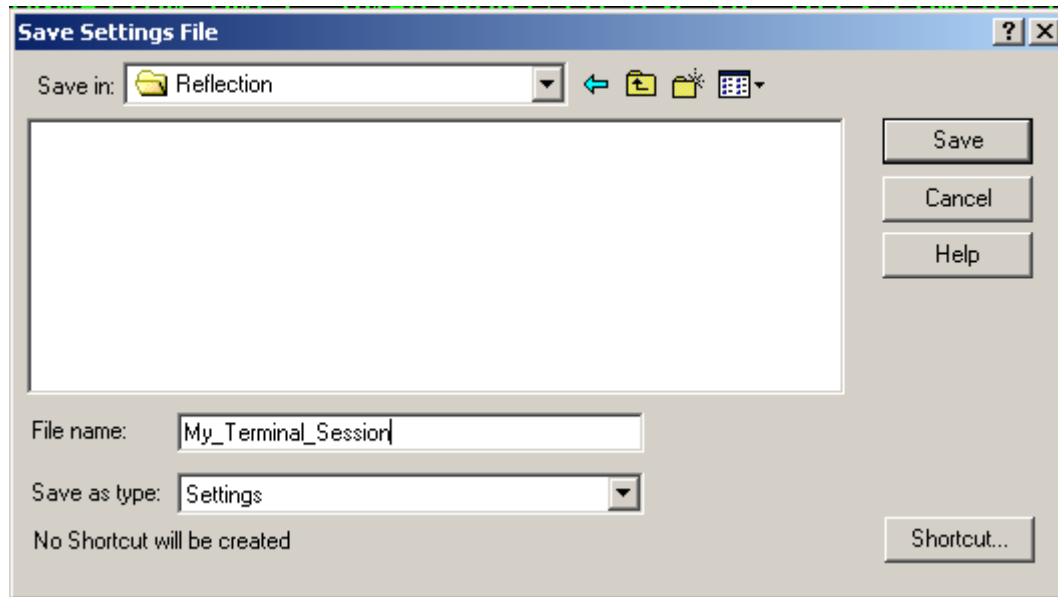
- The following 'Save Settings File' Window's pop-up screen will appear:




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CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

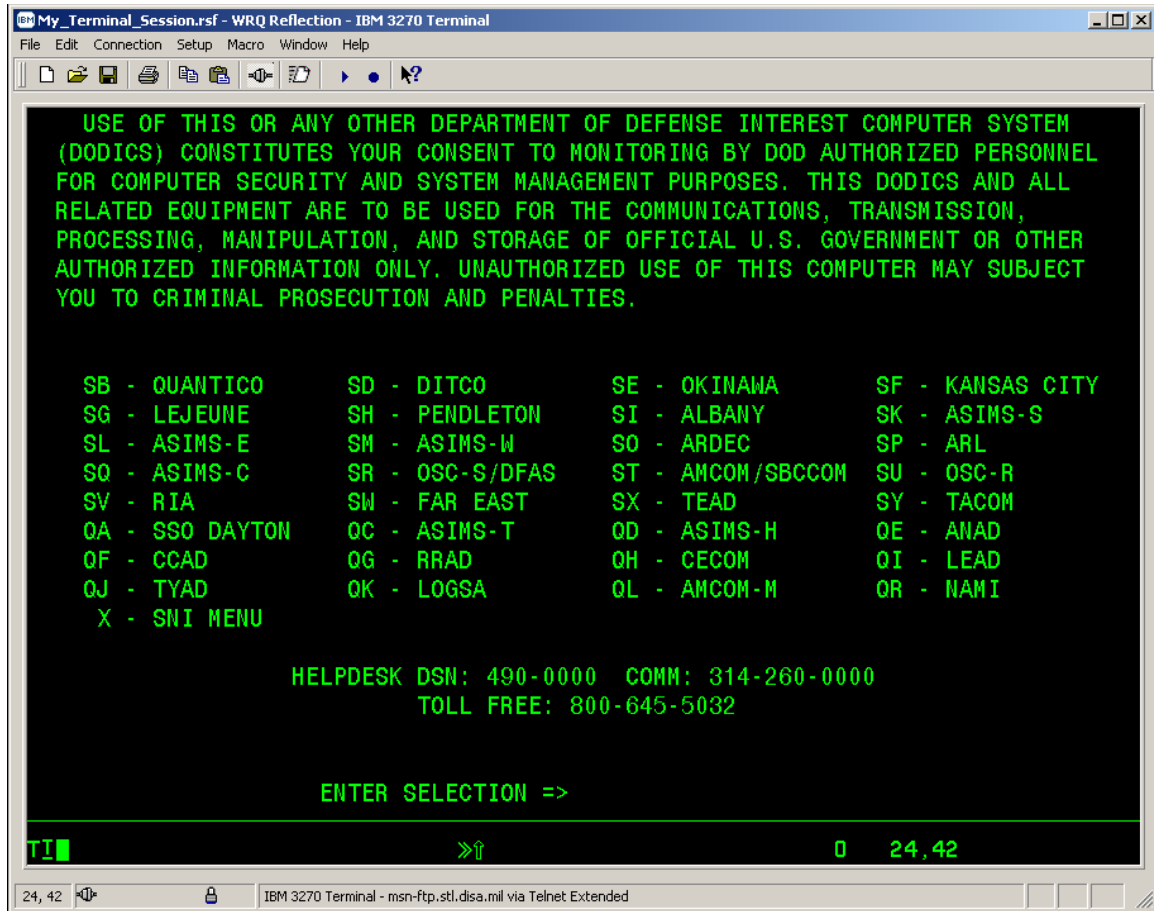
- Mouse click in the '**File name**' box and enter the name that you want this WRQ Reflection – IBM 3270 Terminal session configuration file to have, leave the '**Save as type:**' dialog box set to '**Settings**' as shown in the example below.



- Once completed mouse click on the  button to save this WRQ Reflection – IBM 3270 Terminal session configuration file to the file name entered in the '**File name**' box as shown below.

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CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH



The screenshot shows a terminal window titled "My_Terminal_Session.rsf - WRQ Reflection - IBM 3270 Terminal". The window contains the following text:

```
USE OF THIS OR ANY OTHER DEPARTMENT OF DEFENSE INTEREST COMPUTER SYSTEM
(DODICS) CONSTITUTES YOUR CONSENT TO MONITORING BY DOD AUTHORIZED PERSONNEL
FOR COMPUTER SECURITY AND SYSTEM MANAGEMENT PURPOSES. THIS DODICS AND ALL
RELATED EQUIPMENT ARE TO BE USED FOR THE COMMUNICATIONS, TRANSMISSION,
PROCESSING, MANIPULATION, AND STORAGE OF OFFICIAL U.S. GOVERNMENT OR OTHER
AUTHORIZED INFORMATION ONLY. UNAUTHORIZED USE OF THIS COMPUTER MAY SUBJECT
YOU TO CRIMINAL PROSECUTION AND PENALTIES.
```

SB - QUANTICO	SD - DITCO	SE - OKINAWA	SF - KANSAS CITY
SG - LEJEUNE	SH - PENDLETON	SI - ALBANY	SK - ASIMS-S
SL - ASIMS-E	SM - ASIMS-W	SO - ARDEC	SP - ARL
SO - ASIMS-C	SR - OSC-S/DFAS	ST - AMCOM/SBCCOM	SU - OSC-R
SV - RIA	SW - FAR EAST	SX - TEAD	SY - TACOM
QA - SSO DAYTON	QC - ASIMS-T	QD - ASIMS-H	QE - ANAD
QF - CCAD	QG - RRAD	QH - CECOM	QI - LEAD
QJ - TYAD	OK - LOGSA	OL - AMCOM-M	OR - NAMI
X - SNI MENU			

HELPDESK DSN: 490-0000 COMM: 314-260-0000
TOLL FREE: 800-645-5032

ENTER SELECTION =>

TI 0 24,42

- In this example the file name in the 'File name' box is 'My_Terminal_Session' as appears on the top line of the display shown below.

IBM My_Terminal_Session.rsf - WRQ Reflection - IBM 3270 Terminal

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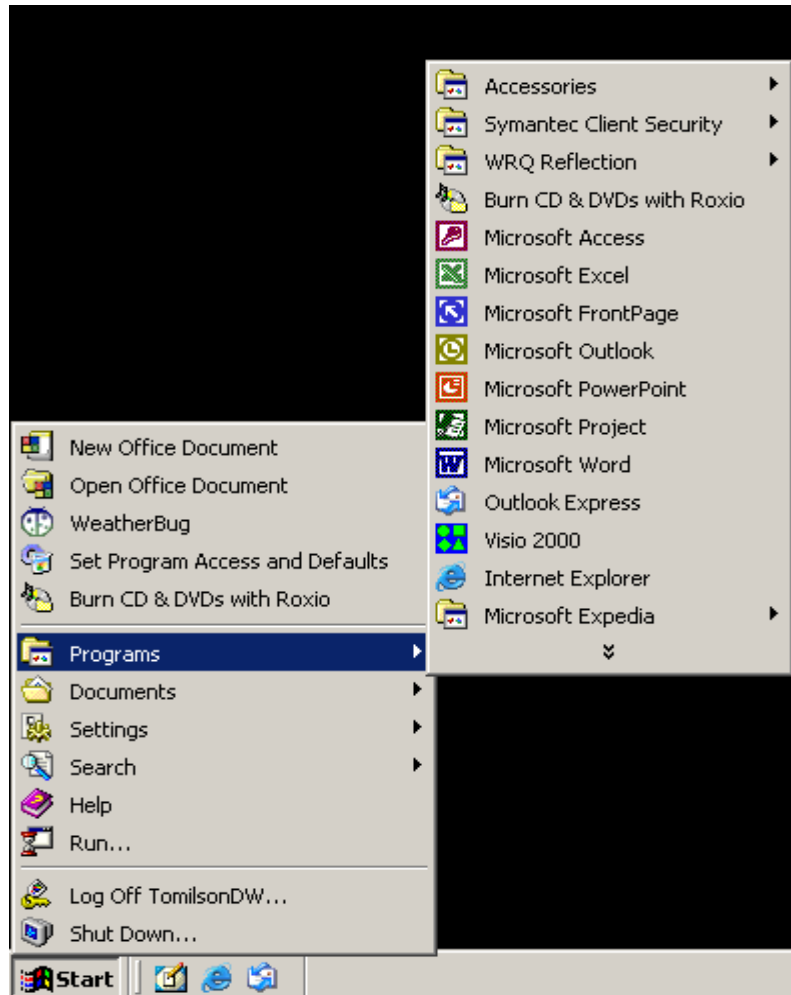
CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

To start a REFLECTION for IBM mainframe 3270 printer session:

- Click the PC Windows 'Start' button.



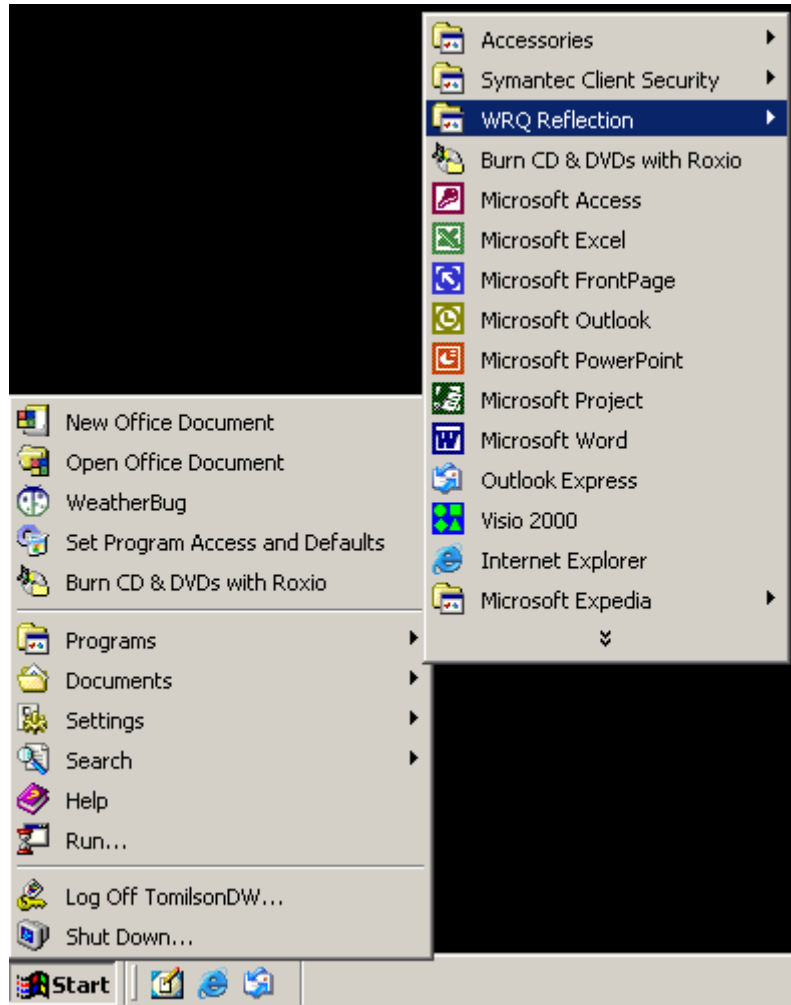
- With your mouse pointer point and click on 'Programs'.



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CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

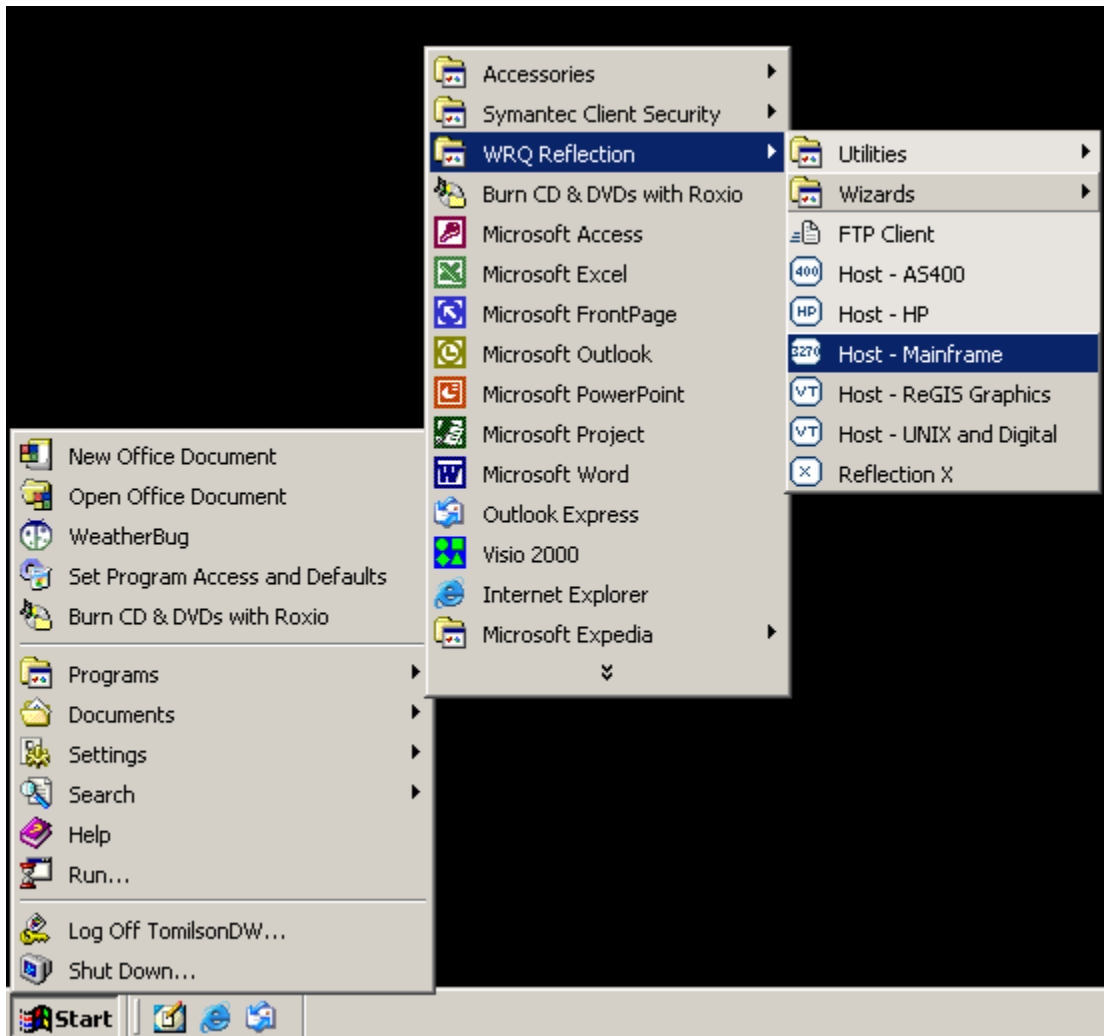
- With your mouse pointer point and click on the folder that contains your WRQ REFLECTION applications.



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CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

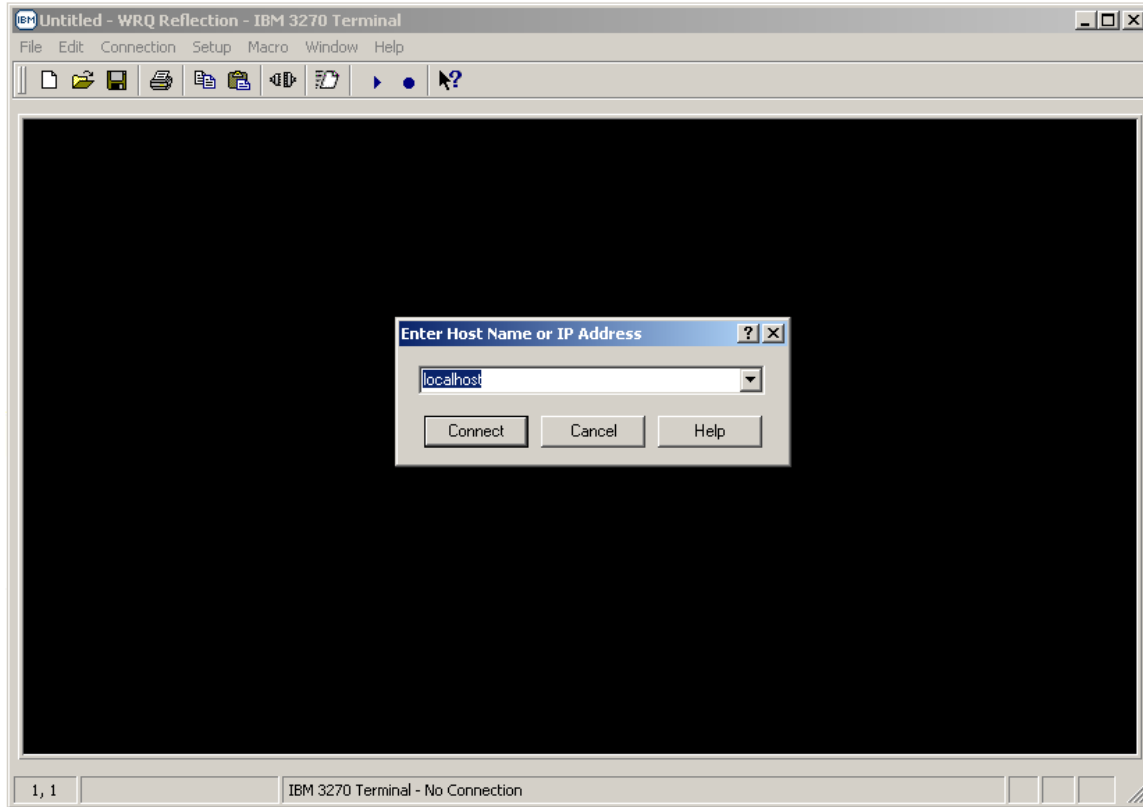
- With your mouse pointer, from the WRQ REFLECTION product menu select and click on '3270 Host - Mainframe'.






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CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

- Once '3270 Host – Mainframe' has been selected, the following screen will appear on your PC Window's desktop:

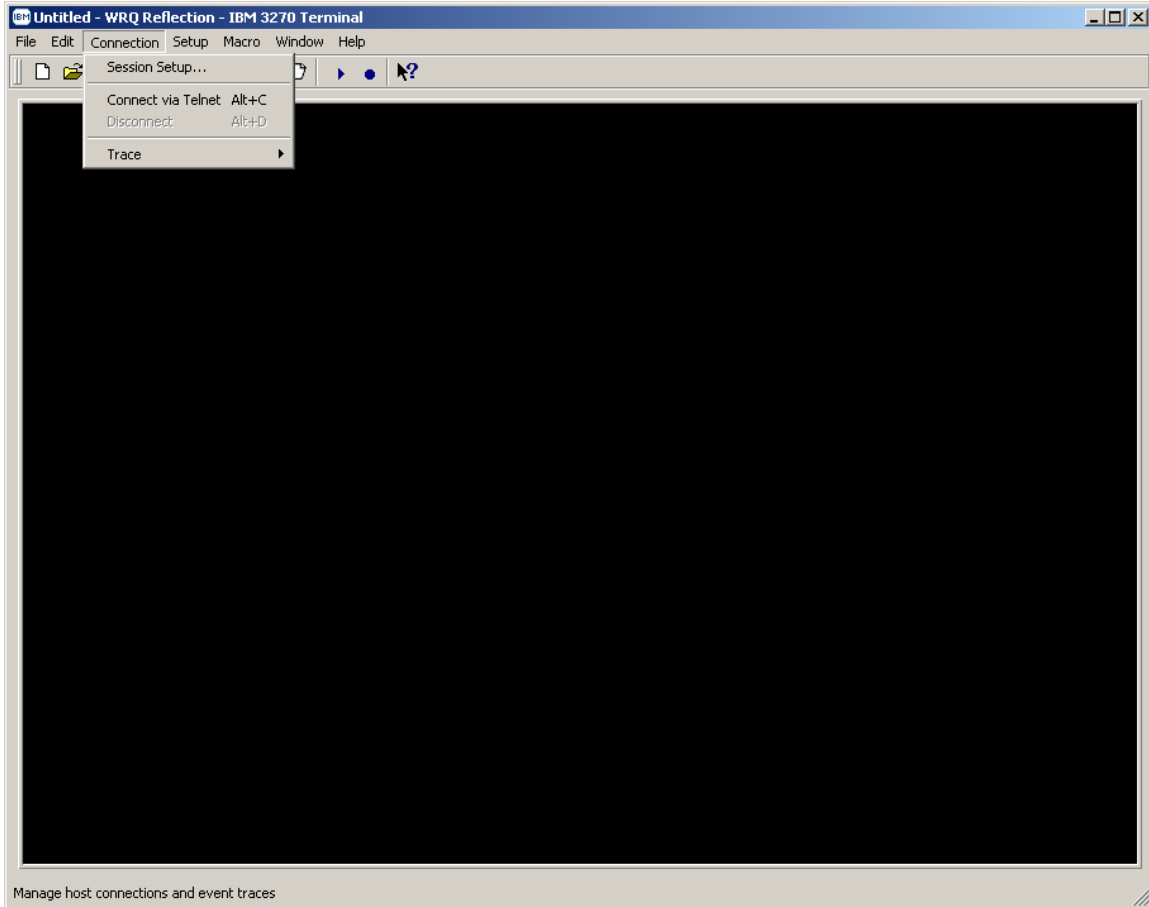


- With your mouse pointer select the  button on the 'Enter Host Name or IP Address' pop-up window.
- Entering either a **Host Name or IP Address** in the drop down block provided and selecting the  button vice the  button will establish an un-secure Telnet 3270 printer session.
- *Note: Do not establish and /or utilize an un-secure Telnet 3270 terminal or printer session as mainframe login USERID's, Passwords, and all data being transmitted to /from your REFLECTION 3270 client sessions and the mainframe are totally in the clear resulting in information technology and network security vulnerabilities.*

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CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

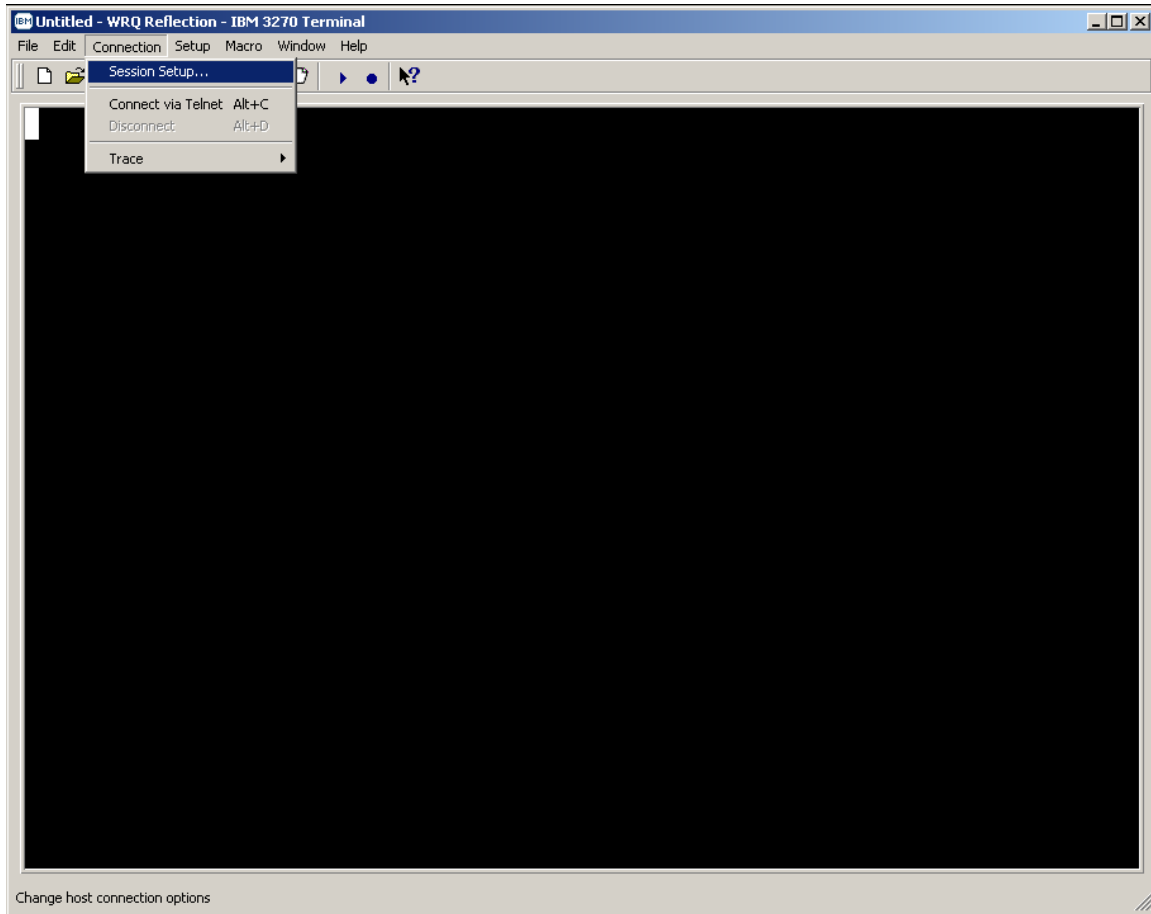
- With your mouse pointer select 'Connection' **Connection** from the top menu on the *3270 Untitled - WRQ Reflection - IBM 3270 Terminal* display screen.



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CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

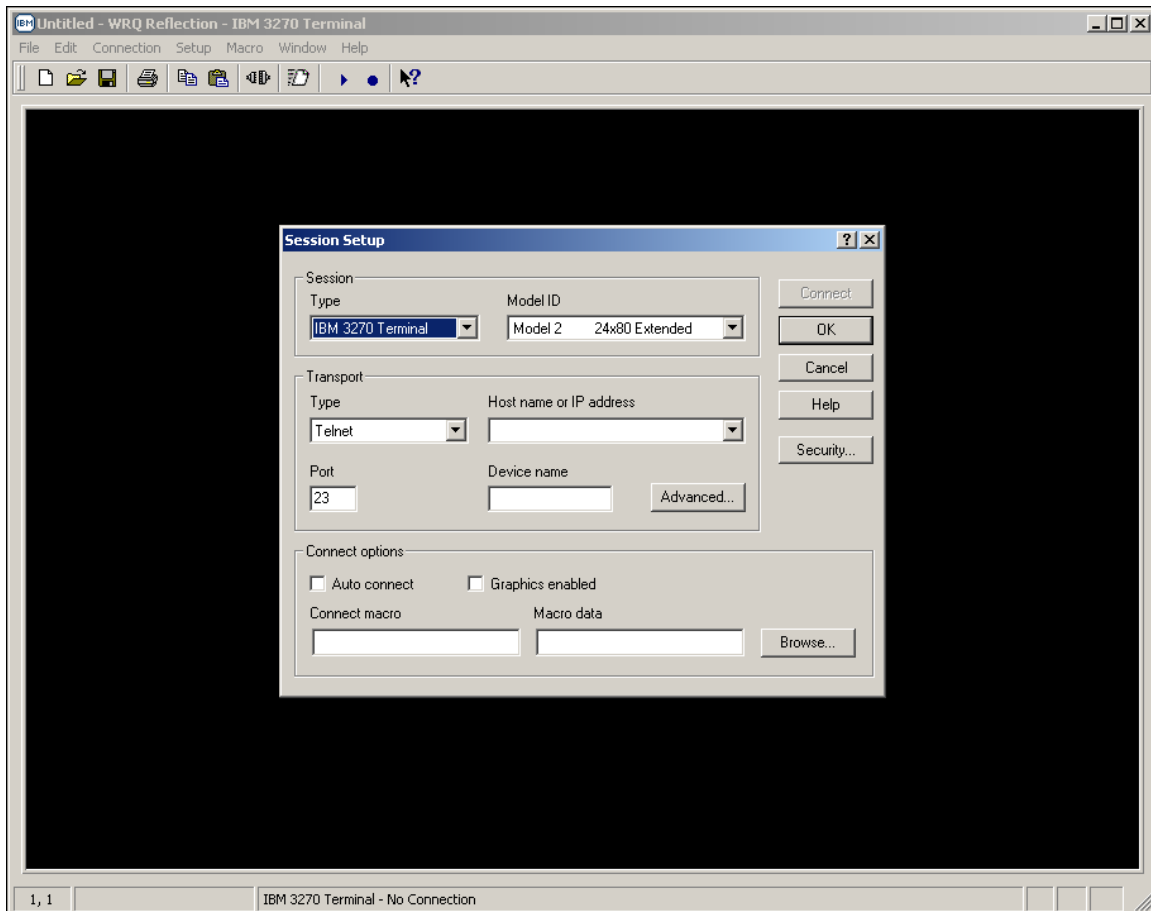
- From the 'Connection' drop down menu of the *3270 Untitled – WQR Reflection – IBM 3270 Terminal* display screen select 'Session Setup...'



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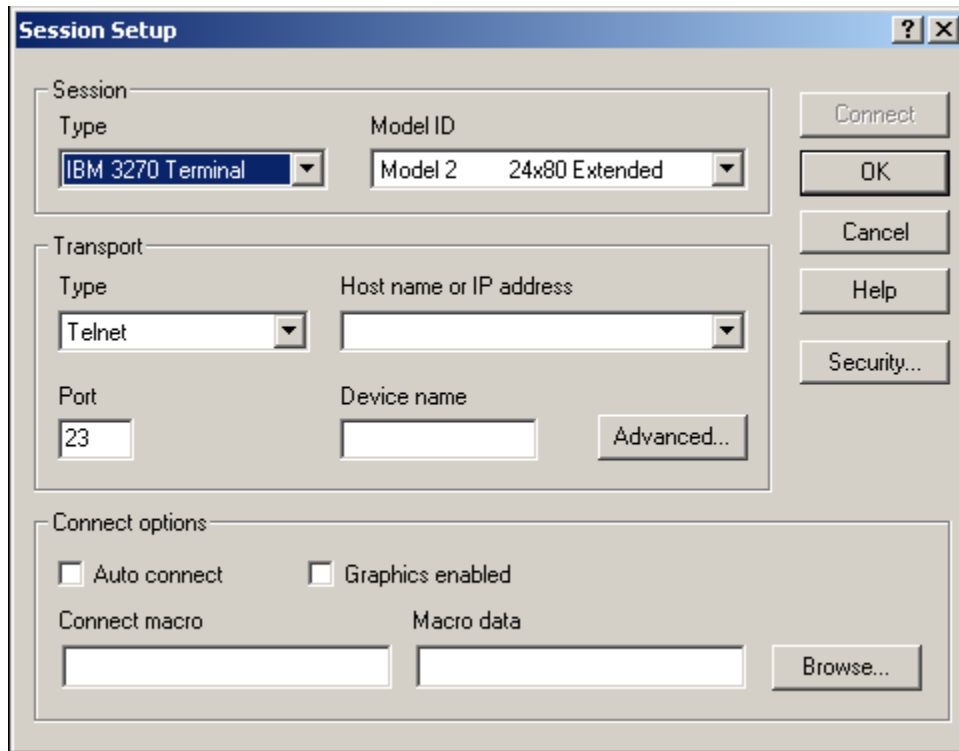
CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

- The following 'Session Setup' Window's pop-up screen will appear:



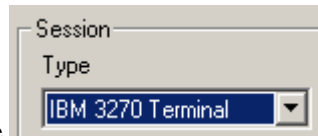
CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

- The 'Session Setup' properties dialog box will be displayed.

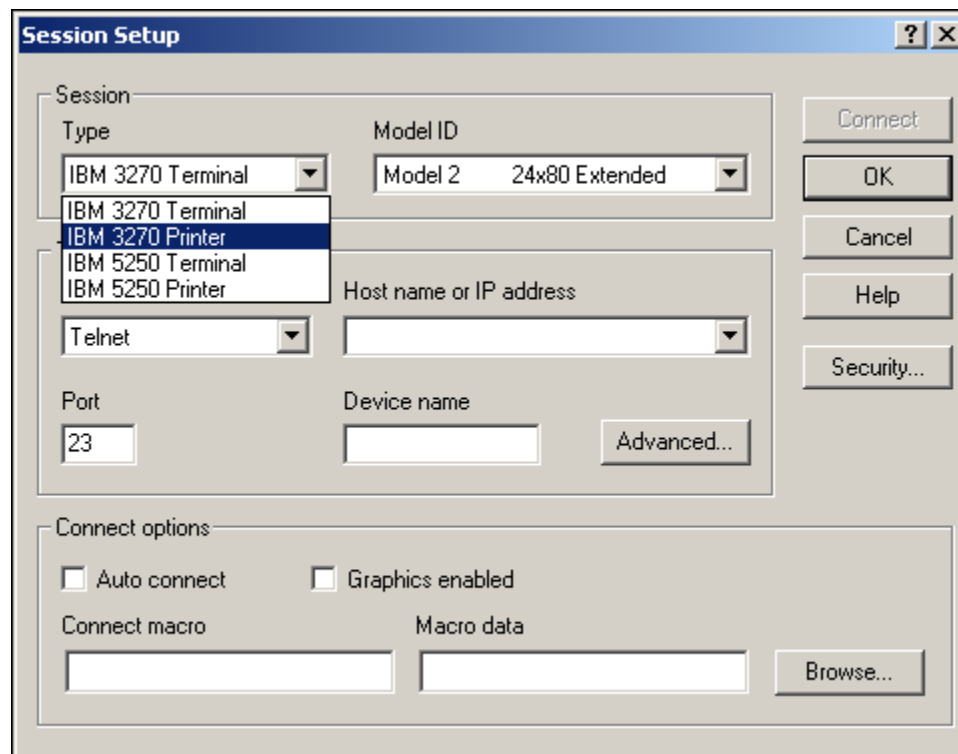


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CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH



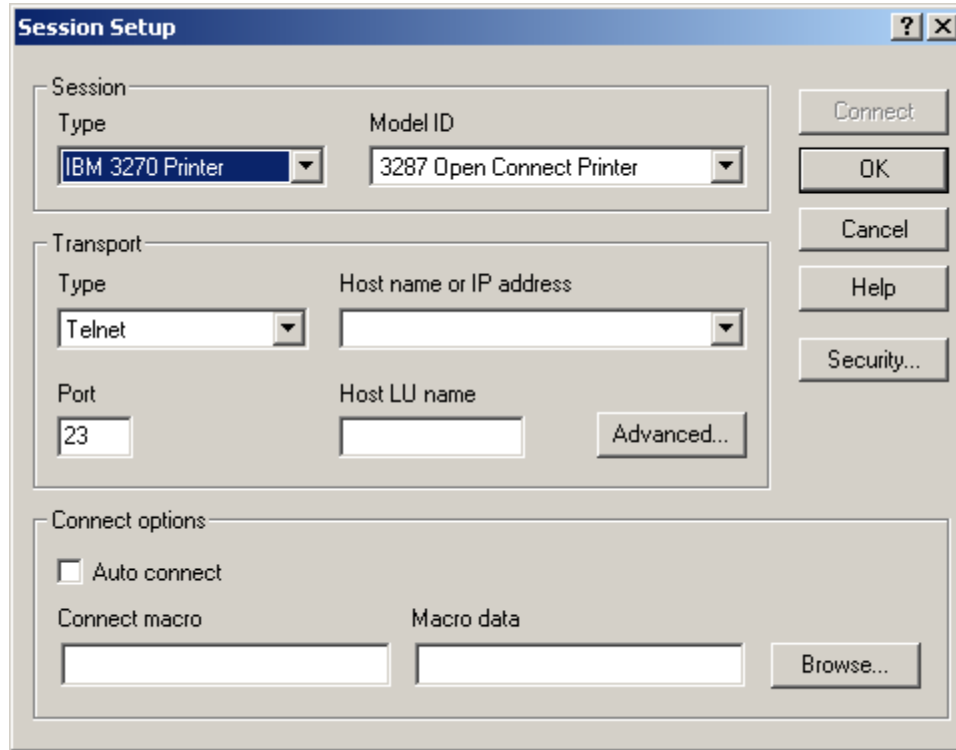
- Mouse click on the 'Session Type' dialog box drop down arrow and select '**IBM 3270 Printer**' as shown below.



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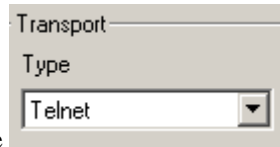
CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

- Once 'IBM 3270 Printer' is selected as the 'Session Type' it will display in the 'Session Type' dialog box and the model type in the 'Session Model ID' dialog box will automatically change to '3287 Open Connect Printer' as shown below.

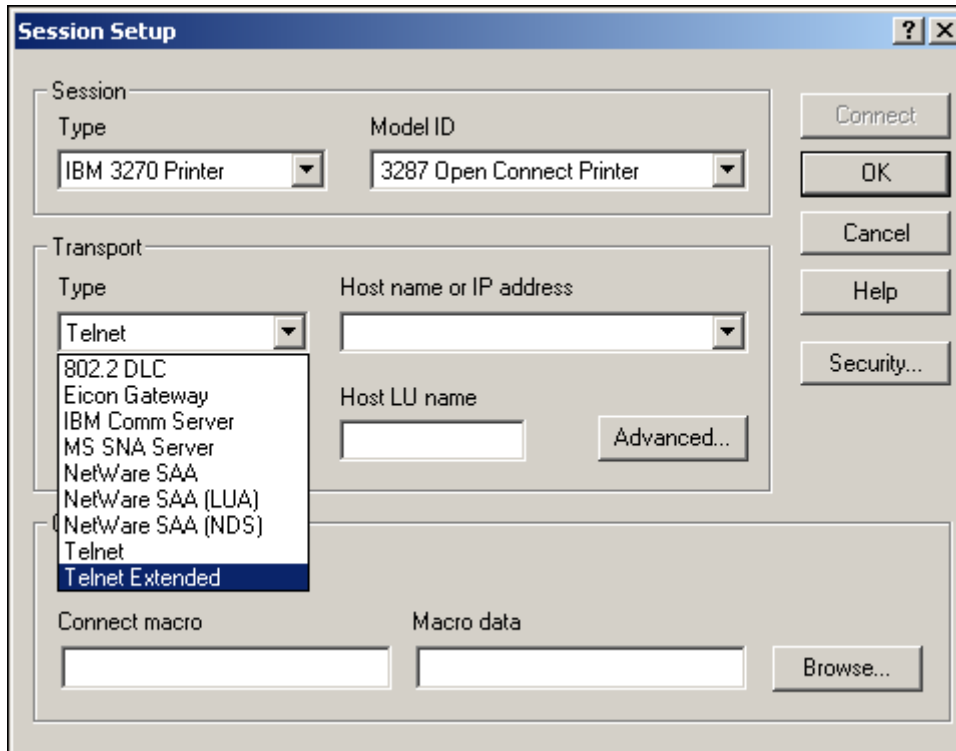


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CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH



- Mouse click on the drop down arrow and select '*Telnet Extended*'.



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CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

- The screen image below shows the 'Telnet Extended' option in the 'Transport Type' box once selected.

The screenshot shows a 'Session Setup' dialog box with the following fields and controls:

- Session:**
 - Type: IBM 3270 Printer (dropdown)
 - Model ID: 3287 Printer (dropdown)
- Transport:**
 - Type: Telnet Extended (dropdown)
 - Host name or IP address: (empty dropdown)
- Port:** 23 (text box)
- Connection type:** Connect (dropdown)
- Host LU name:** (empty text box)
- Advanced..** (button)
- Connect options:**
 - Auto connect:
 - Connect macro: (empty text box)
 - Macro data: (empty text box)
 - Browse... (button)
- Buttons (right side):** Connect, OK, Cancel, Help, Security...

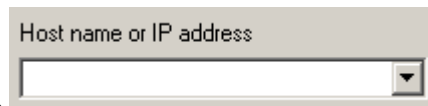
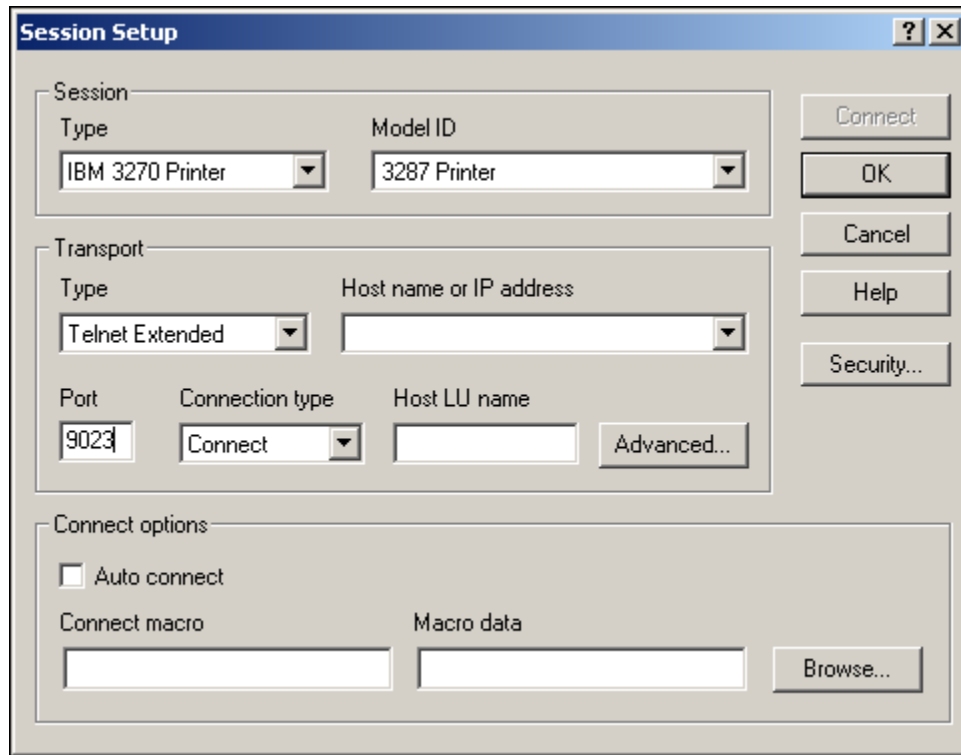
- **Note:** That the model type in the 'Session Model ID' dialog box automatically changed again this time to '3287 Printer'

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CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH



- Mouse click in the port dialog box, the default telnet port is port # 23, enter '9023' in this dialog box as shown below.



- Mouse click in the host name or IP address dialog box and enter either the Domain Name Server (DNS) name or TCP/IP address for the host mainframe that you wish to connect to with the Reflection for IBM 3270 printer emulation.

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CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

- Enter '*msn-ftp.stl.disa.mil*' for 3270 printer connectivity to Marine Corps mainframe-based application located at the Defense Information Service Agency (DISA), Defense Enterprise Computing Center (DECC), St. Louis, MO in this dialog box as shown below.

The screenshot shows a 'Session Setup' dialog box with the following fields and values:

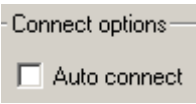
- Session:** Type: IBM 3270 Printer; Model ID: 3287 Printer
- Transport:** Type: Telnet Extended; Host name or IP address: msn-ftp.stl.disa.mil
- Port:** 9023
- Connection type:** Connect
- Host LU name:** (empty)
- Connect options:** Auto connect: ; Connect macro: (empty); Macro data: (empty)

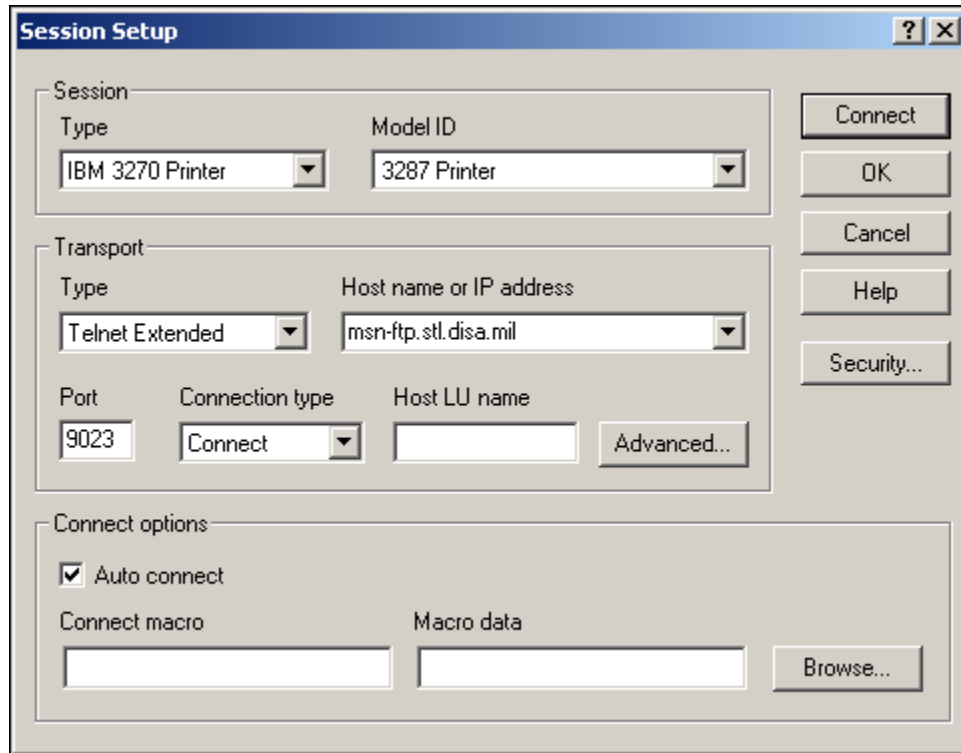
Host LU name

- Mouse click in the **Host LU name** dialog box and enter the mainframe VTAM terminal Logical Unit (LU) address that has been assigned (**dedicated / “nailed”**) to you or your organization as shown in the example on pages 45 through 47, if you are an end-user that must establish a dedicated / “nailed” 3270 printer session.
- **Note:** Skip this step and continue below if you do not require a dedicated / “nailed” 3270 printer session.

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CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

- Under 'Connect options'  mouse click the check boxes on 'Auto connect' as shown below



The screenshot shows the 'Session Setup' dialog box with the following configuration:

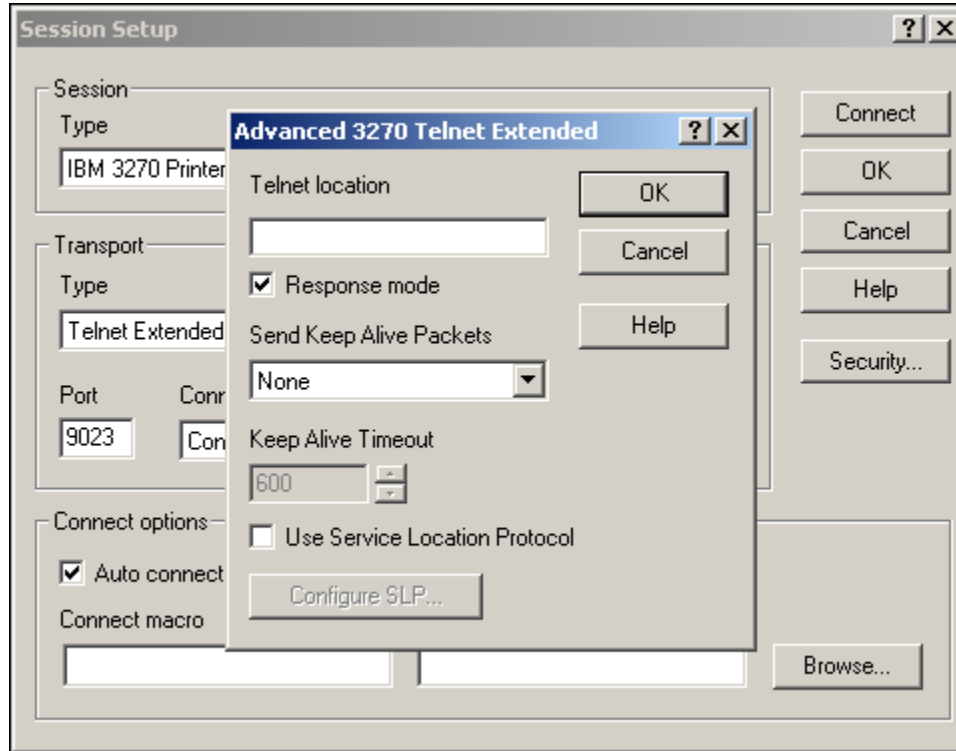
- Session:** Type: IBM 3270 Printer, Model ID: 3287 Printer
- Transport:** Type: Telnet Extended, Host name or IP address: msn-ftp.stl.disa.mil
- Port:** 9023
- Connection type:** Connect
- Host LU name:** (empty)
- Connect options:** Auto connect (checked)
- Connect macro:** (empty)
- Macro data:** (empty)

Buttons visible: Connect, OK, Cancel, Help, Security..., Advanced...

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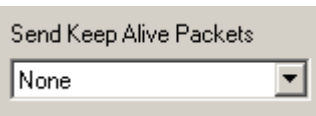
CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

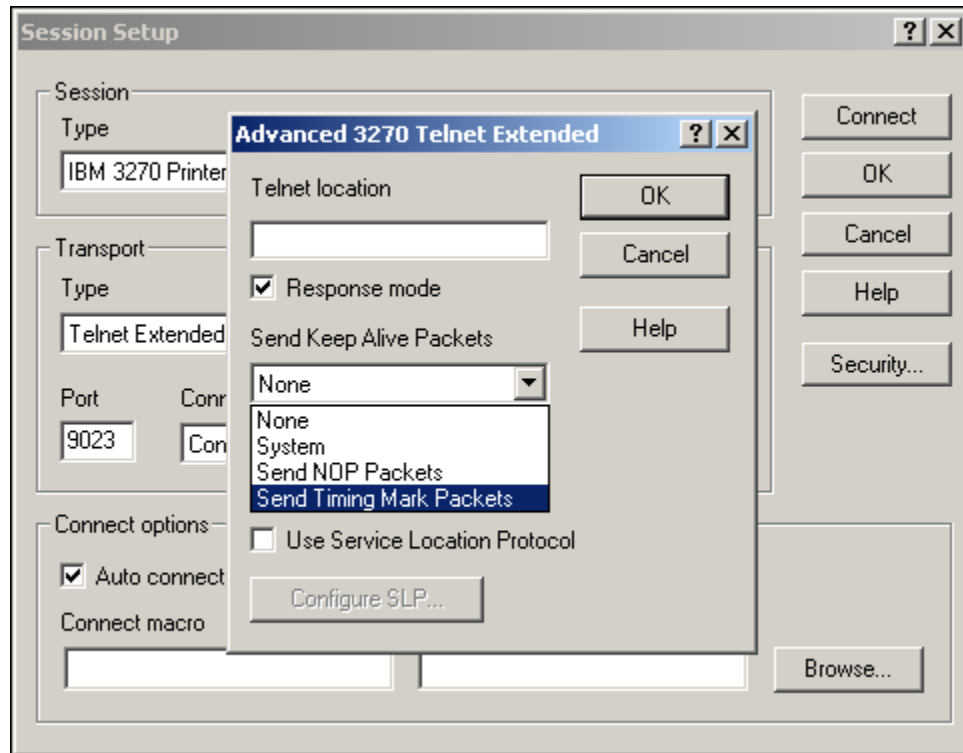
- Mouse click on the **Advanced...** button and the '*Advanced 3270 Telnet Extended*' windows pop-up dialog box will appear as shown below.



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CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

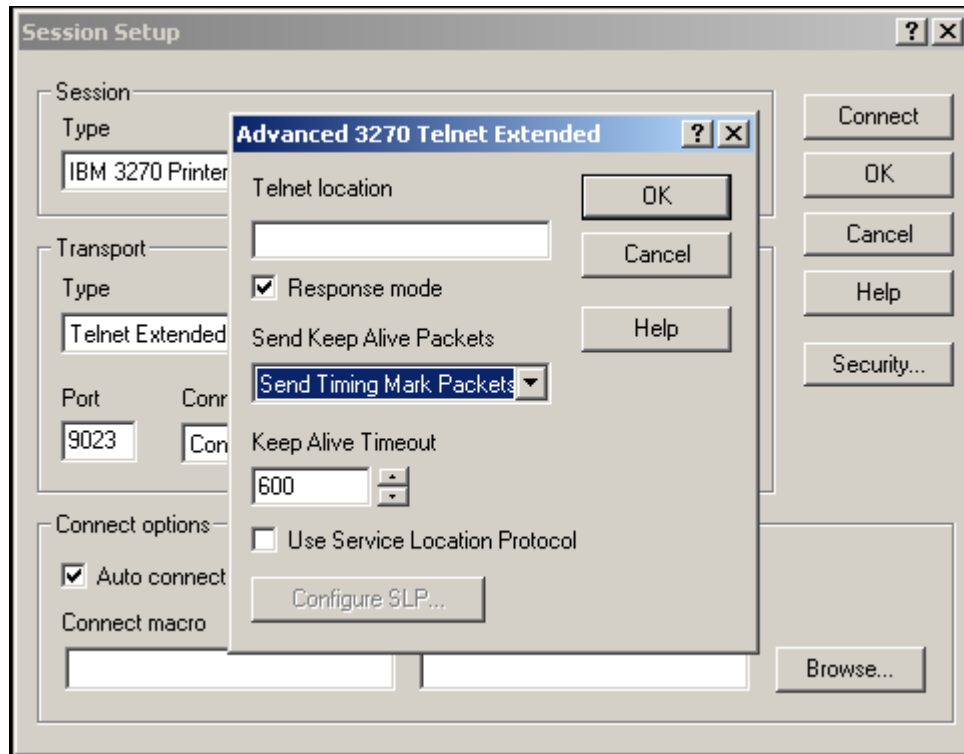
- Mouse click on the  drop down arrow and select '*Send Timing Marker Packets*' as shown below.





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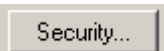
CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

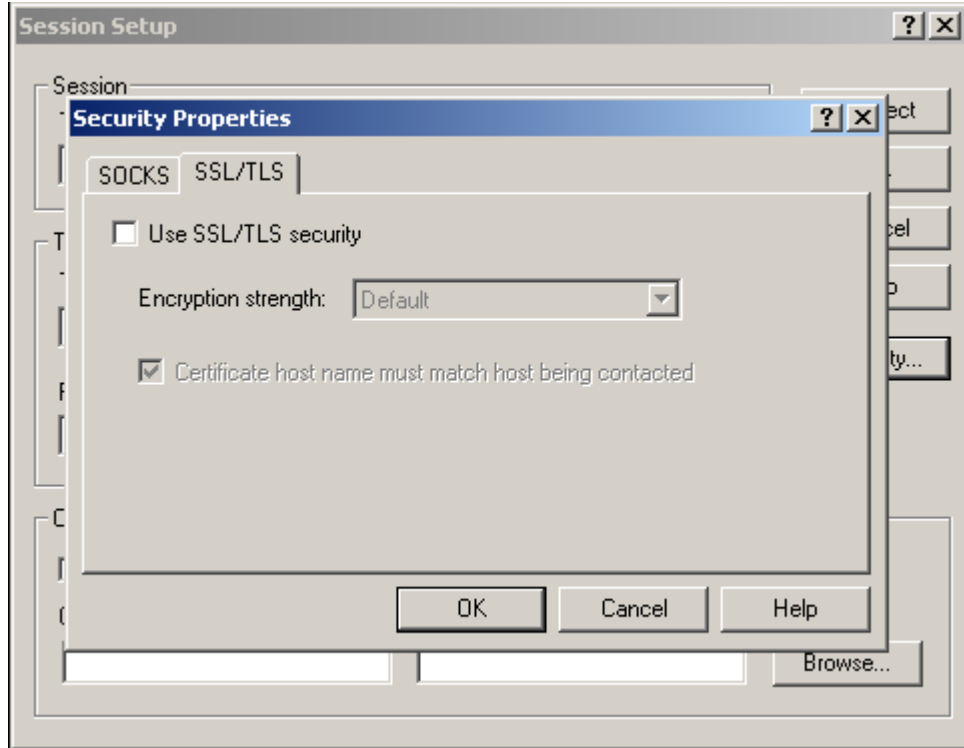
- The screen image below shows the 'Send Timing Mark Packets' option in the 'Send Keep Alive Packets' box once selected.



- Leave the  time set to **600** seconds and mouse click on the  button to complete and close the 'Advanced 3270 Telnet Extended' windows pop-up dialog box.

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

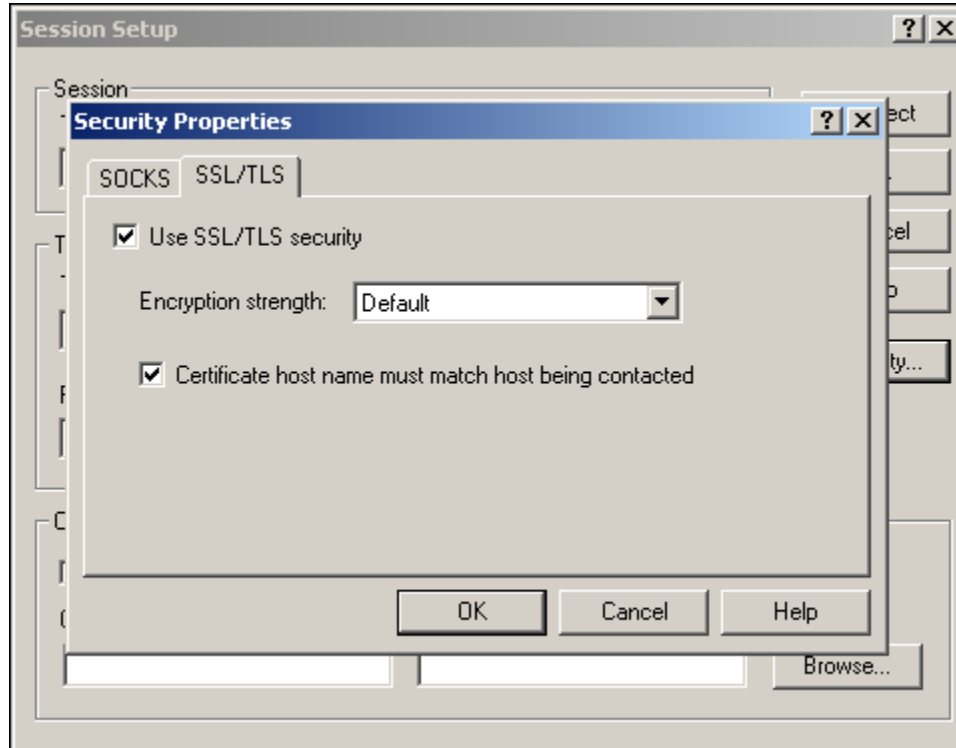
- Mouse click on the  button of the 'Session Setup' dialog box and the 'Security Properties' windows pop-up dialog box will appear as shown below.



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CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

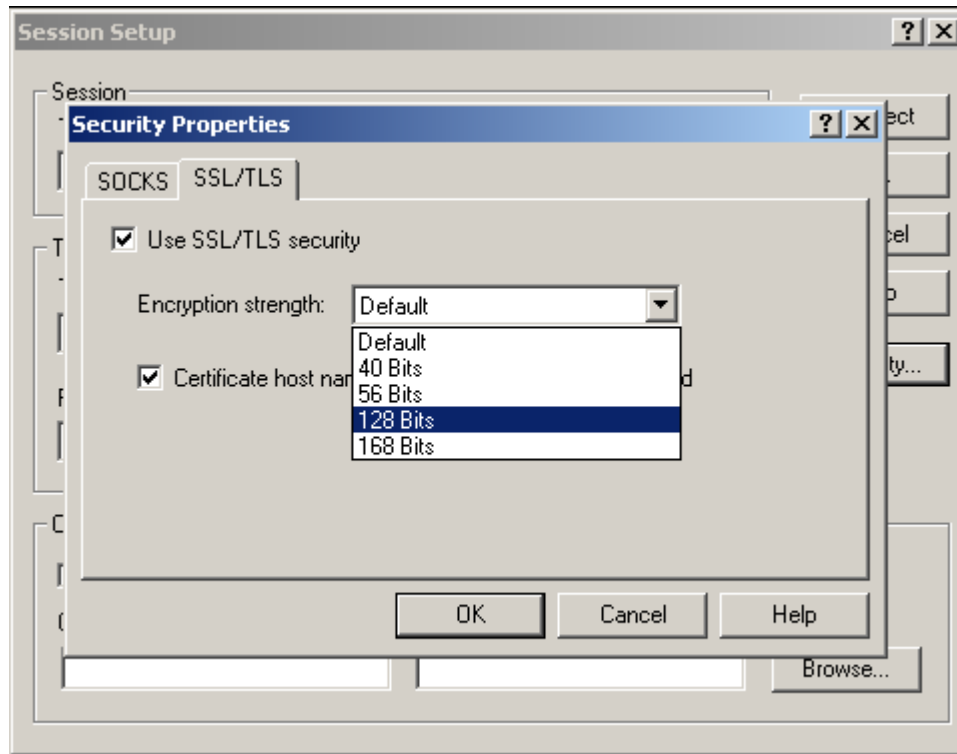
- Select the 'SSL/TLS' tab and mouse click on the Use SSL/TLS security check box as shown below.



- Once the Use SSL/TLS security check box has been checked the 'Encryption strength' dialog box will become un-shadowed and the drop down box and arrow will become unprotected and fully functional.

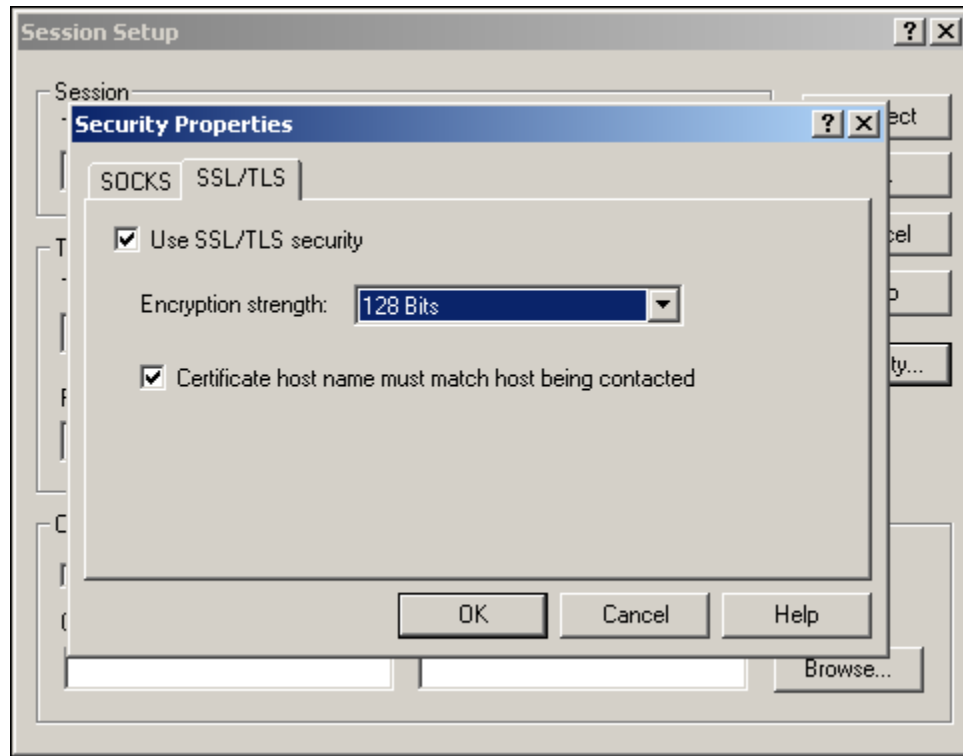
CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

- Mouse click on the '*Encryption strength*' dialog box's drop down arrow and select '*128 Bits*' as your encryption strength as shown below.

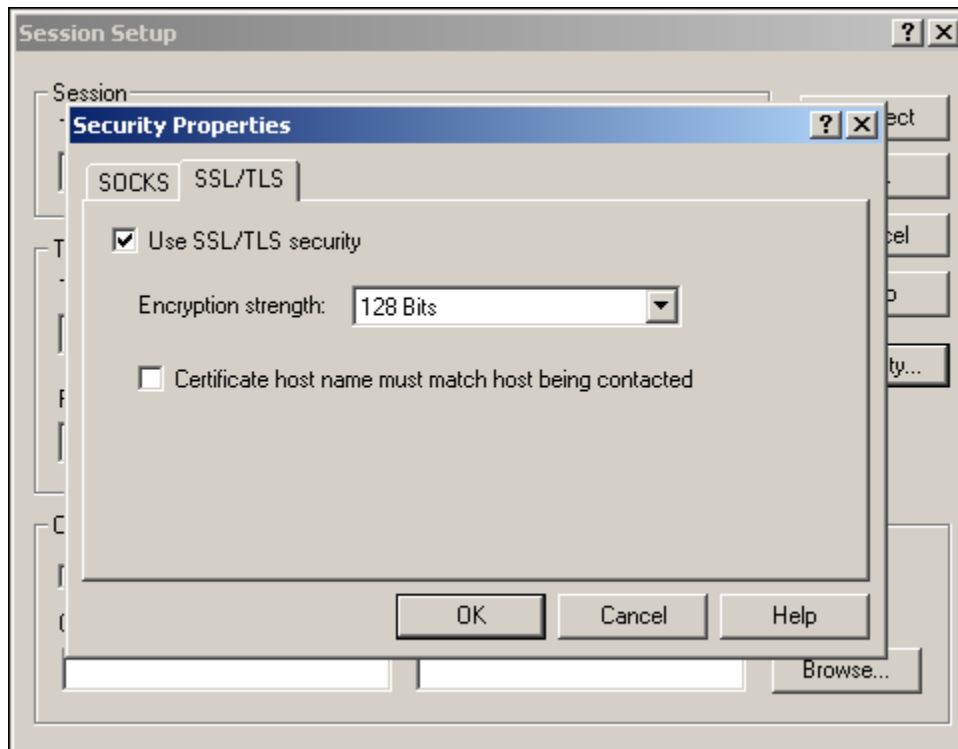


- Once '*128 Bits*' has been selected as your encryption strength the screen will appear as shown below.

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH



- Mouse click on and un-check the Certificate host name must match host being contacted check box as shown below.



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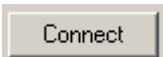
CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

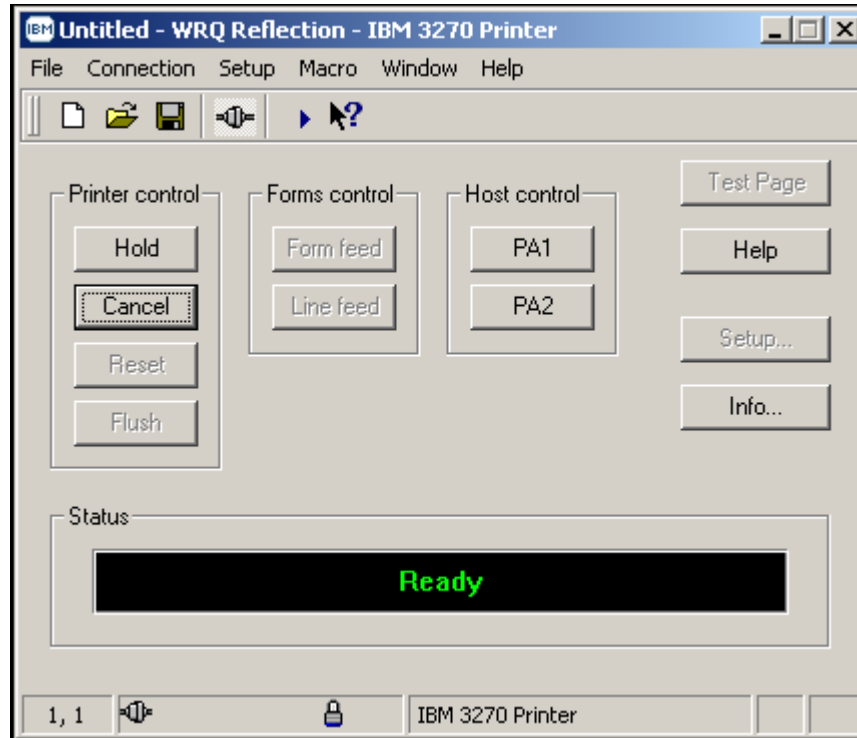
- Once the Certificate host name must match host being contacted check box is un-checked as shown above, mouse click on the button to complete and close the 'Security Properties' windows pop-up dialog box and return you to the 'Session Setup' windows pop-up dialog box as shown below.

The screenshot shows the 'Session Setup' dialog box. The 'Session' section has 'Type' set to 'IBM 3270 Printer' and 'Model ID' set to '3287 Printer'. The 'Transport' section has 'Type' set to 'Telnet Extended' and 'Host name or IP address' set to 'msn-ftp.stl.disa.mil'. The 'Port' is '9023', 'Connection type' is 'Connect', and 'Host LU name' is empty. The 'Connect options' section has 'Auto connect' checked, 'Connect macro' is empty, and 'Macro data' is empty. On the right side, there are buttons for 'Connect', 'OK', 'Cancel', 'Help', and 'Security...'. At the bottom right of the 'Connect options' section is a 'Browse...' button.

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CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

- Mouse click on the  button located on the 'Session Setup' windows pop-up dialog box to complete the session's setup and to establish the session's connection as shown in the display below.



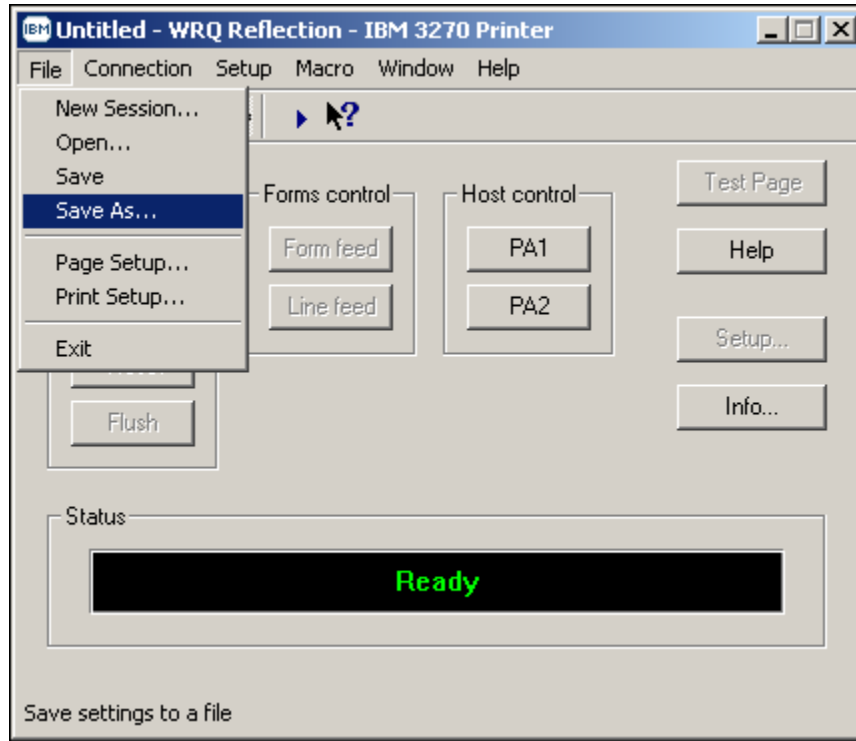
- Note that the top line session name indicates this is an untitled / unsaved WRQ Reflection – IBM 3270 Printer session configuration file as shown below.



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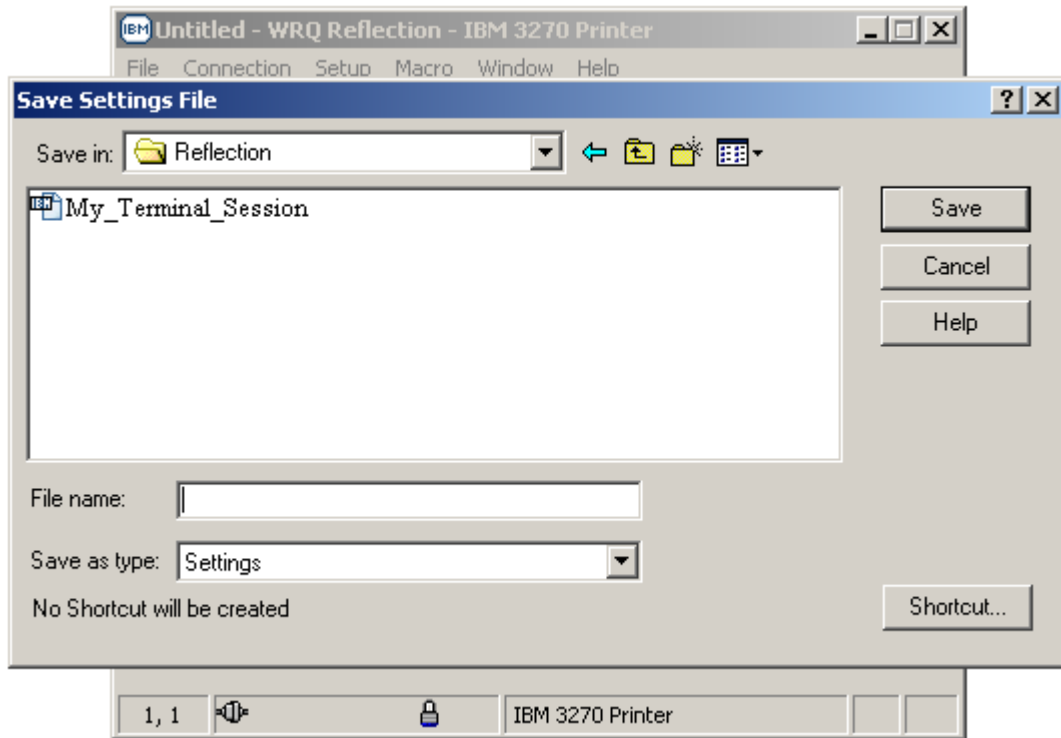
CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

- From the 'File' drop down menu of the *3270 Untitled - WRQ Reflection - IBM 3270 Printer* session screen select 'Save as...'



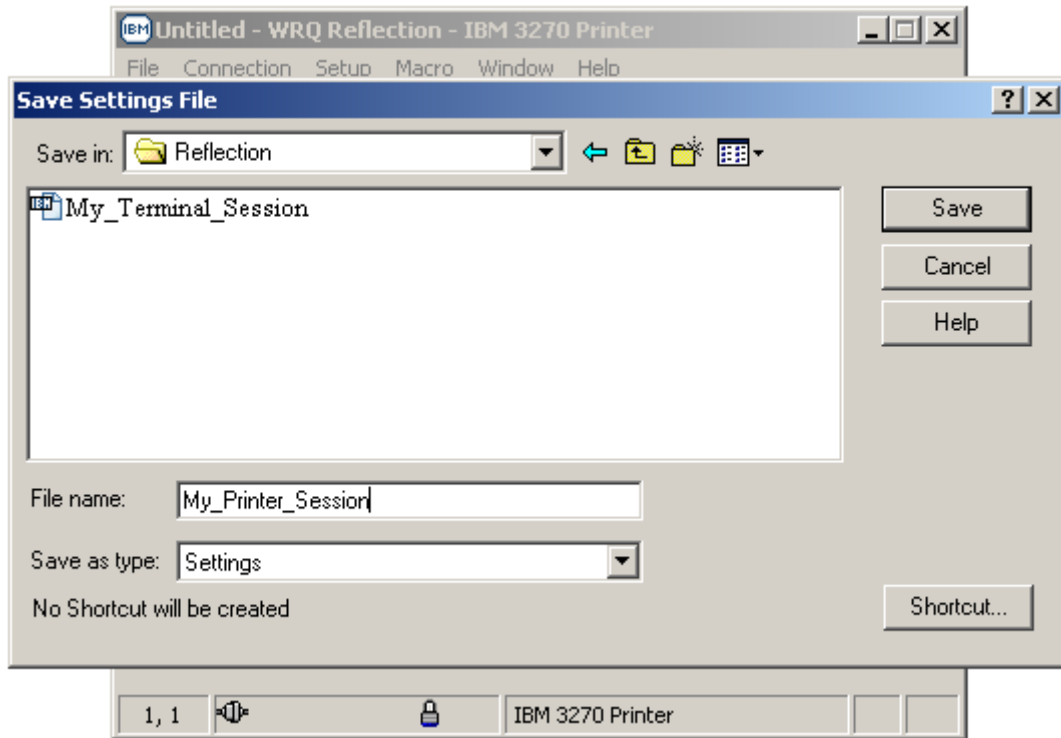
- The following 'Save Settings File' Window's pop-up screen will appear:

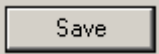
CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH



- Mouse click in the '*File name*' box and enter the name that you want this WRQ Reflection – IBM 3270 Printer session configuration file to have, leave the '*Save as type:*' dialog box set to '*Settings*' as shown in the example below.

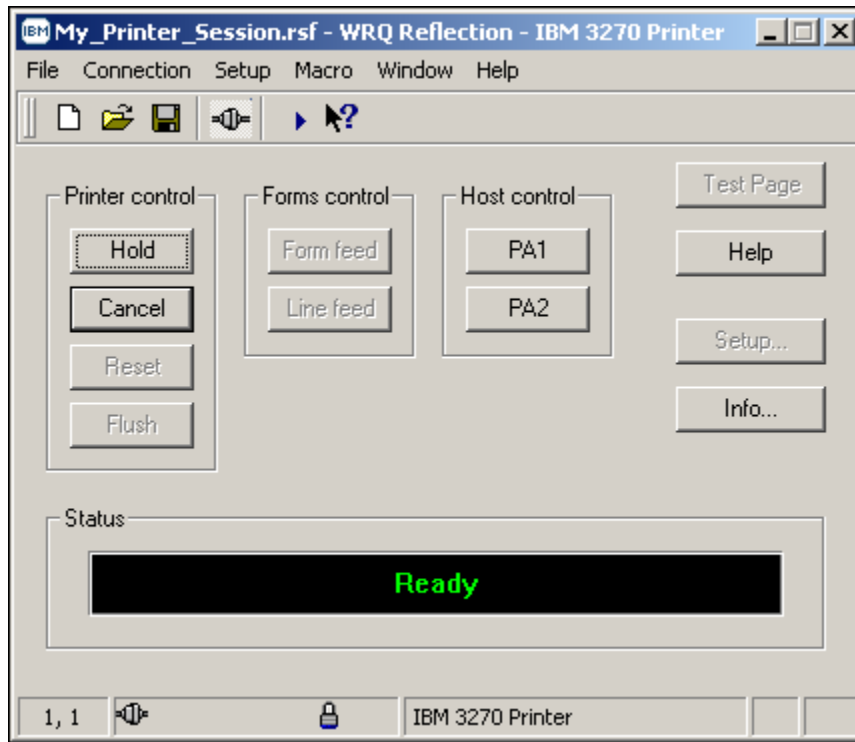
CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH



- Once completed mouse click on the  button to save this WRQ Reflection – IBM 3270 Printer session configuration file to the file name entered in the '*File name*' box as shown below.

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CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH



- In this example the file name in the '*File name*' box is '*My_Printer_Session*' as appears on the top line of the display shown below.

IBM My_Printer_Session.rsf - WRQ Reflection - IBM 3270 Printer

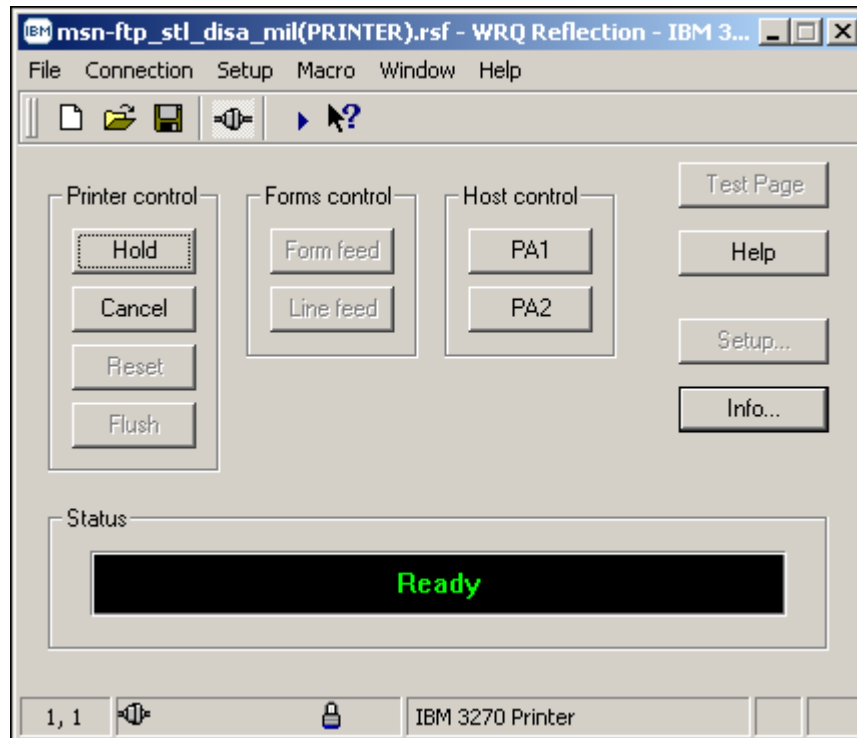
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CAPTURING REPORTS TO ASCII TEXT FILES

From time to time you may have a requirement to capture your mainframe output to a PC file vice sending it to a printer via your Reflection 3270 printer session.


To '*Print to File*' from the Reflection 3270 terminal / printer emulation perform the following:

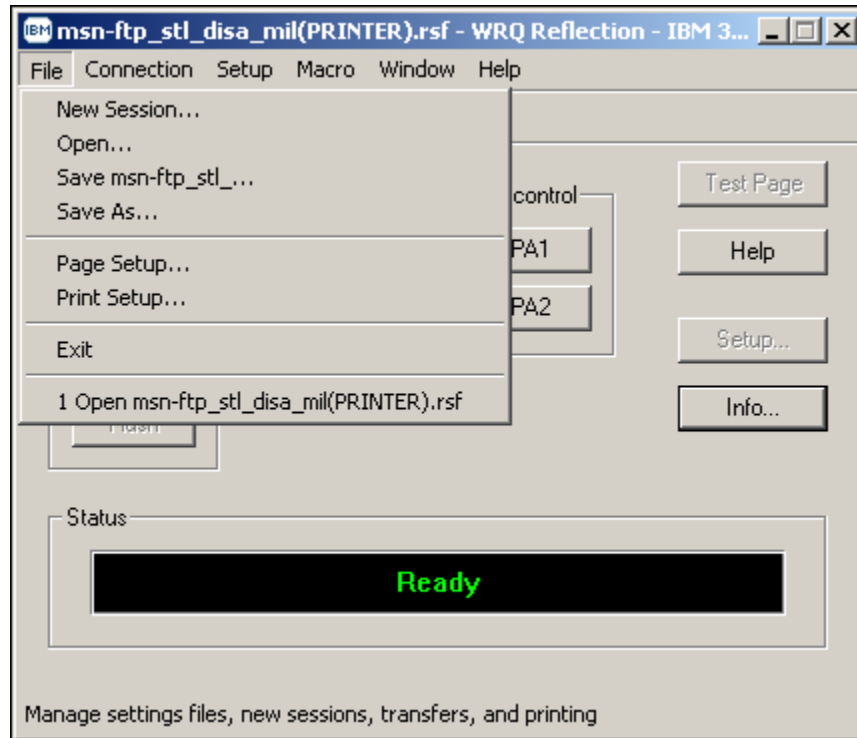
- Establishing your normal Reflection 3270 Printer Session as shown below.



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CAPTURING REPORTS TO ASCII TEXT FILES

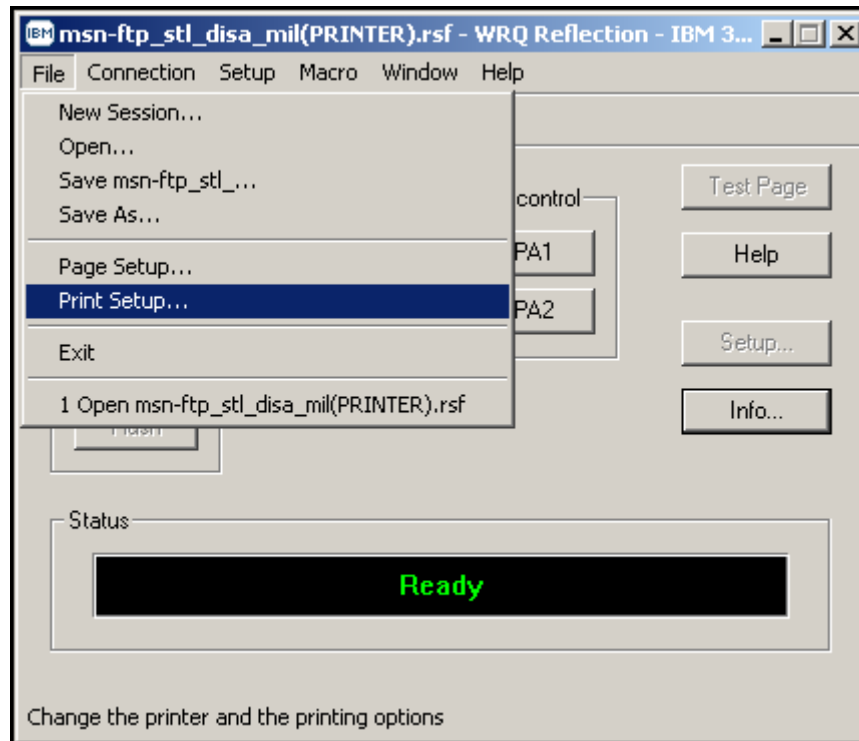
- With your mouse pointer select '*File*'  from the top menu on the *3270 Untitled - WRQ Reflection - IBM 3270 Printer* display screen.



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CAPTURING REPORTS TO ASCII TEXT FILES

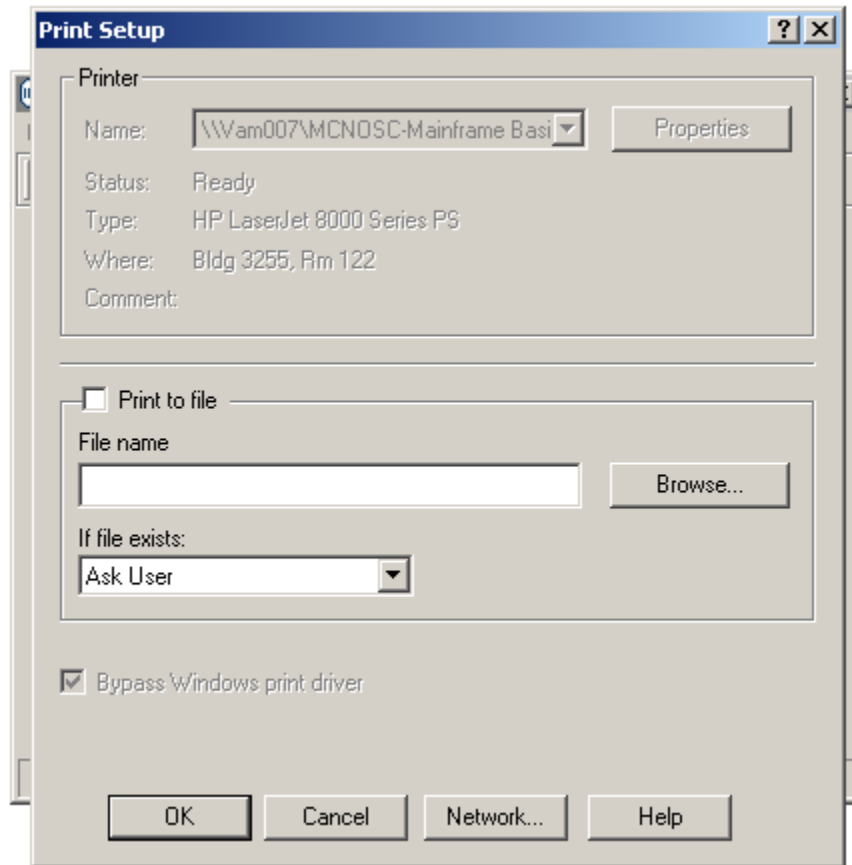
- From the 'File' drop down menu of the *3270 Untitled – WQR Reflection – IBM 3270 Printer* session screen select '*Print Setup...*'



- The following '*Print Setup*' Window's pop-up screen will appear:

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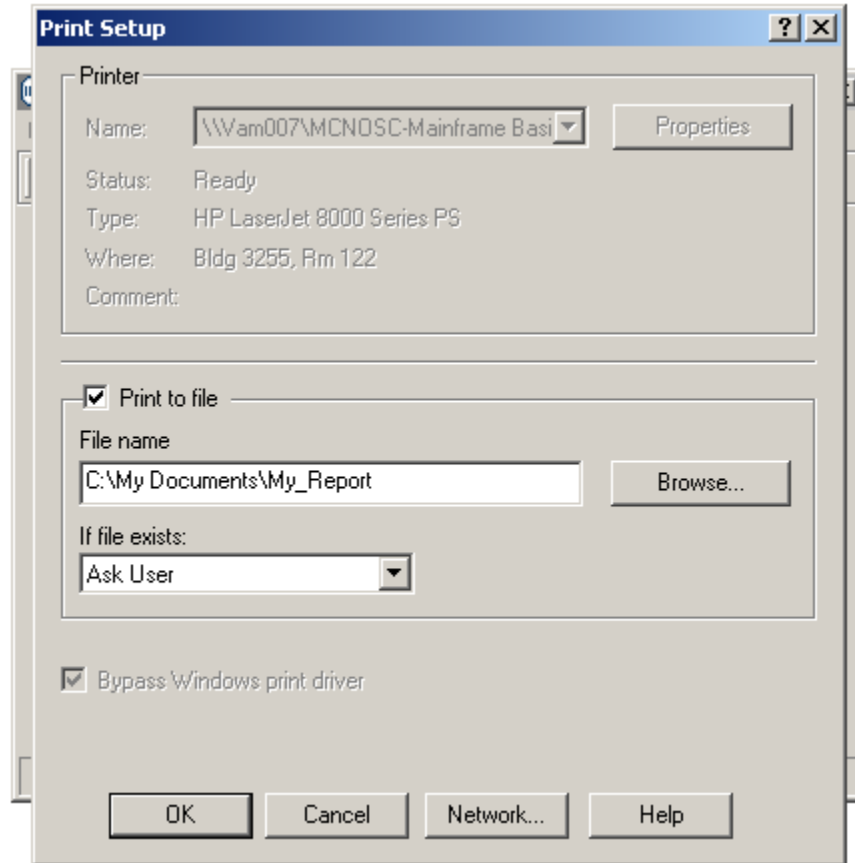
CAPTURING REPORTS TO ASCII TEXT FILES



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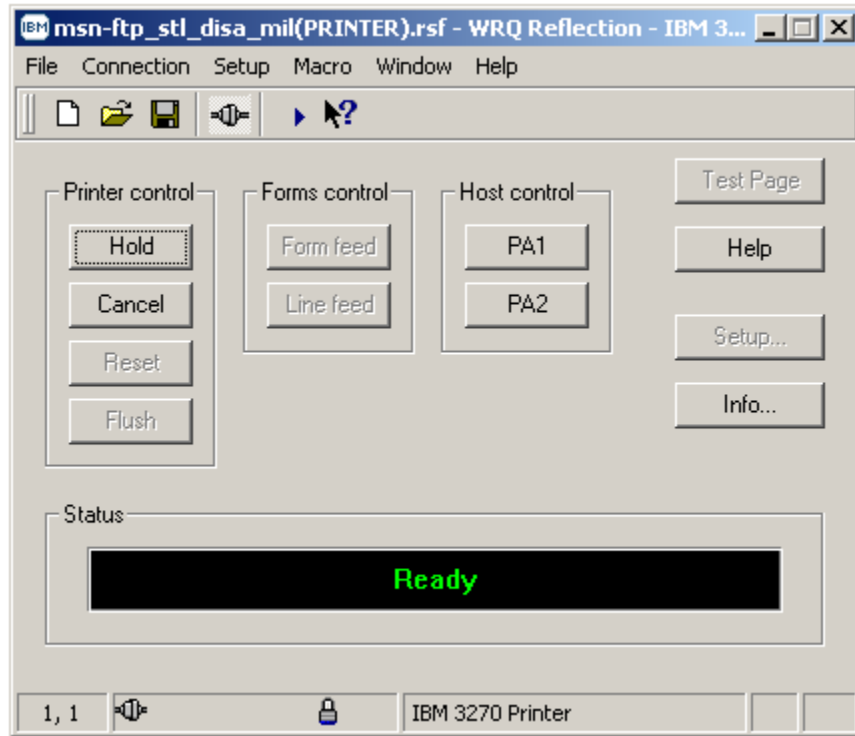
CAPTURING REPORTS TO ASCII TEXT FILES

- Mouse Click on the Print to file check box and enter the Drive, Path, and Window's PC File name for the output to be written to, as shown below.

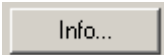


- Once completed mouse click on the button to change these '*Print Setup*' options on your WRQ Reflection – IBM 3270 Printer session as shown below.

CAPTURING REPORTS TO ASCII TEXT FILES



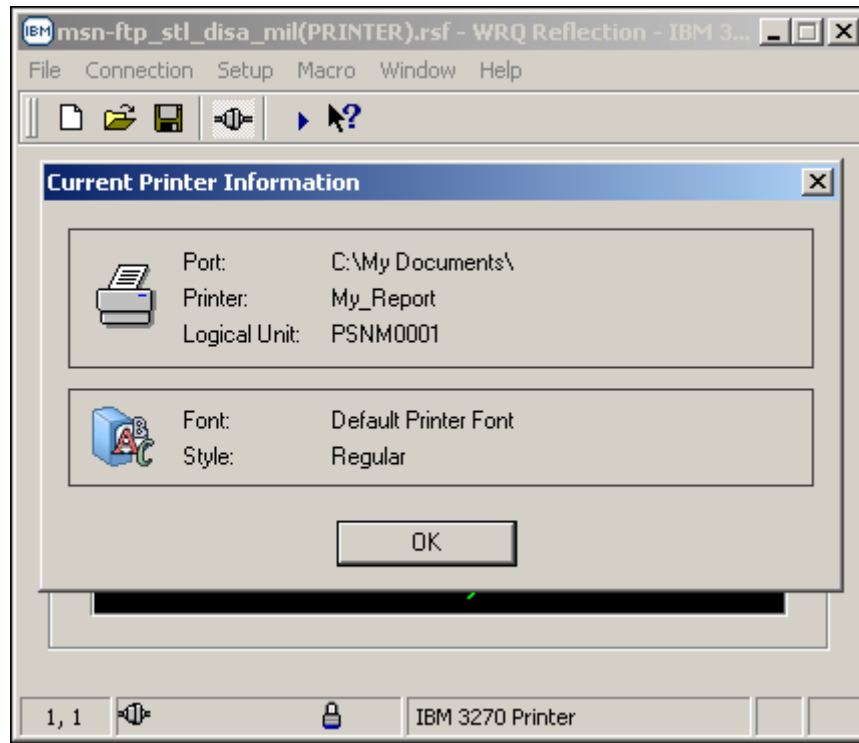
To quickly determine if your printer session now is set to '*Print to File*' and going to send the file to the correct Drive, Path, and File name, maximize the printer session window:

- Mouse click on the  button on the 3270 Printer Session window.

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CAPTURING REPORTS TO ASCII TEXT FILES

- A **Current Printer Information** pop-up window will appear, as shown below.



- The information in the window identifies the port (*Drive / Path*), your windows printer name (*File name*), and the printer Logical Unit (LU)
 - In the example below the port is: **C:\My Documents**
 - the windows printer name is: **My_Report**
 - the mainframe VTAM printer Logical Unit (LU) address is: **PSNM0001**

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CAPTURING REPORTS TO ASCII TEXT FILES

- Below is an example of the text file that is created during a capturing a report to ASCII text file operation.

MOBIUS MANAGEMENT SYSTEMS, INC. viewDirect 6.2 LC5341
DATE: 09/28/2003 *** DISTRIBUTION CROSS REFERENCE BY RECIPIENT *** REPORT ID: RIN6202
TIME: 13:04.53 PAGE: 1

RECIPIENT ID/NAME	TITLE	REMOTE ID VIEWING ACCESS	HIERARCHY CODE	REPORT TYPE GROUP	DIST. TYPE	MEDIA	TOTAL COPIES	VIEW
AAAA	MILLINGTON DEPT	MILLINGTON DEPT	Y-NORMAL					
REPORT ID/NAME								
?	*** UNIDENTIFIED REPORTS ****		***** COMPLETE COPY *****	3-COMP NONE	0-ONLN	A	0	YES
CERP1804	CERPS 1804 ADHOC REPORT		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DCERPMON	DCERPMIL - DCERPS MILPAY RECAP REPORT-MONTHLY TOTAL		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DCERPMTD	DCERPMIL - DCERPS MILPAY RECAP YEAR TO DATE TOTALS		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DDFC05NB	SOFALL - STATUS OF FUNDS BY SRI/FY/BSYM		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBLB07	S7LRDM04 - DAILY LABOR REPORT BY BESA/BEA/WCI		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBLB07A	S7LRDM04 - DAILY LABOR REPORT BY BEA/WCI		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBR004	S7LGDB04 - O&M JV ERROR REPORT		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBR005	S7LRDB04 - LIQUIDATION NOT EQUAL EXPENSE REPORT		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBR005A	S7LRDB04 - OUTSTANDING TRVL ORDER BY AGE CATEGORY		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBR005B	S7LRDB04 - OUTSTANDING TRVL ADVANCE BY AGE CATEGORY		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBR005C	S7LRDB04 - OUTSTANDING COMMITMENT REPORT		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBR007	S7LRD04 - OUTSTANDING 621 REPORT		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBR009	S7LRDG04 - IDB UNMATCHED/REJECTED DISBURSEMENTS		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBR010	S7LRDD04 - IDB DETAIL RESPONSES RECEIVED FOR FAE/FA		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBR011	S7LRDD04 - IDB ADJUSTMENTS REPORT		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBR012	S7LRDD04 - INVALID ADJUSTMENT RESPONSES REPORT		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBR013	S7LRDE04 - APPARENT VIOLATION REPORT		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBR016	S7LRMB04 - REPORT DISCONTINUED PER HQMC/DFAS CCB		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBR017	S7LRDI04 - DAILY TRANSACTION JOURNAL		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBR019	S7LRDE04 - NEG UNLIQUIDATED OBLIGATION TRAN FOR CYC		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBR021	S7LRMA04 - UNPROCESSED INTERDEPARTMENTAL BILLS 60 DAY		***** COMPLETE COPY *****	3-COMP NONE	0-ONLN	A	0	YES
DFBR023	S7LRMA04 - SUSPECT DUPLICATE INTERDEPARTMENTAL BILL		***** COMPLETE COPY *****	3-COMP NONE	0-ONLN	A	0	YES
DFBR024	S7LRMA04 - SUSPECT DUPLICATE INTERDEPARTMENTAL PAY		***** COMPLETE COPY *****	3-COMP NONE	0-ONLN	A	0	YES
DFBR025	S7LRMA04 - UNMATCHED INTERDEPARTMENTAL BILL PAYMENT		***** COMPLETE COPY *****	3-COMP NONE	0-ONLN	A	0	YES
DFBR026	S7LRDD04 - IDB SUMMARY RESPONSES RECEIVE FOR FAE/FA		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBR056	S7LJRA04 - RECEIPT REPORT - AAS		***** COMPLETE COPY *****	3-COMP NONE	0-ONLN	A	0	YES
DFBR057	S7LJRB04 - RECEIPT REPORT - SASSY RA		***** COMPLETE COPY *****	3-COMP NONE	0-ONLN	A	0	YES
DFBR058	S7LJRC04 - RECEIPT REPORT - MRP		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES
DFBR059	S7LJRD04 - RECEIPT REPORT - STATUS 80		***** COMPLETE COPY *****	3-COMP NONE	0-ONLN	A	0	YES
DFBR060	S7LJRE04 - RECEIPT REPORT - DSSC 80		***** COMPLETE COPY *****	3-COMP NONE	0-ONLN	A	0	YES
DFBR062	S7LJRF04 - RECEIPT REPORT - ARS		***** COMPLETE COPY *****	3-COMP NONE	0-ONLN	A	0	YES
DFBR071	S7LDMA04 - APPN 3875 MONTHLY UNFUNDED REIMBURSABLE		***** COMPLETE COPY *****	3-COMP NONE	0-ONLN	A	0	YES
DFBR072	S7LDMA04 - APPN 3875 INCEPTION TO DATE REPORT		***** COMPLETE COPY *****	3-COMP NONE	0-ONLN	A	0	YES
DFBR073	S7LIAB04 - IDB BUYER/SELLER REPORT (ENCL 1)		***** COMPLETE COPY *****	3-COMP NONE	0-ONLN	A	0	YES
DFBR074	S7LIAC04 - IDB BUYER/SELLER REPORT (ENCL 2)		***** COMPLETE COPY *****	3-COMP NONE	0-ONLN	A	0	YES
DFBR075	S7LIGAE04 - ONR RECONCILIATION REPORT		***** COMPLETE COPY *****	3-COMP NONE	F-FULL	A	0	YES

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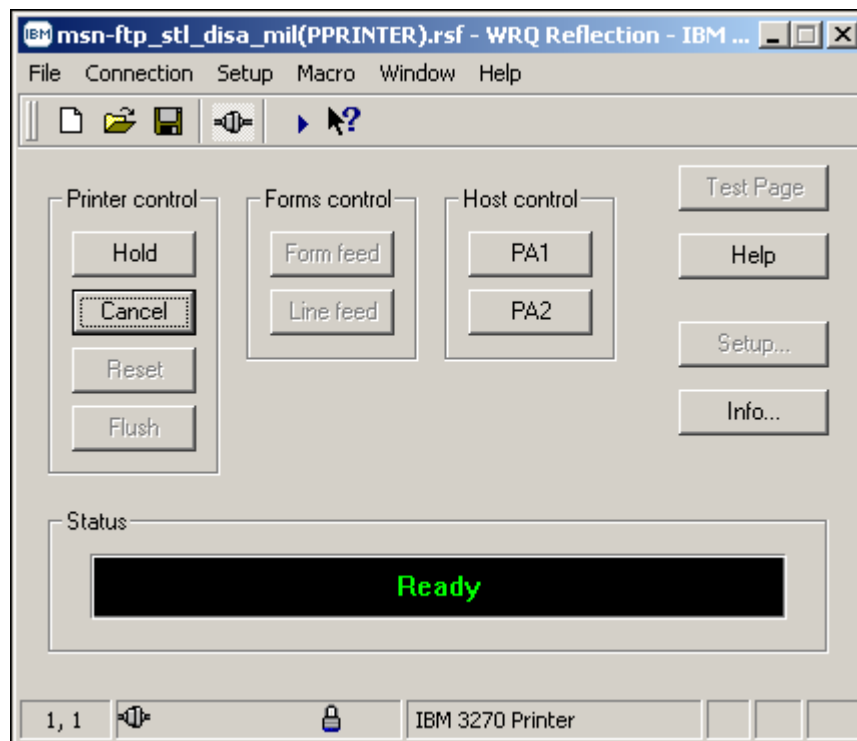
MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

Printer as well as terminal sessions have been configured with default properties. From time to time it may become necessary to change the defaults, to meet your immediate needs.

It should be noted that changes to the defaults apply only to the current session, unless prior to exiting / closing the session you save the session with the newly modified configuration / properties.

To change the Reflection 3270 printer session properties to print in '*Portrait*' printing format perform the following steps:

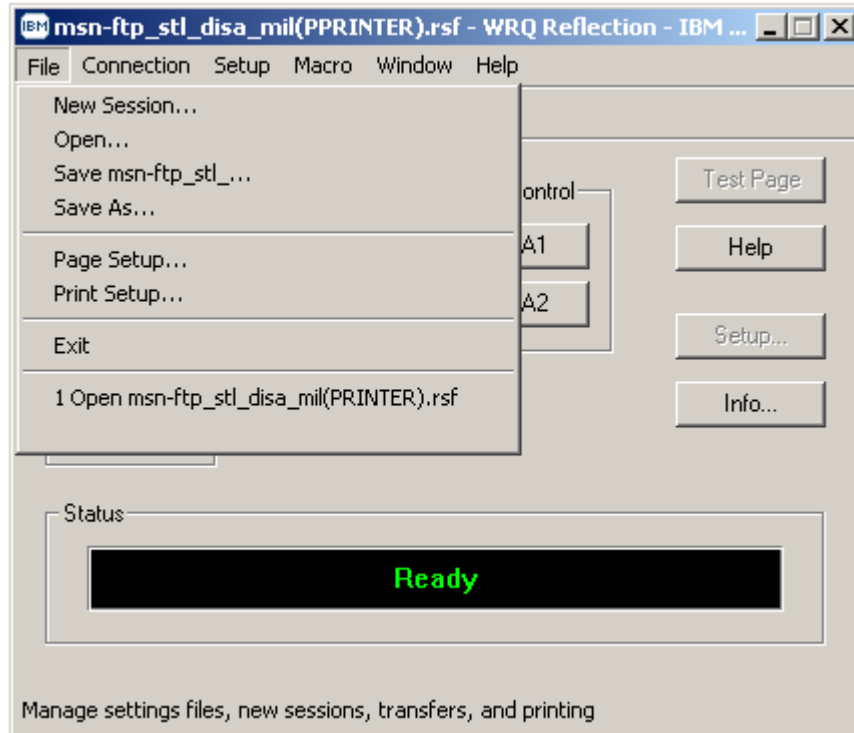
- Open a normal Reflection 3270 printer session as described on pages 12 through 20.
- Upon completion of those instructions you should see the 3270 printer session window as shown below.



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MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

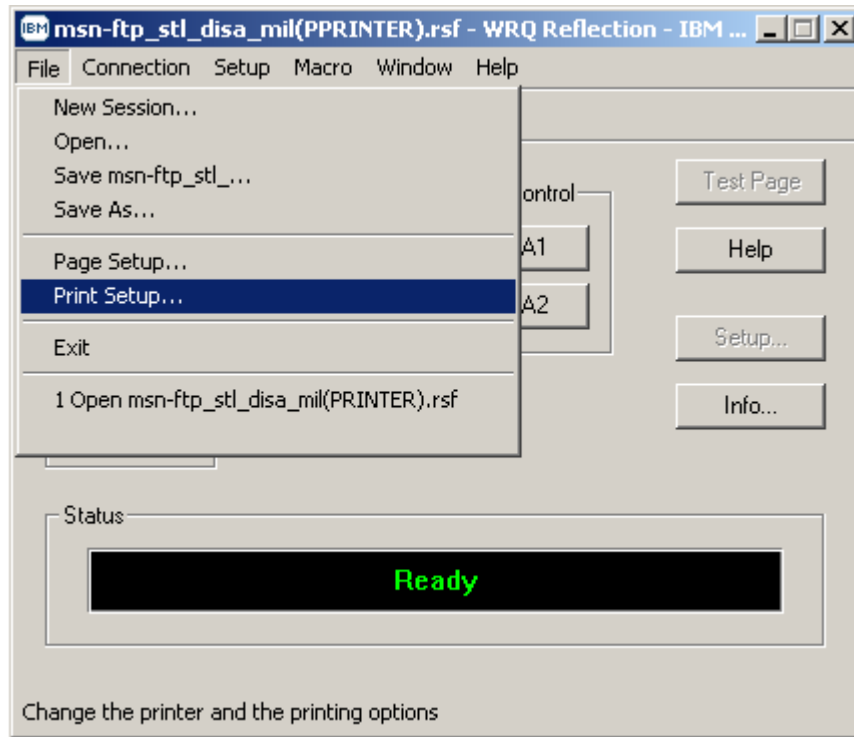
- From the 3270 printer session window mouse click on the **File** option located on the top tool bar menu and a windows drop down menu will appear as shown below.



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MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

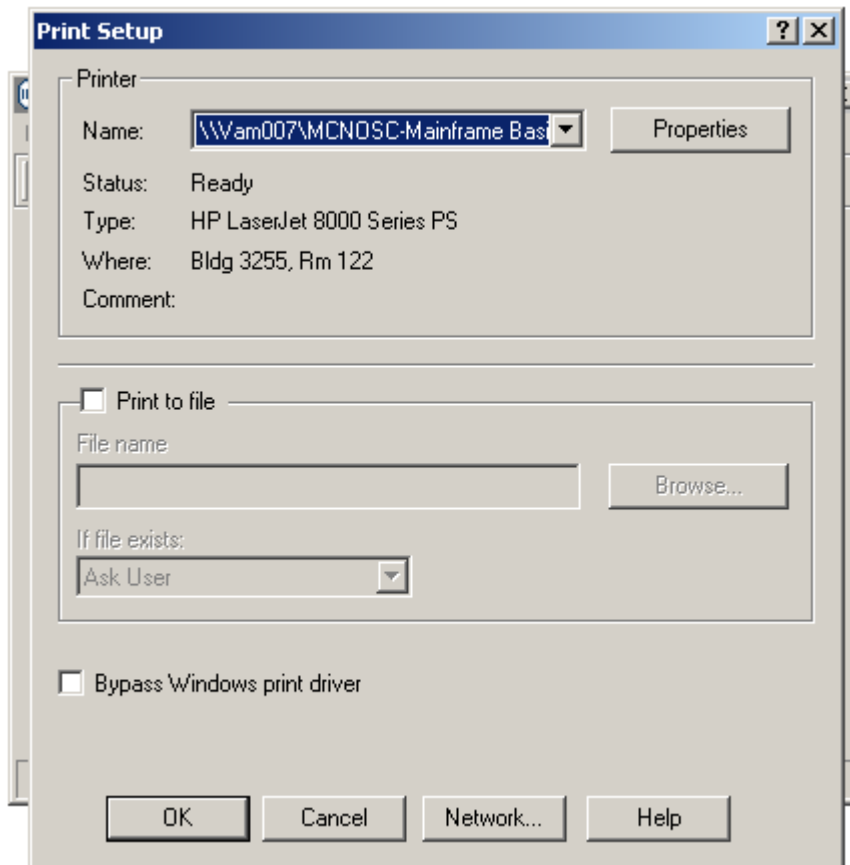
- From this drop down menu select **Print Setup...** with your mouse.




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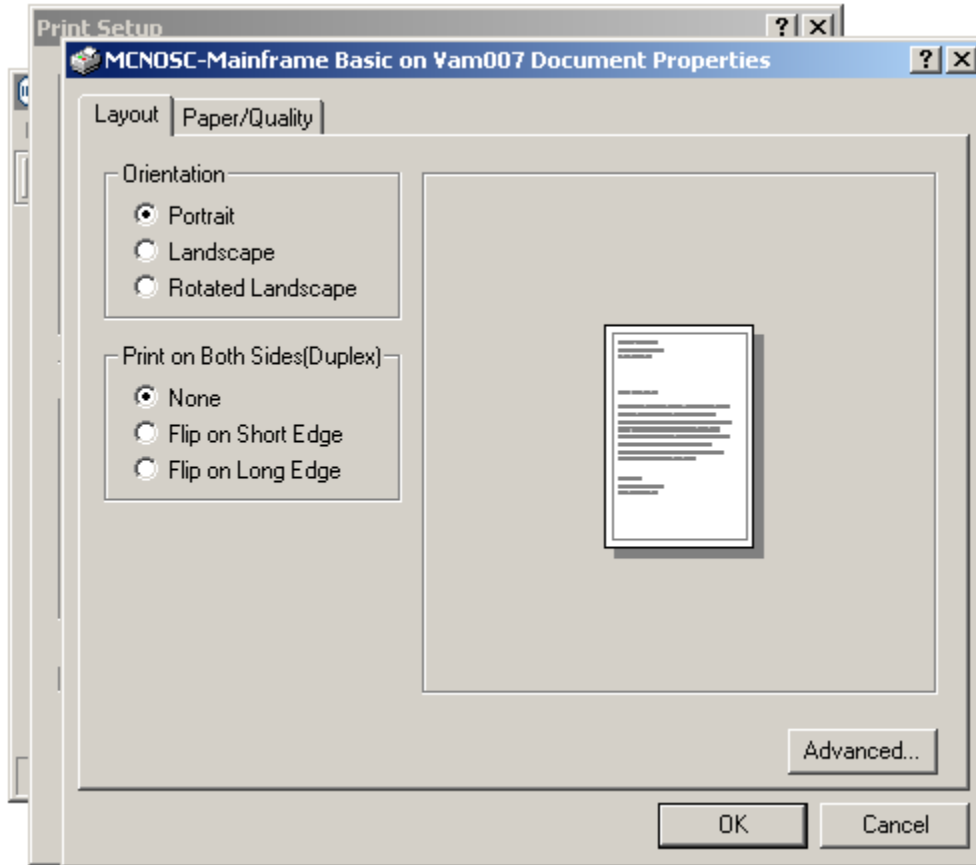
MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

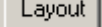
- Once **Print Setup...** has been selected the widows dialog screen shown below will appear.

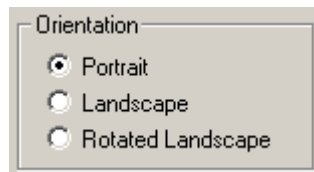


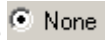
MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

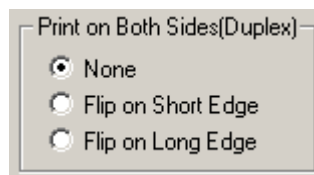
- From this dialog window mouse click on the  button and a second windows dialog screen will appear as shown below.



- On the  tab of this windows dialog screen ensure that the '**Orientation**' portion of this screen is set to '**Portrait**' as shown below.



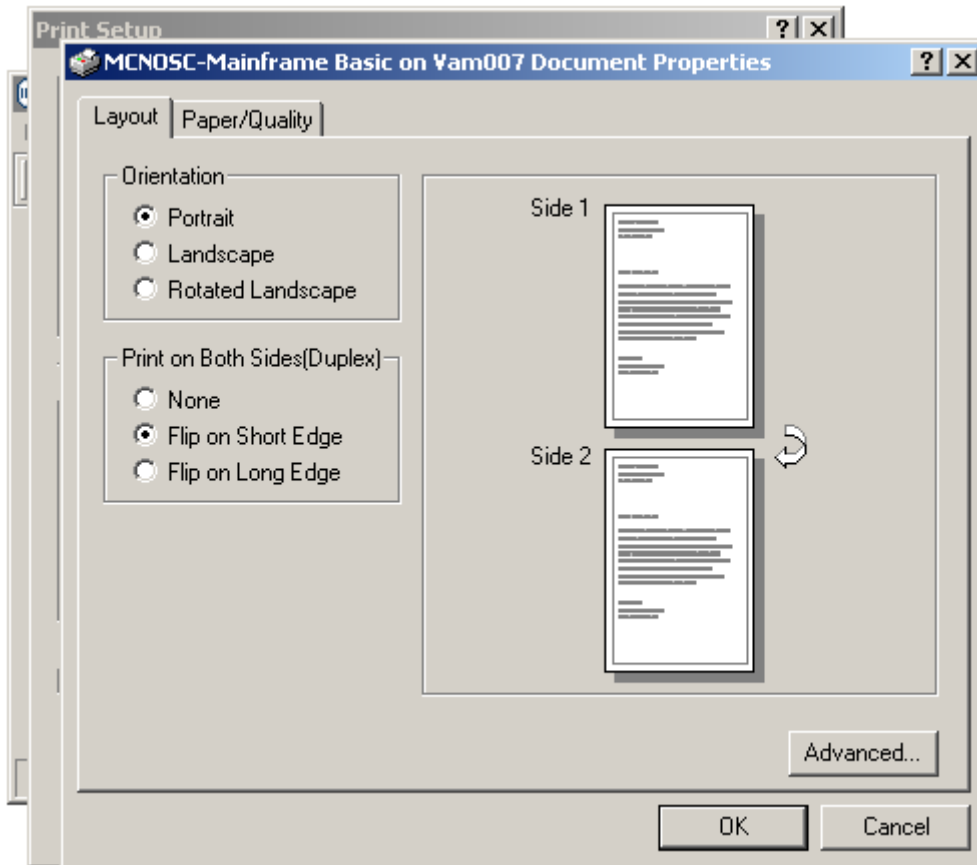
- Ensure that the '**Print on Both Sides(Duplex)**' portion of this screen is set to  if your printer is not capable of performing 'duplex' as shown below.



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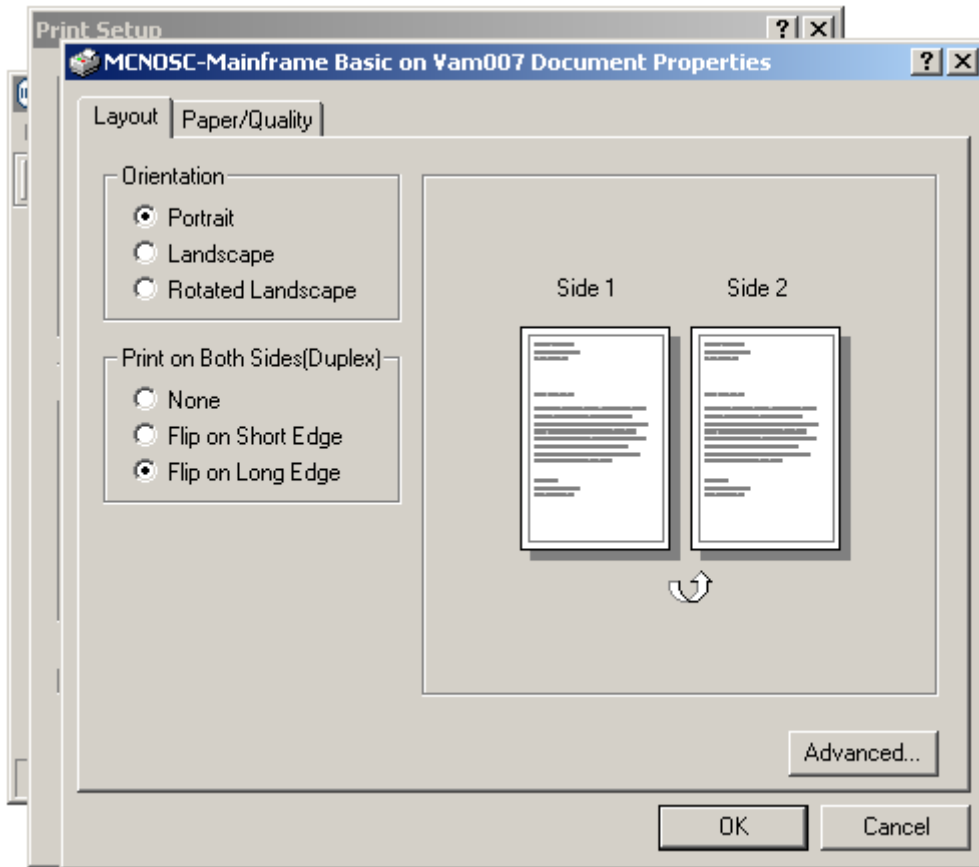
MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT


- If your printer is capable of 'duplex' printing you may select either Flip on Short Edge or Flip on Long Edge based on your preferences or requirements. A graphical representation of each of these types of 'duplex' printing displays on the dialog screen based on your selection as shown below in the two examples.
- Example of '*Flip on Short Edge*' duplex printing dialog screen.



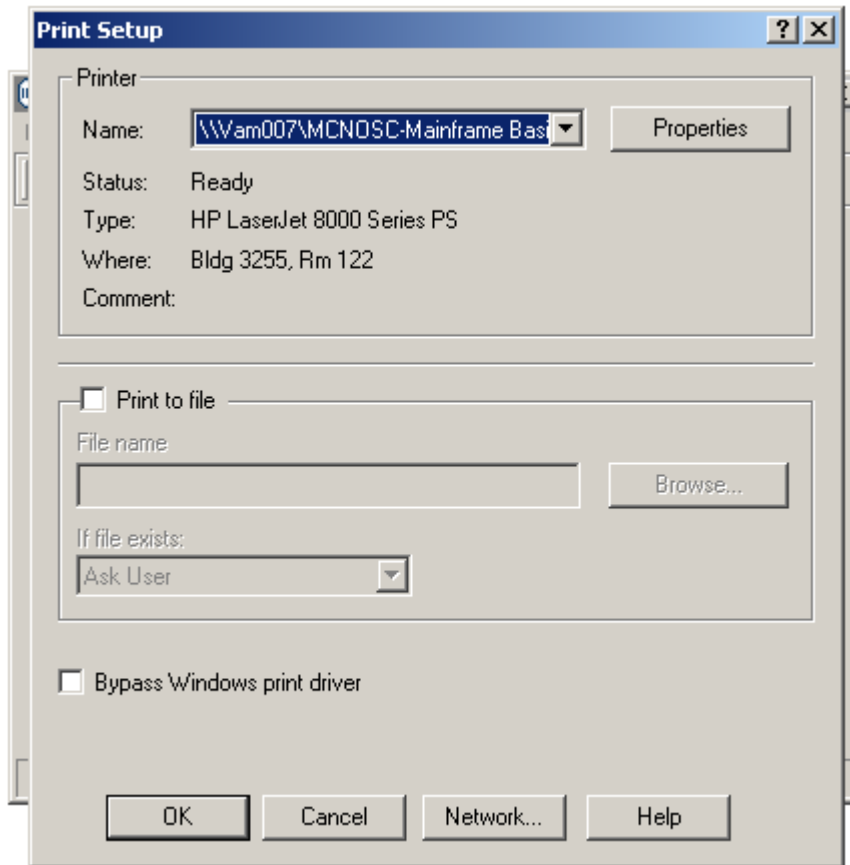
MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

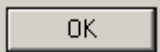
- Example of 'Flip on Long Edge' duplex printing dialog screen.



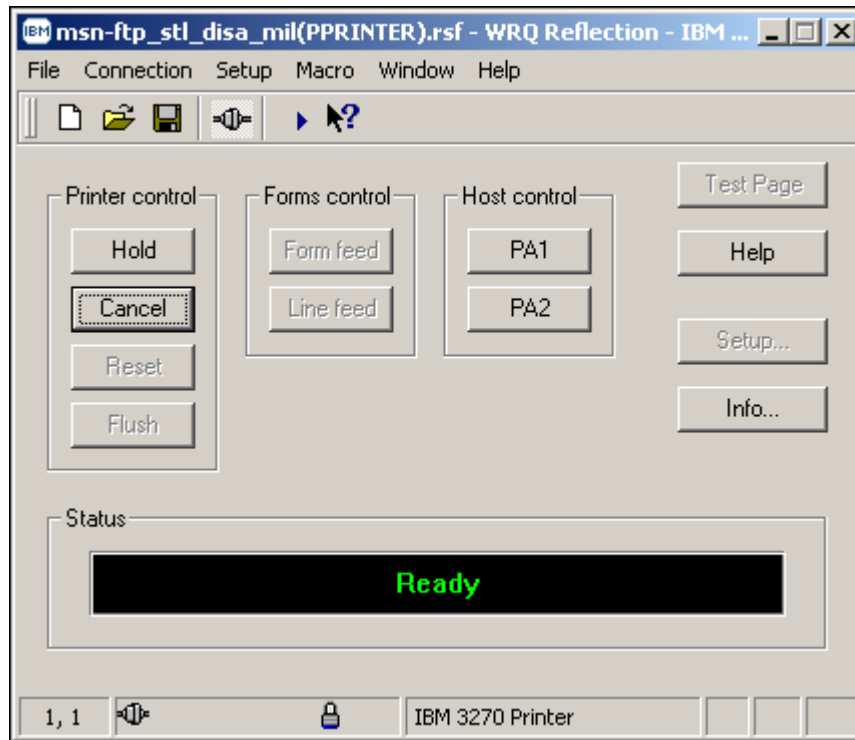
- Once the '*Orientation*' portion and the '*Print on Both Sides(Duplex)*' portion of this screen have been set as described above, mouse click on the  button to complete and close this windows dialog screen, returning back to the '*Printer Setup*' windows dialog screen as shown below.

MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

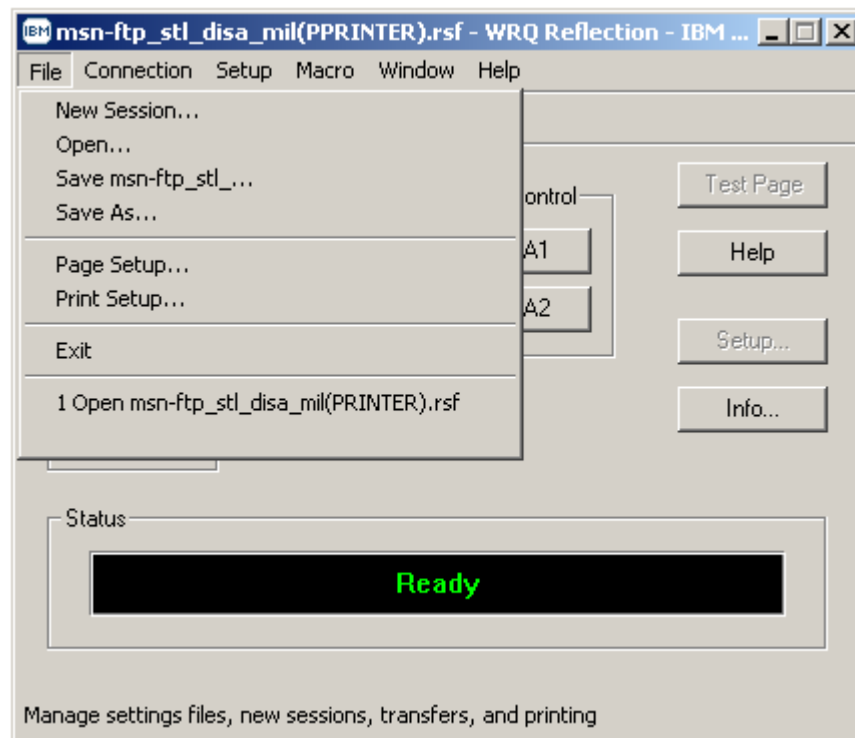


- Mouse click on the  button of the *'Printer Setup'* windows dialog screen to complete and close this windows dialog screen, returning back to the Reflection 3270 printer session window as shown below.

MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT



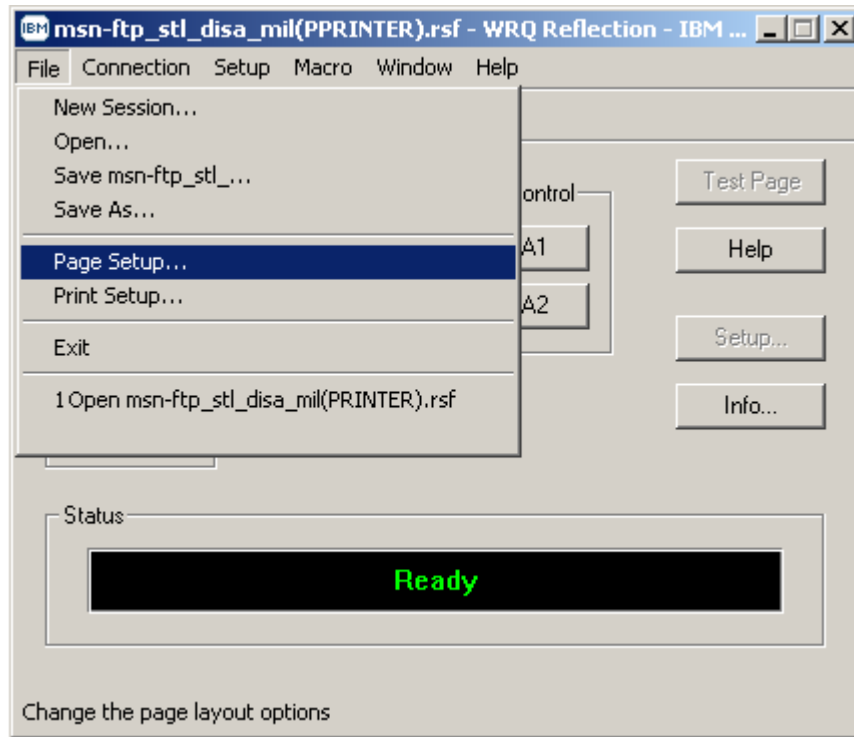
- From the 3270 printer session window again mouse click on the **File** option located on the top tool bar menu and a windows drop down menu will appear as shown below.



WRQ Inc. Reflection for IBM Version 10.0 User Guide

MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

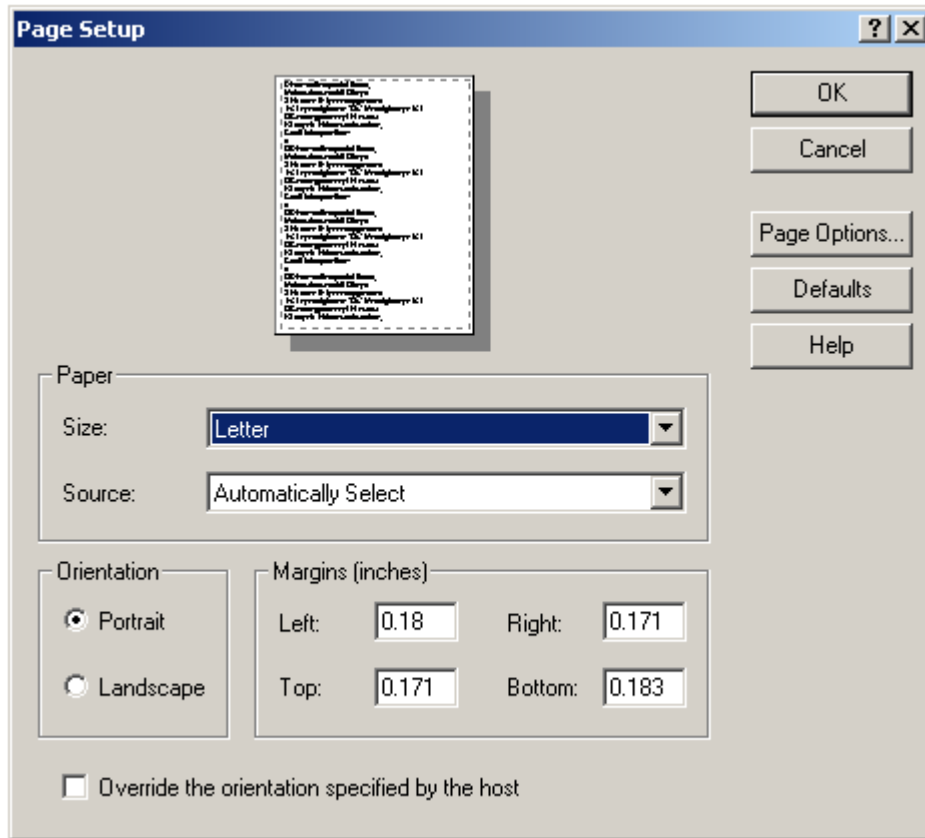
- From this drop down menu select **Page Setup...** with your mouse.



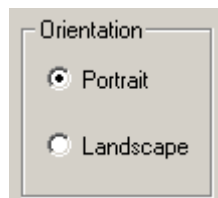
WRQ Inc. Reflection for IBM Version 10.0 User Guide

MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

Once **Page Setup...** has been selected the widows dialog screen shown below will appear.




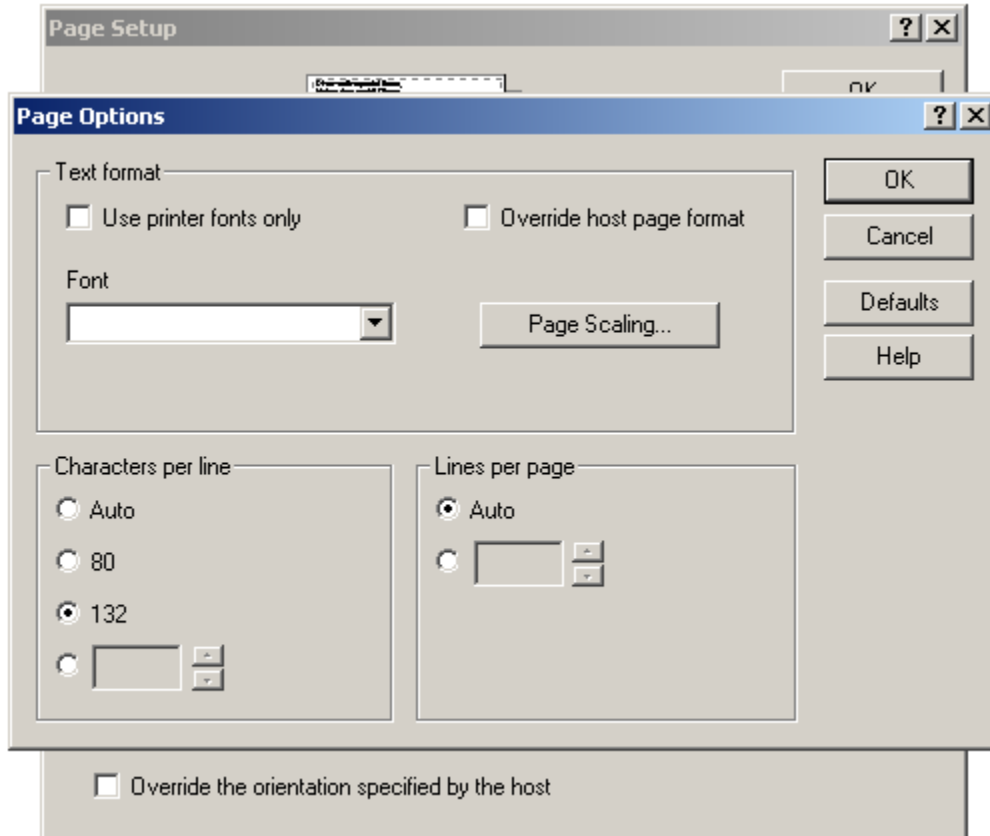
- On the '**Page Setup**' dialog window shown above, decide on your '**Paper Size:**' and '**Paper Source:**' by mouse click on the drop down arrows associated with each of these paper options.
- Ensure that the page orientation is set to '**Portrait**' on the '**Orientation**' portion of this dialog window as shown below.



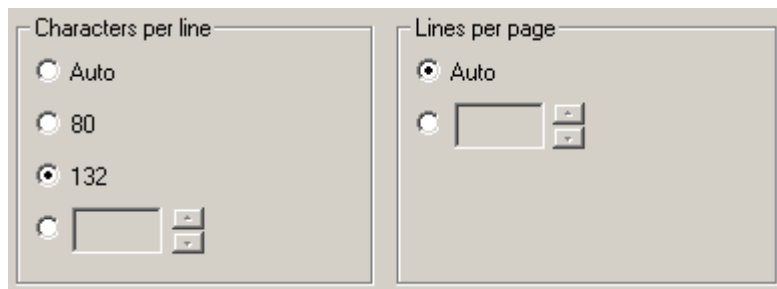
WRQ Inc. Reflection for IBM Version 10.0 User Guide

MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

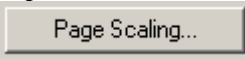
- Mouse click on the  button and a second windows dialog screen will appear as shown below.

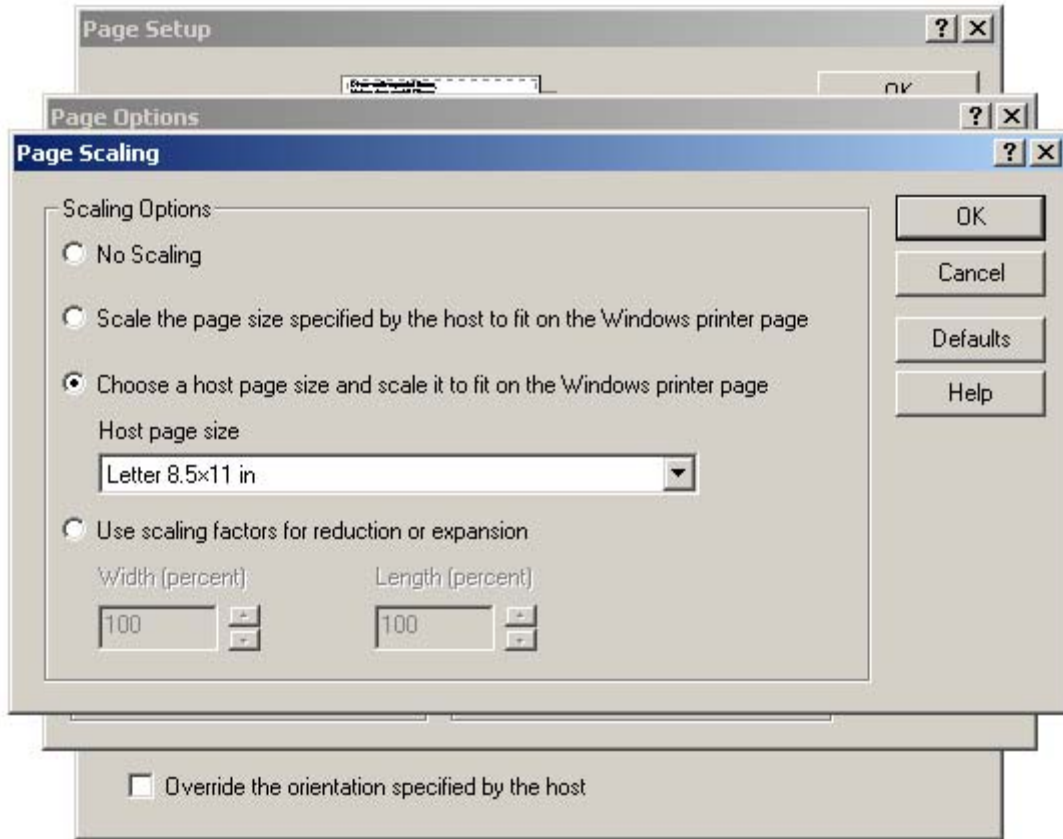


- On the *'Page Options'* windows dialog screen determine and set the *'Characters per line'* and *'Lines per page'* as shown below.



MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

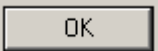
- Once the *'Characters per line'* and *'Lines per page'* options on this dialog screen have been set, mouse click on the  button and a third windows dialog screen will appear as shown below.

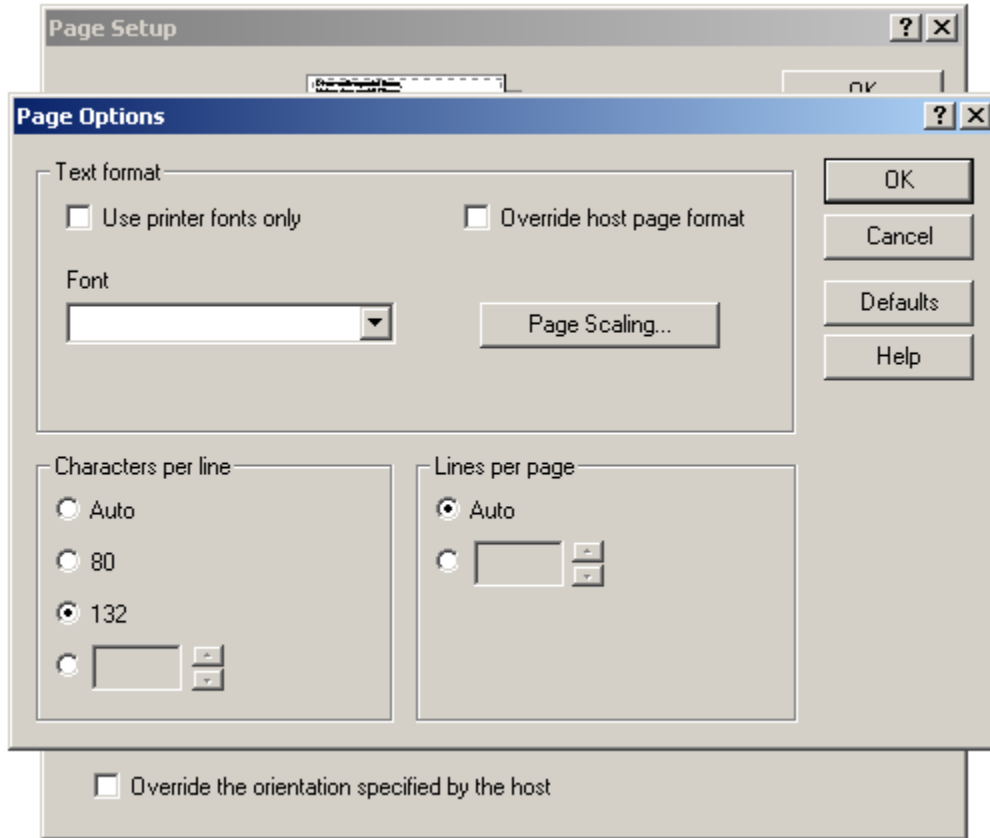


- On the *'Page Scaling'* options windows dialog screen determine and set your scaling options as shown above.

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MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

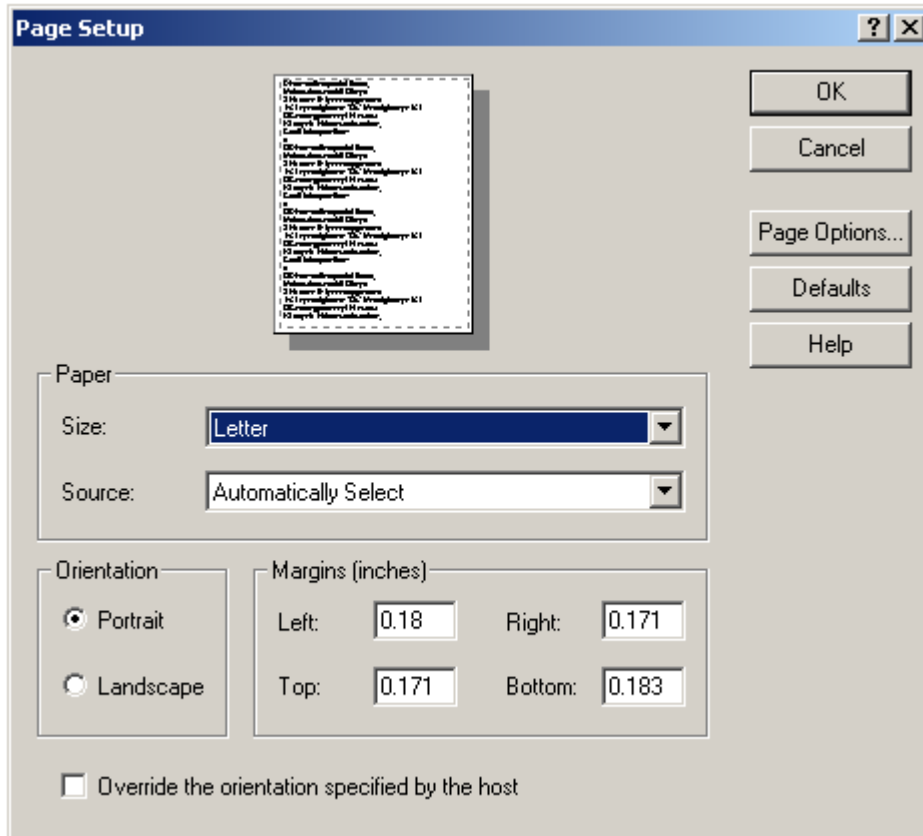
- Once your scaling options have been set, mouse click on the  button to complete and close this dialog screen returning you back to the 'Page Options' windows dialog screen as shown below.



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MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

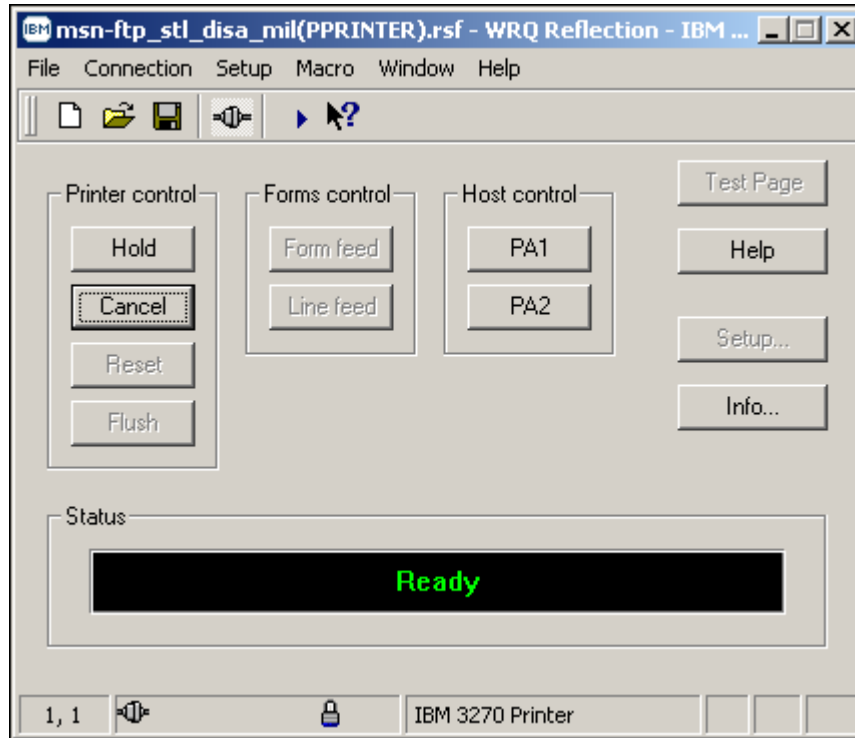
- Mouse click on the  button of the 'Page Options' windows dialog screen to complete and close this windows dialog screen, returning back to the 'Page Setup' windows dialog screen shown below.



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MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

- Mouse click on the  button of the 'Page Setup' windows dialog screen to complete and close this windows dialog screen, returning back to the Reflection 3270 printer session window as shown below.



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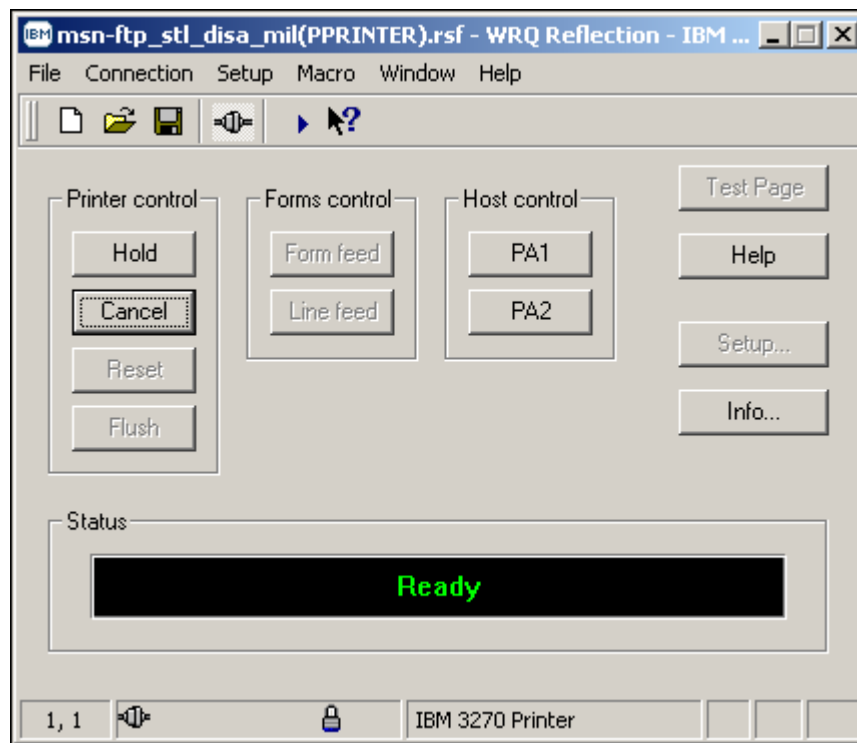
MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

Printer as well as terminal sessions have been configured with default properties. From time to time it may become necessary to change the defaults, to meet your immediate needs.

It should be noted that changes to the defaults apply only to the current session, unless prior to exiting / closing the session you save the session with the newly modified configuration / properties.

To change the Reflection 3270 printer session properties to print in 'Landscape' printing format perform the following steps:

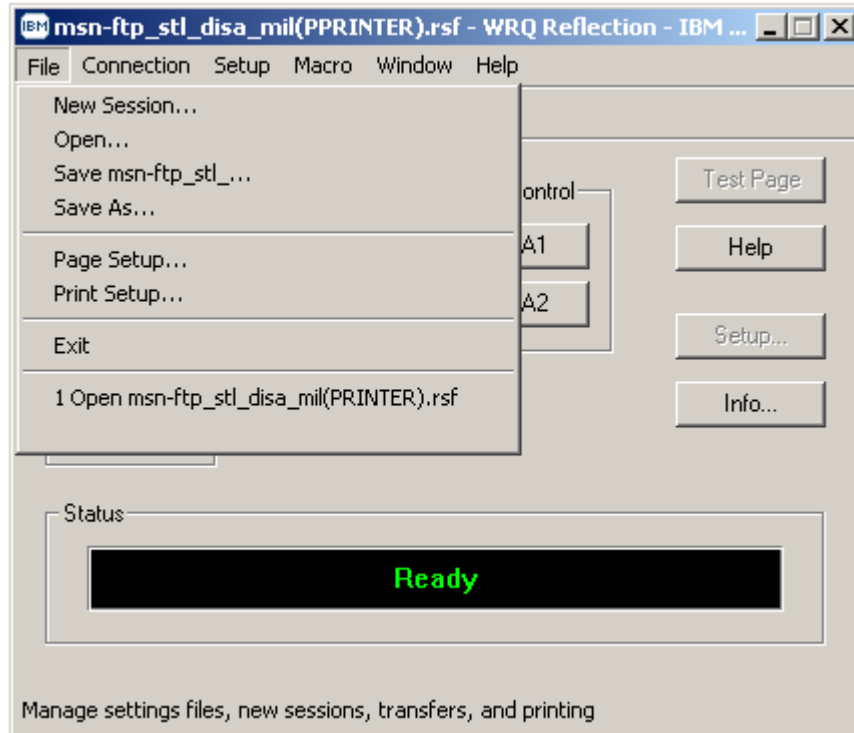
- Open a normal Reflection 3270 printer session as described on pages 12 through 20.
- Upon completion of those instructions you should see the 3270 printer session window as shown below.



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MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

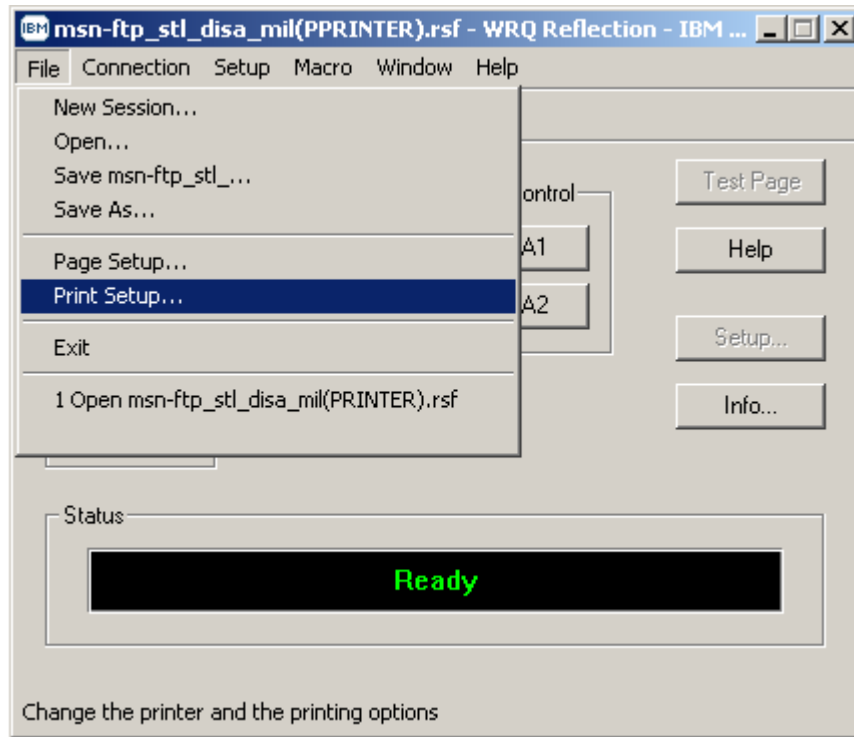
- From the 3270 printer session window mouse click on the **File** option located on the top tool bar menu and a windows drop down menu will appear as shown below.



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MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

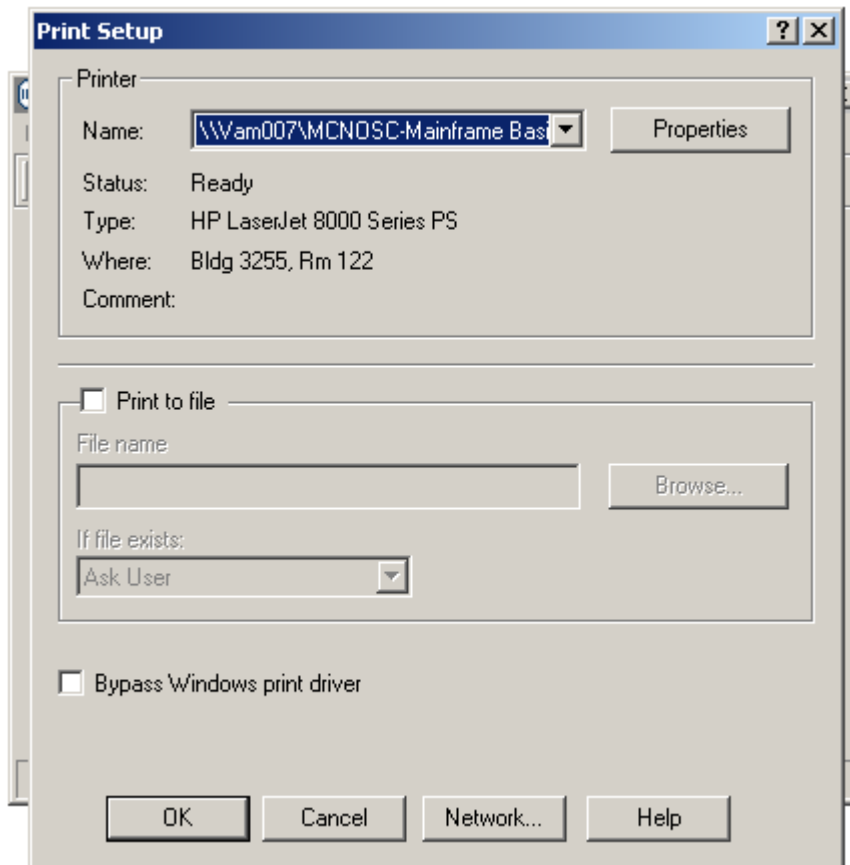
- From this drop down menu select **Print Setup...** with your mouse.




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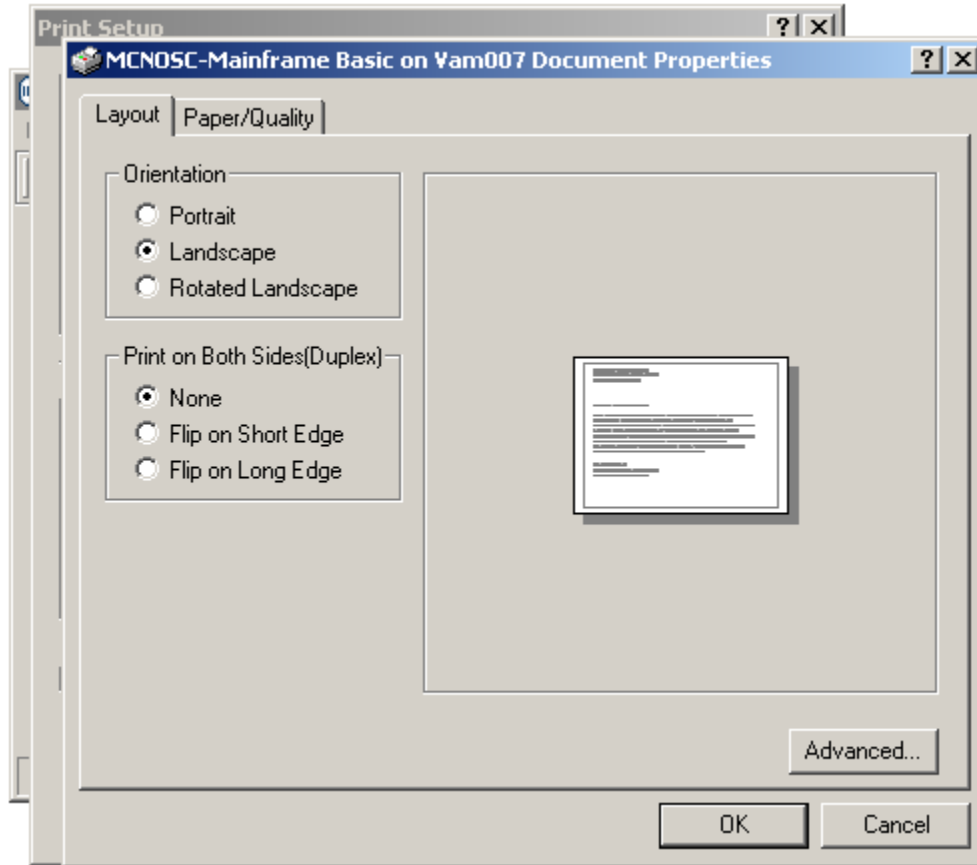
MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

- Once **Print Setup...** has been selected the widows dialog screen shown below will appear.



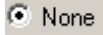
MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

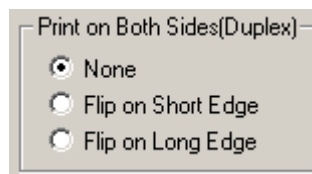
- From this dialog window mouse click on the  button and a second windows dialog screen will appear as shown below.



- On the  tab of this windows dialog screen ensure that the '**Orientation**' portion of this screen is set to '**Landscape**' or '**Rotated Landscape**' as shown below.

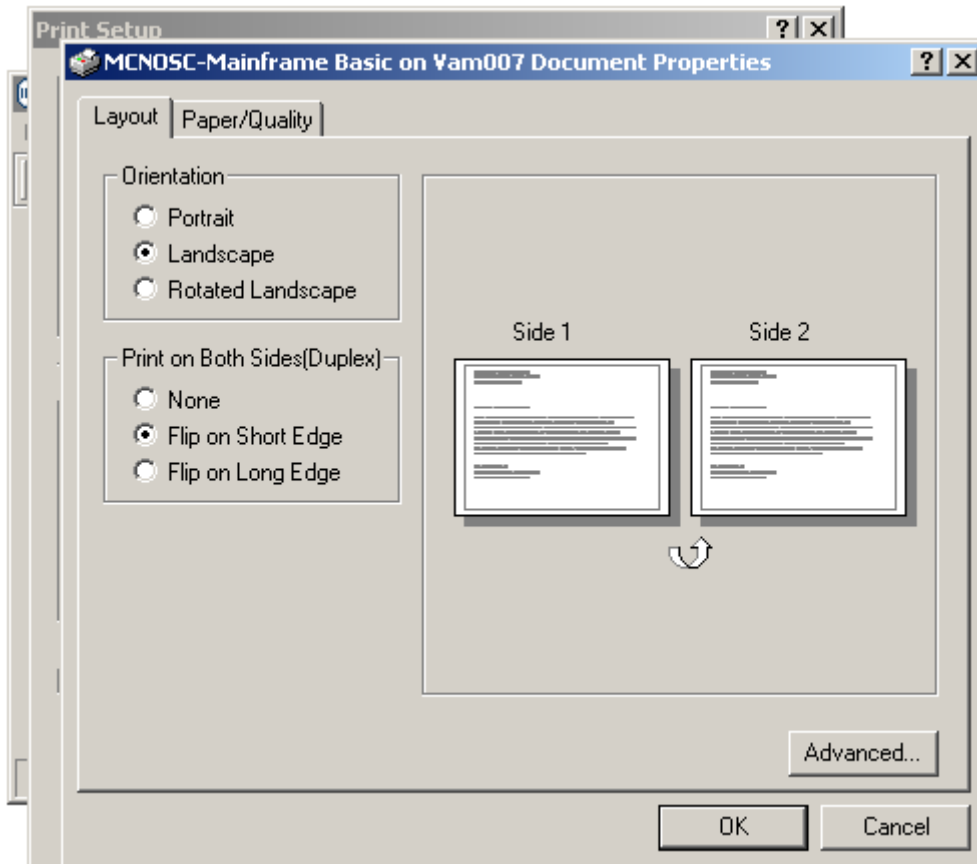


- Ensure that the '**Print on Both Sides(Duplex)**' portion of this screen is set to  if your printer is not capable of performing 'duplex' as shown below.



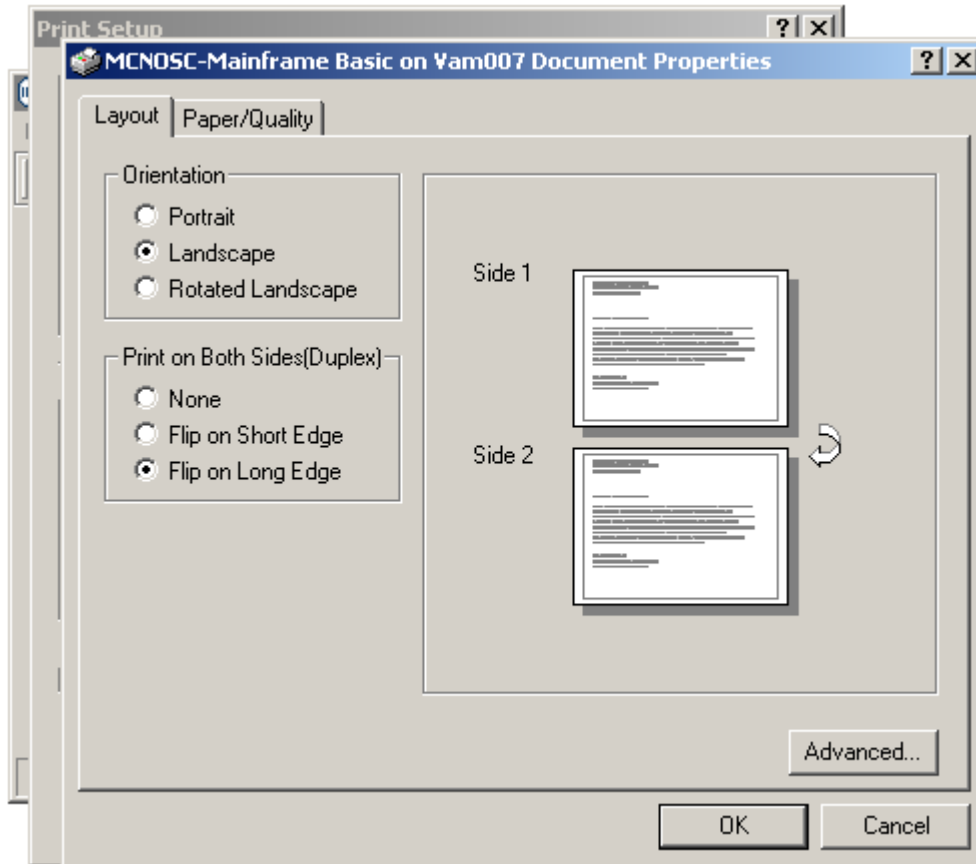
MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE


- If your printer is capable of 'duplex' printing you may select either Flip on Short Edge or Flip on Long Edge based on your preferences or requirements. A graphical representation of each of these types of 'duplex' printing displays on the dialog screen based on your selection as shown below in the two examples.
- Example of '*Flip on Short Edge*' duplex printing dialog screen.



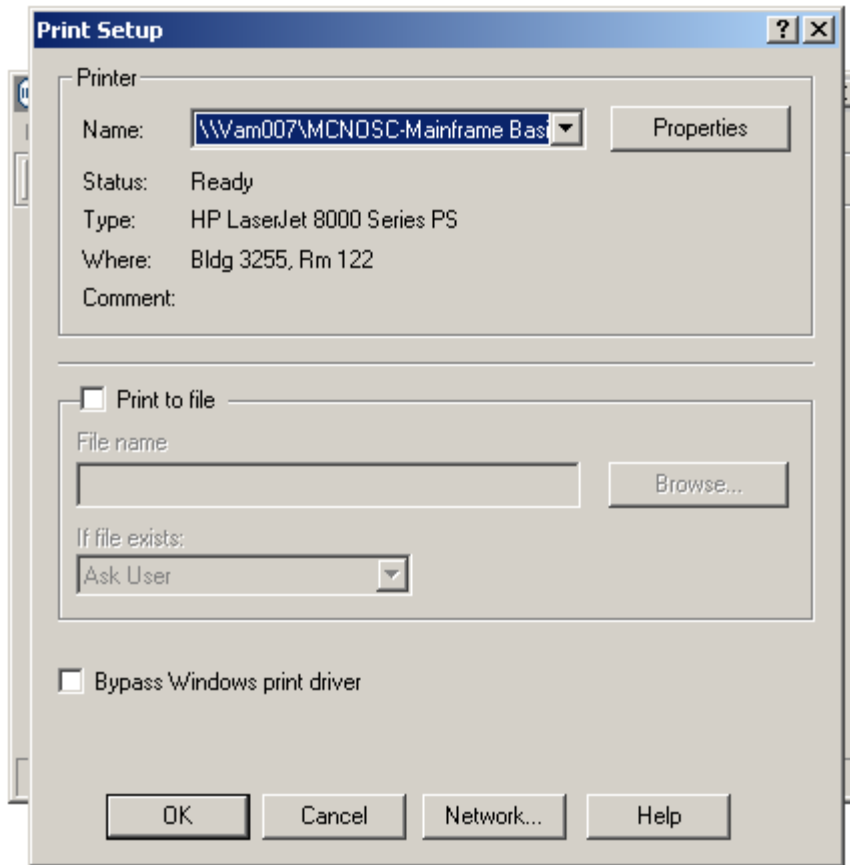
MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

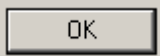
- Example of 'Flip on Long Edge' duplex printing dialog screen.



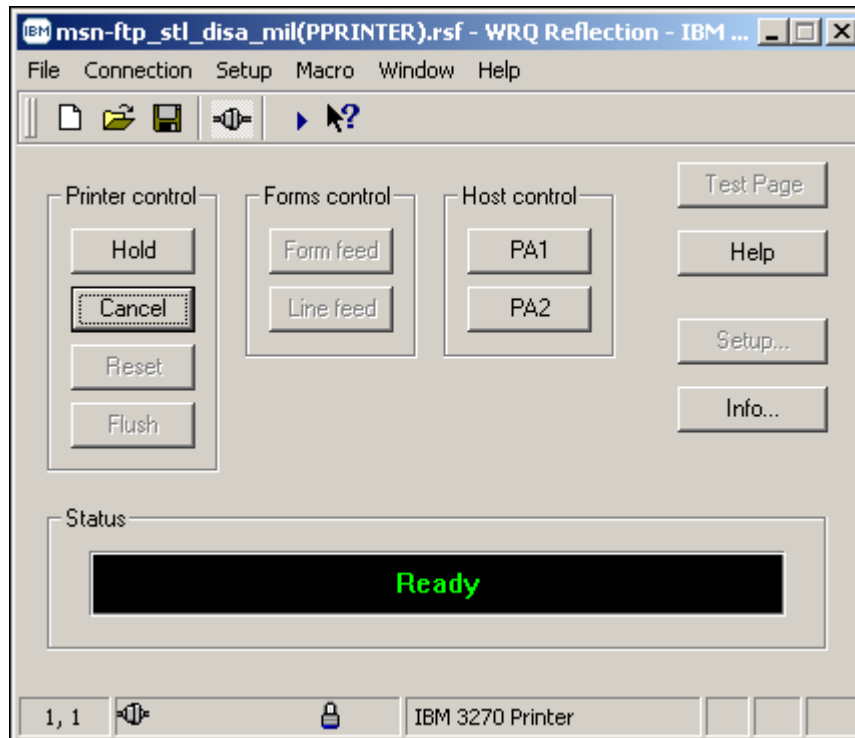
- Once the 'Orientation' portion and the 'Print on Both Sides(Duplex)' portion of this screen have been set as described above, mouse click on the  button to complete and close this windows dialog screen, returning back to the 'Printer Setup' windows dialog screen as shown below.

MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

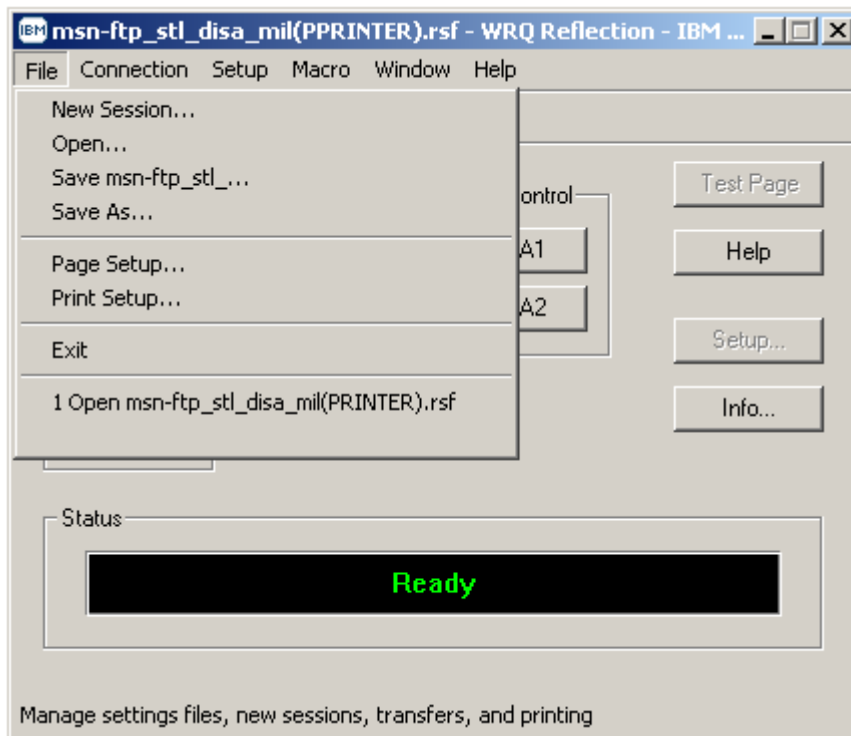


- Mouse click on the  button of the *'Printer Setup'* windows dialog screen to complete and close this windows dialog screen, returning back to the Reflection 3270 printer session window as shown below.

MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE



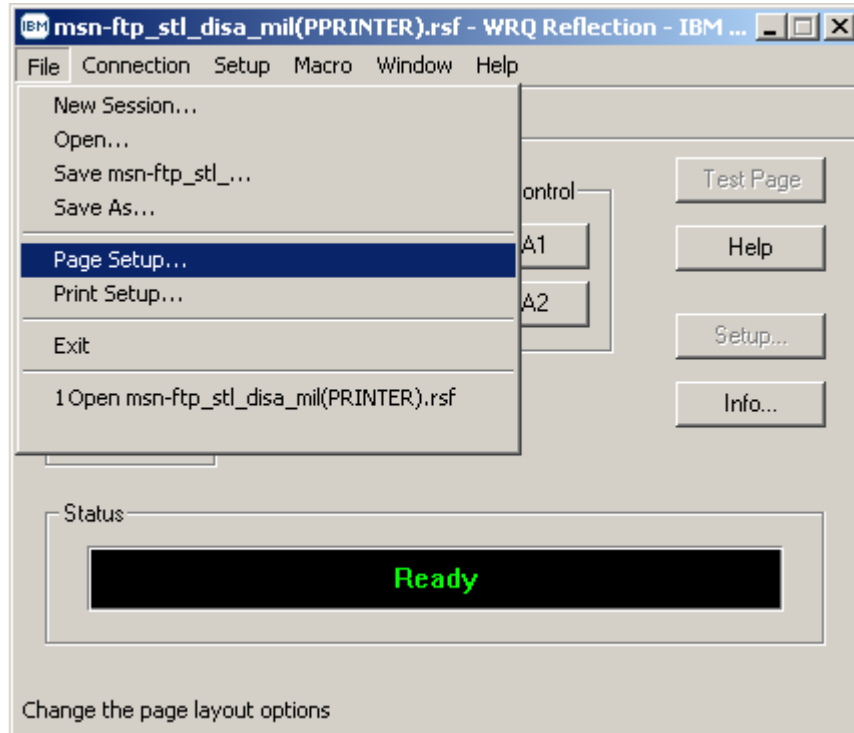
- From the 3270 printer session window again mouse click on the **File** option located on the top tool bar menu and a windows drop down menu will appear as shown below.



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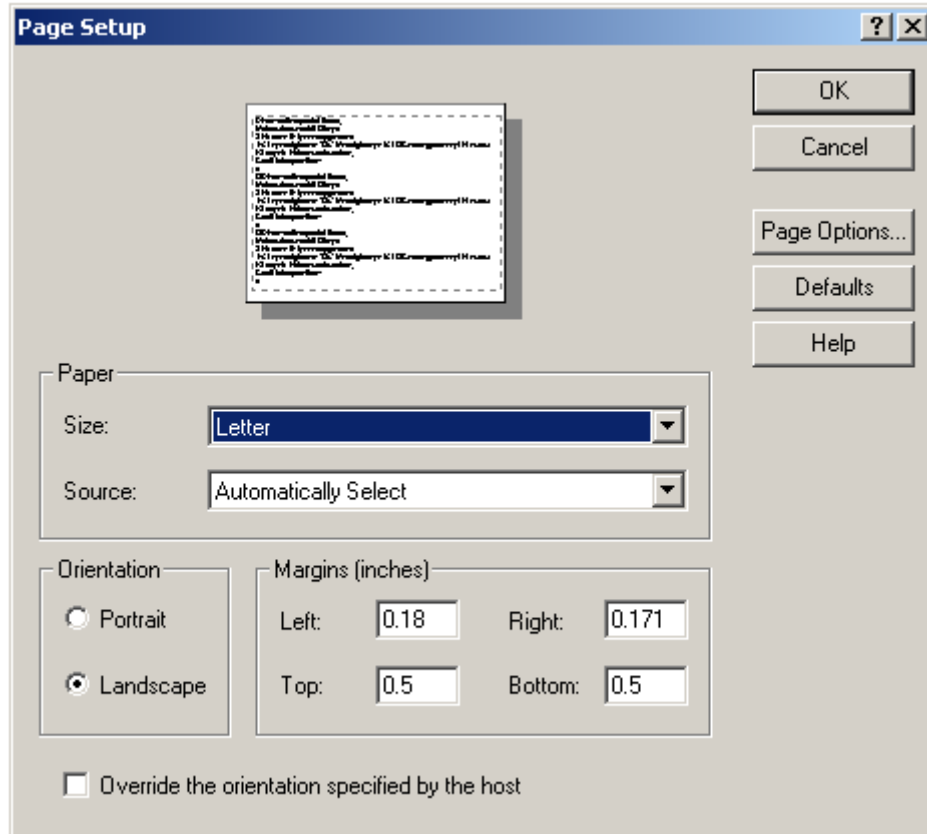
MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

- From this drop down menu select **Page Setup...** with your mouse.

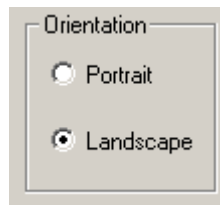


MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE


Once **Page Setup...** has been selected the widows dialog screen shown below will appear.

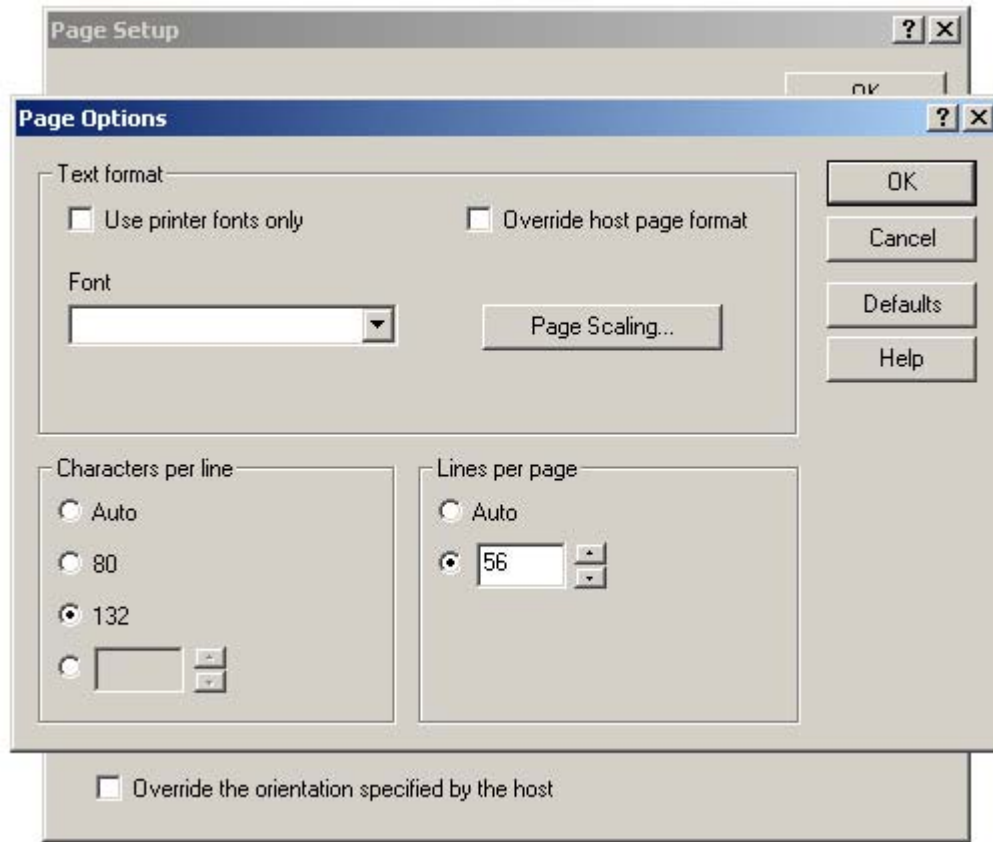


- On the **'Page Setup'** dialog window shown above, decide on your **'Paper Size:'** and **'Paper Source:'** by mouse click on the drop down arrows associated with each of these paper options.
- Ensure that the page orientation is set to **'Landscape'** on the **'Orientation'** portion of this dialog window as shown below.

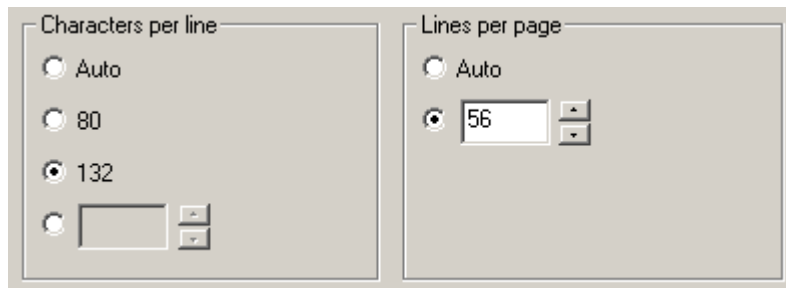


MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

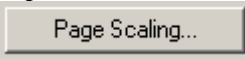
- Mouse click on the  button and a second windows dialog screen will appear as shown below.

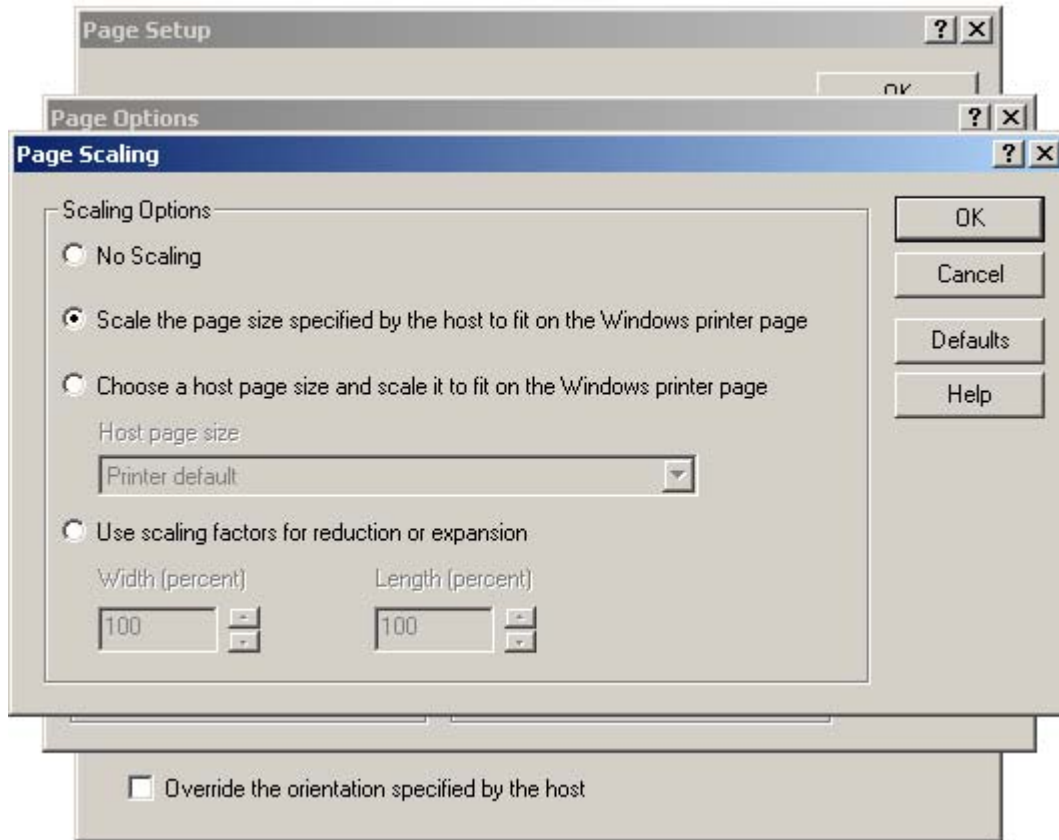


- On the *'Page Options'* windows dialog screen determine and set the *'Characters per line'* and *'Lines per page'* as shown below.



MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

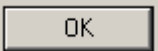
- Once the *'Characters per line'* and *'Lines per page'* options on this dialog screen have been set, mouse click on the  button and a third windows dialog screen will appear as shown below.

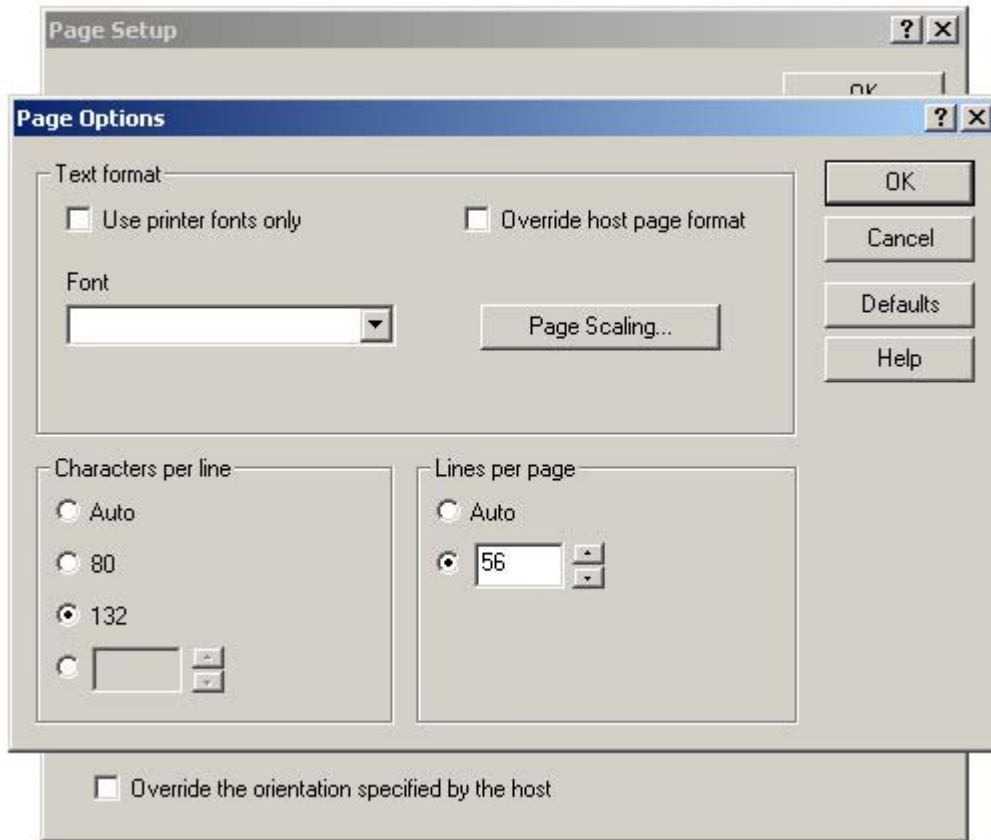


- On the *'Page Scaling'* options windows dialog screen determine and set your scaling options as shown above.

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MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

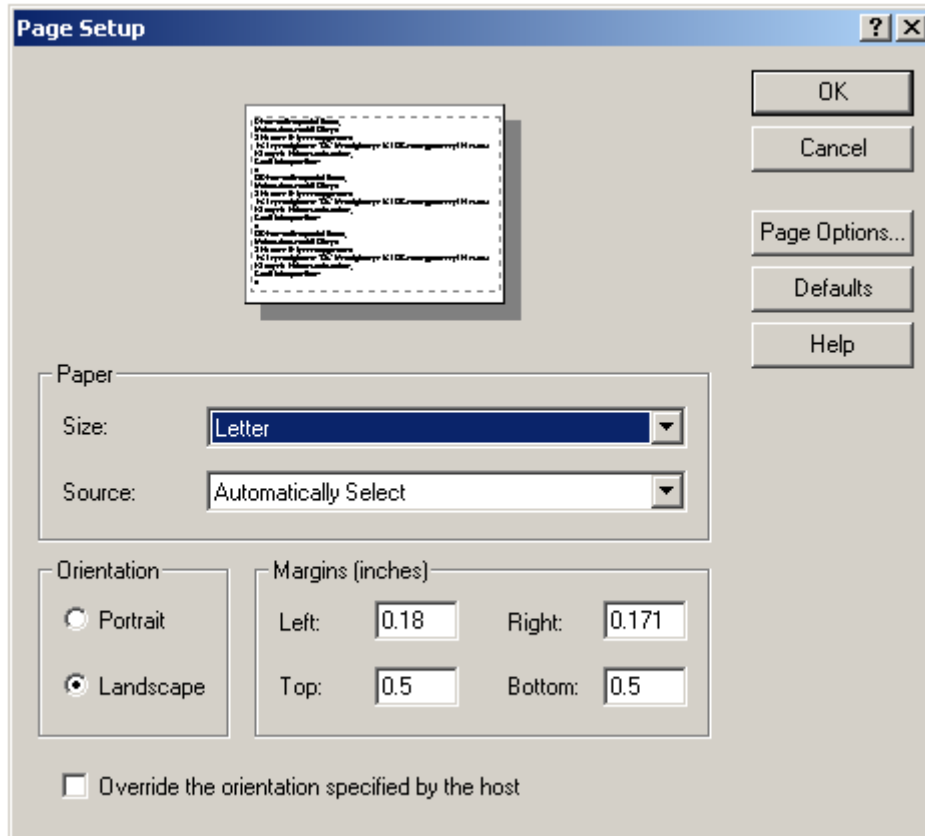
- Once your scaling options have been set, mouse click on the  button to complete and close this dialog screen returning you back to the 'Page Options' windows dialog screen as shown below.



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MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

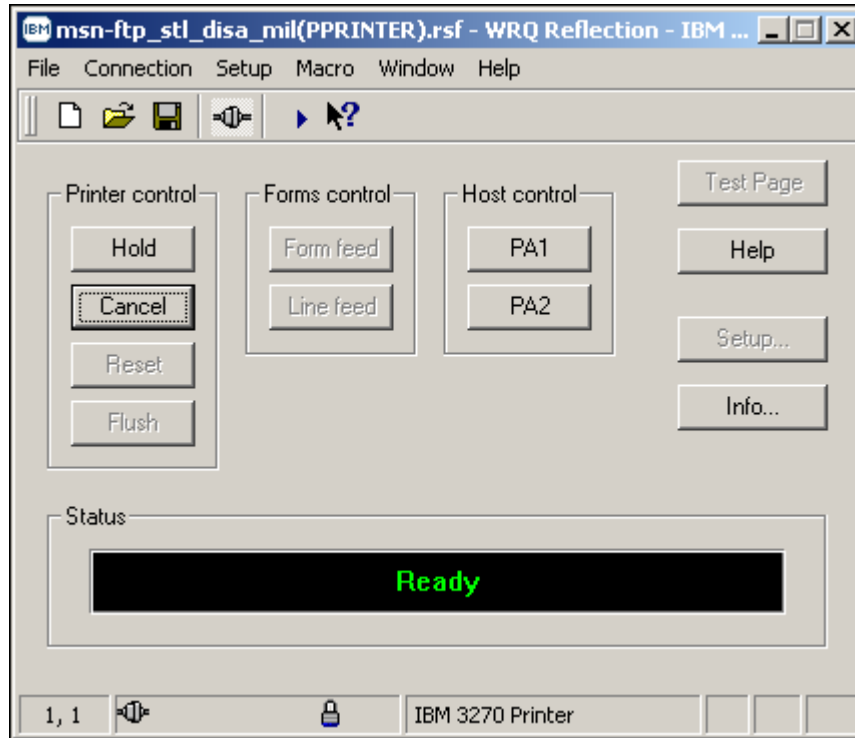
- Mouse click on the  button of the 'Page Options' windows dialog screen to complete and close this windows dialog screen, returning back to the 'Page Setup' windows dialog screen shown below.



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MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

- Mouse click on the  button of the 'Page Setup' windows dialog screen to complete and close this windows dialog screen, returning back to the Reflection 3270 printer session window as shown below.

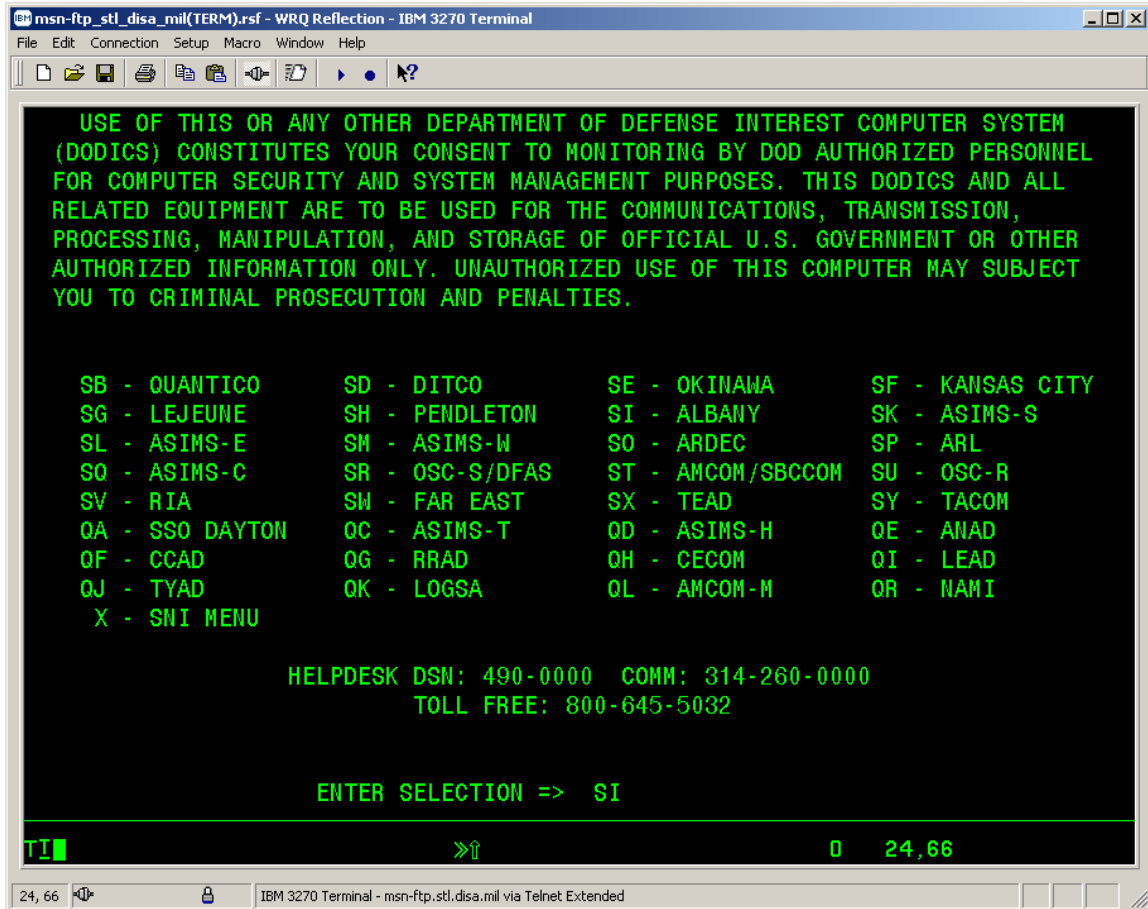


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IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

From the *DoD Warning / Site Selection* screen enter the two character site code associated with the mainframe domain you wish to access.



```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
USE OF THIS OR ANY OTHER DEPARTMENT OF DEFENSE INTEREST COMPUTER SYSTEM
(DODICS) CONSTITUTES YOUR CONSENT TO MONITORING BY DOD AUTHORIZED PERSONNEL
FOR COMPUTER SECURITY AND SYSTEM MANAGEMENT PURPOSES. THIS DODICS AND ALL
RELATED EQUIPMENT ARE TO BE USED FOR THE COMMUNICATIONS, TRANSMISSION,
PROCESSING, MANIPULATION, AND STORAGE OF OFFICIAL U.S. GOVERNMENT OR OTHER
AUTHORIZED INFORMATION ONLY. UNAUTHORIZED USE OF THIS COMPUTER MAY SUBJECT
YOU TO CRIMINAL PROSECUTION AND PENALTIES.

SB - QUANTICO      SD - DITCO        SE - OKINAWA      SF - KANSAS CITY
SG - LEJEUNE      SH - PENDLETON   SI - ALBANY       SK - ASIMS-S
SL - ASIMS-E      SM - ASIMS-W     SO - ARDEC        SP - ARL
SQ - ASIMS-C      SR - OSC-S/DFAS  ST - AMCOM/SBCCOM SU - OSC-R
SV - RIA          SW - FAR EAST    SX - TEAD         SY - TACOM
QA - SSO DAYTON   QC - ASIMS-T     QD - ASIMS-H      QE - ANAD
QF - CCAD         QG - RRAD        QH - CECOM        QI - LEAD
QJ - TYAD         QK - LOGSA       QL - AMCOM-M      QR - NAMI
X - SNI MENU

HELPDESK DSN: 490-0000  COMM: 314-260-0000
TOLL FREE: 800-645-5032

ENTER SELECTION =>  SI

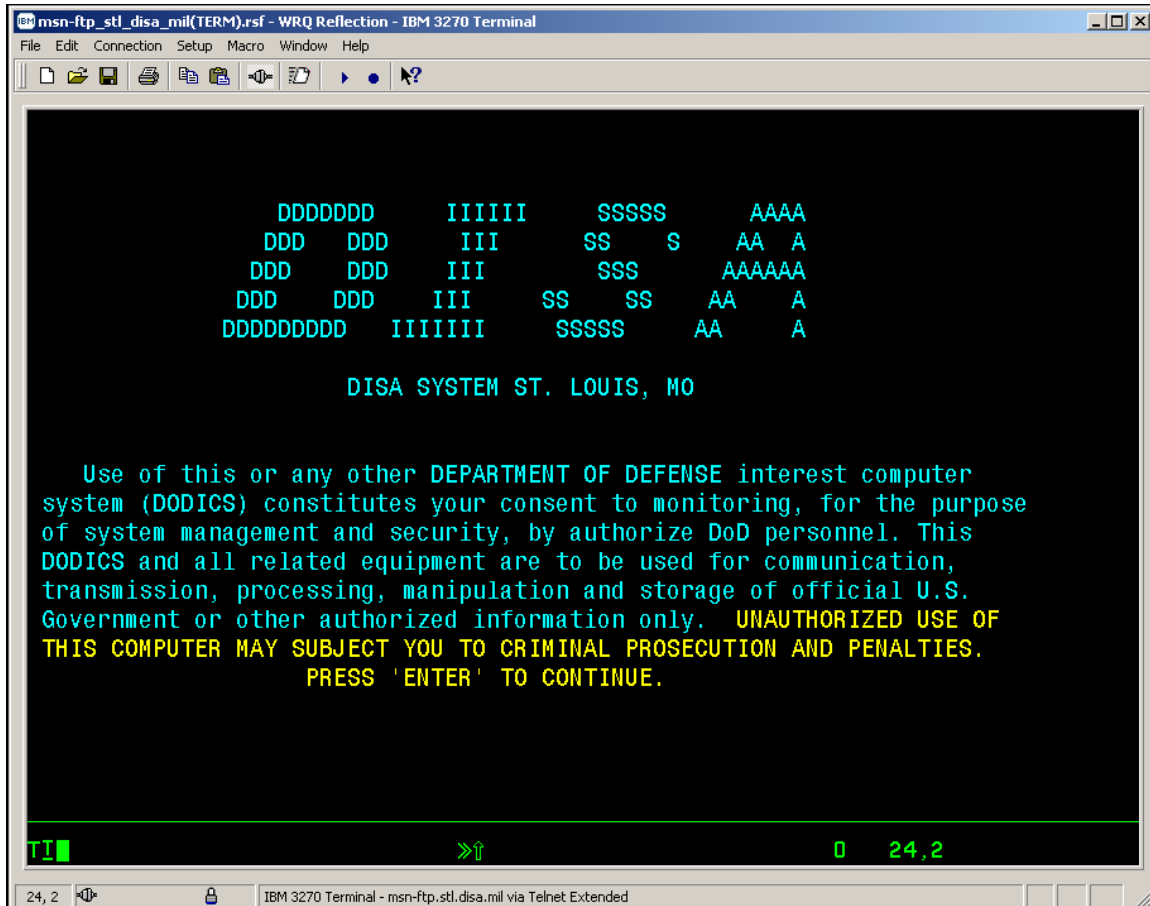
TI  >>  0  24.66
24, 66  IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended
```

*'SI' – ALBANY is being used here in this example
Information entered by you will be specific
to the domain you're accessing and your user-id*

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IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

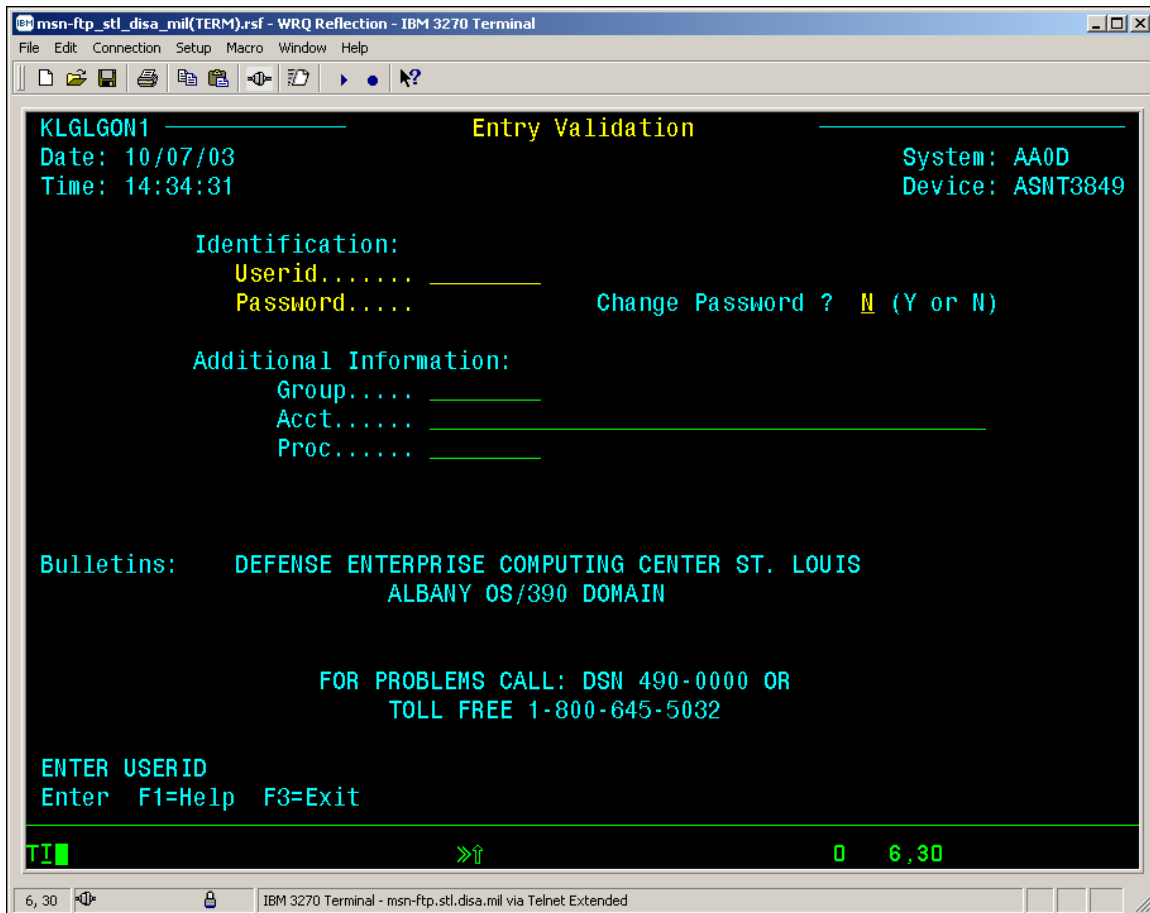
- From the terminal session green mainframe 3270 DoD Warning / site selection menu screen start to login as you normally would to the site(s) you utilize, i.e., (SI – ALBANY).
- Once you have entered your site selection and pressed the '*Enter key*' the **DISA Warning 3270** screen will appear as shown below.



- Pressed the '*Enter key*' to continue on to the **Userid / Password Entry Validation 3270** screen will appear as shown below.

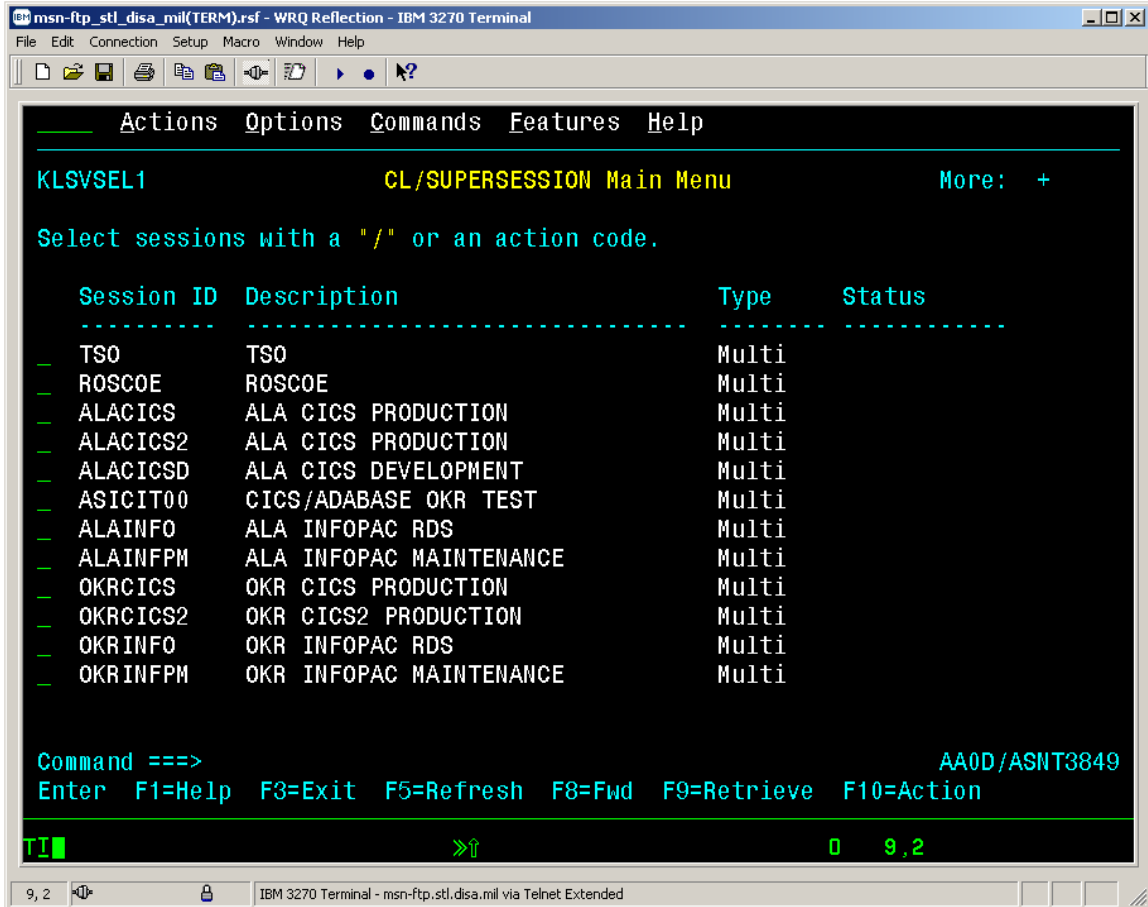
WRQ Inc. Reflection for IBM Version 10.0 User Guide

IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION



- Enter your mainframe 3270 *userid* and *password* and press the '*Enter key*' to continue. Upon doing so the *CL/SUPERSESSION* Main Menu will be displayed as shown below.

IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION



```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
----- Actions Options Commands Features Help
KLSVSEL1          CL/SUPERSESSION Main Menu          More: +
Select sessions with a "/" or an action code.

  Session ID  Description                                Type    Status
  -----
  TSO         TSO                                           Multi
  ROSCOE     ROSCOE                                       Multi
  ALACICS    ALA CICS PRODUCTION                         Multi
  ALACICS2   ALA CICS PRODUCTION                         Multi
  ALACICSD   ALA CICS DEVELOPMENT                       Multi
  ASICIT00   CICS/ADABASE OKR TEST                      Multi
  ALAINFO    ALA INFOPAC RDS                            Multi
  ALAINFPM   ALA INFOPAC MAINTENANCE                    Multi
  OKRCICS    OKR CICS PRODUCTION                         Multi
  OKRCICS2   OKR CICS2 PRODUCTION                       Multi
  OKRINFO    OKR INFOPAC RDS                            Multi
  OKRINFPM   OKR INFOPAC MAINTENANCE                    Multi

Command ==>
Enter F1=Help F3=Exit F5=Refresh F8=Fwd F9=Retrieve F10=Action
AA0D/ASNT3849
TI  >> 0 9,2
9,2 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended
```

- To logon to *TSO* you must press the *'Enter key'* while the cursor is on the selection line next to the *TSO* menu option.

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IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

- Once the *TSO* menu option has been selected and the “Enter key” pressed, the ‘ISPF Primary Option Menu’ shown below will be displayed.

The screenshot shows a terminal window titled "msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal". The menu is titled "ISPF Primary Option Menu" and lists various options. A copyright notice for IBM is displayed in a box, and the terminal shows the user ID "G9MP03" and other system information.

```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
Menu Utilities Compilers Options Status Help
ISPF Primary Option Menu
Option ==>
0 Settings A Production Products Menu User ID . : G9MP03
1 View (Browse) B Site Specific Applications Menu Time. . . : 15:03
2 Edit C Systems Maint Products Menu Terminal. : 3278
3 Utilities D Online Documentation Menu Screen. . : 1
4 Foreground I InfoMgt/Tivoli Service Desk Language. : ENGLISH
5 Batch S SDSF Appl ID . : ISR
6 Command T TSO Menu TSO logon : TSOSYS
7 Dialog Test U TSO Utility Commands TSO prefix: TSOMSB
8 LM Facility System ID : MS10
9 SCLM MVS acct. : Z1GGB001
Release . : ISPF 5.0

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Use, duplication or disclosure restricted
by GSA ADP Schedule Contract with IBM Corp. -9077

F1=Help F3=Exit F10=Actions F12=Cancel
TI 0 4,14
4, 14 IBM 3270 Terminal - msn-ftp_stl_disa_mil via Telnet Extended
```


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IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

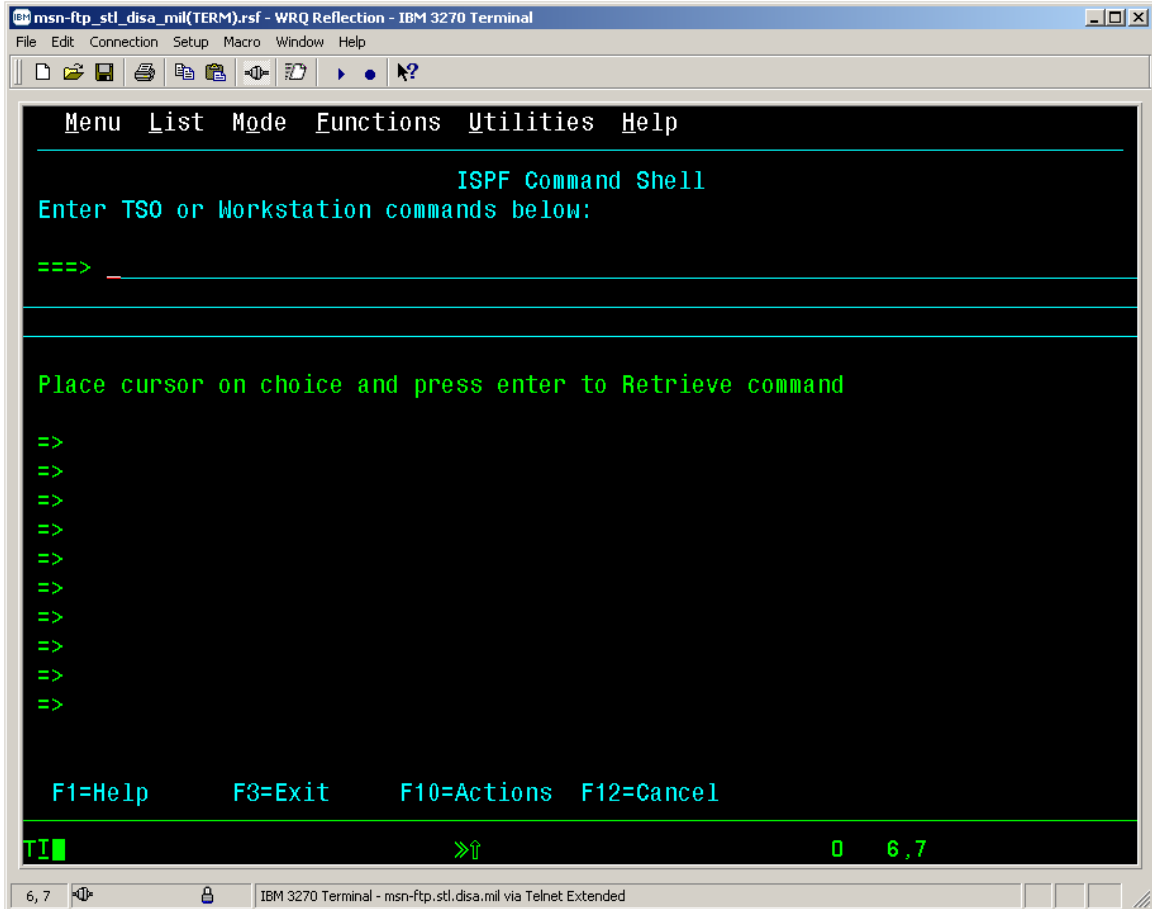
- Enter '6' on the Option line **Option ==> _____** as shown below to gain access to the 'Command' option.

```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
Menu Utilities Compilers Options Status Help
ISPF Primary Option Menu
Option ==> 6_
0 Settings A Production Products Menu User ID . : G9MP03
1 View (Browse) B Site Specific Applications Menu Time . . . : 15:44
2 Edit C Systems Maint Products Menu Terminal. : 3278
3 Utilities D Online Documentation Menu Screen. . : 1
4 Foreground I InfoMgt/Tivoli Service Desk Language. : ENGLISH
5 Batch S SDSF Appl ID . : ISR
6 Command T TSO Menu TSO logon : TSOSYS
7 Dialog Test U TSO Utility Commands TSO prefix: TSOMSB
8 LM Facility System ID : MSIO
9 SCLM MVS acct. : Z1GGB001
10 Workplace Release . : ISPF 5.0
Enter X to Terminate using log/list defaults
DMC Help Desk: DSN 693-9077/Commercial (314)263-9077
F1=Help F3=Exit F10=Actions F12=Cancel
TI >> 0 4,15
4, 15 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended
```

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IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

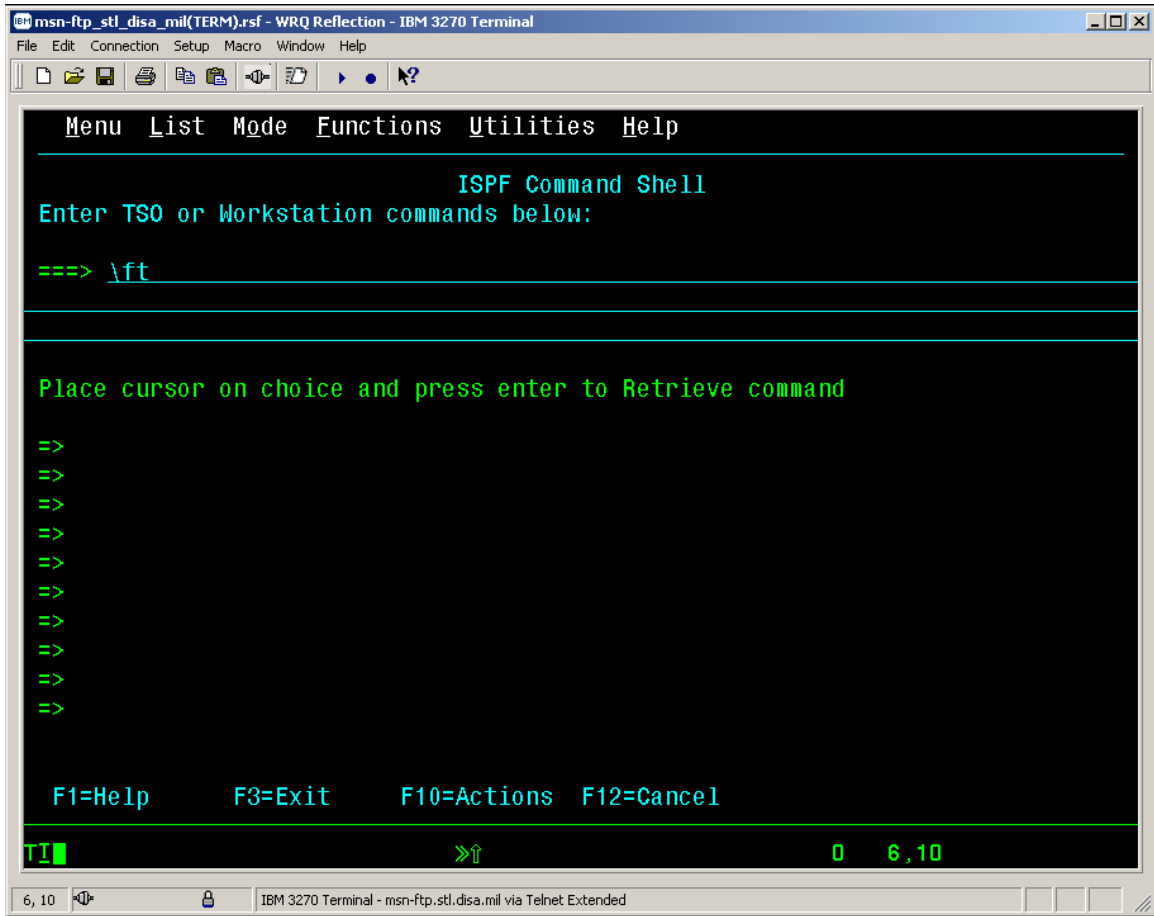
- The 'ISPF Command Shell' screen as shown below will be displayed.



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IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

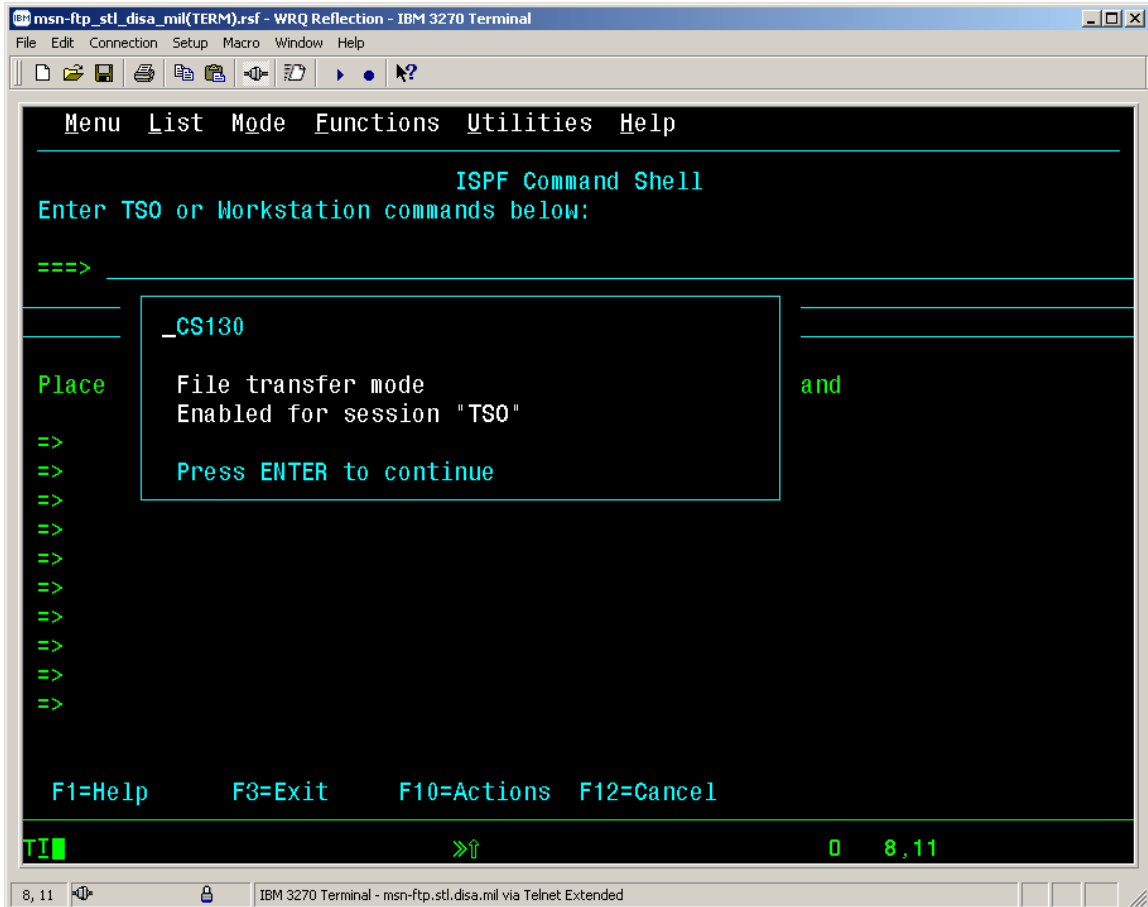
- At this point you must enter '**FT**' to enable file transfer mode for the TSO session.



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IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

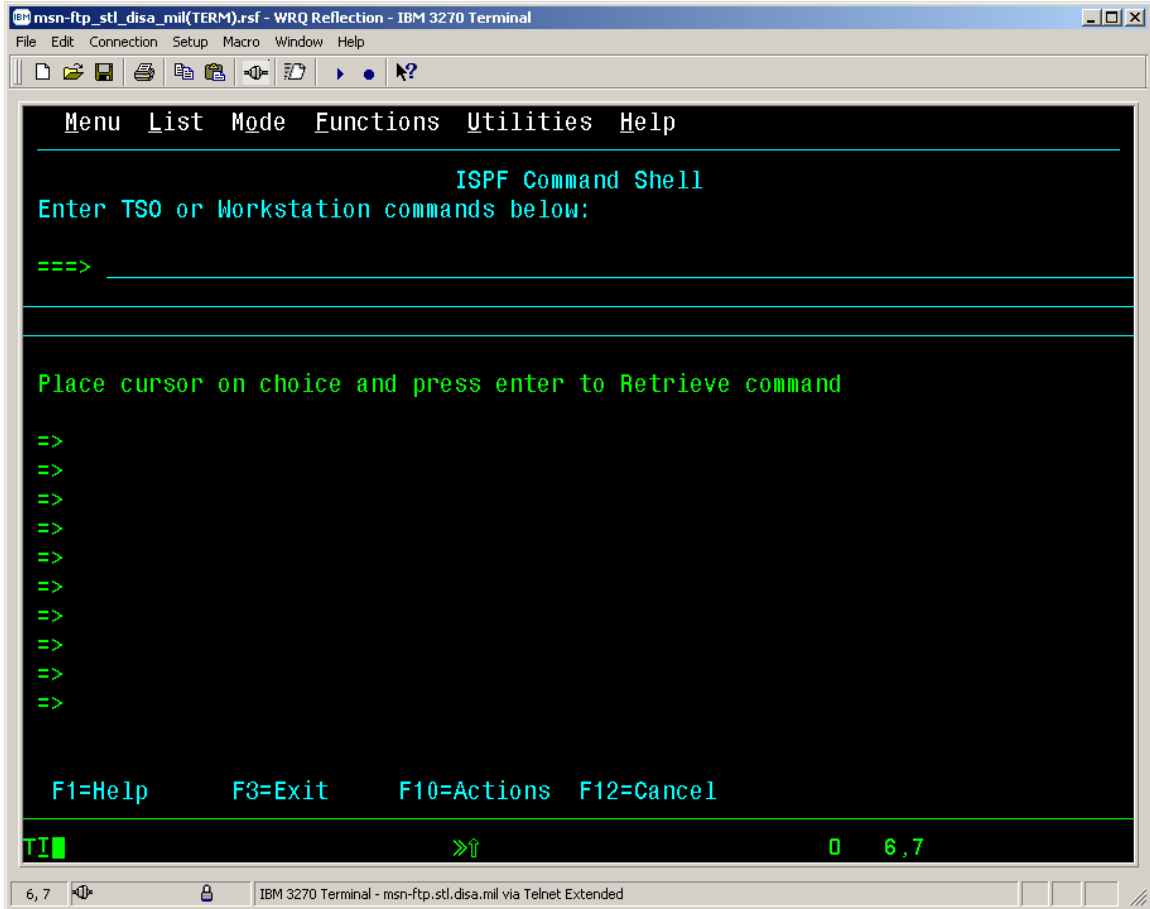
- Press the **'Enter key'** once **'FT'** has been entered and the following should appear on your display.



- Once you have pressed the **'Enter key'** the 3270 display screen will appear as shown below.

WRQ Inc. Reflection for IBM Version 10.0 User Guide

IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

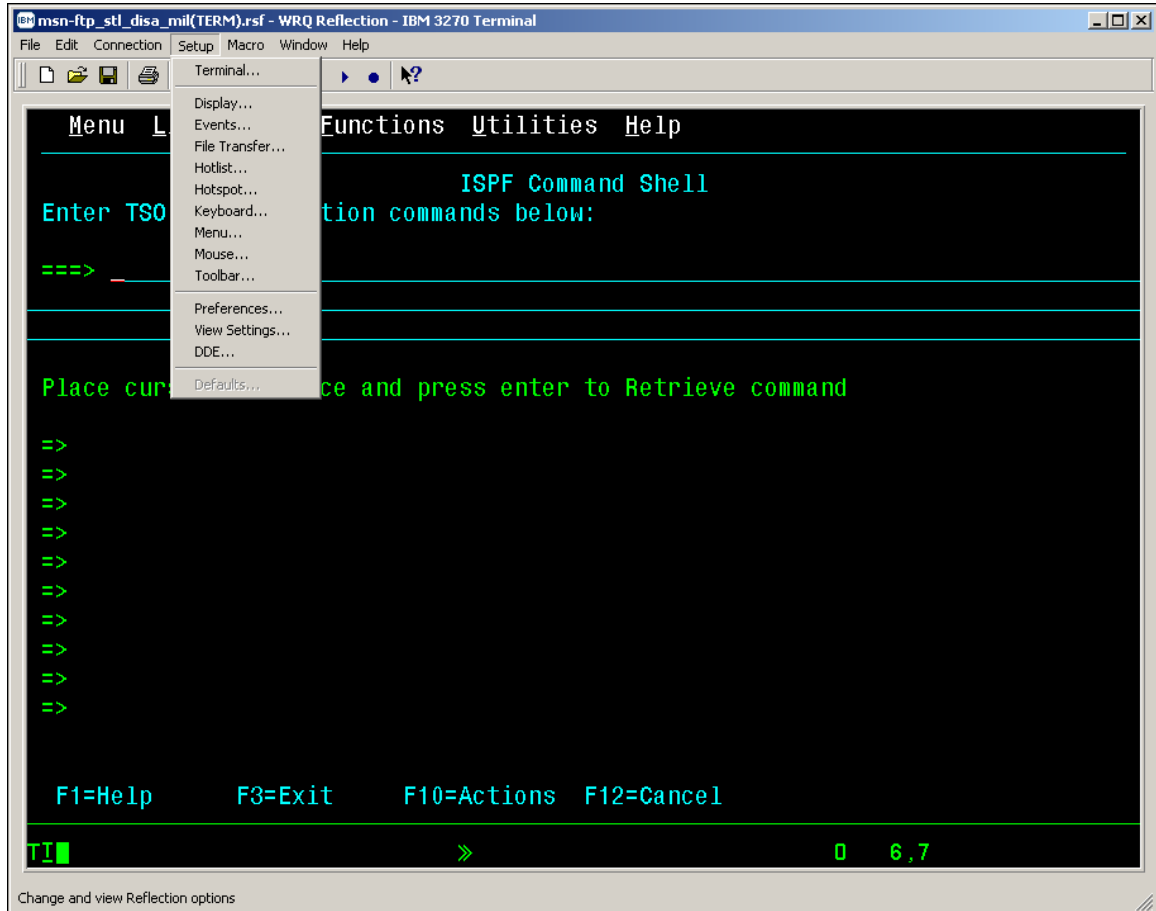


- With your mouse pointer select 'Setup' Setup from the top menu on the 3270 *msn-ftp.stl.disa.mil(TERM) – WQR Reflection – IBM 3270 Terminal* display screen.

WRQ Inc. Reflection for IBM Version 10.0 User Guide

IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

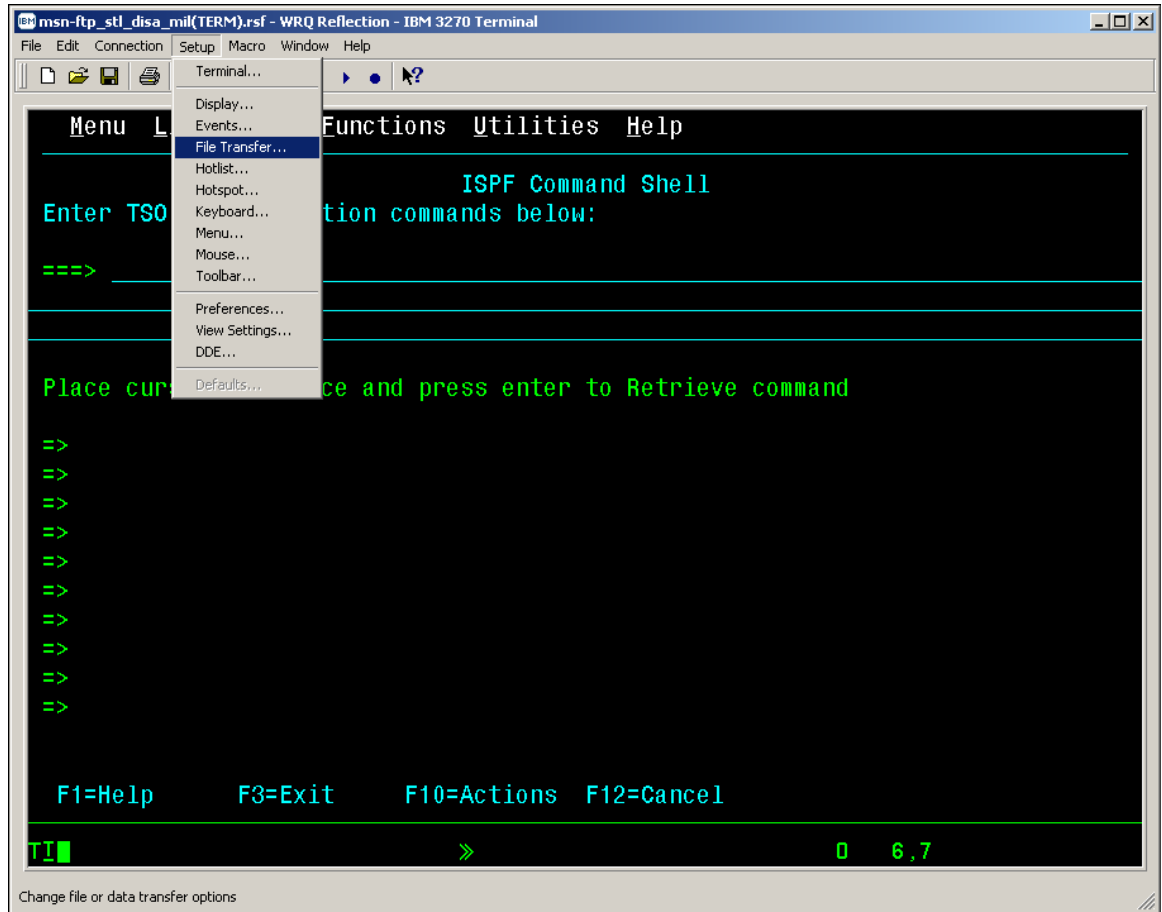
- The 'Setup' drop down menu as shown below will appear on the 3270 *msn-ftp.stl.disa.mil(TERM)* – *WQR Reflection* – *IBM 3270 Terminal* session screen.



WRQ Inc. Reflection for IBM Version 10.0 User Guide

IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

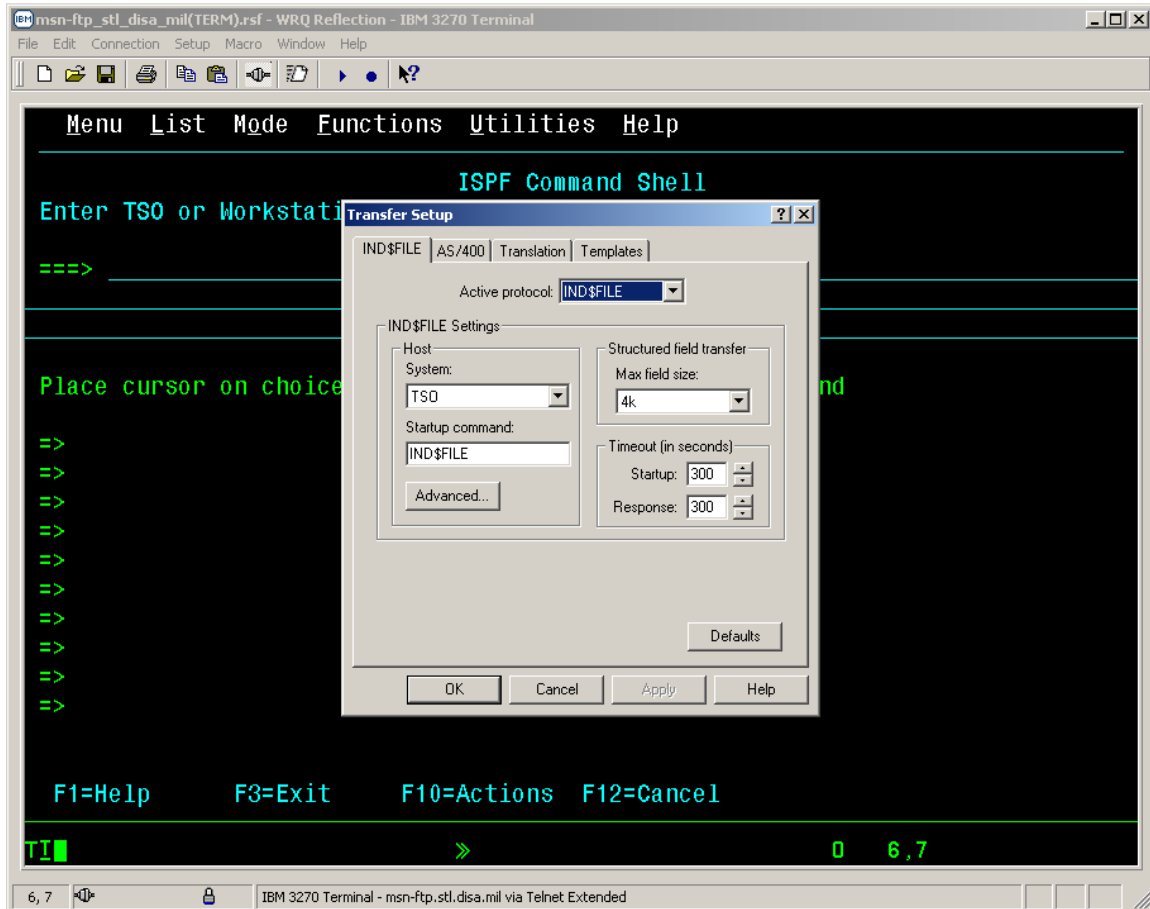
- From the 'Setup' drop down menu of the 3270 *msn-ftp.stl.disa.mil(TERM)* – *WQR Reflection* – *IBM 3270 Terminal* session screen select 'File Transfer...' as shown below.



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IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

- The 'Transfer Setup' dialog windows pop-up screen as shown below will be displayed.



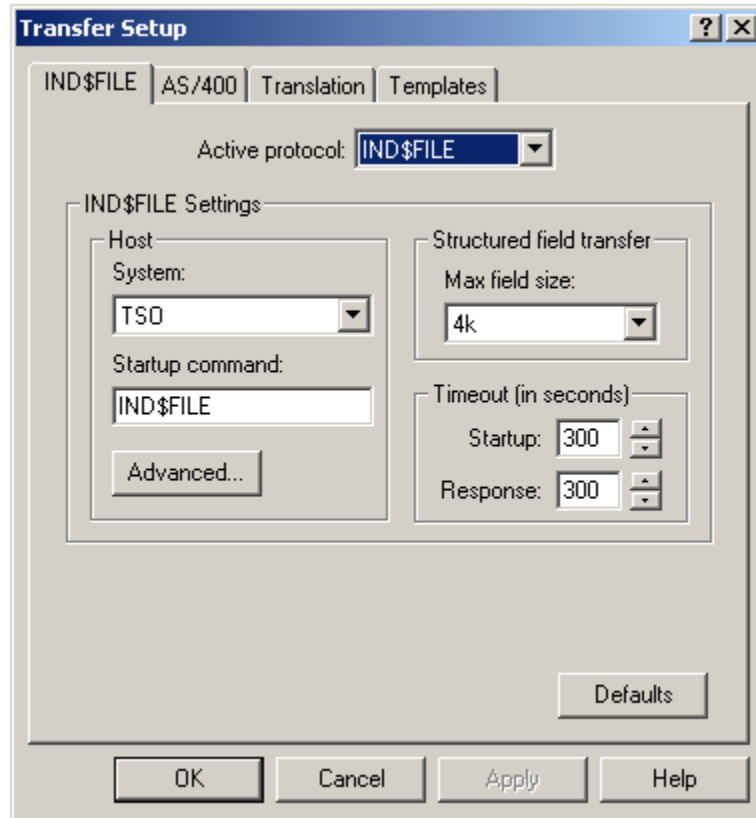
WRQ Inc. Reflection for IBM Version 10.0 User Guide

IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

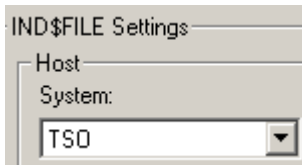
- On the 'IND\$FILE' tab of the 'Transfer Setup' dialog windows pop-up screen ensure that the

Active protocol:

dialog window is set to 'IND\$FILE' as shown below.

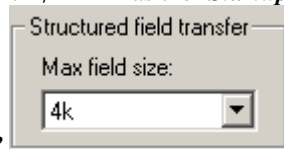


- Ensure that the



Startup command:

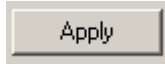

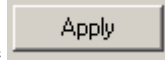
dialog window contains 'IND\$FILE' as the 'Startup command',

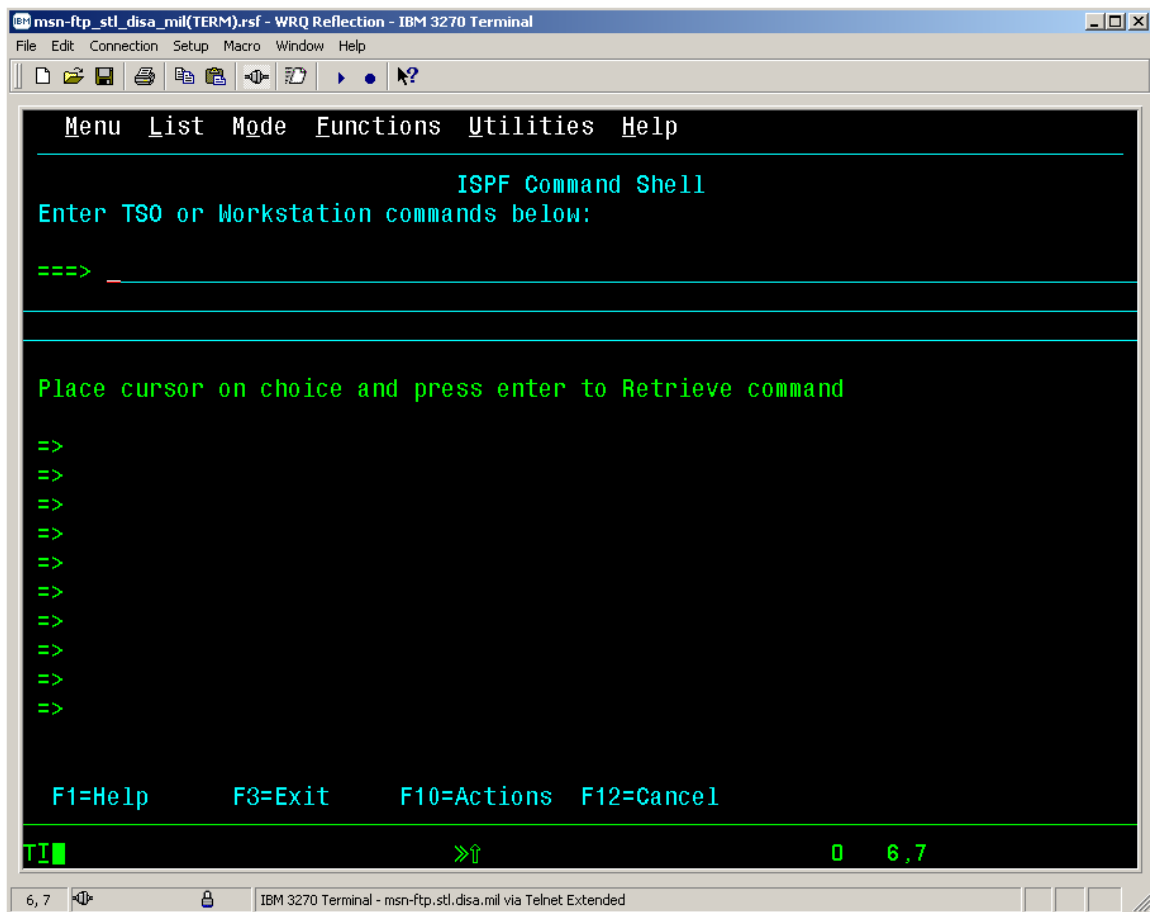


that 'Structured field transfer Max field size:' dialog box contains '4k', and that the 'Timeout (in seconds)Startup: / Response;' dialog boxes are set to '300' seconds.

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IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

- Once all the options described above are set on the **'IND\$FILE'** tab of the **'Transfer Setup'** dialog windows pop-up screen, mouse click on the  button.
- Mouse click on the  button after the  button to complete the **'Transfer Setup'** dialog and to close the **'Transfer Setup'** windows pop-up screen.
- The **3270 msn-ftp.stl.disa.mil(TERM) – WQR Reflection – IBM 3270 Terminal** session screen will again appear as displayed below.

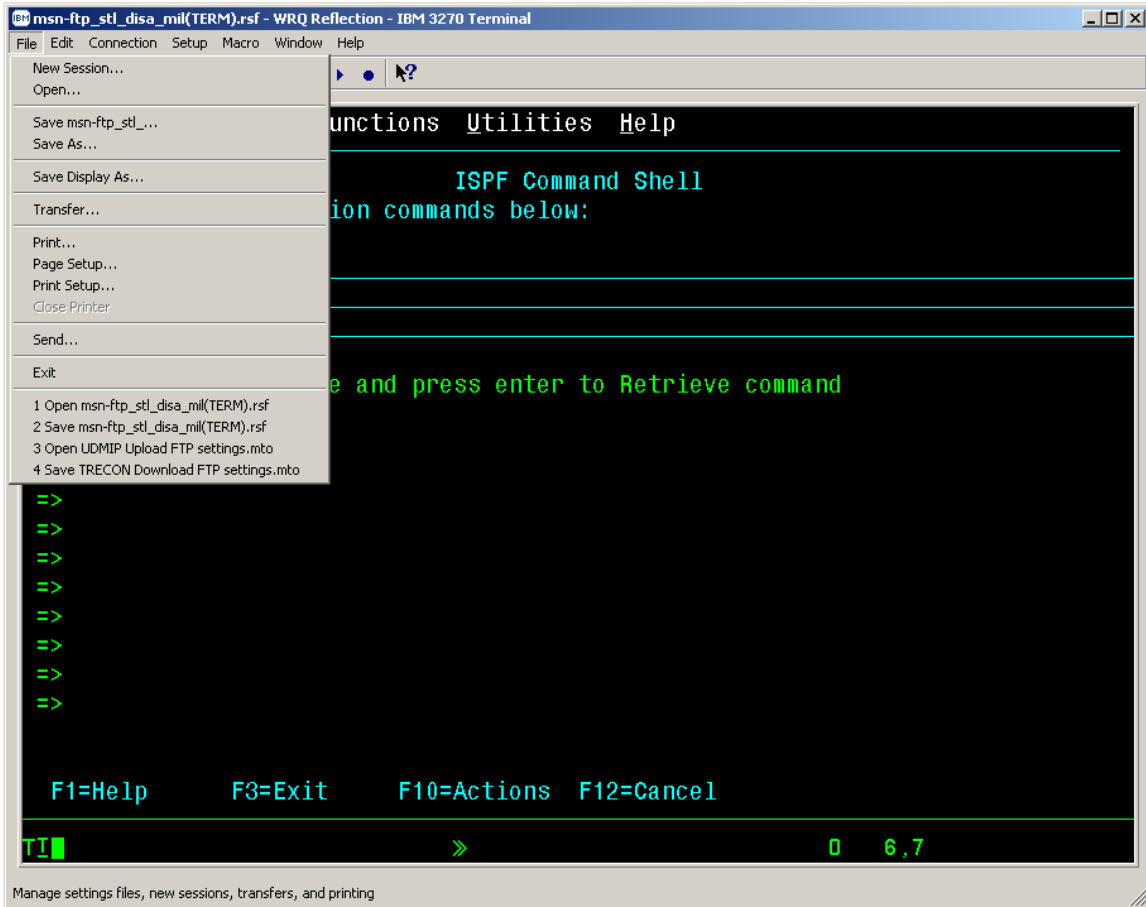


- With your mouse pointer select **'File'**  from the top menu on the **3270 msn-ftp.stl.disa.mil(TERM) – WQR Reflection – IBM 3270 Terminal** display screen.

WRQ Inc. Reflection for IBM Version 10.0 User Guide

IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

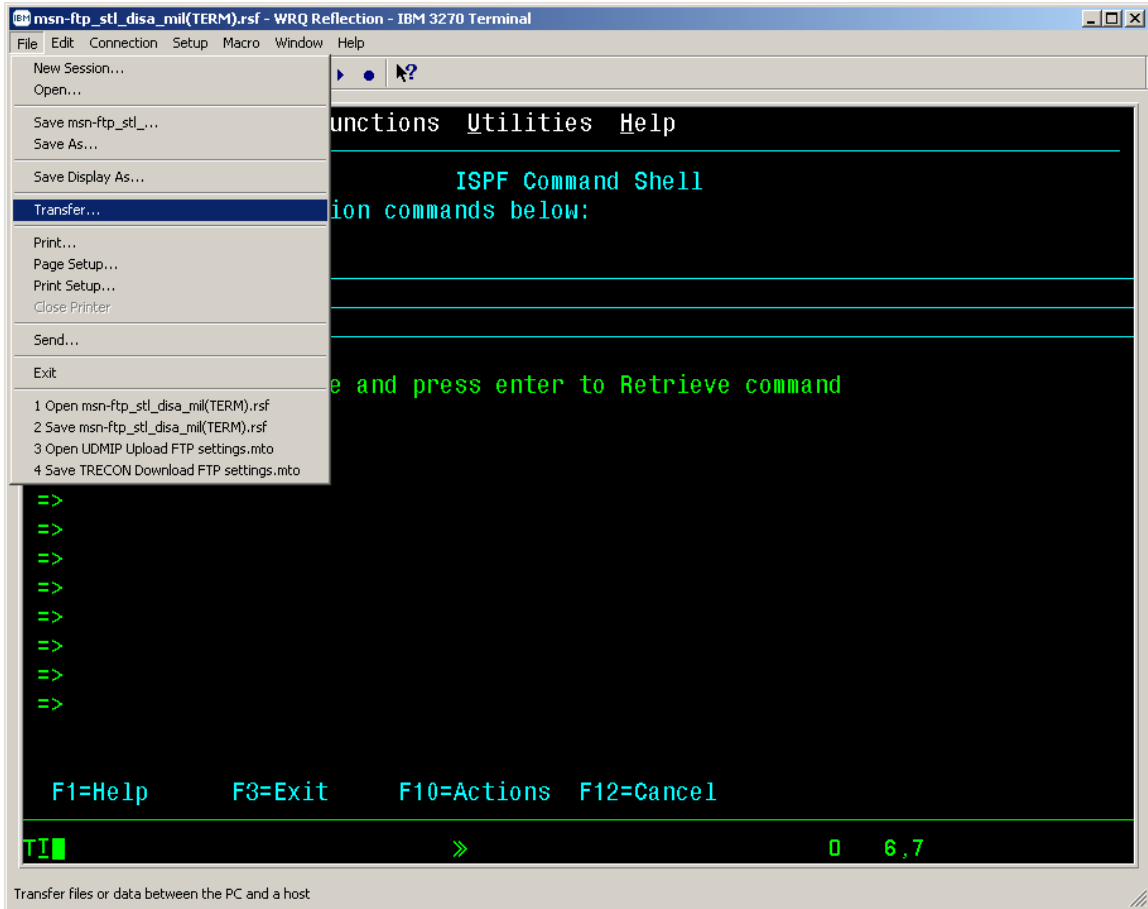
- The 'File' drop down menu as shown below will appear on the *3270 msn-ftp.stl.disa.mil(TERM)* – *WQR Reflection – IBM 3270 Terminal* session screen.



WRQ Inc. Reflection for IBM Version 10.0 User Guide

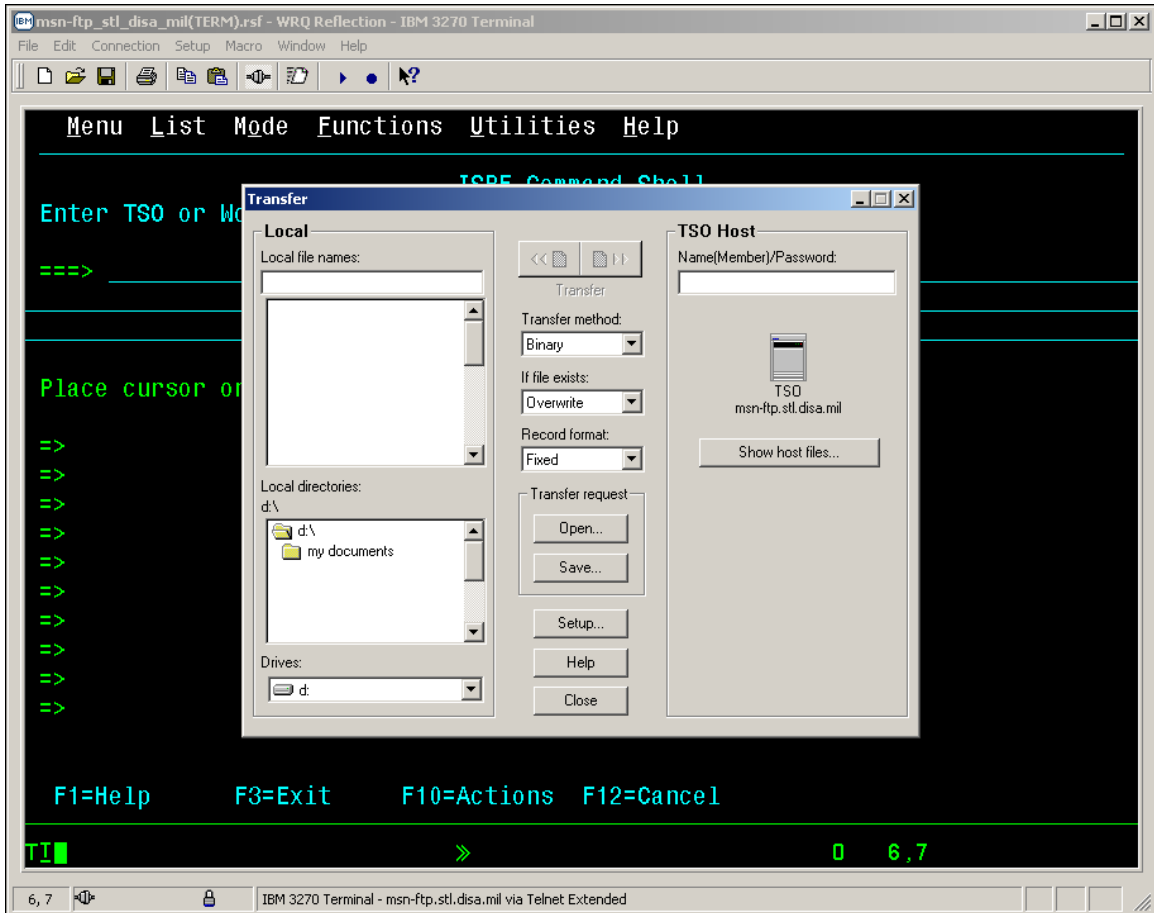
IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

- From the 'File' drop down menu of the 3270 *msn-ftp.stl.disa.mil(TERM)* – *WQR Reflection* – *IBM 3270 Terminal* session screen select 'Transfer...' as shown below.



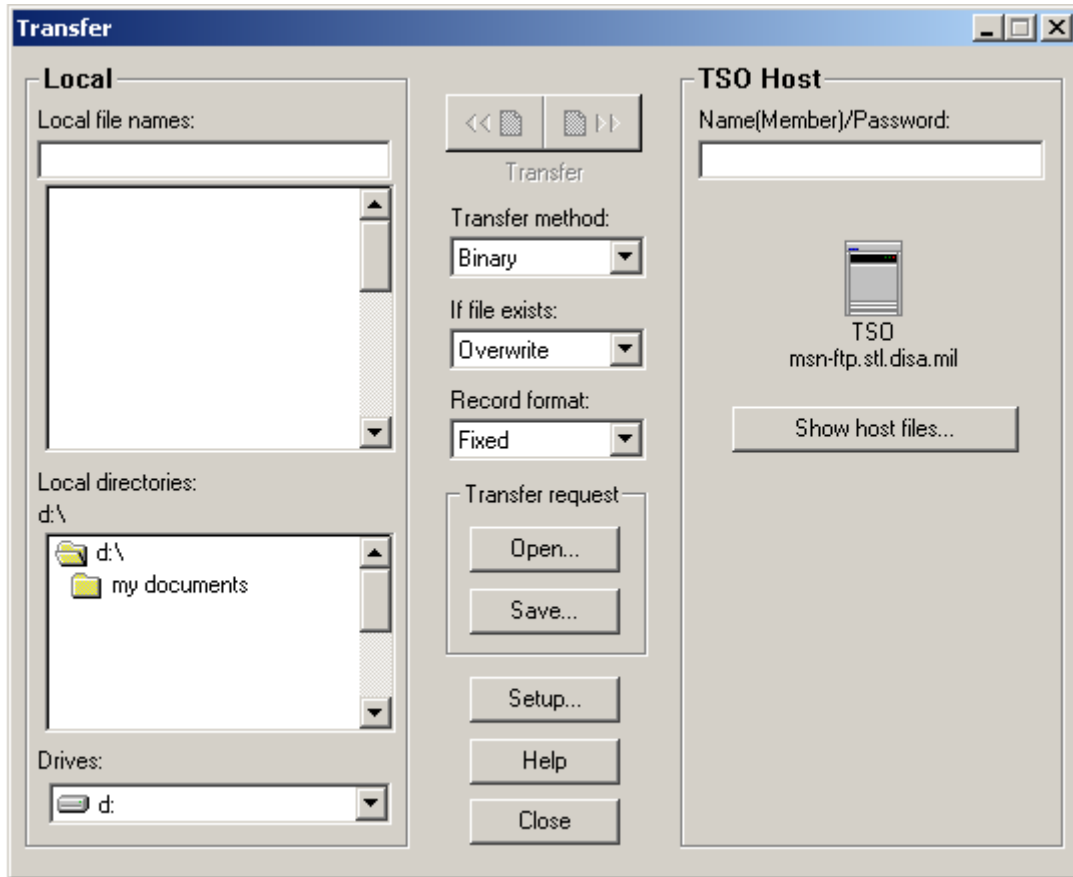
- The 'Transfer' dialog windows pop-up screen as shown below will be displayed

IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION



- A detailed cutout view of the *'Transfer'* dialog windows pop-up screen is shown below.

IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION



- The left-hand side of the *'Transfer'* dialog windows pop-up screen labeled *'Local'* is the side that you provide the personal computer Drive, Path, and File name of the file that you wish to either “upload” to the mainframe or that you wish to “download” from the mainframe to the personal computer.
- The right-hand side of the *'Transfer'* dialog windows pop-up screen labeled *'TSO Host'* is the side that you provide the mainframe data set / file name that you wish to either “upload” a personal computer file to or that you wish to “download” to a personal computer that mainframe data set / file.
- Once you have started to key in the personal computer file name or mainframe data set / file name information, the file transfer “upload” / “download” control arrows will become un-shadowed as shown here.

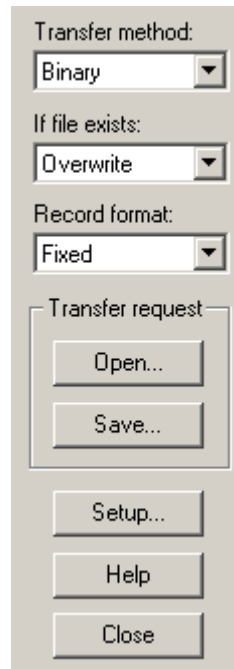


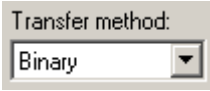
- Mouse clicking on the left-hand side control arrow initiates a mainframe to personal computer “download” file transfer operation.
- Mouse clicking on the right-hand side control arrow initiates a personal computer to mainframe “upload” file transfer operation.

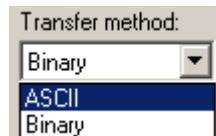
WRQ Inc. Reflection for IBM Version 10.0 User Guide

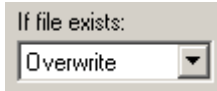
IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

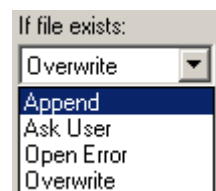
- File Transfer control parameter options are set / modified via the drop down boxes and button located down the center of the **'Transfer'** dialog windows pop-up screen as shown below.



- The **'Transfer method:'**  drop down box controls the method that the data will be transferred with. This parameter can be set to either **'Binary'** or **'ASCII'** via the arrow located on the drop down window as shown here.



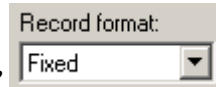
- The next drop down box, the **'If file exists:'**  controls the file transfer disposition of the file being **'RECEIVED'** if this exact file name already exists on the destination machine whether it be the mainframe or personal computer. This parameter can be set to the following options via the arrow located on the drop down window as shown here.



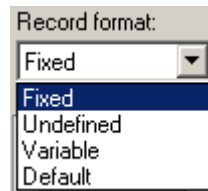
WRQ Inc. Reflection for IBM Version 10.0 User Guide

IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

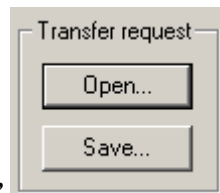
- **'Append'** - adds the new file transferred data to the end of the existing file.
- **'Ask User'** - asks the user via a pop-up window whether to append, open error, or overwrite.
- **'Open Error'** - Causes the file transfer to terminate unsuccessfully stating that the name of the file being **'RECEIVED'** already exists.
- **'Overwrite'** - Replaces the existing file on the file transfer destination machine with the data being **'RECEIVED'**.

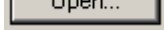



- The **'Record format:'** drop down box sets the record format of the data in the file being transferred. This parameter can be set to the following options via the arrow located on the drop down window as shown here.



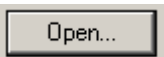
- **'Fixed'** - specifies that all data record within the file being transferred are of the same logical record length.
- **'Undefined'** - specifies that no logical record length exists within for the data being transferred and that the file transfer program can only deal in 'blocks' of data. This is a seldom used record format, except in load (executable program) libraries, which are always of undefined record format.
- **'Variable'** - specifies that each data record within the file being transferred can be of different logical record lengths, with each data record preceded by a 4-byte field describing its logical record length.
- **'Default'** - specifies that the record format of the data being transferred will be determined by the **'SENDING'** host machine.

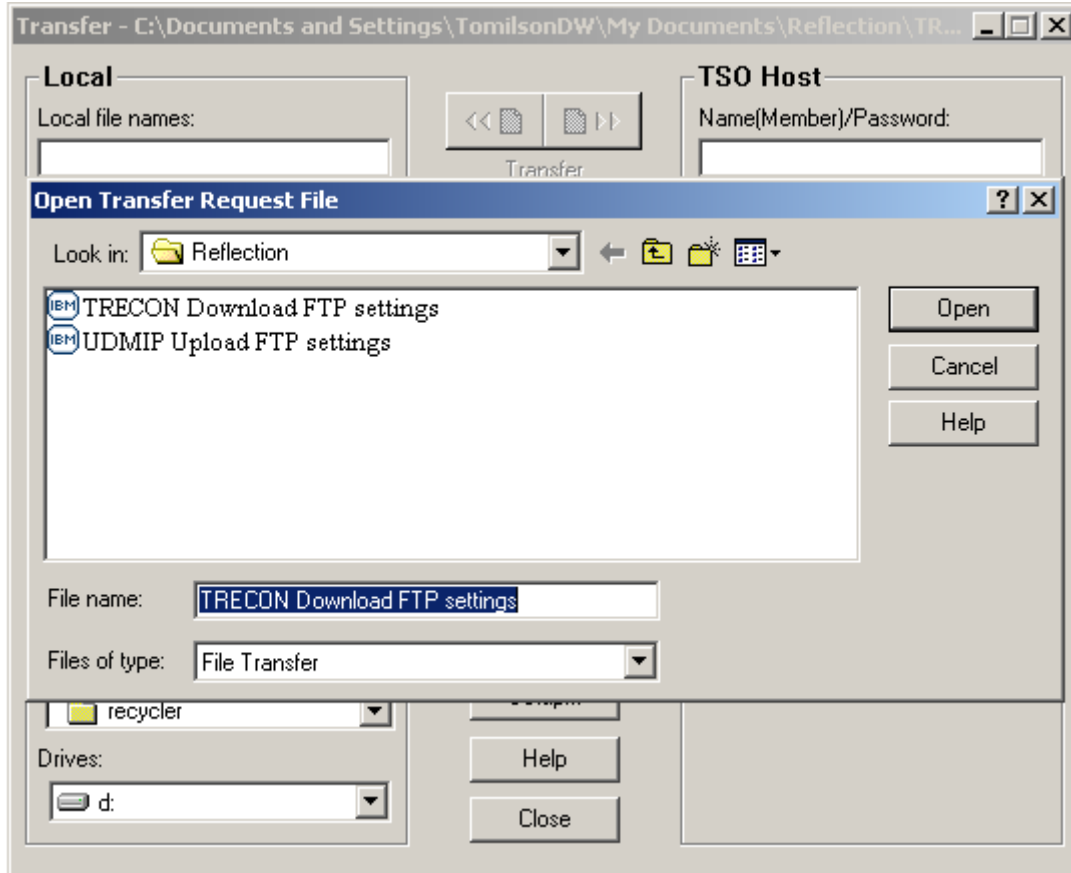


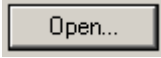
- The **'Transfer request'** dialog box allow you to  a previously 'saved' Reflection's transfer request file or to  a newly established / configured transfer request for future use.


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IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

- Mouse click on the  button and the '*Open Transfer Request File*' dialog pop-up window as shown below will appear.



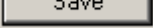
- Once the '*Open Transfer Request File*' dialog pop-up window appears select the previously 'saved' Reflection's transfer request file and then mouse click on the  button to open that transfer request file.

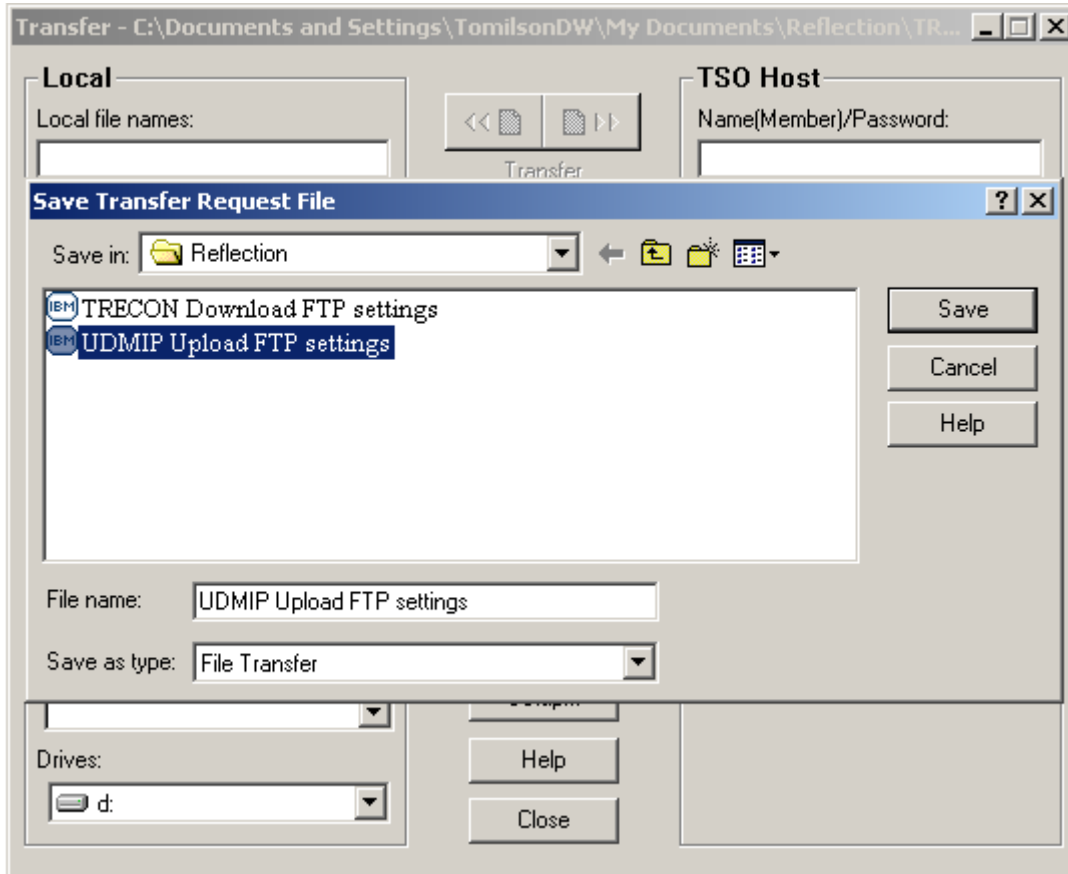
- Once you have mouse clicked on the  button the '*Open Transfer Request File*' dialog pop-up window will close.
- In the example above the previously 'saved' Reflection's transfer request file being opened is '*TRECON Download FTP settings*' as shown in the '*File name*' dialog box.





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IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

- Mouse click on the  button and the 'Save Transfer Request File' dialog pop-up window as shown below will appear.

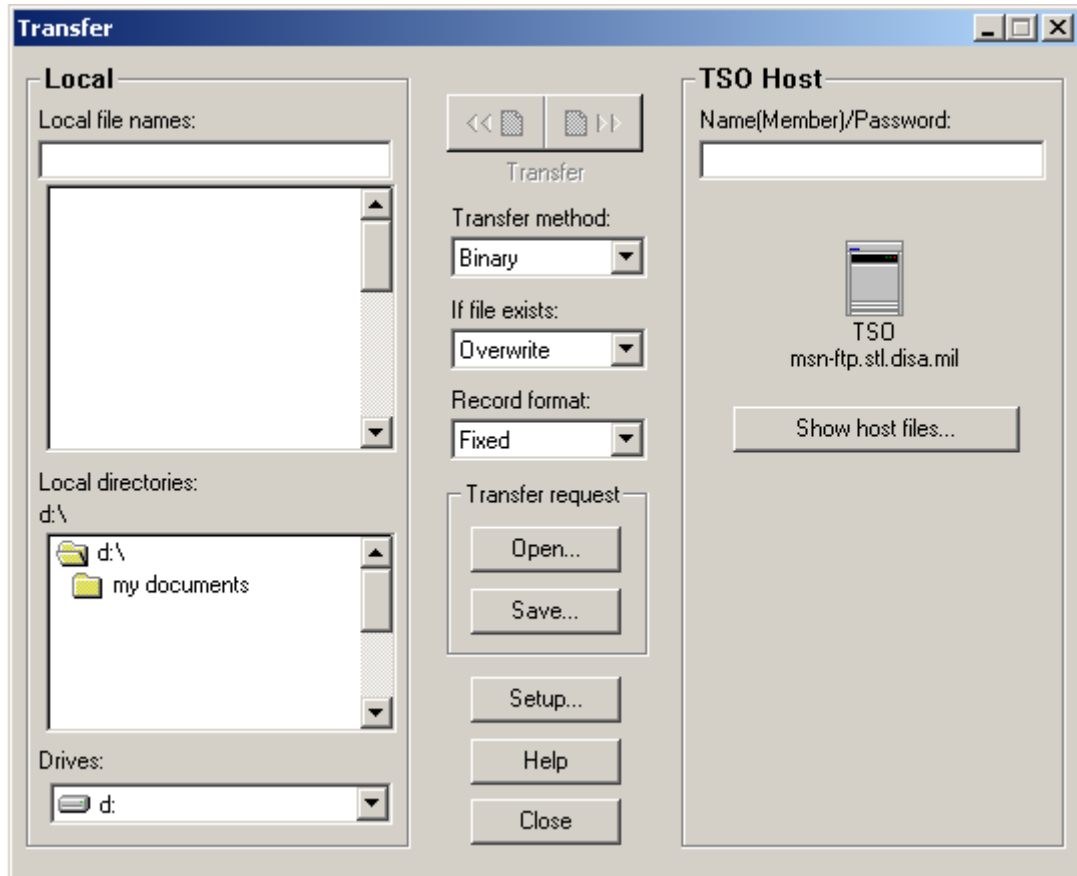



- Once the 'Save Transfer Request File' dialog pop-up window appears enter the 'File name:' of a newly established / configured transfer request and then mouse click on the  button to save this transfer request file.
- Once you have mouse clicked on the  button the 'Save Transfer Request File' dialog pop-up window will close.
- In the example above the newly established / configured transfer request being opened is 'UDMIP Upload FTP settings' as shown in the 'File name' dialog box.

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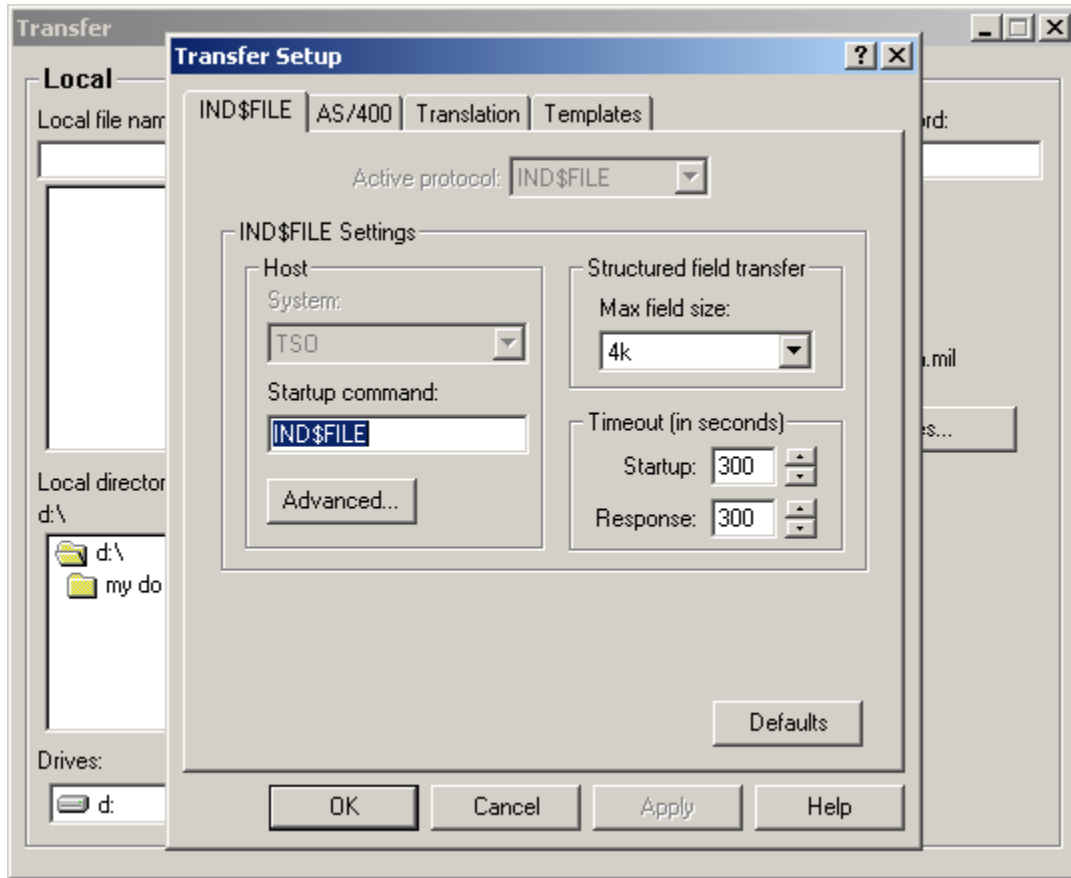
IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

- Once the 'Open Transfer Request File' or 'Save Transfer Request File' dialog pop-up windows have been closed the screen will again appear as shown below.


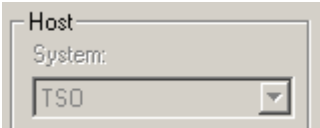


- The next transfer control parameter option drop down box or button on this windows pop-up dialog screen is the  button which opens up the 'Transfer Setup' windows pop-up dialog screen as shown below.


IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

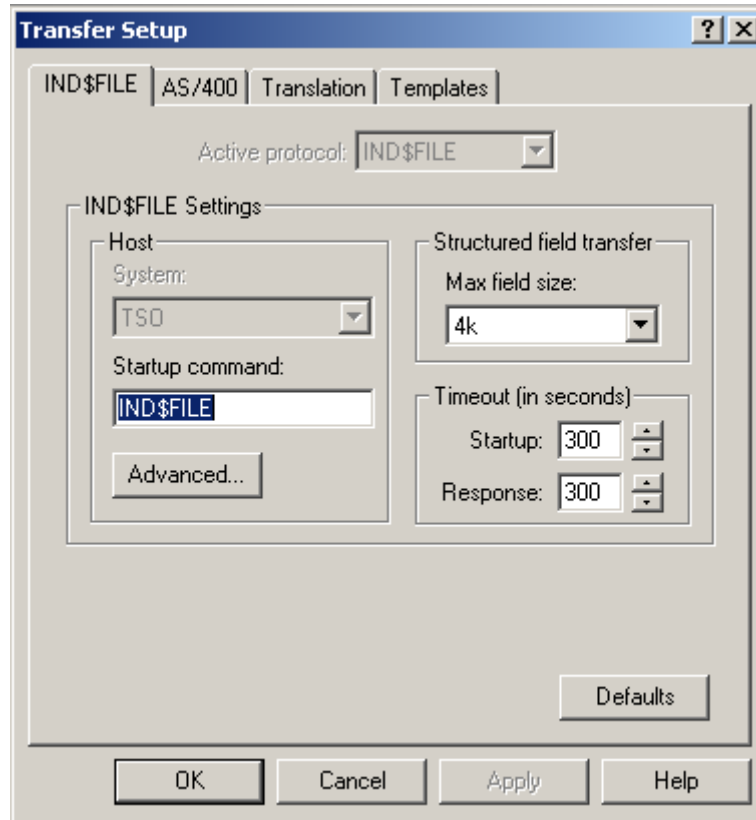


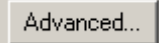
- This *'Transfer Setup'* windows pop-up dialog screen is the exact same windows pop-up dialog screen that appears when, from the *'Setup'* drop down menu of the *3270 msn-ftp.stl.disa.mil(TERM) – WQR Reflection – IBM 3270 Terminal* session screen you selected *'File Transfer...'* as described on page 130 - 133.

- *Note:* That the  and  portions of this windows pop-up dialog screen are shaded making these two options not modifiable when this dialog screen is brought up from the *'Transfer'* dialog windows pop-up screen. These two options are only modifiable when brought up from the *'Setup'* drop down menu of the *3270 msn-ftp.stl.disa.mil(TERM) – WQR Reflection – IBM 3270 Terminal* session screen.

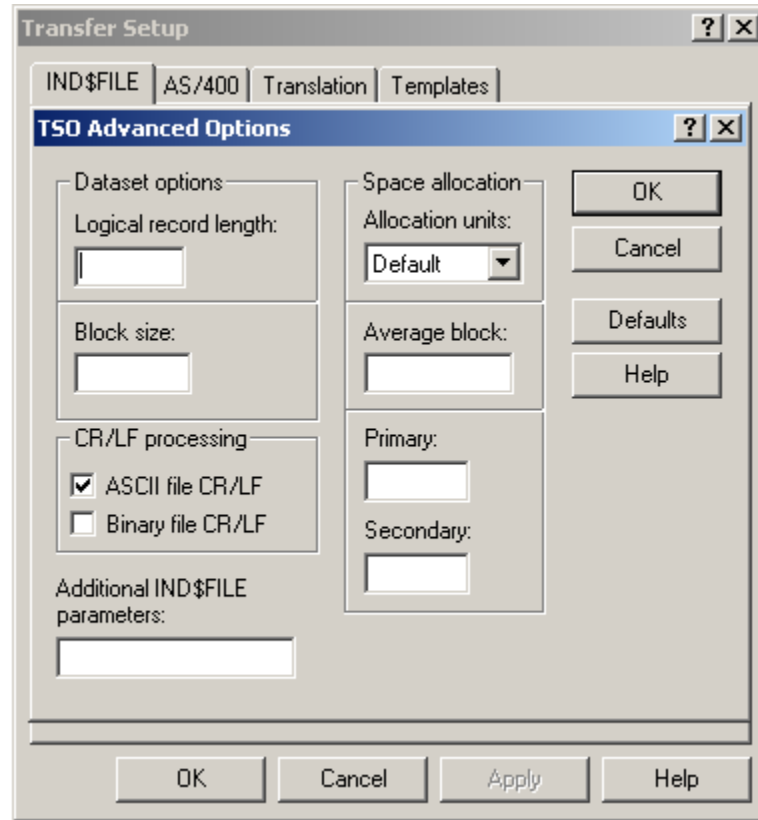
IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

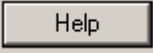
- The 'Transfer Setup' dialog windows pop-up screen 'IND\$FILE' tab options drop down box or button are covered on pages 130 – 133. The only options drop down or button not previously covered is the  button.

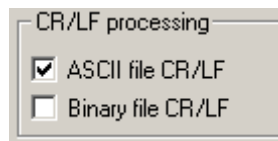


- Mouse clicking on the  button opens up the 'TSO Advanced Options' dialog windows pop-up screen as shown below.

IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION



- **Note:** The 'TSO Advanced Options' dialog windows pop-up screen shown above appears with the 'DEFAULT' options only. For further explanation / understanding of each of the options on this screen please refer to the 'TSO Advanced Options' dialog windows pop-up screen's **HELP** files accessible by pressing the  button.
- 'ASCII file CR/LF' process turned on is the 'DEFAULT' setting for 'CR/LF processing', as indicated by the check mark in the dialog, box shown below.



- Having this option enabled will strip / remove a carriage return character and a linefeed character from the end of each line of the file you are sending. Depending on your file transfer requirements you may wish to disable this option.

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IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

- For informational and instructional purposes relative to '*IND\$FILE File transfers*', this User's Guide will utilize the Marine Corps Total Force System (MCTFS) application Unit Diary file upload process from a personal computer to a mainframe host and the TRECON files download process from a mainframe host to a personal computer as examples of the process within the Reflection software product.
- The following pages labeled '*Unit Diary Uploads*' and '*TRECON File Downloads*' not only demonstrate the use of the **3270 IND\$FILE file transfer** functionality within this software but will in addition provide detailed instruction for these two complete upload / download processes.
- **Note:** *Not all UDMIPS Unit Diary file upload or TRECON file download process instruction steps are functionalities within or of the Reflection software product.*
- *Several of the steps within each of these processes are application specific relative only to these two Marine Corps Total Force System (MCTFS) application processes: (Unit Diary Upload & TRECON file download).*

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UNIT DIARY UPLOADS

- In an effort to provide a more secure means of transferring unit diary information, Kansas City has implemented a new upload procedure that requires the users to upload diary zip files to mainframe data sets.
- The three-step process requires the user to create the mainframe data set utilizing the *ADMNAFIL* clist, then transfer the unit diary zip file to the data set. Once the file has been transferred the user will have to run the *ADMNUPLD* clist to upload the data set information to a shared data set that is accessible to the Kansas City mainframe logical partition.
- Start a *Reflection 3270 terminal session* and enter the menu option that corresponds to your site. The DISA warning banner will be displayed.
- Press the <Enter> key to continue. You will be prompted to login with your *Userid / Password*.
- Upon logging in the '*CL/Supersession Main Menu*' will be displayed.
- Select '*TSO*' from the list of displayed menu options.
- **Note:** In the following examples the unit diary upload process is conducted from the *TSO ISPF Command Shell*. The process is performed by selecting *Option 6 <Command>*, from the *TSO ISPF Primary Option Menu*.

```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
[Icons]
-----
Actions Options Commands Features Help
-----
KLSVSEL1          CL/SUPERSESSSION Main Menu          More: +
Select sessions with a "/" or an action code.

  Session ID  Description                               Type      Status
  -----
  TSO         TSO                                           Multi
  ROSCOE     ROSCOE                                        Multi
  ALACICS    ALA CICS PRODUCTION                          Multi
  ALACICS2   ALA CICS PRODUCTION                          Multi
  ALACICSD   ALA CICS DEVELOPMENT                         Multi
  ASICIT00   CICS/ADABASE OKR TEST                        Multi
  ALAINFO    ALA INFOPAC RDS                              Multi
  ALAINFPM   ALA INFOPAC MAINTENANCE                      Multi
  OKRCICS    OKR CICS PRODUCTION                          Multi
  OKRCICS2   OKR CICS2 PRODUCTION                         Multi
  OKRINFO    OKR INFOPAC RDS                              Multi
  OKRINFPM   OKR INFOPAC MAINTENANCE                      Multi

Command ==>
Enter F1=Help F3=Exit F5=Refresh F8=Fwd F9=Retrieve F10=Action
AA0D/ASNT1042

TI | >> 0 9,2
9, 2 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended
```


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UNIT DIARY UPLOADS

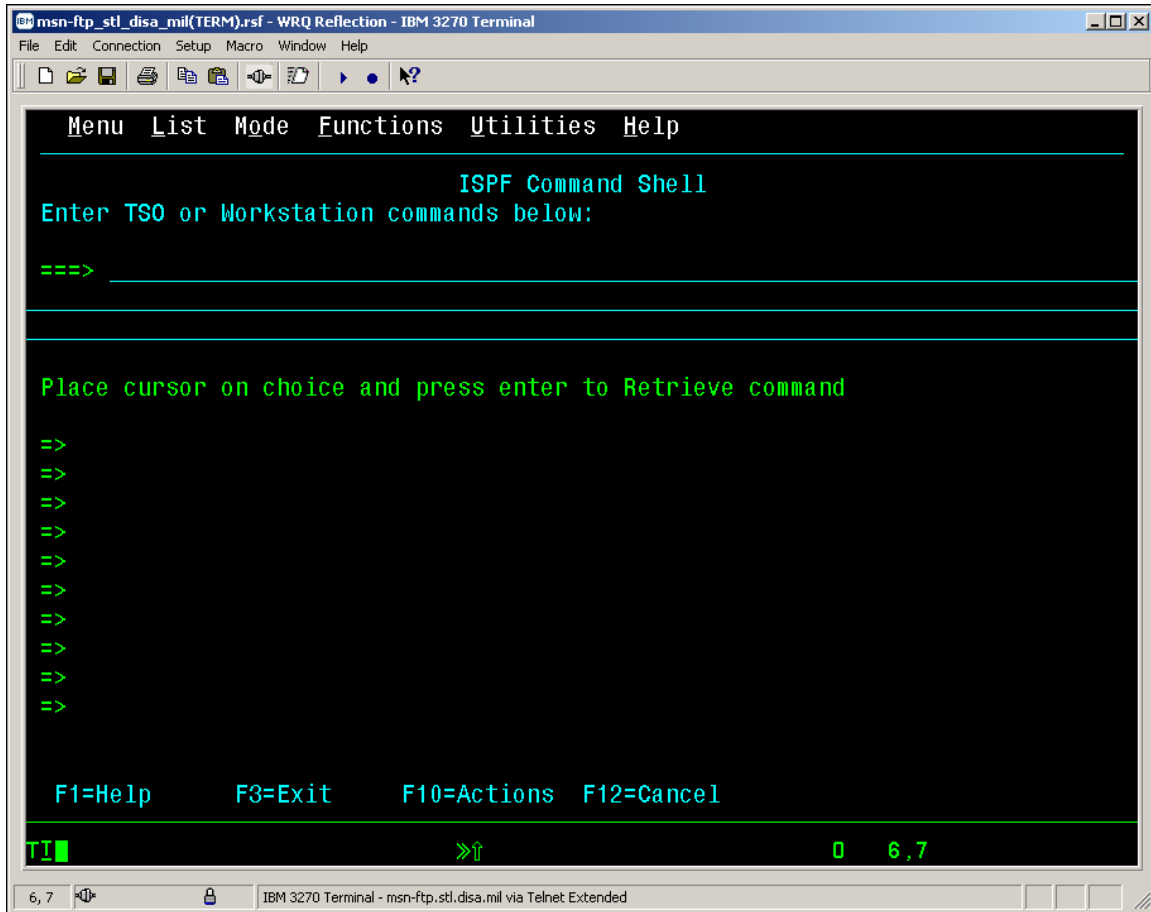
- The *ISPF Primary Option Menu* will appear as displayed below.

```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
Menu Utilities Compilers Options Status Help
ISPF Primary Option Menu
Option ==>
0 Settings      A Production Products Menu      User ID . : G9MP03
1 View (Browse) B Site Specific Applications Menu  Time. . . : 08:24
2 Edit          C Systems Maint Products Menu   Terminal. : 3278
3 Utilities     D Online Documentation Menu     Screen. . : 1
4 Foreground   I InfoMgt/Tivoli Service Desk   Language. : ENGLISH
5 Batch        S SDSF                           Appl ID . : ISR
6 Command      T TASO Menu                       TSO logon : TSOSYS
7 Dialog Test  U TSO Utility Commands          TSO prefix: TSOMSB
8 LM Facility
9 SCLM
Licensed Materials - Property of IBM
5647-A01 (C) Copyright IBM Corp. 1980, 2000.
All rights reserved.
US Government Users Restricted Rights -
Use, duplication or disclosure restricted
by GSA ADP Schedule Contract with IBM Corp.
-9077
F1=Help      F3=Exit      F10=Actions  F12=Cancel
TI          >>↑          0  4,14
4, 14      IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended
```

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UNIT DIARY UPLOADS

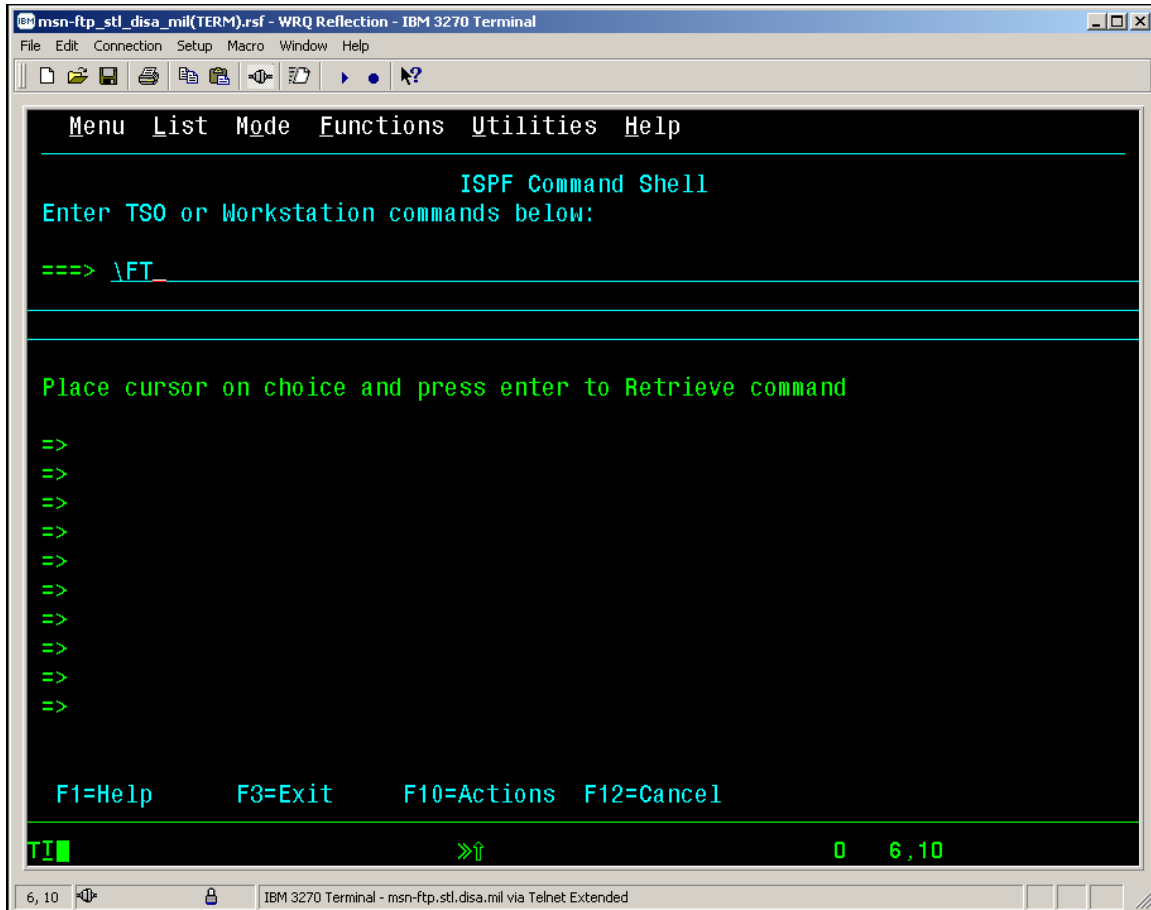
- At the *Option* ===> prompt, enter *Option 6* <Command>, which will open the *TSO ISPF Command Shell* as shown below.



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UNIT DIARY UPLOADS

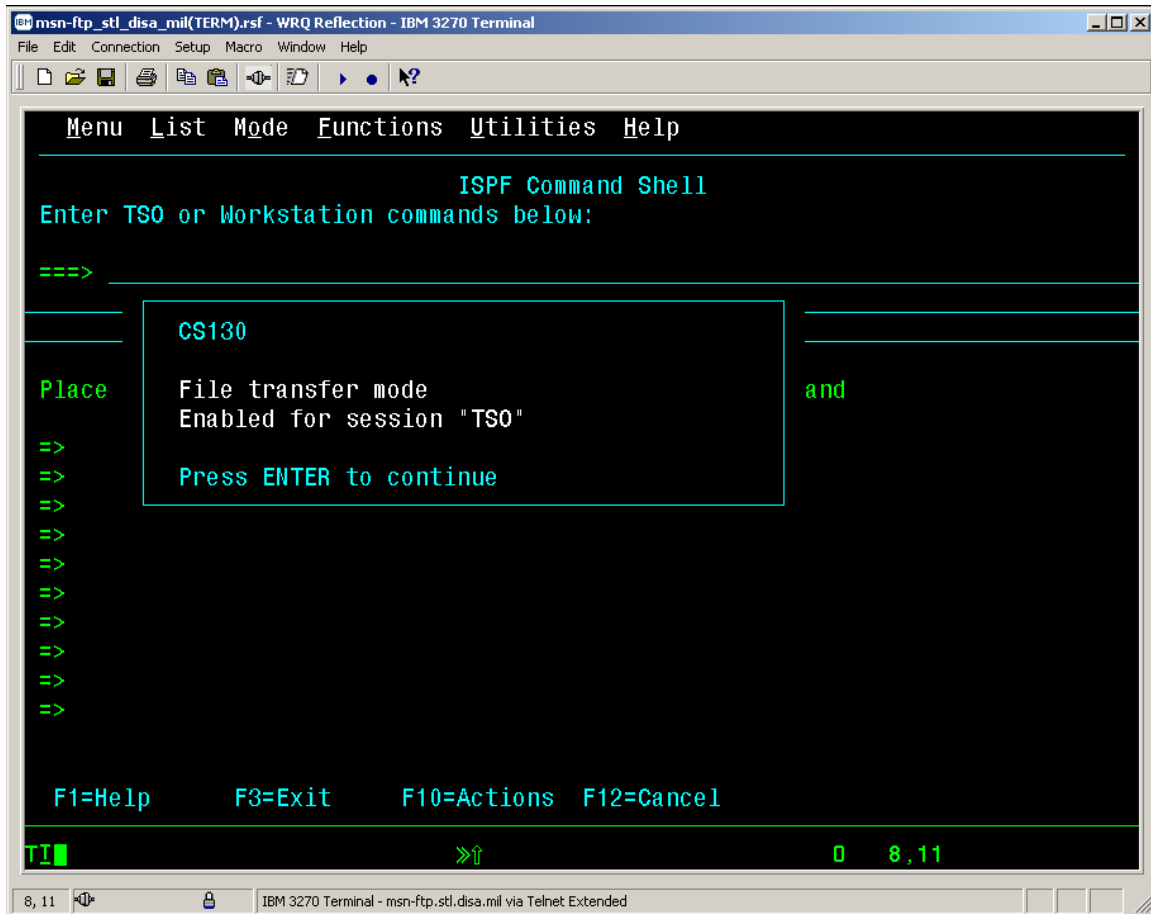
- Once in *TSO ISPF Command Shell*, you must enter the '*FT*' command as shown below to enable file transfer mode.



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UNIT DIARY UPLOADS

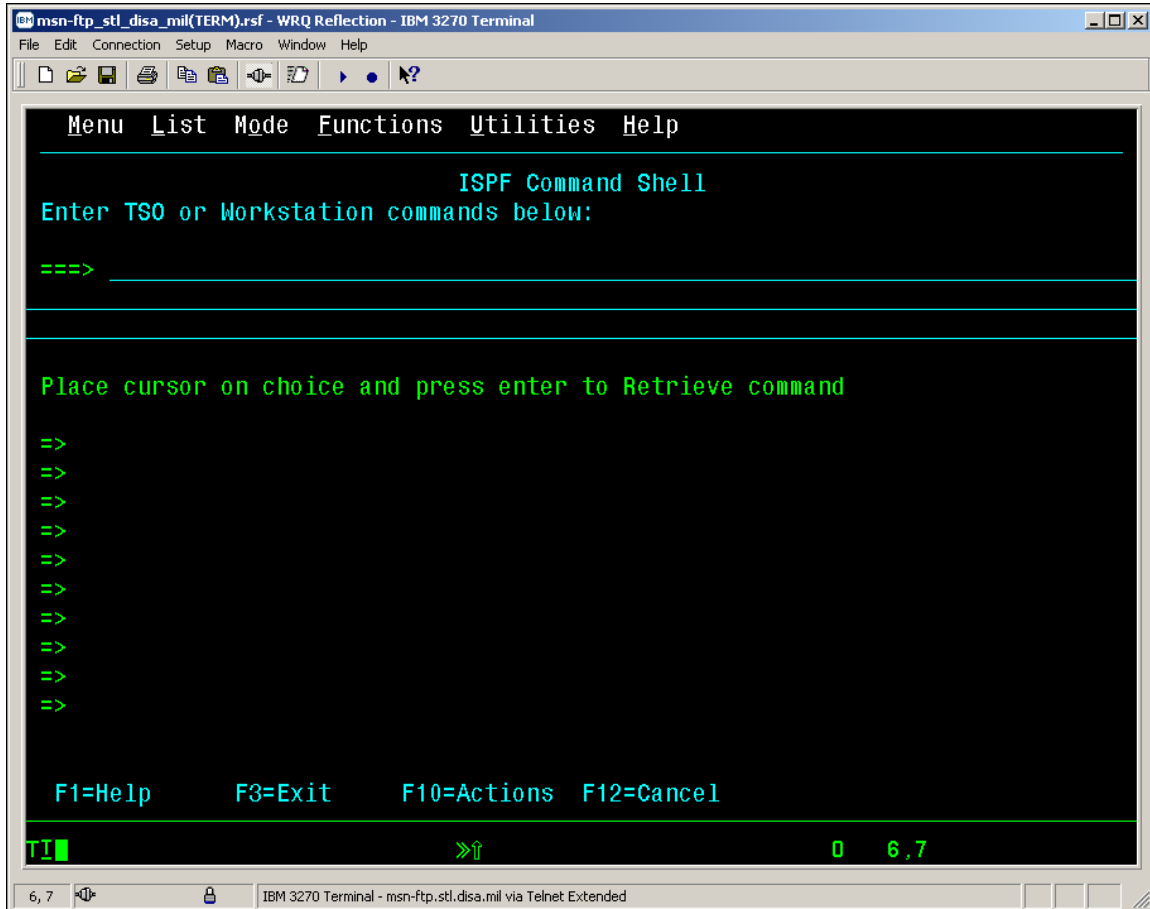
- Below is the *TSO ISPF Command Shell* response message box reply that you will get after entering *'FT'*, stating that *'File transfer mode Enabled for session 'TSO'*.



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UNIT DIARY UPLOADS

- As this message box states '*Press ENTER to continue*' and the 3270 display screen will again appear as shown below.



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UNIT DIARY UPLOADS

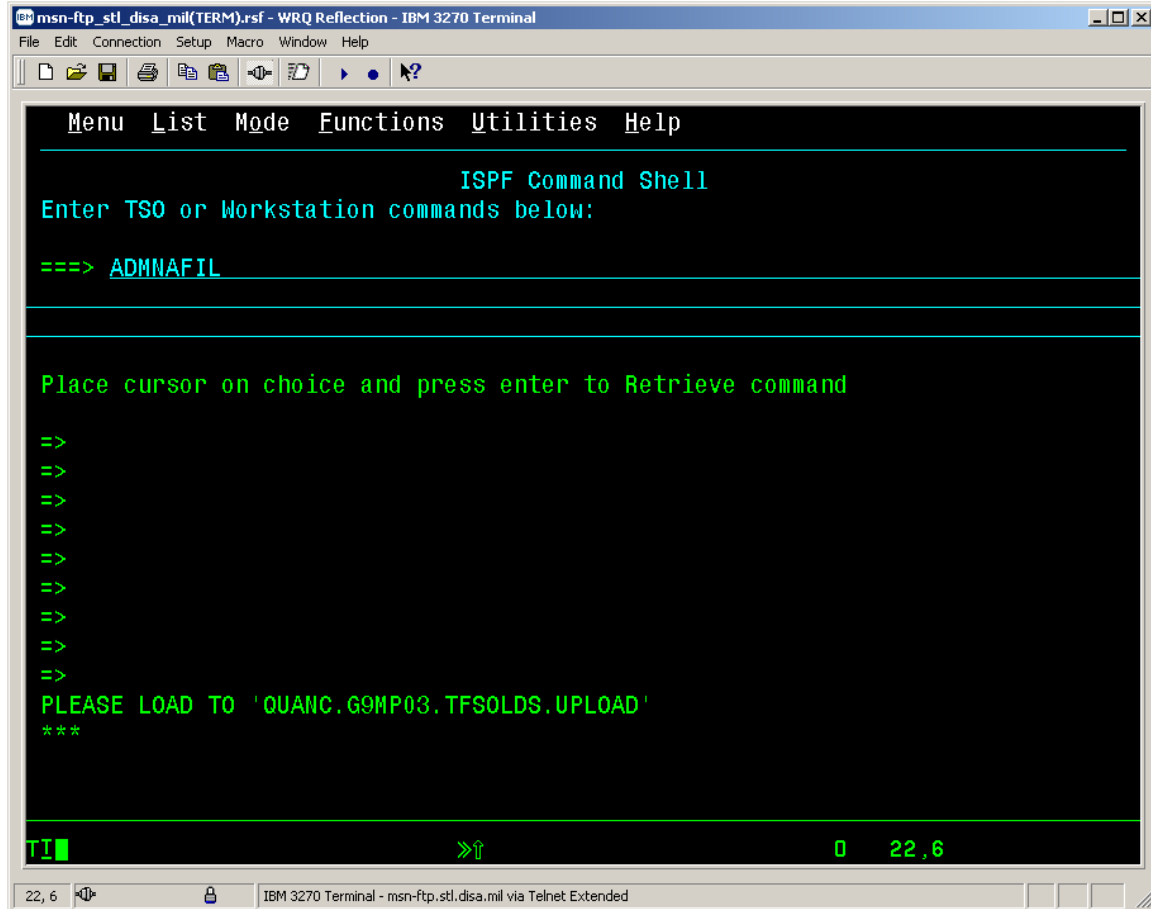
- At the ===> prompt, enter the first CLIST command 'ADMNAFIL' as shown below.

```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
Menu List Mode Functions Utilities Help
ISPF Command Shell
Enter TSO or Workstation commands below:
===> ADMNAFIL_
Place cursor on choice and press enter to Retrieve command
=>
=>
=>
=>
=>
=>
=>
=>
=>
=>
F1=Help F3=Exit F10=Actions F12=Cancel
TI >> 0 6,15
6, 15 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended
```

- A data set will be created with the data set name specified in the CLIST. Make note of the data set name, as it will be necessary to specify that data set name when performing the file transfer.

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UNIT DIARY UPLOADS

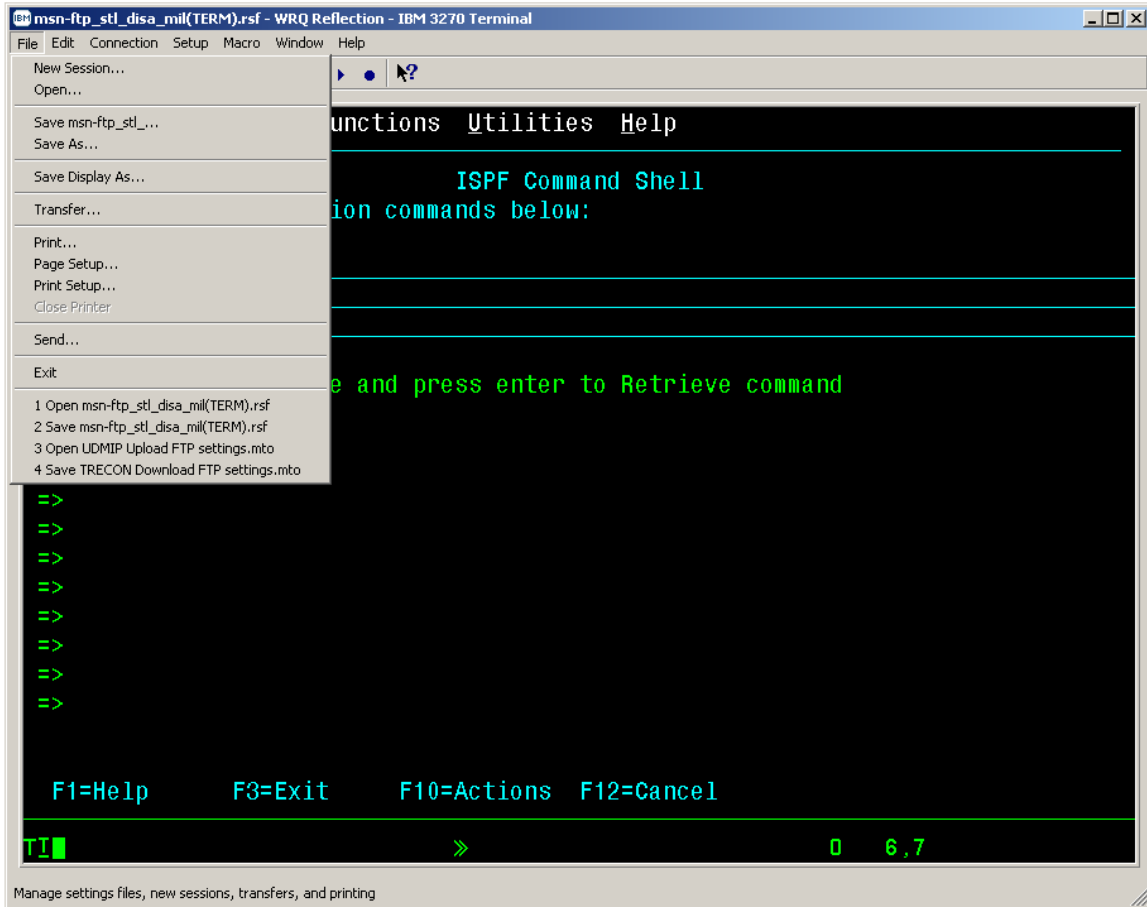


- At this point utilize the Reflection 3270 file transfer function to transfer the Unit Diary information to the mainframe.
- With your mouse pointer select '*File*' **File** from the top menu on the *3270 msn-ftp.stl.disa.mil(TERM) – WQR Reflection – IBM 3270 Terminal* display screen.

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UNIT DIARY UPLOADS

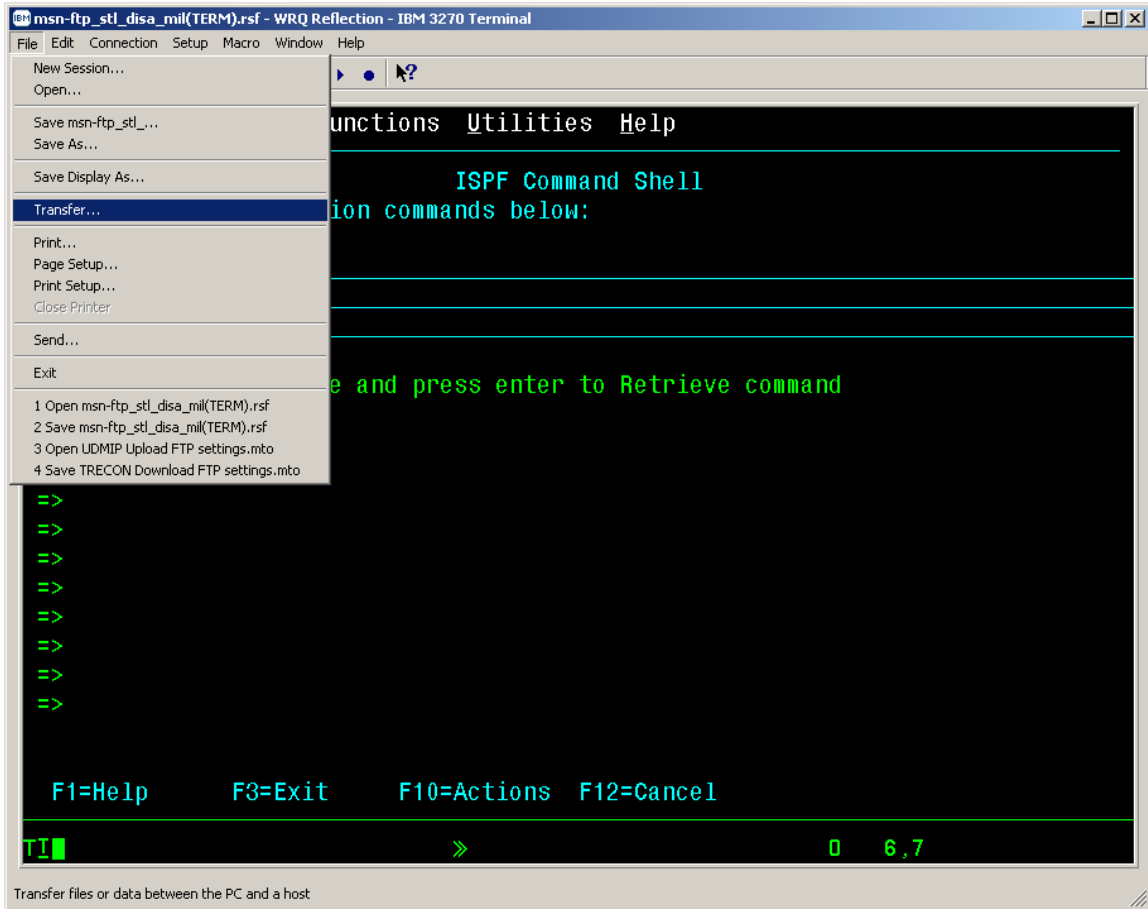
- The 'File' drop down menu as shown below will appear on the *3270 msn-ftp.stl.disa.mil(TERM)* – *WQR Reflection – IBM 3270 Terminal* session screen.



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UNIT DIARY UPLOADS

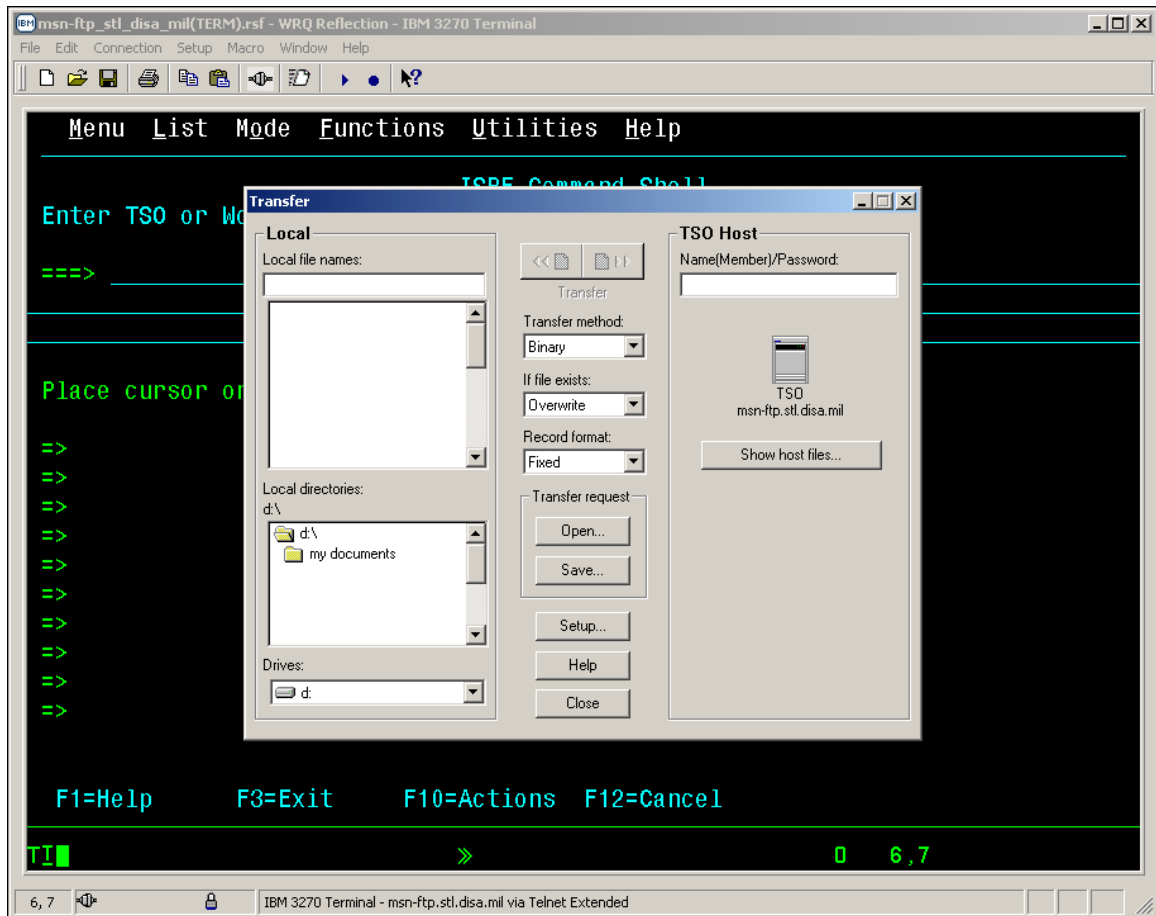
- From the 'File' drop down menu of the 3270 *msn-ftp.stl.disa.mil(TERM)* – *WQR Reflection – IBM 3270 Terminal* session screen select 'Transfer...' as shown below.



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UNIT DIARY UPLOADS

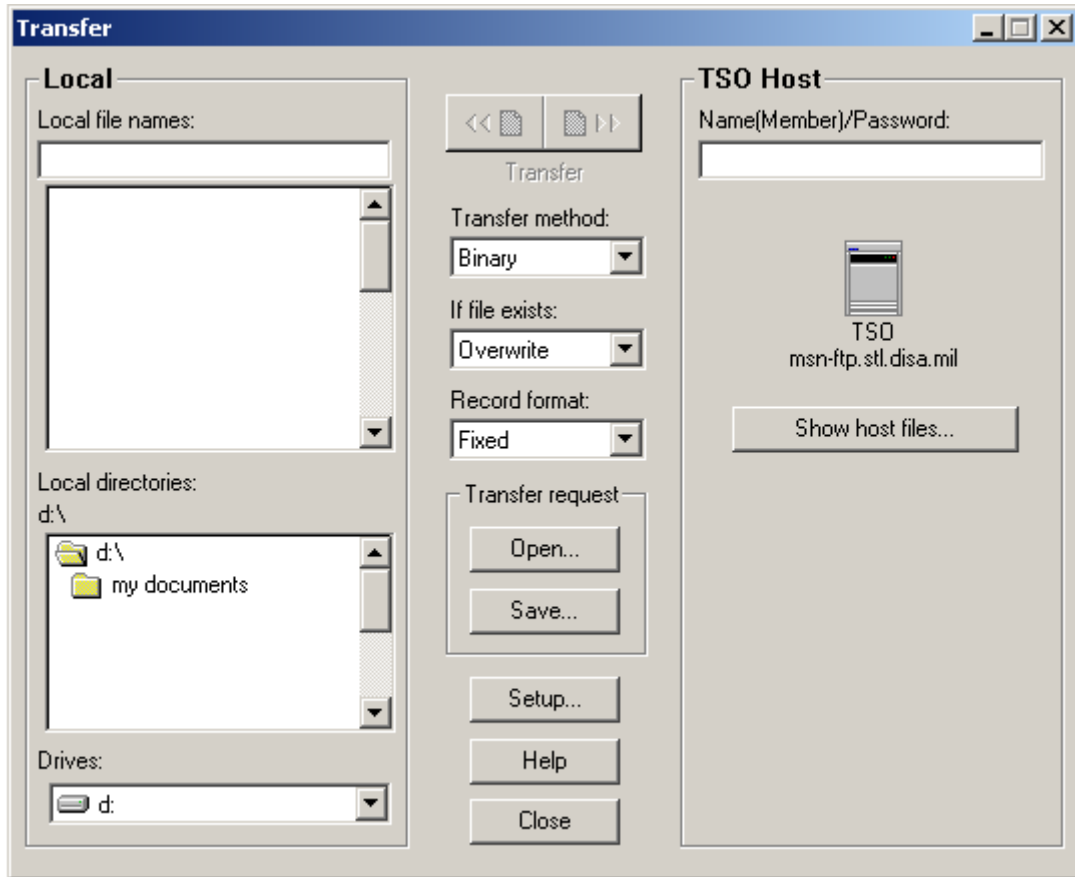
- The *'Transfer'* dialog windows pop-up screen as shown below will be displayed



- A detailed cutout view of the *'Transfer'* dialog windows pop-up screen is shown below.

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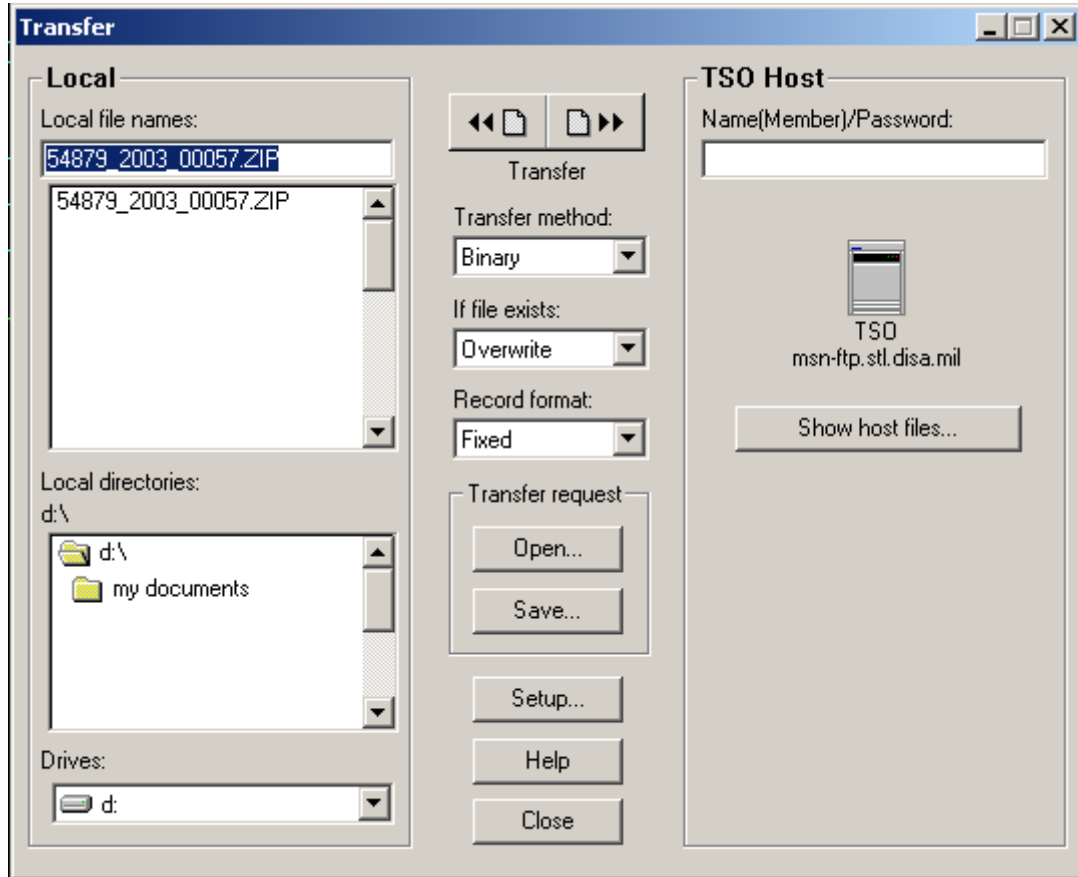
UNIT DIARY UPLOADS



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UNIT DIARY UPLOADS

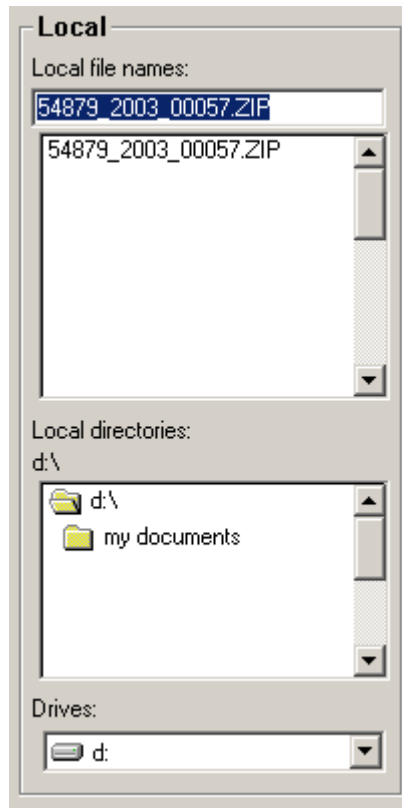
- Enter the “PC File Name”. If you are unsure of the filename, you may mouse click on and select the *Drive* and *Local directories* folders to locate the specific file from the *Local file names* windows as shown below.



- In the example above the *Drive* selected is '*d:*', the *Local directory* selected is the '*root*' directory on the *d:* drive, and the only file on that directory is '*54879_2003_00057.ZIP*' as shown in the screen cut out below.

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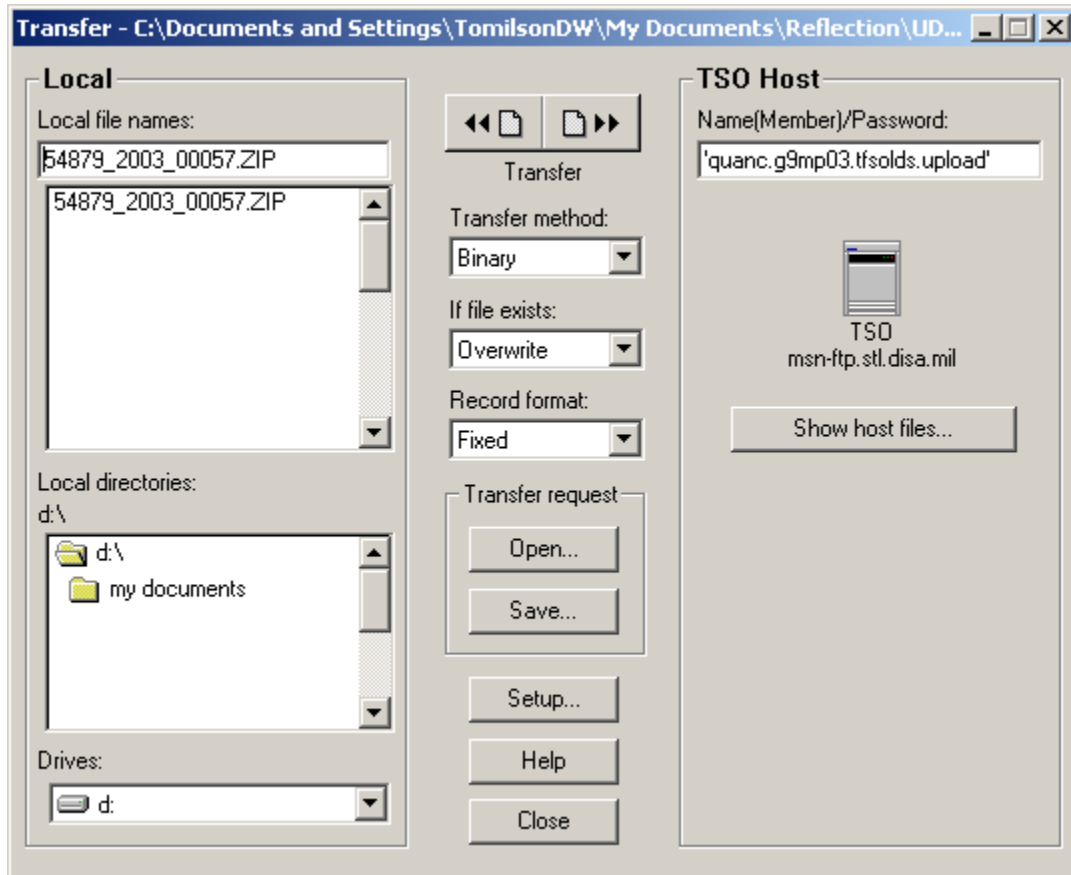
UNIT DIARY UPLOADS



- Enter the '*TSO Host File Name*' as shown below. The data set entered should be the same as the one created when the '*ADMNAFIL*' CLIST was executed.

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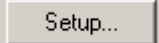
UNIT DIARY UPLOADS

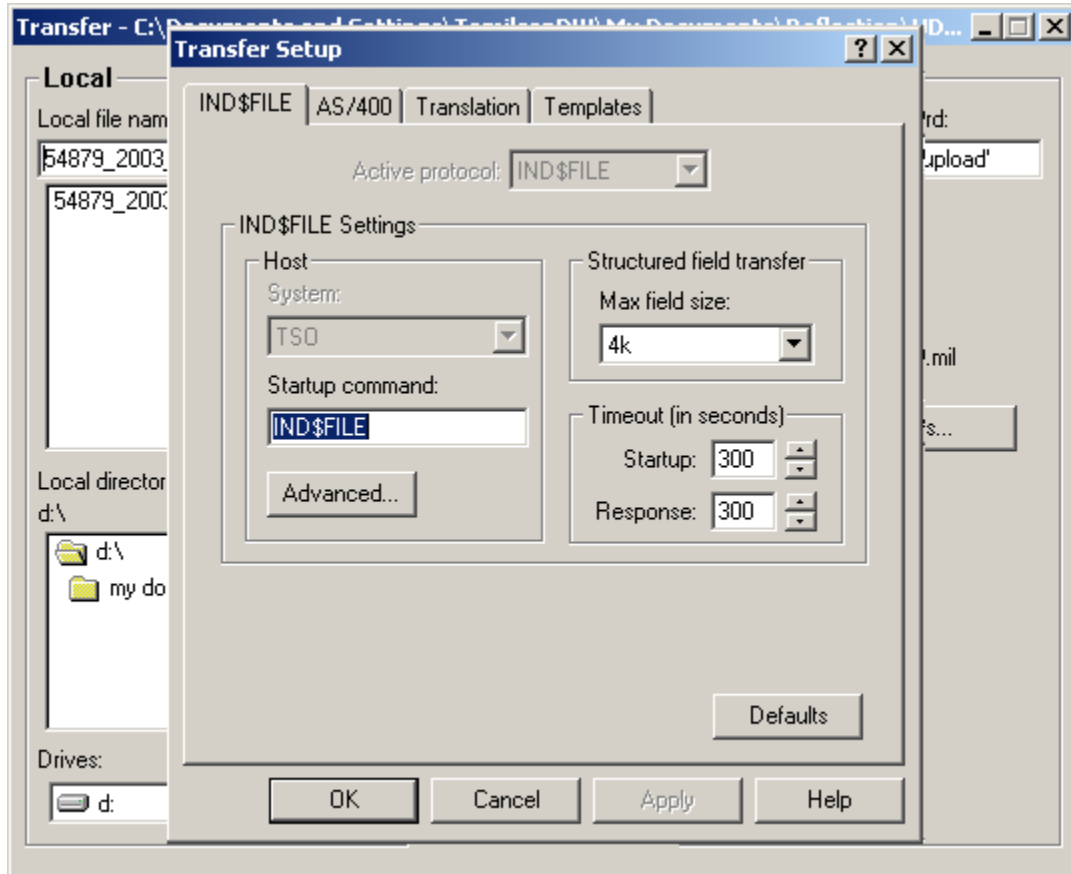


- The '*Transfer method*' may be '*ASCII*' or '*Binary*'. We've found that both have worked. If you find that the file transfer is not working for you when '*ASCII*' is specified, try the transfer in '*Binary*' prior to calling for assistance.
- The '*If file exists:*' option for this file transfer should be set to '*Overwrite*' as there should not be any other existing occurrence of this upload data set.
- The '*Record format:*' option for this file transfer should be set to '*Fixed*' as the record length of the file being transferred is the same for each record within the file.



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UNIT DIARY UPLOADS

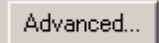
- Mouse click on the  button which opens up the *'Transfer Setup'* windows pop-up dialog screen as shown below.

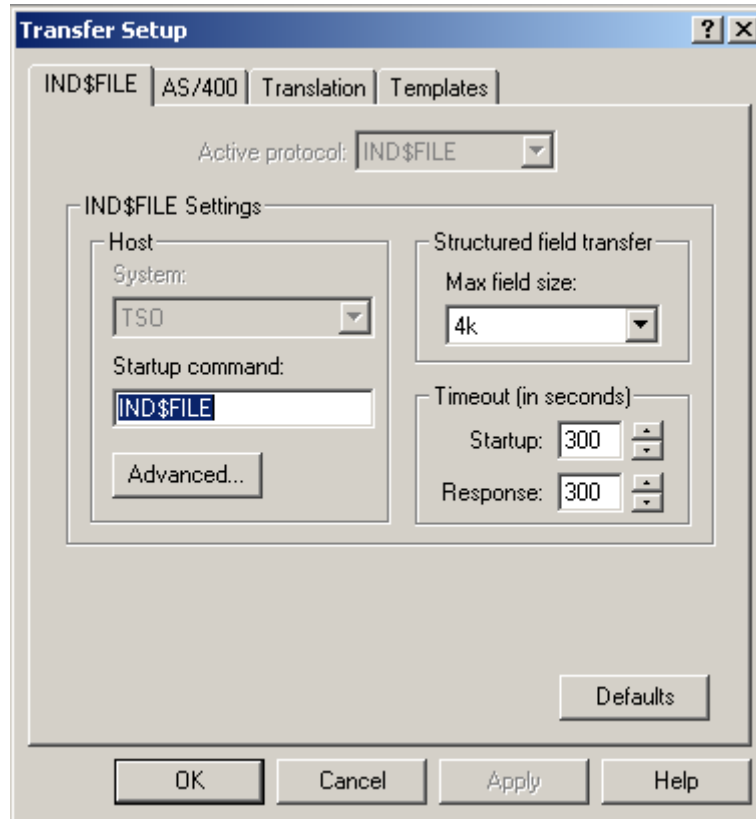


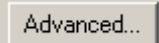
- This *'Transfer Setup'* windows pop-up dialog screen is the exact same windows pop-up dialog screen that appears when, from the *'Setup'* drop down menu of the *3270 msn-ftp.stl.disa.mil(TERM) – WQR Reflection – IBM 3270 Terminal* session screen you selected *'File Transfer...'* as described on page 130 - 133.

- **Note:** That the  and  portions of this windows pop-up dialog screen are shaded making these two options not modifiable when this dialog screen is brought up from the *'Transfer'* dialog windows pop-up screen. These two options are only modifiable when brought up from the *'Setup'* drop down menu of the *3270 msn-ftp.stl.disa.mil(TERM) – WQR Reflection – IBM 3270 Terminal* session screen.

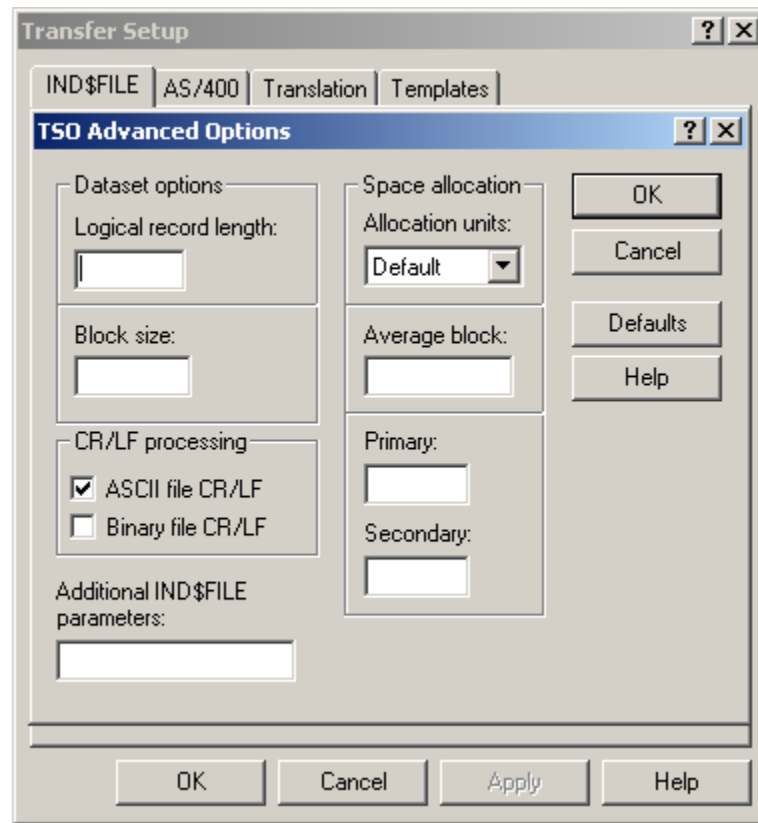
UNIT DIARY UPLOADS


- The '*Transfer Setup*' dialog windows pop-up screen '*IND\$FILE*' tab options drop down box or button are covered on pages 130 – 133. The only options drop down or button not previously covered is the  button.



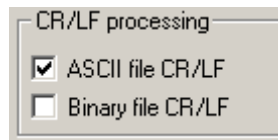
- Mouse clicking on the  button opens up the '*TSO Advanced Options*' dialog windows pop-up screen as shown below.

UNIT DIARY UPLOADS



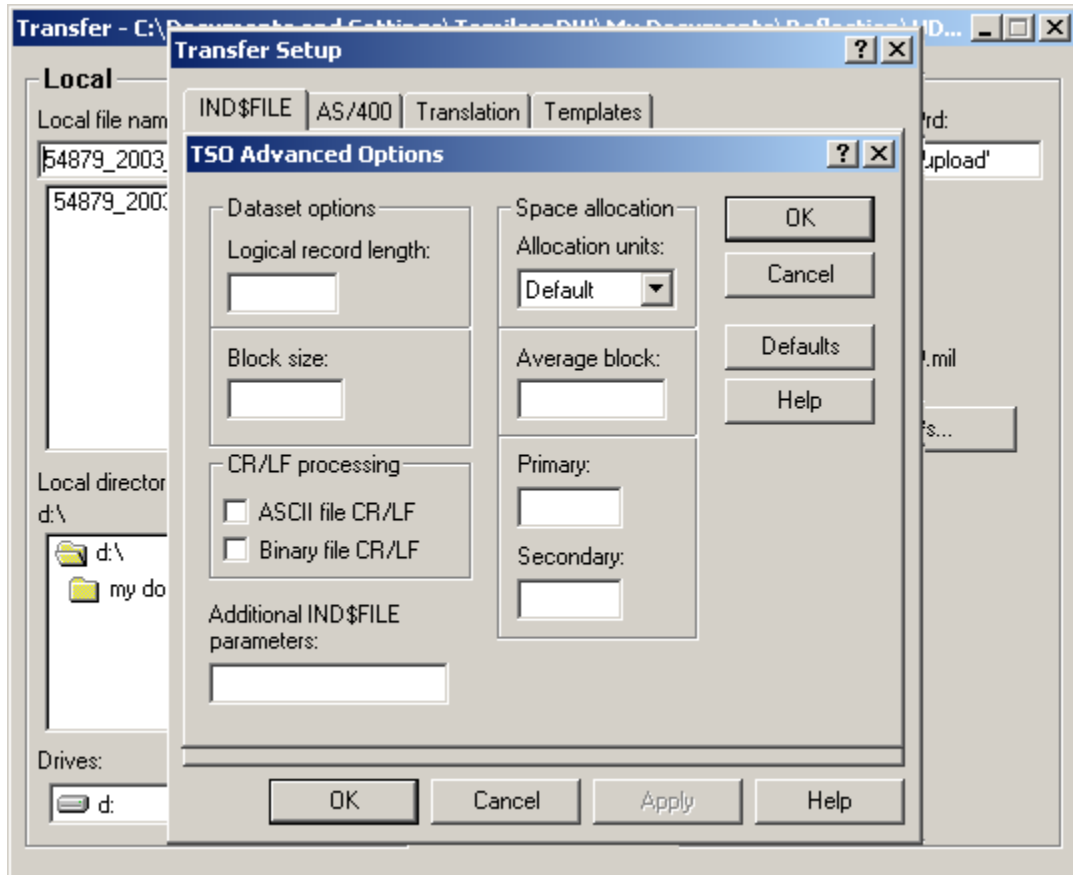
- **Note:** The 'TSO Advanced Options' dialog windows pop-up screen shown above appears with the 'DEFAULT' options only. For further explanation / understanding of each of the options on this screen please refer to the 'TSO Advanced Options' dialog windows pop-up screen's **HELP** files accessible by pressing the  button.



- 'ASCII file CR/LF' process turned on is the 'DEFAULT' setting for 'CR/LF processing', as indicated by the check mark in the dialog, box shown below.



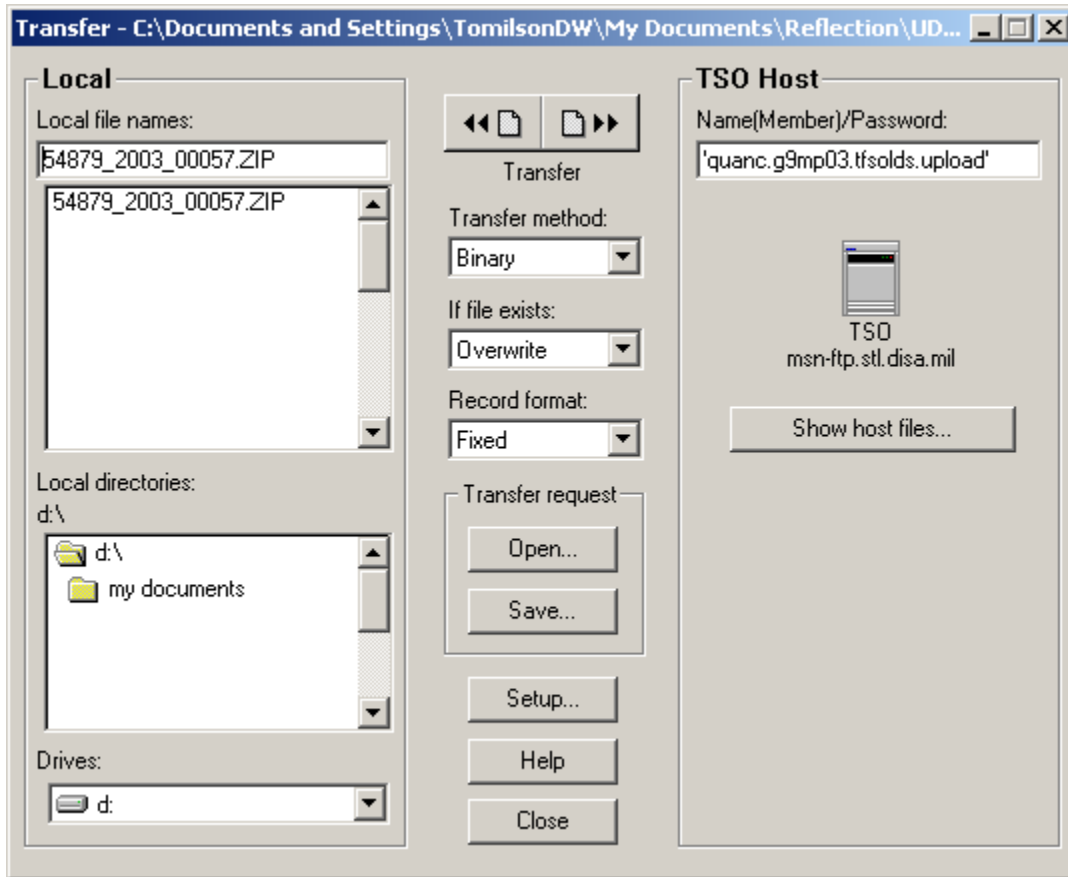
- Having this option enabled will strip / remove a carriage return character and a linefeed character from the end of each line of the file you are sending. Depending on your file transfer requirements you may wish to disable this option.
- For the purpose of this Unit Diary upload file transfer, both the 'ASCII file CR/LF' and 'Binary file CR/LF' processing options dialog boxes of the 'CR/LF processing' dialog panel should be left unchecked and all other dialog options on this 'TSO Advanced Options' dialog windows pop-up screen should be left as shown in the example below.

UNIT DIARY UPLOADS



- Once you have performed all the actions described above, click the  button to close the *TSO Advanced Options*' dialog window, followed by clicking the  button on the *Transfer Setup*' dialog window to close it. At this point your screen should appear as shown below.

UNIT DIARY UPLOADS



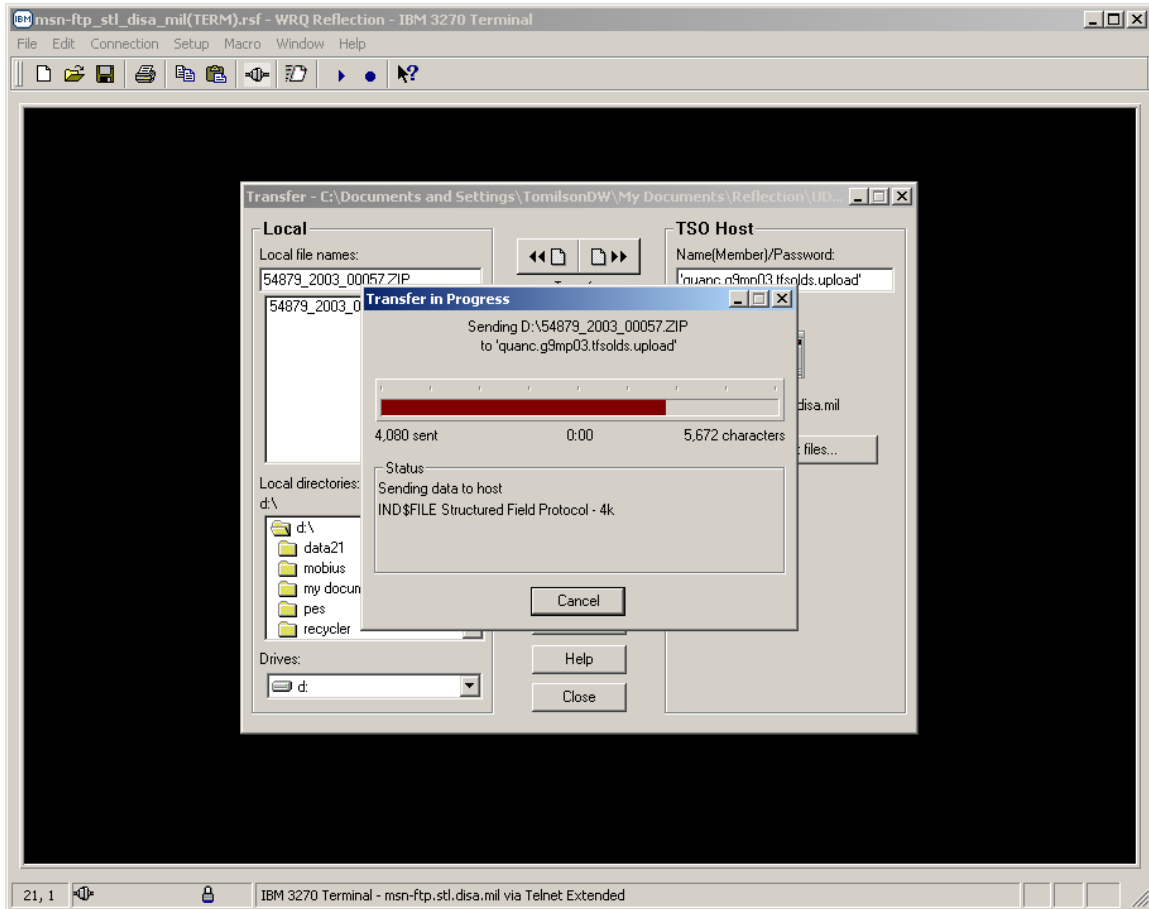
- Now that all the necessary information has been specified, mouse click on the right hand button

portion  of the  Transfer control dialog window to initiate the '*TSO IND\$FILE*' file transfer.

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UNIT DIARY UPLOADS

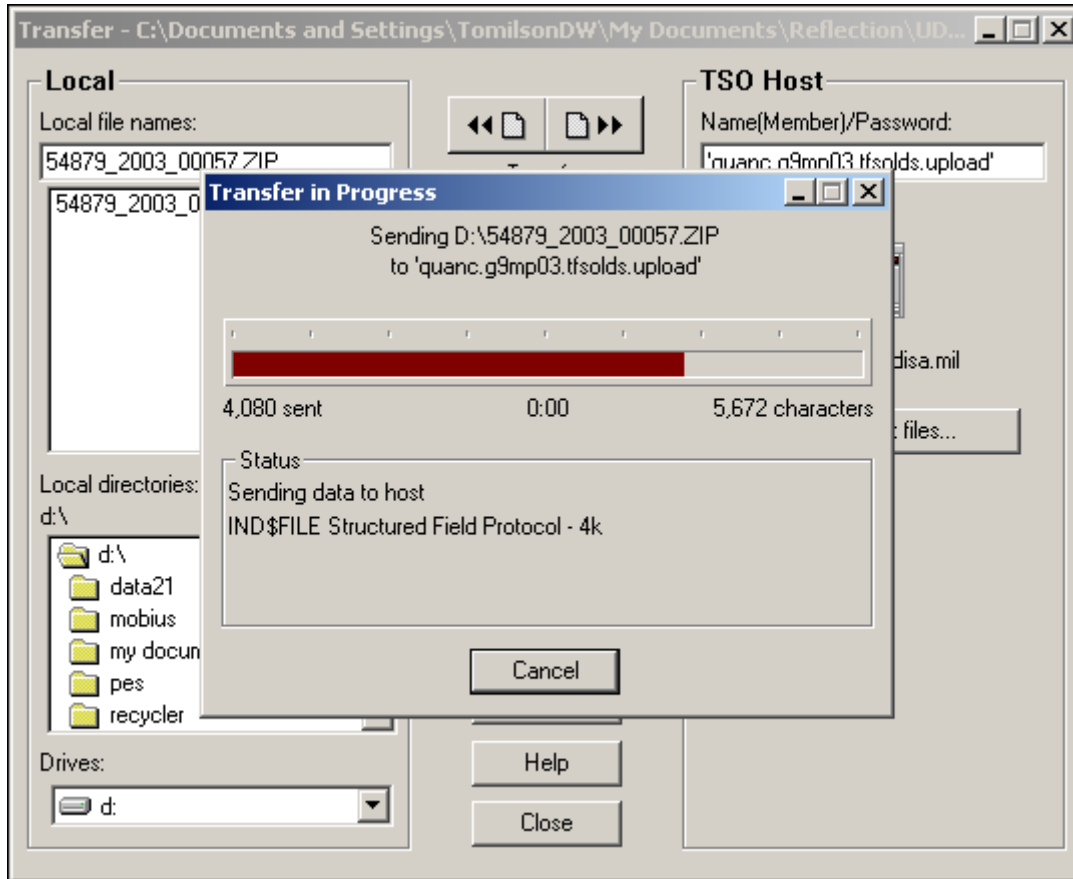
- At this point the file transfer process will begin as shown below.



- A detail of just the 'Transfer' and 'Transfer in Progress' dialog windows follows below.

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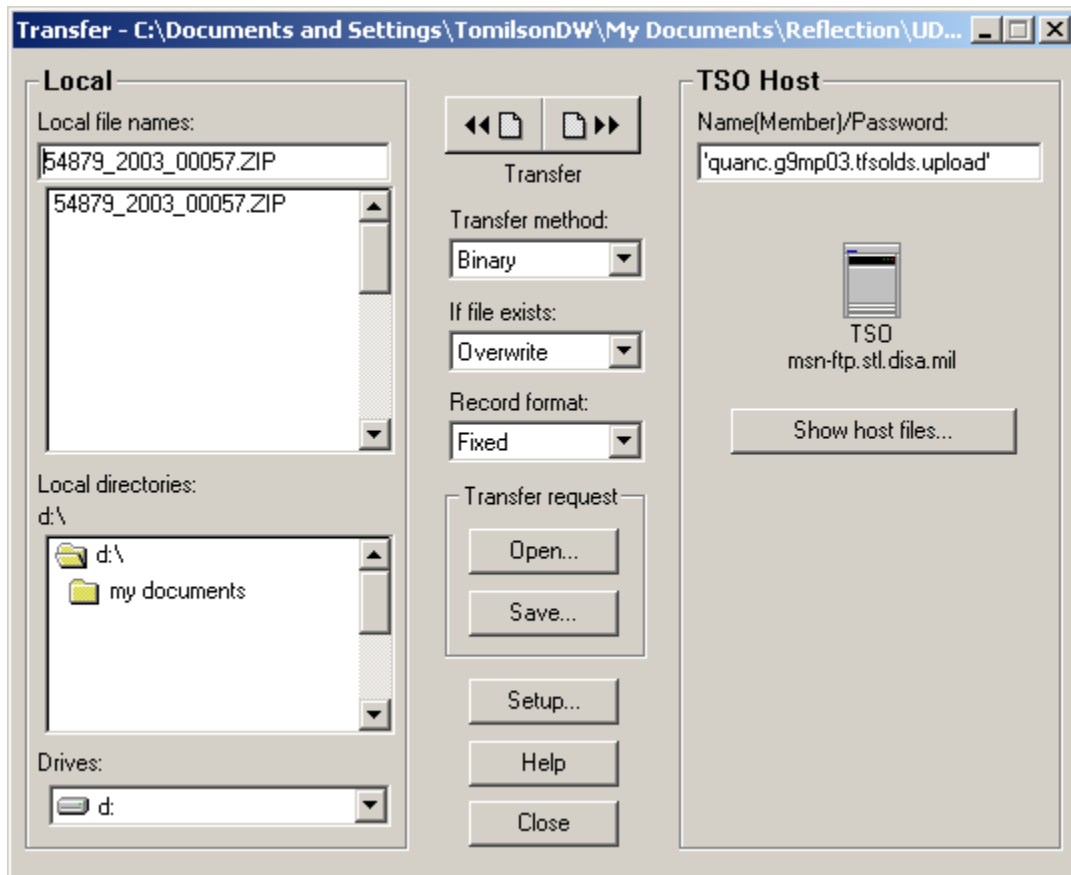
UNIT DIARY UPLOADS




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UNIT DIARY UPLOADS

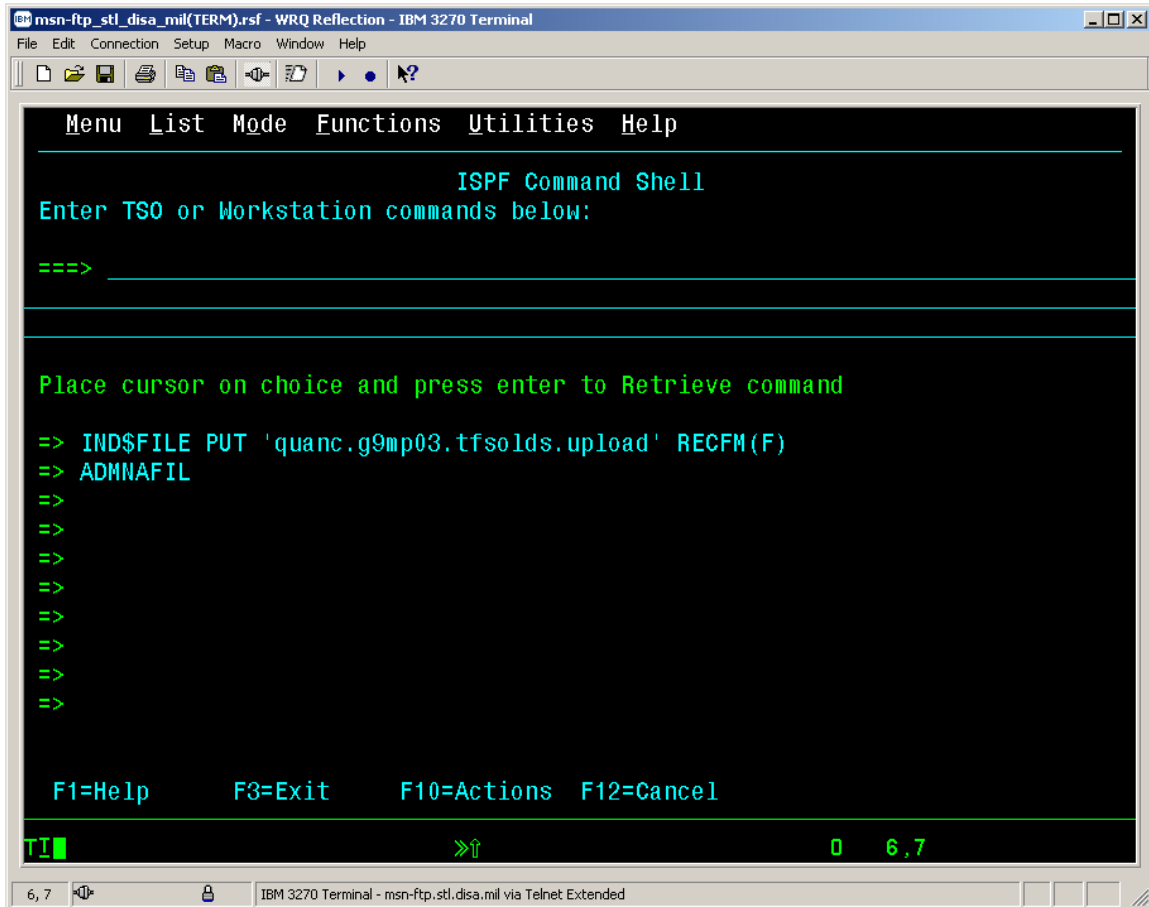
- When the transfer has completed, *Transfer in Progress*' dialog window will close as shown below.



- Mouse click on the  button located in the bottom center portion of the *'Transfer'* dialog window to close this dialog and return you to the ==> ready prompt on the *'ISPF Command Shell'* within *'TSO'* as shown below.

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UNIT DIARY UPLOADS



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UNIT DIARY UPLOADS

- Prior to running the 'ADMNUPLD' CLIST command, you should verify the successful file transfer of the data to the data set. Enter '3.4' at the 'Option ==>' prompt as shown below.

```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
Menu Utilities Compilers Options Status Help
ISPF Primary Option Menu
Option ==> =3.4
0 Settings      A Production Products Menu      User ID . : G9MP03
1 View (Browse) B Site Specific Applications Menu Time . . . : 13:53
2 Edit          C Systems Maint Products Menu  Terminal . : 3278
3 Utilities     D Online Documentation Menu    Screen . . : 1
4 Foreground   I InfoMgt/Tivoli Service Desk  Language . : ENGLISH
5 Batch        S SDSF                          Appl ID . : ISR
6 Command      T TASO Menu                    TSO logon : TSOSYS
7 Dialog Test  U TSO Utility Commands         TSO prefix: TSONSB
8 LM Facility
9 SCLM
10 Workplace
                                System ID : MSI0
                                MVS acct. : Z1GGB001
                                Release . : ISPF 5.0

Enter X to Terminate using log/list defaults
DMC Help Desk: DSN 693-9077/Commercial (314)263-9077

F1=Help      F3=Exit      F10=Actions  F12=Cancel

TI          >>↑          0 4,18
4, 18      IBM 3270 Terminal - msn-ftp_stl_disa_mil via Telnet Extended
```


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UNIT DIARY UPLOADS

- The 'TSO ISPF Data Set List Utility' screen will be displayed as shown below. Specify the data set name qualifier or the fully qualified data set name used in the file transfer in the 'TSO Host

TSO Host
Name(Member)/Password:

data set name' box as shown here from the 'Transfer' dialog window and press the <Enter> key.

The screenshot shows an IBM 3270 Terminal window titled "msn-ftp_stl_disa_mi(TERM).rsf - WRQ Reflection - IBM 3270 Terminal". The main display area shows the "Data Set List Utility" menu with the following options:

```
Menu RefList RefMode Utilities Help
Data Set List Utility
Option ==>
blank Display data set list          P Print data set list
  V Display VTOC information          PV Print VTOC information

Enter one or both of the parameters below:
Dsnam Level . . . QUANC.G9MP03.*
Volume serial . . .

Data set list options
Initial View . . . 1 1. Volume          Enter "/" to select option
                   2. Space             / Confirm Data Set Delete
                   3. Attrib            / Confirm Member Delete
                   4. Total

When the data set list is displayed, enter either:
"/" on the data set list command field for the command prompt pop-up,
an ISPF line command, the name of a TSO command, CLIST, or REXX exec, or
"=" to execute the previous command.

F1=Help    F3=Exit    F10=Actions  F12=Cancel

TI  >>  0  10,24
```

The terminal window also shows a status bar at the bottom with "10, 24", "IBM 3270 Terminal - msn-ftp.stl.disa.mi via Telnet Extended", and "CAP".

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UNIT DIARY UPLOADS

- All data sets matching the qualifier will be displayed. Enter a 'b' in the command area for the data set containing the unit diary uploaded information.

```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
Menu Options View Utilities Compilers Help
DSLIST - Data Sets Matching QUANC.G9MP03.* Row 1 of 1
Command ===> Scroll ===> PAGE
Command - Enter "/" to select action Message Volume
-----
B_ QUANC.G9MP03.TFSOLDS.UPLOAD SVB527+
***** End of Data Set list *****
F1=Help F3=Exit F5=Rfind F12=Cancel
TI >> 0 8,3
8, 3 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended
```

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UNIT DIARY UPLOADS

- The data contained in the data set should be very cryptic because it is in a zipped format. In essence, all you are ensuring is that the data set is not empty.

```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
Menu Utilities Compilers Help
BROWSE QUANC.G9MP03.TFSOLDS.UPLOAD Line 00000000 Col 001 080
Command ==> Scroll ==> PAGE
***** Top of Data *****
&.....:..*..)|)!!.....^.....^.....R;.M.-CT.../o1)...k.R.....1..6
?.|.....m..s).|0.iq)1Z... \0...E=.g.\v...~...f...I...!... (=t.T...`.....w4
.7.F..1...|.....h.....+X. .3..i...H...!c..@4...|m<.*...YK.....w.3.oG...D\+.U.
***** Bottom of Data *****
F1=Help F3=Exit F5=Rfind F12=Cancel
TI >> 0 4,15
4, 15 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended
```

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UNIT DIARY UPLOADS

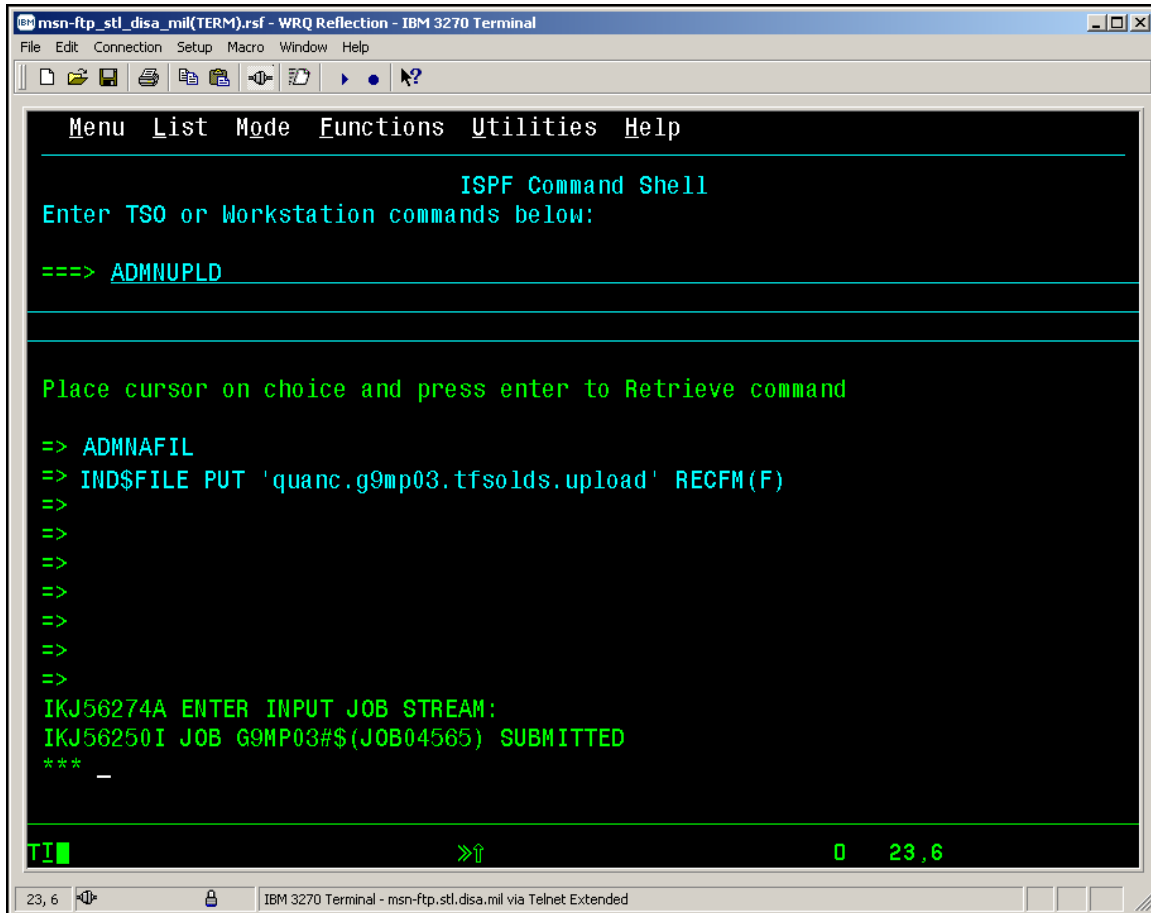
- Enter '=6' to return to the '*ISPF Command Shell*' as shown below.

```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
[Icons]
Menu List Mode Functions Utilities Help
ISPF Command Shell
Enter TSO or Workstation commands below:
===>
Place cursor on choice and press enter to Retrieve command
> ADMNAFIL
> IND$FILE PUT 'quanc.g9mp03.tfsolds.upload' RECFM(F)
>
>
>
>
>
>
>
>
F1=Help    F3=Exit    F10=Actions  F12=Cancel
TI                                     0 6,7
6,7 [Icons] IBM 3270 Terminal - msn-ftp_stl_disa_mil via Telnet Extended
```

- At the ===> ready prompt on the '*ISPF Command Shell*' you will need to enter the '*ADMNUPLD*' the second and final CLIST command to upload the unit diary information to the shared data set.
- A batch job will be submitted, as indicated by the message.

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UNIT DIARY UPLOADS



```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
Menu List Mode Functions Utilities Help
ISPFL Command Shell
Enter TSO or Workstation commands below:
===> ADMNUPLD
Place cursor on choice and press enter to Retrieve command
=> ADMNAFIL
=> IND$FILE PUT 'quanc.g9mp03.tfso1ds.upload' RECFM(F)
=>
=>
=>
=>
=>
=>
=>
IKJ56274A ENTER INPUT JOB STREAM:
IKJ56250I JOB G9MP03#$(JOB04565) SUBMITTED
***
TI 0 23,6
23,6 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended
```

- Press <Enter> to return to the “Ready” prompt.
- You may return to the ‘*TSO ISPF Menu*’ by pressing the Program Function key *PF3*, to verify the successful execution of the CLIST, the associated batch job, and to view the unit diary information stored in the shared data set.

WRQ Inc. Reflection for IBM Version 10.0 User Guide

TRECON FILE DOWNLOAD

- In an effort to provide a more secure means of transferring MCTFS TRECON information, Kansas City has implemented a new download procedure that requires the users to download the TRECON zip files from a mainframe data set to a file on their personal computer.
- This process requires the user to utilize the '*TSO IND\$FILE File Transfer*' process to securely transfer down to a personal computer zip file a mainframe TRECON data set.
- Start a *Reflection 3270 terminal session* and enter the menu option that corresponds to your site. The DISA warning banner will be displayed.
- Press the <Enter> key to continue. You will be prompted to login with your *Userid / Password*.
- Upon logging in the '*CL/Supersession Main Menu*' will be displayed.
- Select '*TSO*' from the list of displayed menu options.
- **Note:** In the following examples the unit diary upload process is conducted from the *TSO ISPF Command Shell*. The process is performed by selecting *Option 6 <Command>*, from the *TSO ISPF Primary Option Menu*.

```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
-----
Actions Options Commands Features Help
-----
KLSVSEL1          CL/SUPERSESSSION Main Menu          More: +
Select sessions with a "/" or an action code.

  Session ID  Description                Type      Status
  -----
  TSO         TSO                          Multi
  ROSCOE     ROSCOE                       Multi
  ALACICS    ALA CICS PRODUCTION          Multi
  ALACICS2   ALA CICS PRODUCTION          Multi
  ALACICSD   ALA CICS DEVELOPMENT         Multi
  ASICIT00   CICS/ADABASE OKR TEST        Multi
  ALAINFO    ALA INFOPAC RDS              Multi
  ALAINFPM   ALA INFOPAC MAINTENANCE      Multi
  OKRCICS    OKR CICS PRODUCTION          Multi
  OKRCICS2   OKR CICS2 PRODUCTION         Multi
  OKRINFO    OKR INFOPAC RDS              Multi
  OKRINFPM   OKR INFOPAC MAINTENANCE      Multi

Command ==>
Enter F1=Help F3=Exit F5=Refresh F8=Fwd F9=Retrieve F10=Action
AA0D/ASNT1042
TI  >> 0 9,2
9, 2  IBM 3270 Terminal - msn-ftp_stl_disa_mil via Telnet Extended
```

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TRECON FILE DOWNLOAD

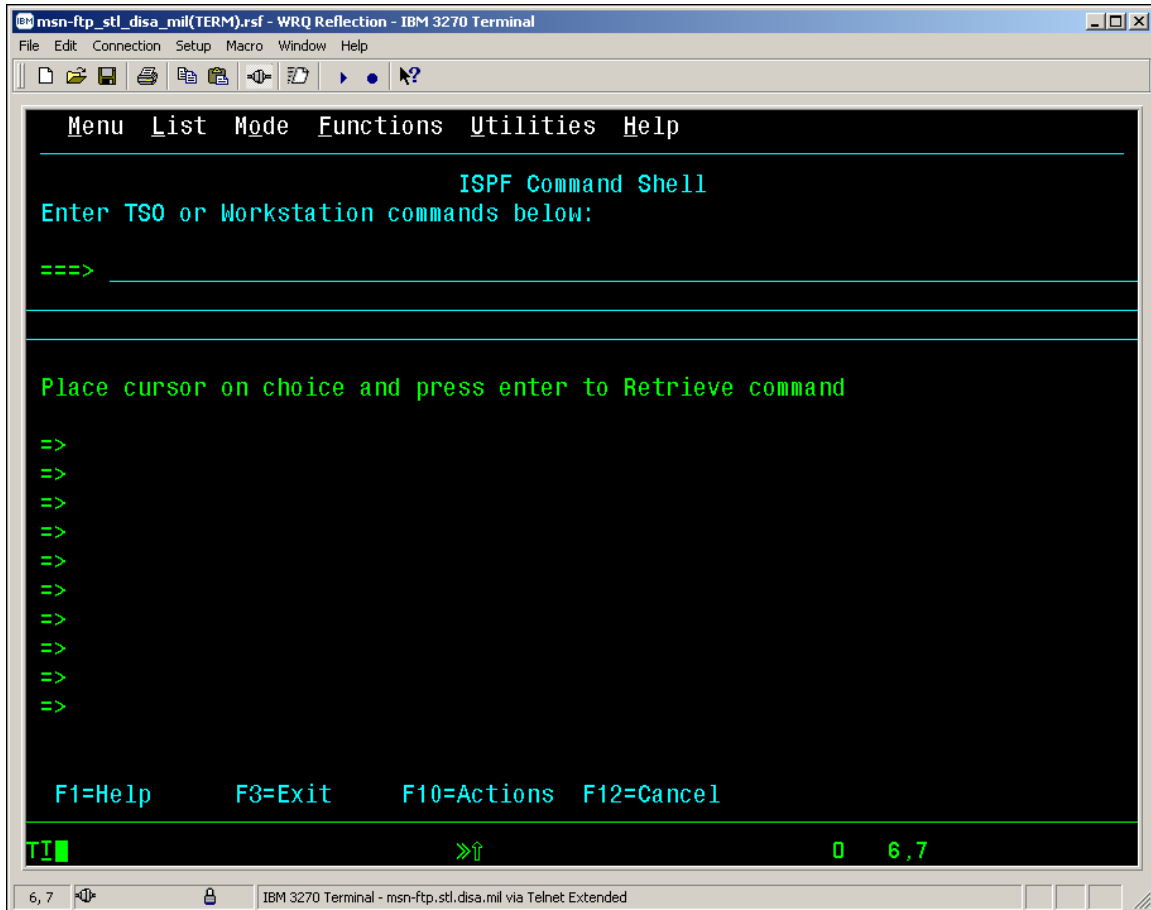
- The *ISPF Primary Option Menu* will appear as displayed below.

```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
Menu Utilities Compilers Options Status Help
ISPF Primary Option Menu
Option ==>
0 Settings      A Production Products Menu      User ID . : G9MP03
1 View (Browse) B Site Specific Applications Menu  Time. . . : 08:24
2 Edit          C Systems Maint Products Menu    Terminal. : 3278
3 Utilities     D Online Documentation Menu       Screen. . : 1
4 Foreground    I InfoMgt/Tivoli Service Desk     Language. : ENGLISH
5 Batch         S SDSF                             Appl ID . : ISR
6 Command       T TASO Menu                        TSO logon : TSOSYS
7 Dialog Test   U TSO Utility Commands            TSO prefix: TSOMSB
8 LM Facility
9 SCLM
Licensed Materials - Property of IBM
5647-A01 (C) Copyright IBM Corp. 1980, 2000.
All rights reserved.
US Government Users Restricted Rights -
Use, duplication or disclosure restricted
by GSA ADP Schedule Contract with IBM Corp.
-9077
F1=Help      F3=Exit      F10=Actions  F12=Cancel
TI          >>↑          0  4,14
4, 14      IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended
```

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TRECON FILE DOWNLOAD

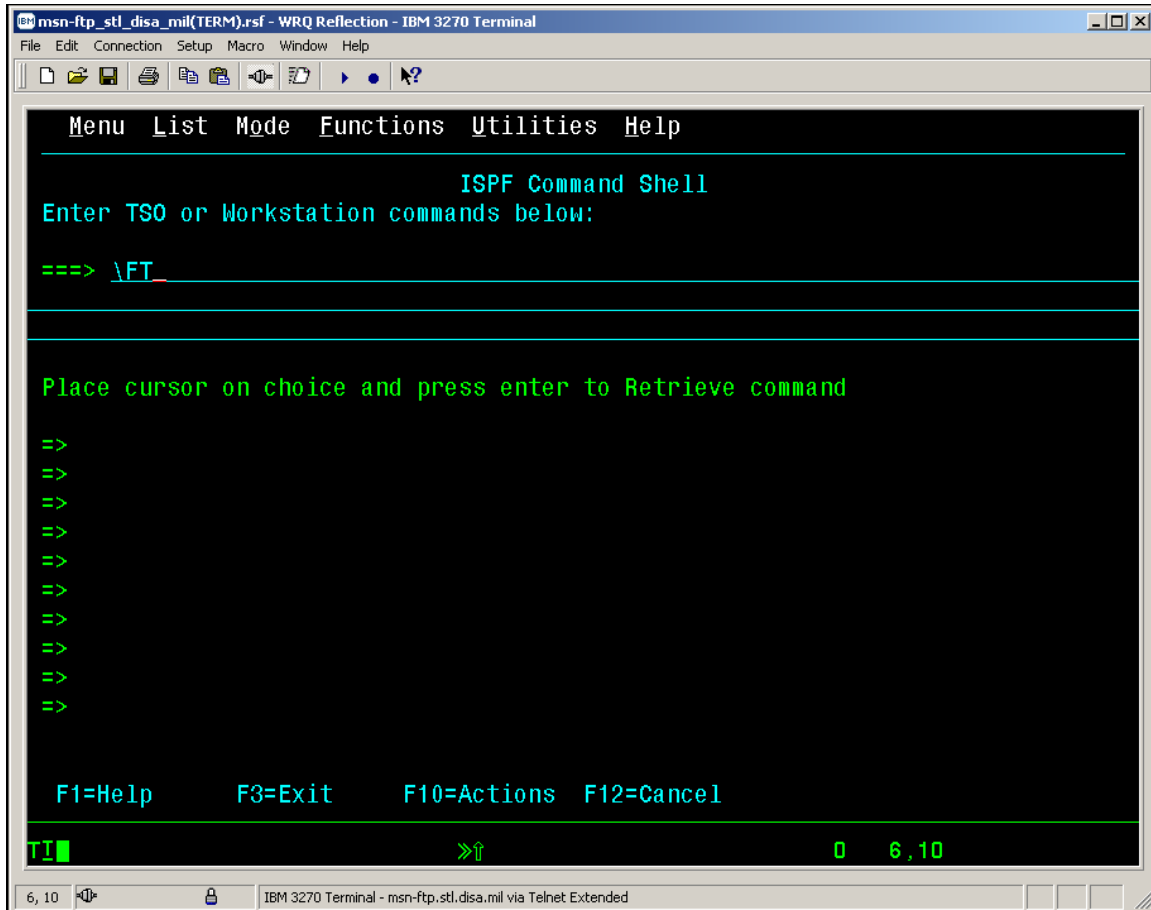
- At the *Option* ===> prompt, enter *Option 6* <Command>, which will open the *TSO ISPF Command Shell* as shown below.



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TRECON FILE DOWNLOAD

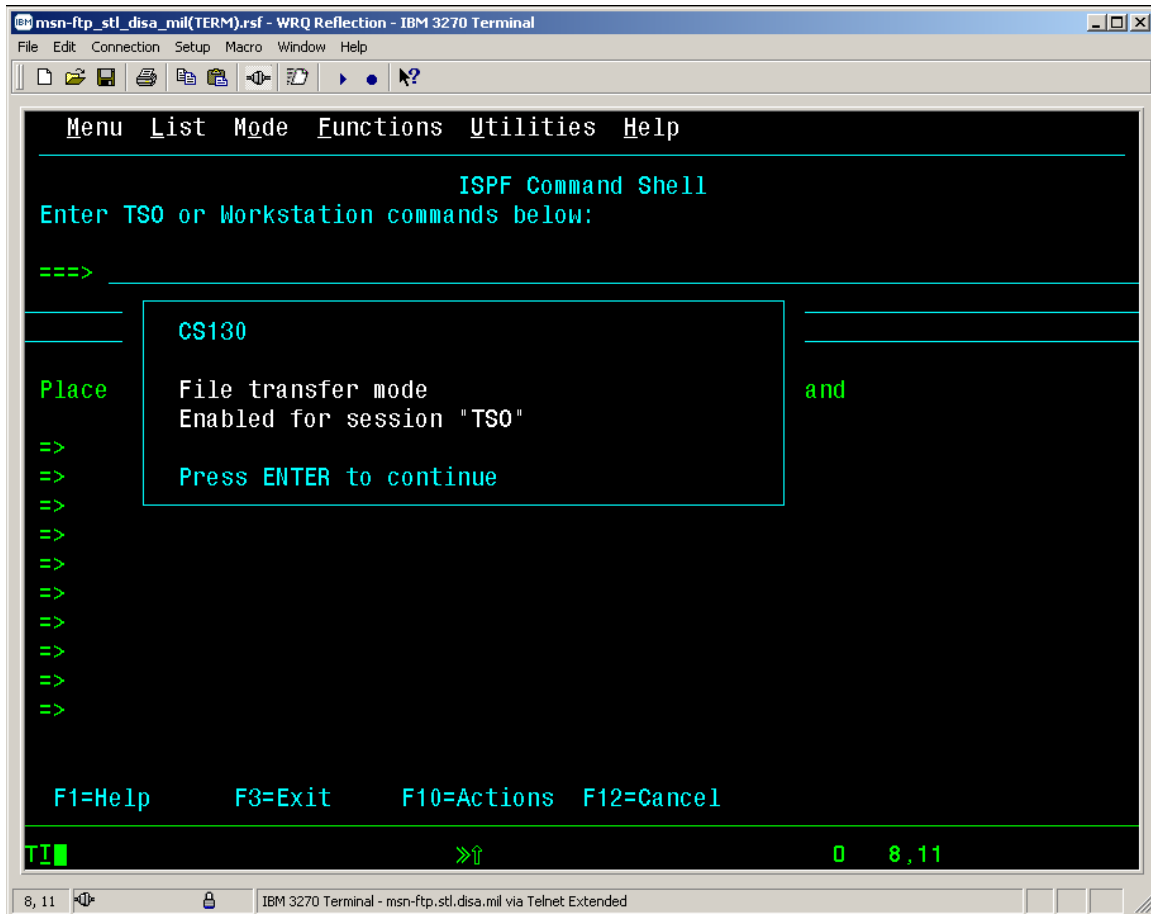
- Once in *TSO ISPF Command Shell*, you must enter the '*FT*' command as shown below to enable file transfer mode.



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TRECON FILE DOWNLOAD

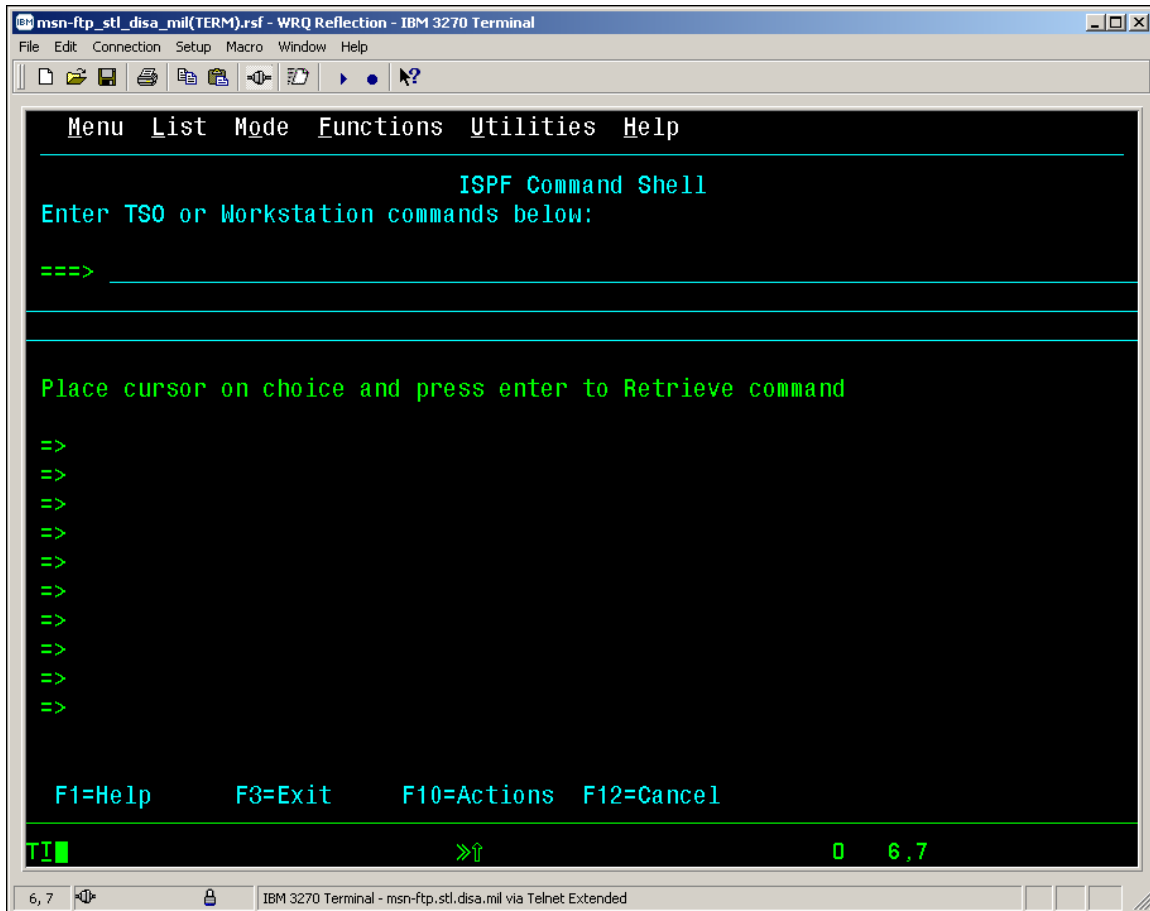
- Below is the *TSO ISPF Command Shell* response message box reply that you will get after entering *'FT'*, stating that *'File transfer mode Enabled for session 'TSO''*.



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TRECON FILE DOWNLOAD

- As this message box states '*Press ENTER to continue*' and the 3270 display screen will again appear as shown below.

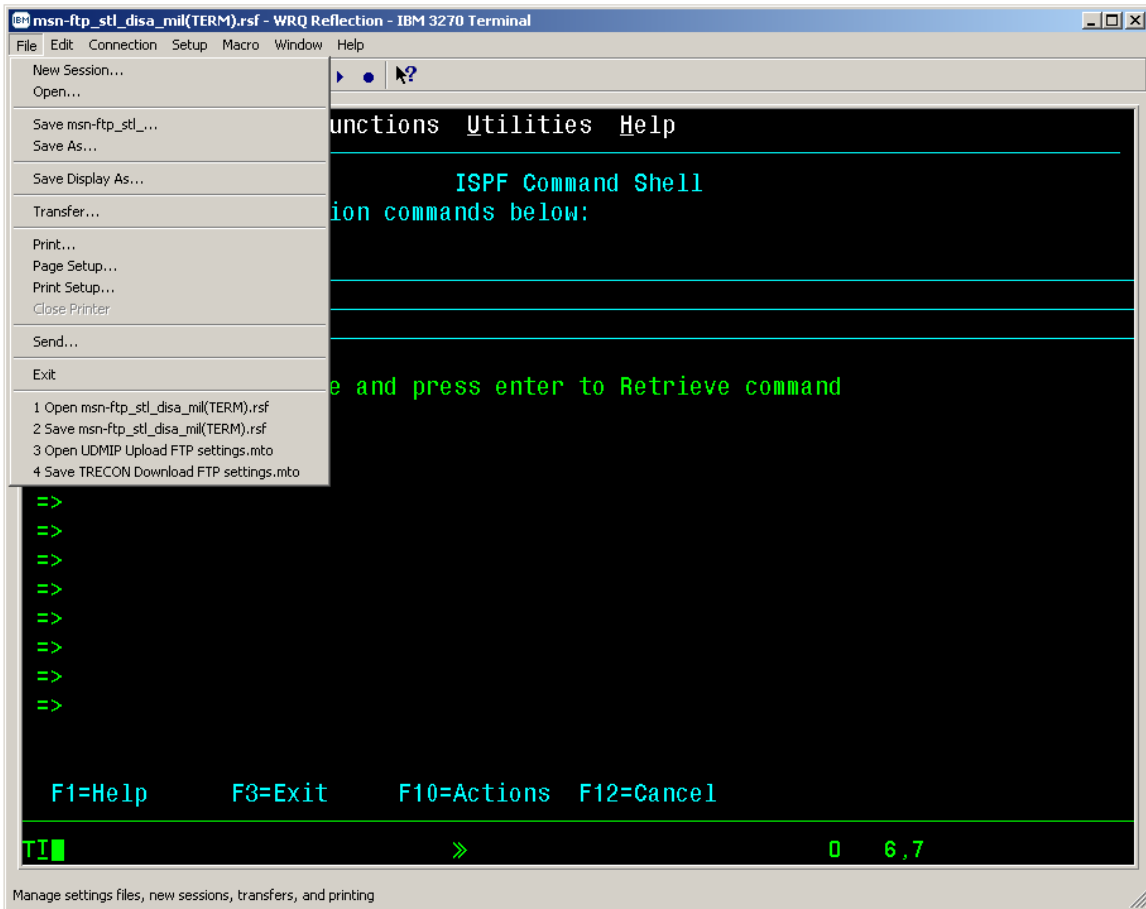


- With your mouse pointer select '*File*' **File** from the top menu on the 3270 *msn-ftp.stl.disa.mil(TERM) – WQR Reflection – IBM 3270 Terminal* display screen.

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TRECON FILE DOWNLOAD

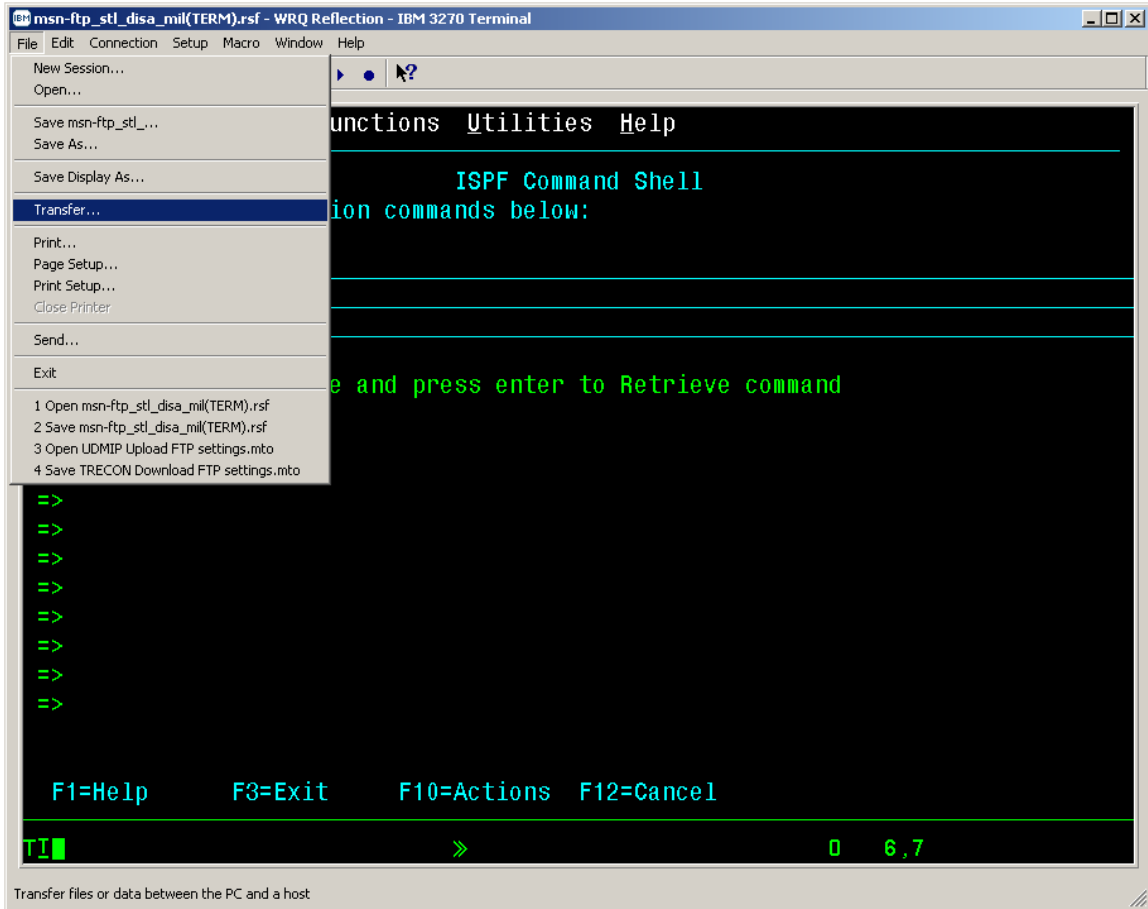
- The 'File' drop down menu as shown below will appear on the *3270 msn-ftp.stl.disa.mil(TERM)* – *WQR Reflection – IBM 3270 Terminal* session screen.



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TRECON FILE DOWNLOAD

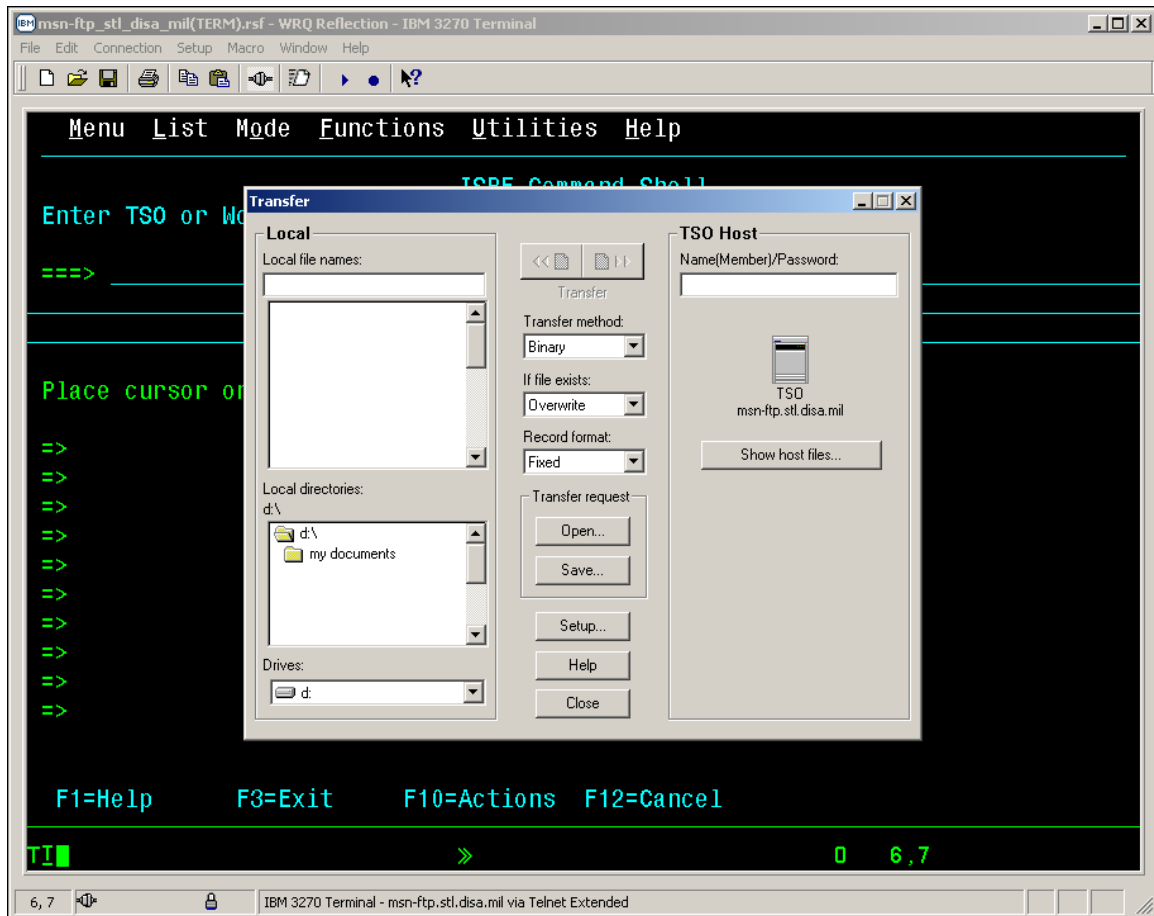
- From the 'File' drop down menu of the 3270 msn-ftp.stl.disa.mil(TERM) – WQR Reflection – IBM 3270 Terminal session screen select 'Transfer...' as shown below.



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TRECON FILE DOWNLOAD

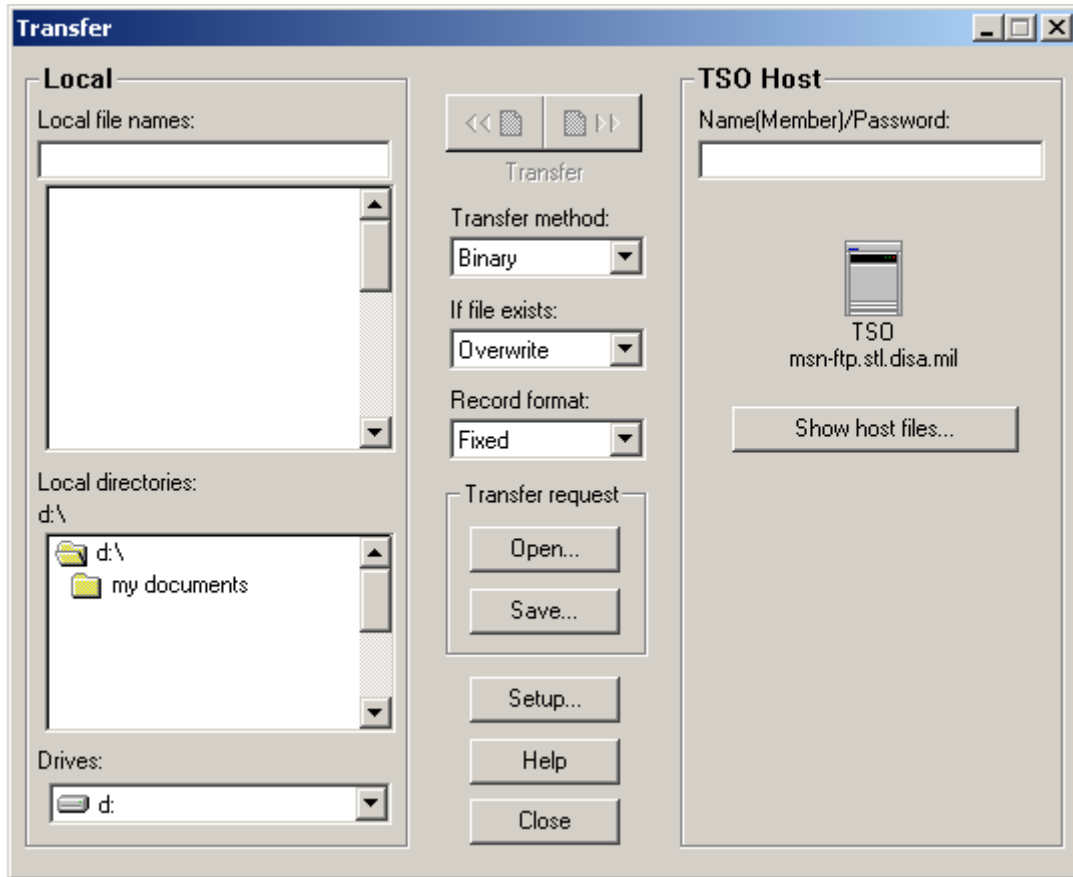
- The *'Transfer'* dialog windows pop-up screen as shown below will be displayed



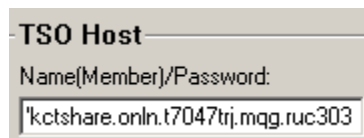
- A detailed cutout view of the *'Transfer'* dialog windows pop-up screen is shown below.

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TRECON FILE DOWNLOAD



- Enter the mainframe data set name of your units TRECON file enclosed in *tick marks* < 'KCTSHARE.ONLN.T7047TRJ.MQG.RUC30370' > in the 'TSO Host Name(Member)/Password' dialog box on the right hand portion of the 'Transfer' dialog window as shown below.

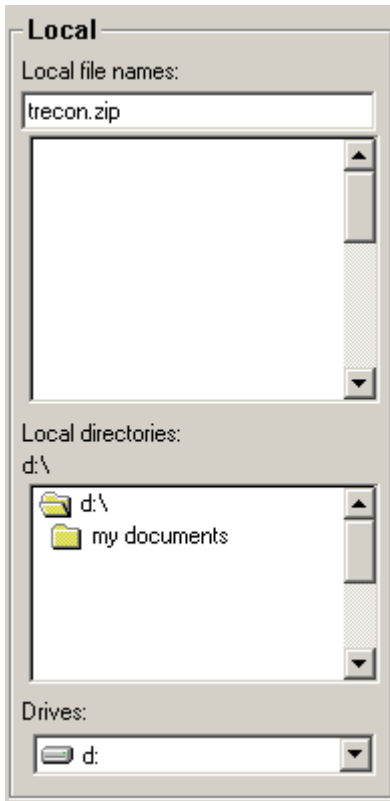


Note: For instructional purposes only the data name for the TRECON file of the Marine Corps Unit whose Reporting Unit Code (RUC) is 30370 has been utilized in these examples relative to the TRECON File download process.

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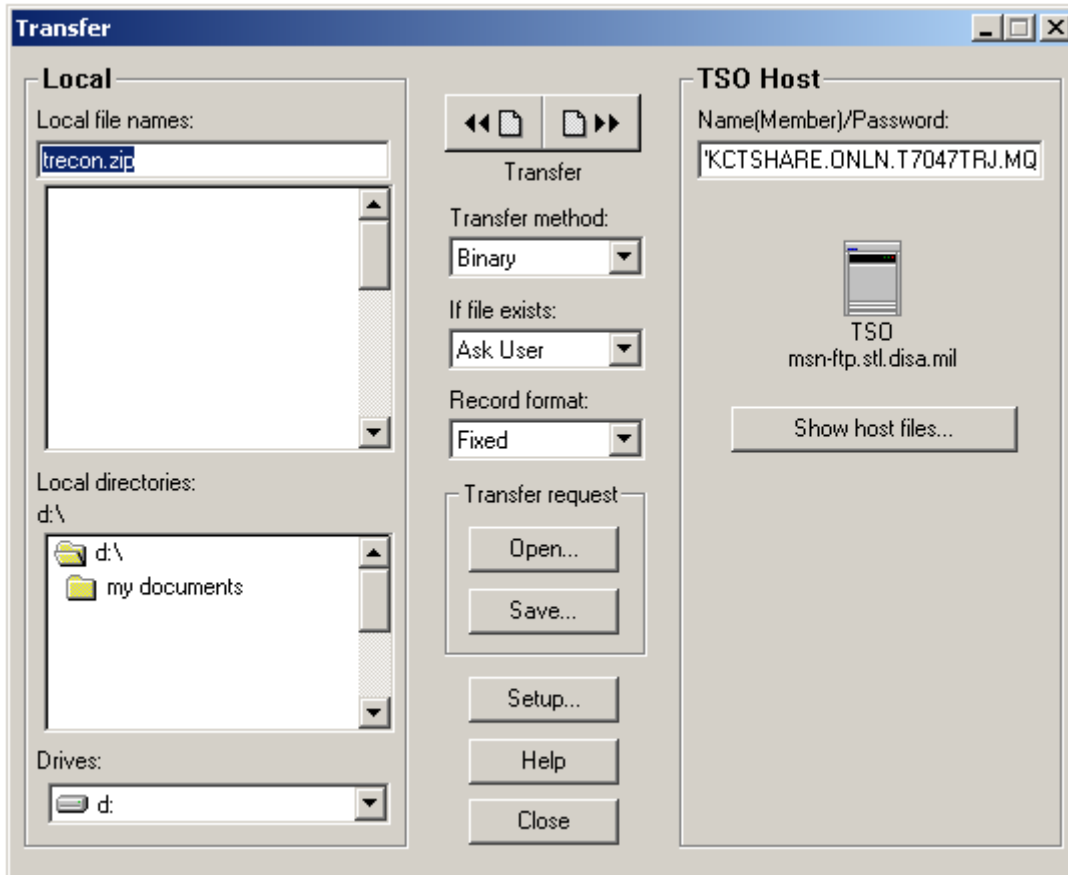
TRECON FILE DOWNLOAD

- Enter the 'PC File Name' that you wish to name your units downloaded mainframe TRECON data set to in the '*Local file names:*' dialog box located on the left hand portion of the '*Transfer*' dialog window as shown below.

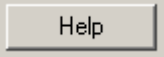


- Mouse click on and select the *Drive* and *Local directories* folder that you wish your downloaded TRECON file to be placed in as shown above.
- In the example below, the *Drive* selected is '*d:*', the *Local directory* selected is the '*root*' directory on the *d:* drive, and the file name for the downloaded mainframe TRECON data set on that directory is '*TRECON.ZIP*'.

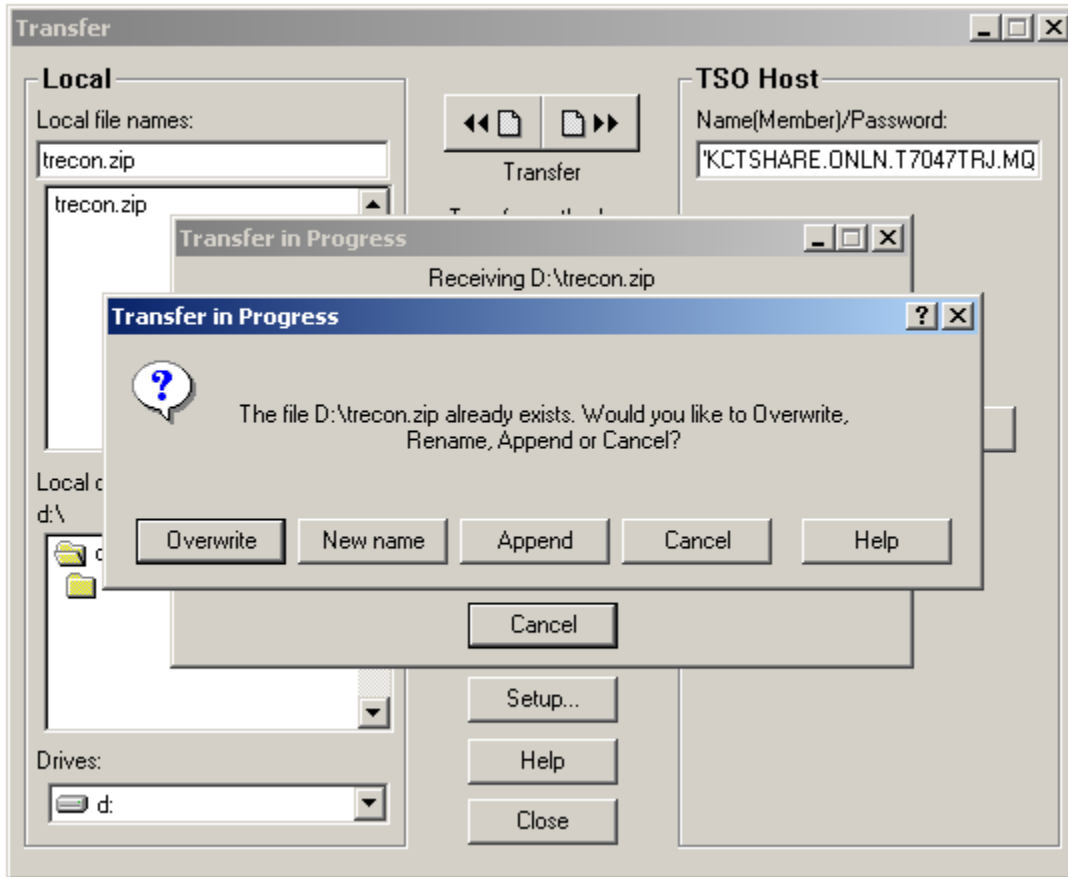
TRECON FILE DOWNLOAD



- The '*Transfer method*' may be '*ASCII*' or '*Binary*'. We've found that both have worked. If you find that the file transfer is not working for you when '*ASCII*' is specified, try the transfer in '*Binary*' prior to calling for assistance.
- The '*If file exists:*' option for this file transfer should be set to '*Ask User*' which if the file already exists on the PC, an '*If file exists:*' dialog window as shown below will open asking you whether

to '*Overwrite, Rename, Append, or Cancel*'. Additionally a  button is provided explaining each of these '*If file exists:*' options.

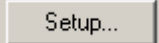
TRECON FILE DOWNLOAD

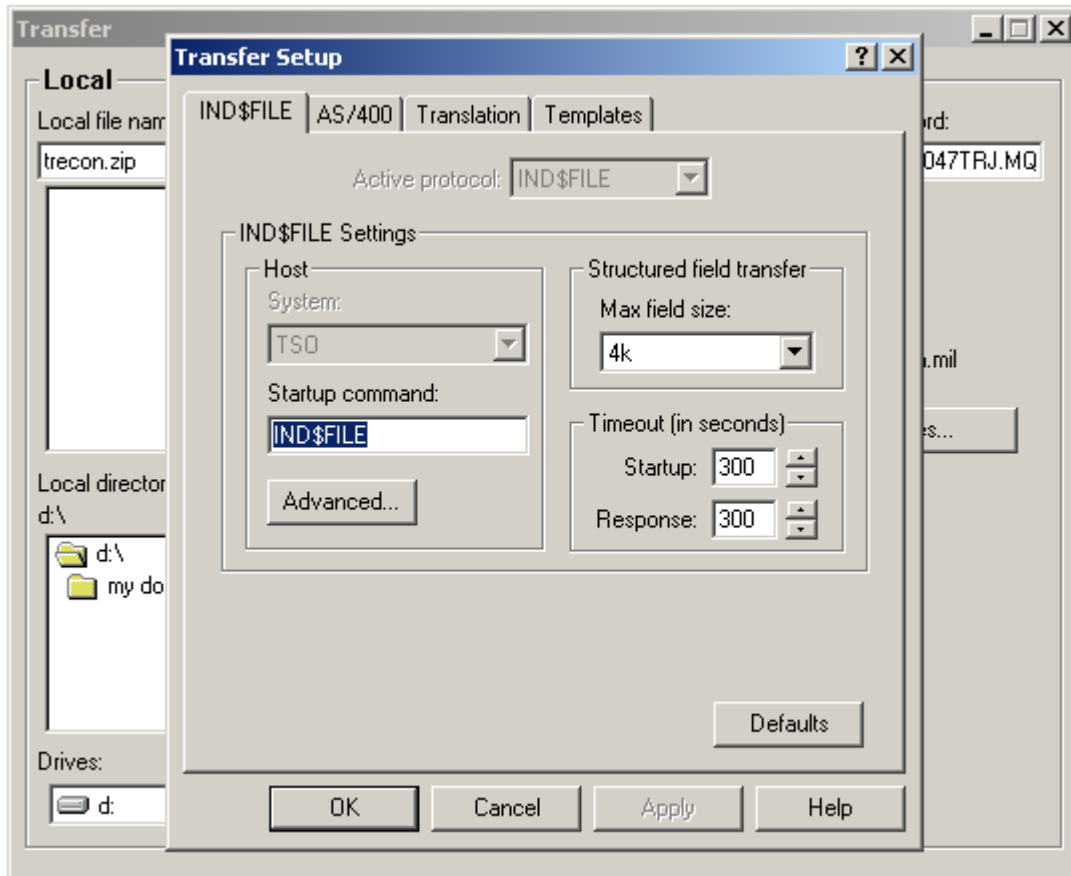


- The **'Record format:'** option for this file transfer should be set to **'Fixed'** as the record length of the file being transferred is the same for each record within the file.


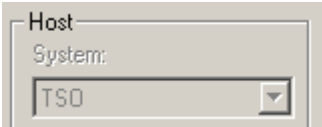
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TRECON FILE DOWNLOAD

- Mouse click on the  button which opens up the *'Transfer Setup'* windows pop-up dialog screen as shown below.

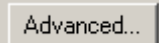


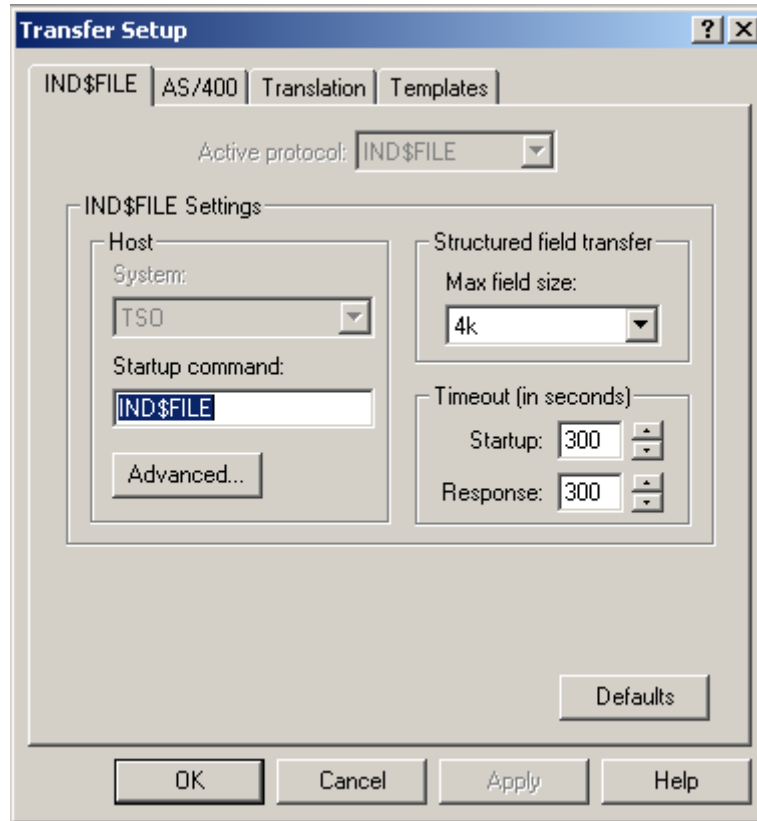
- This *'Transfer Setup'* windows pop-up dialog screen is the exact same windows pop-up dialog screen that appears when, from the *'Setup'* drop down menu of the **3270 msn-ftp.stl.disa.mil(TERM) – WQR Reflection – IBM 3270 Terminal** session screen you selected *'File Transfer...'* as described on page 130 - 133.


- **Note:** That the  and  portions of this windows pop-up dialog screen are shaded making these two options not modifiable when this dialog screen is brought up from the *'Transfer'* dialog windows pop-up screen. These two options are only modifiable when brought up from the *'Setup'* drop down menu of the **3270 msn-ftp.stl.disa.mil(TERM) – WQR Reflection – IBM 3270 Terminal** session screen.

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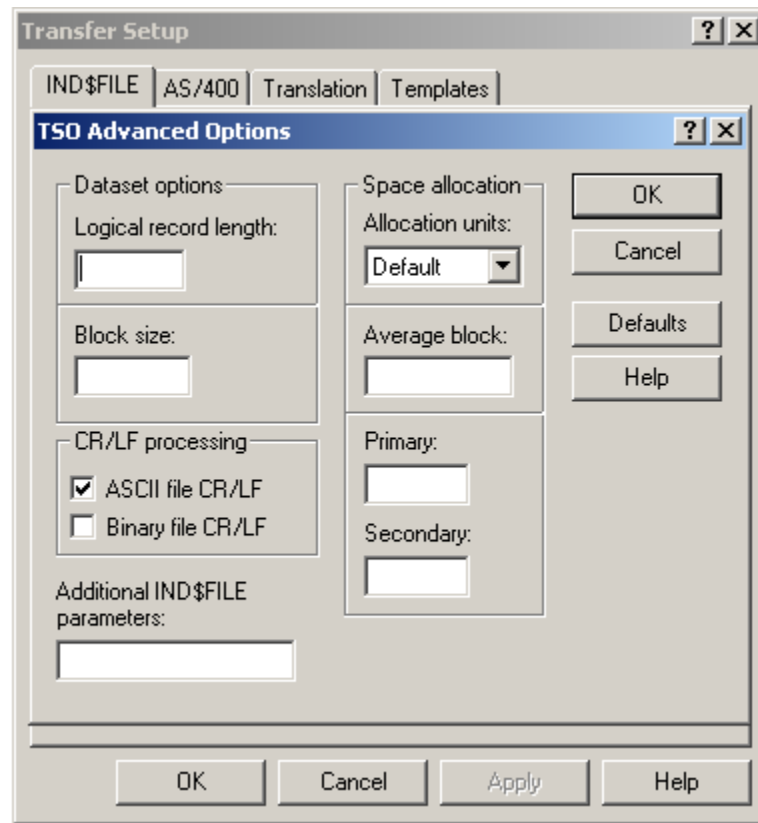
TRECON FILE DOWNLOAD


- The '*Transfer Setup*' dialog windows pop-up screen '*IND\$FILE*' tab options drop down box or button are covered on pages 130 – 133. The only options drop down or button not previously covered is the  button.

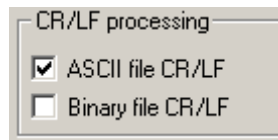


- Mouse clicking on the  button opens up the '*TSO Advanced Options*' dialog windows pop-up screen as shown below.

TRECON FILE DOWNLOAD

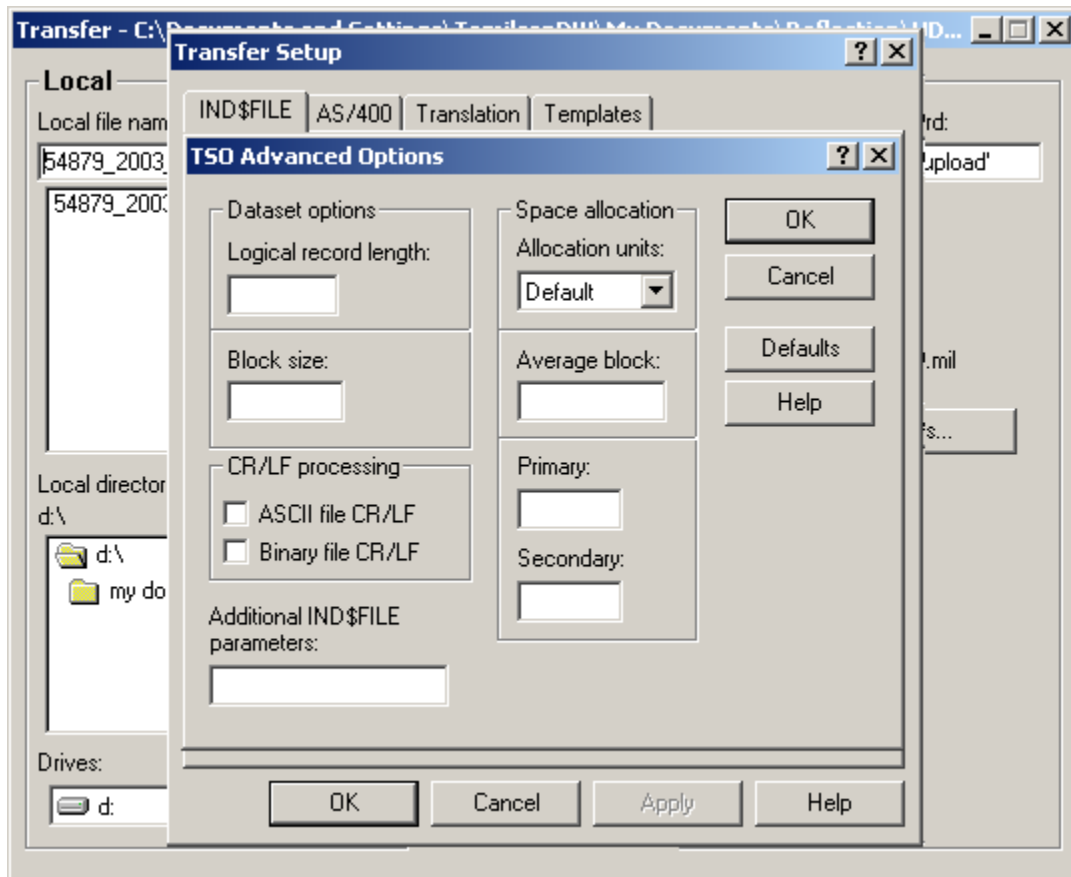




- **Note:** The 'TSO Advanced Options' dialog windows pop-up screen shown above appears with the 'DEFAULT' options only. For further explanation / understanding of each of the options on this screen please refer to the 'TSO Advanced Options' dialog windows pop-up screen's **HELP** files accessible by pressing the  button.
- 'ASCII file CR/LF' process turned on is the 'DEFAULT' setting for 'CR/LF processing', as indicated by the check mark in the dialog, box shown below.



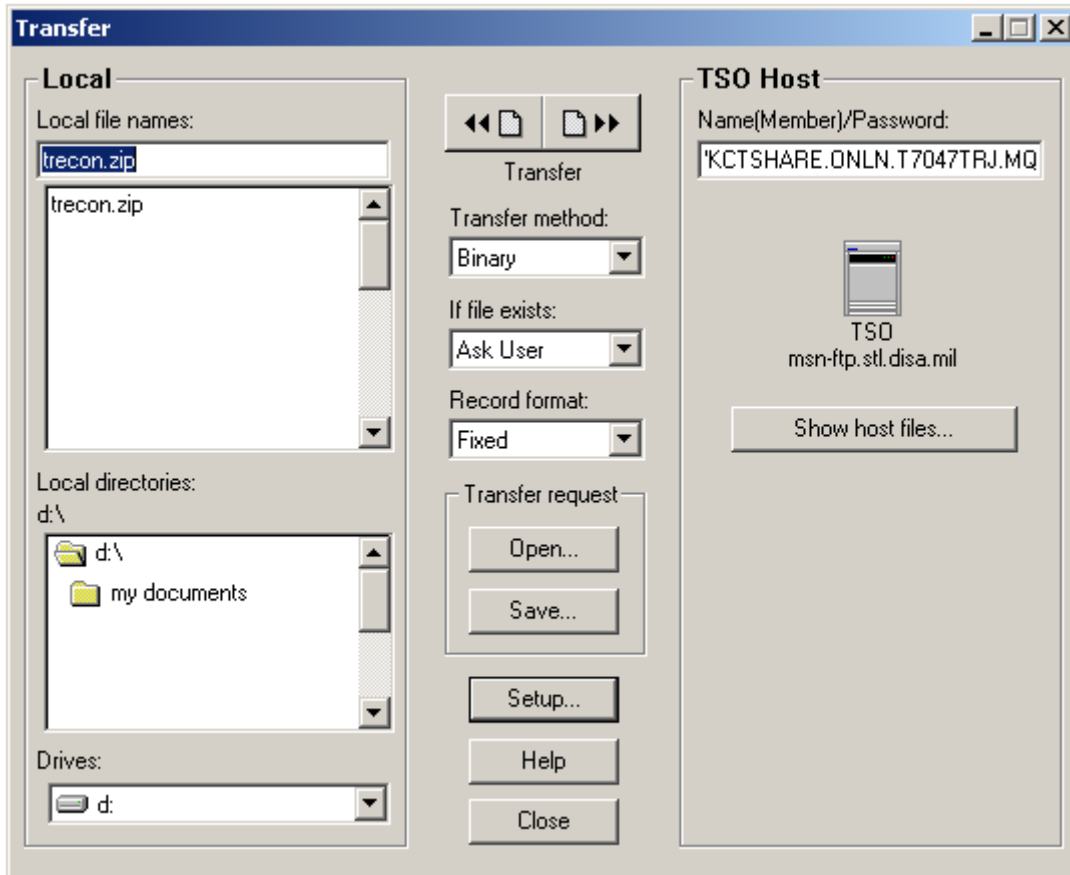
- Having this option enabled will strip / remove a carriage return character and a linefeed character from the end of each line of the file you are sending. Depending on your file transfer requirements you may wish to disable this option.
- For the purpose of this TRECON file download file transfer, both the 'ASCII file CR/LF' and 'Binary file CR/LF' processing options dialog boxes of the 'CR/LF processing' dialog panel should be left unchecked and all other dialog options on this **TSO Advanced Options** dialog windows pop-up screen should be left as shown in the example below.

TRECON FILE DOWNLOAD





- Once you have performed all the actions described above, click the  button to close the *TSO Advanced Options*' dialog window, followed by clicking the  button on the *Transfer Setup*' dialog window to close it. At this point your screen should appear as shown below.

TRECON FILE DOWNLOAD



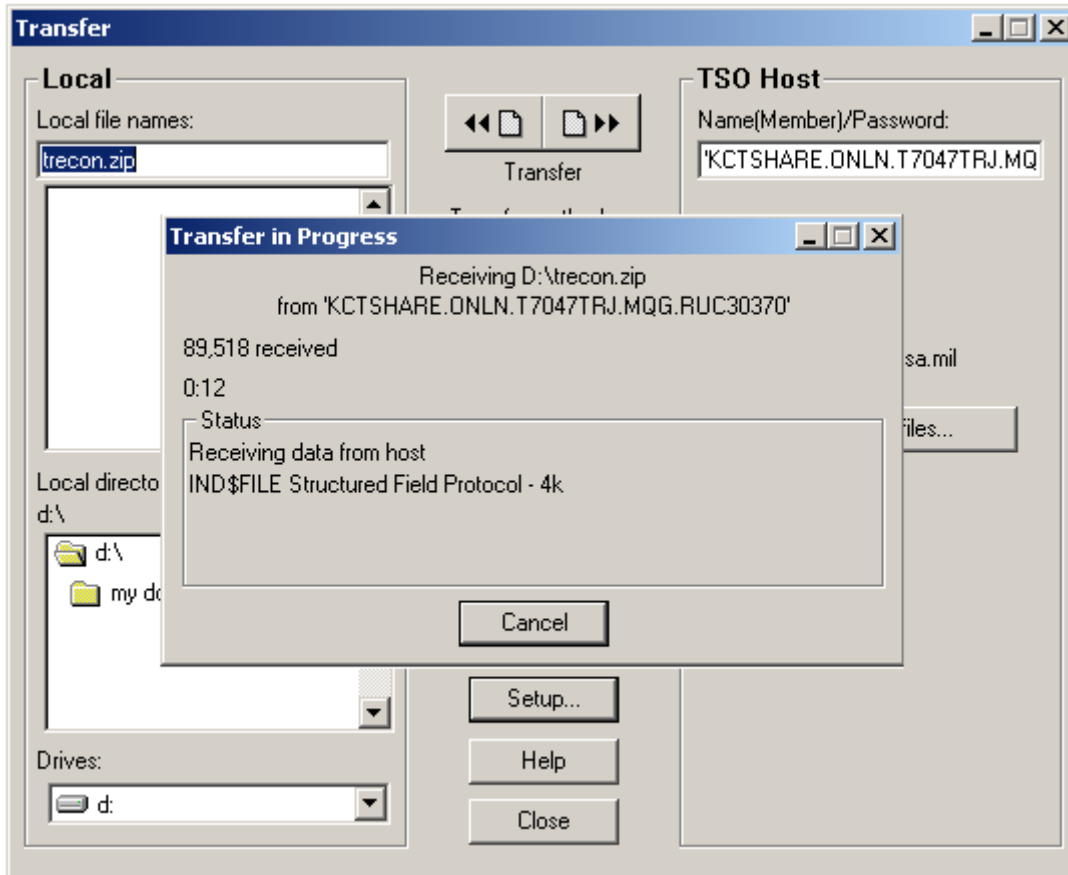
- Now that all the necessary information has been specified, mouse click on the right hand button

portion  of the  control dialog window to initiate the '*TSO IND\$FILE*' file transfer.

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TRECON FILE DOWNLOAD

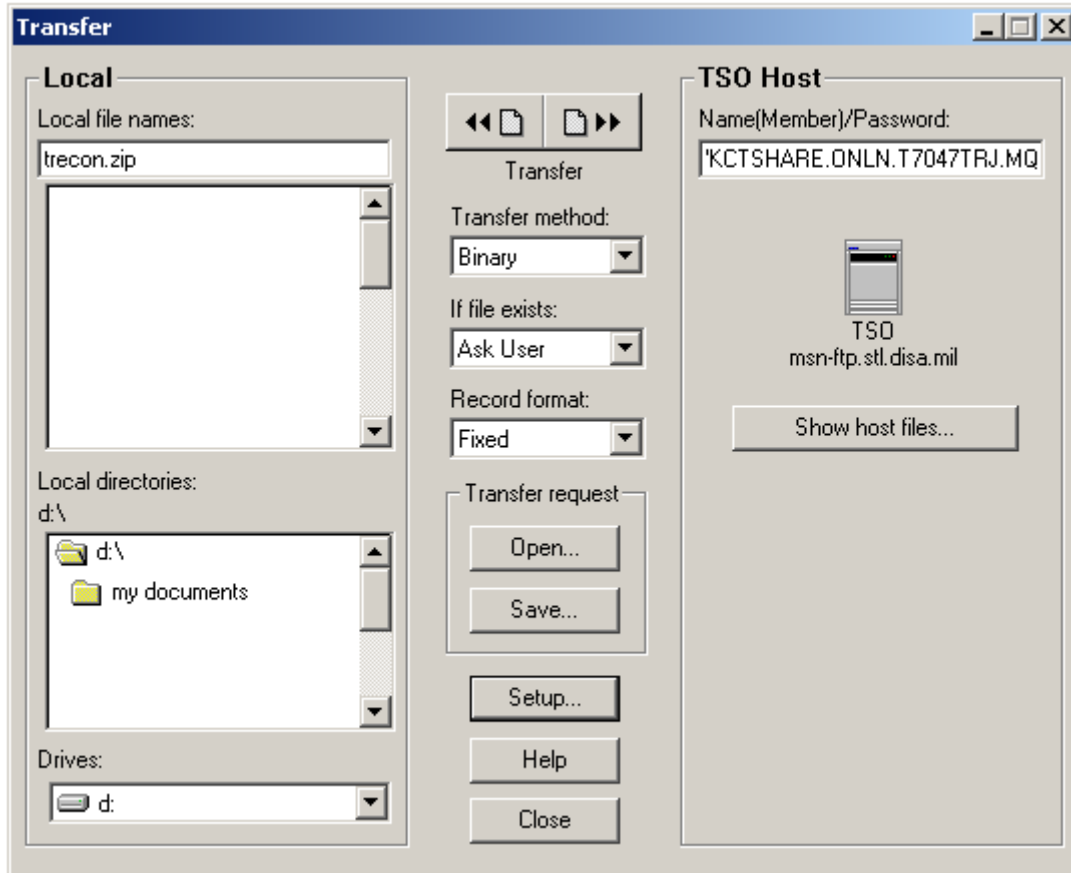
- At this point the file transfer process will begin as shown below.

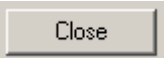


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TRECON FILE DOWNLOAD

- When the transfer has completed, the *'Transfer in Progress'* dialog window will close as shown below.



- Mouse click on the  button located in the bottom center portion of the *'Transfer'* dialog window to close this dialog and return you to the ==> ready prompt on the *'ISPF Command Shell'* within *'TSO'* as shown below.

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TRECON FILE DOWNLOAD

```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help

Menu List Mode Functions Utilities Help

ISPF Command Shell
Enter TSO or Workstation commands below:

===>

Place cursor on choice and press enter to Retrieve command

=> IND$FILE GET 'kctshare.onln.t7047trj.mqg.ruc30370'
=>
=>
=>
=>
=>
=>
=>
=>
=>

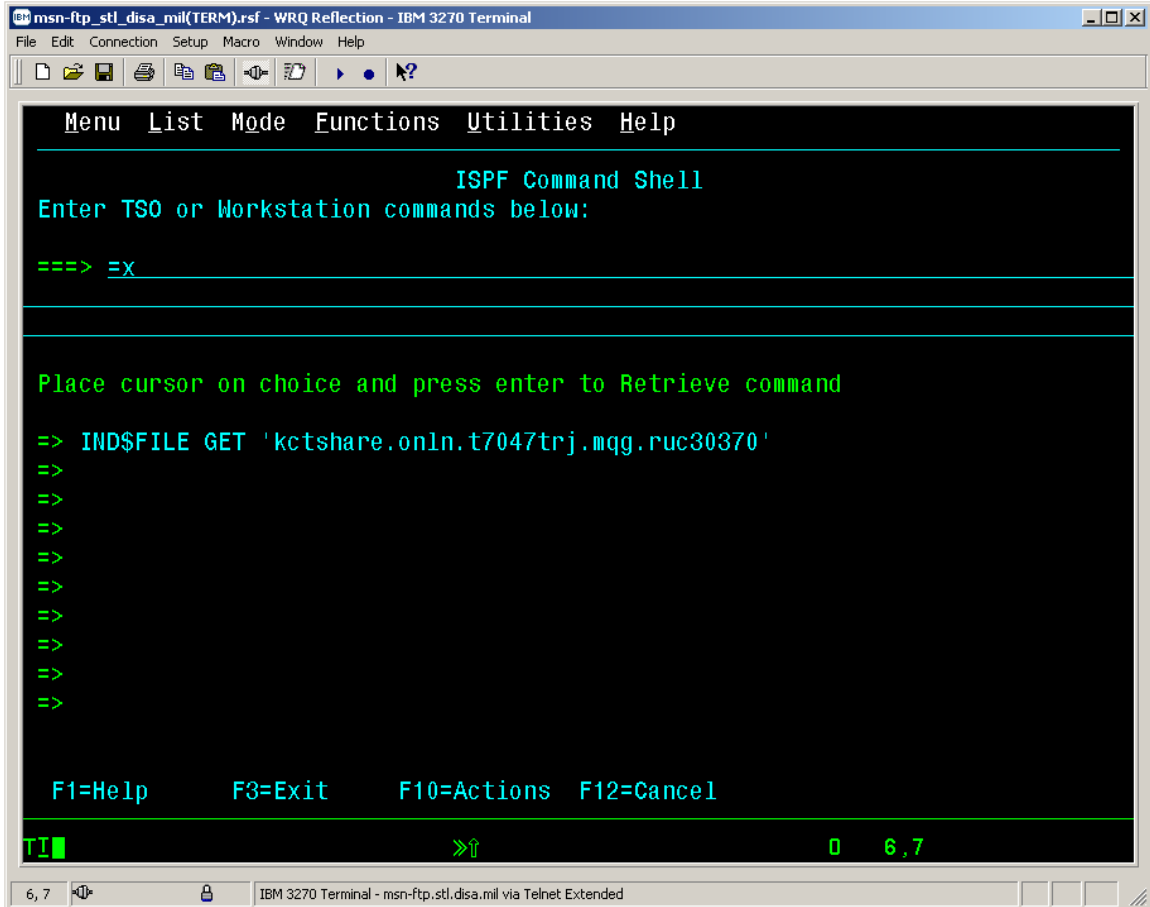
F1=Help    F3=Exit    F10=Actions  F12=Cancel

TI          >>↑          0 6,7
```

- At this point your TRECON file download file transfer process is complete and you may exit out of 'TSO' completely by entering '=X' at the '===>' ready prompt on the 'ISPF Command Shell' as shown below.

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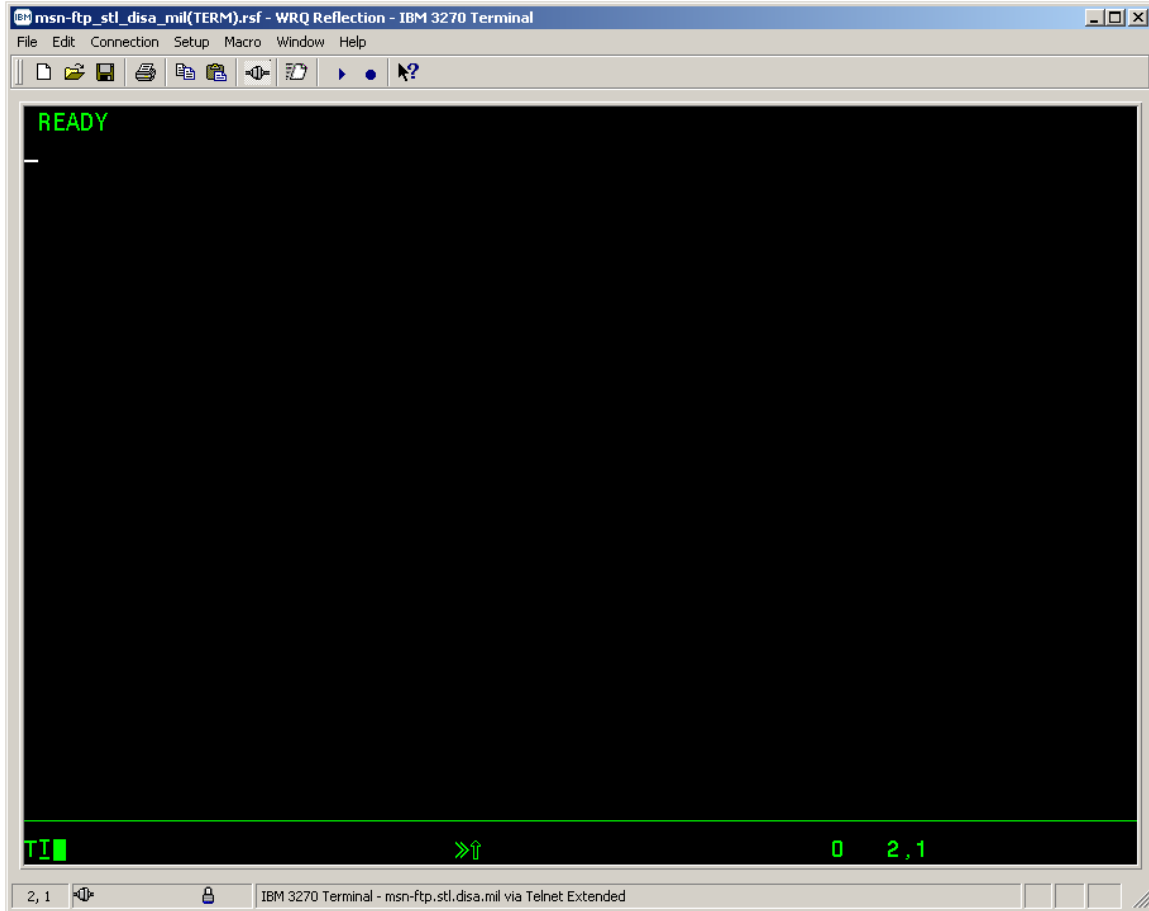
TRECON FILE DOWNLOAD



- This will bring you to a native *TSO READY* screen as shown below.

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TRECON FILE DOWNLOAD



- From the 3270 cursor location just below the **READY** prompt, enter *'LOGOFF'* to exit *'TSO'* completely as shown below.

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TRECON FILE DOWNLOAD



- Once '**LOGOFF**' has been entered press the <Enter> key to return to the '**CL/Supersession Main Menu**' screen as shown below.

WRQ Inc. Reflection for IBM Version 10.0 User Guide

TRECON FILE DOWNLOAD

The screenshot shows an IBM 3270 Terminal window titled "msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal". The window contains a menu titled "CL/SUPERSESSION Main Menu" with the following content:

```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
----- Actions Options Commands Features Help
KLSVSEL1          CL/SUPERSESSION Main Menu          More: +
Select sessions with a "/" or an action code.

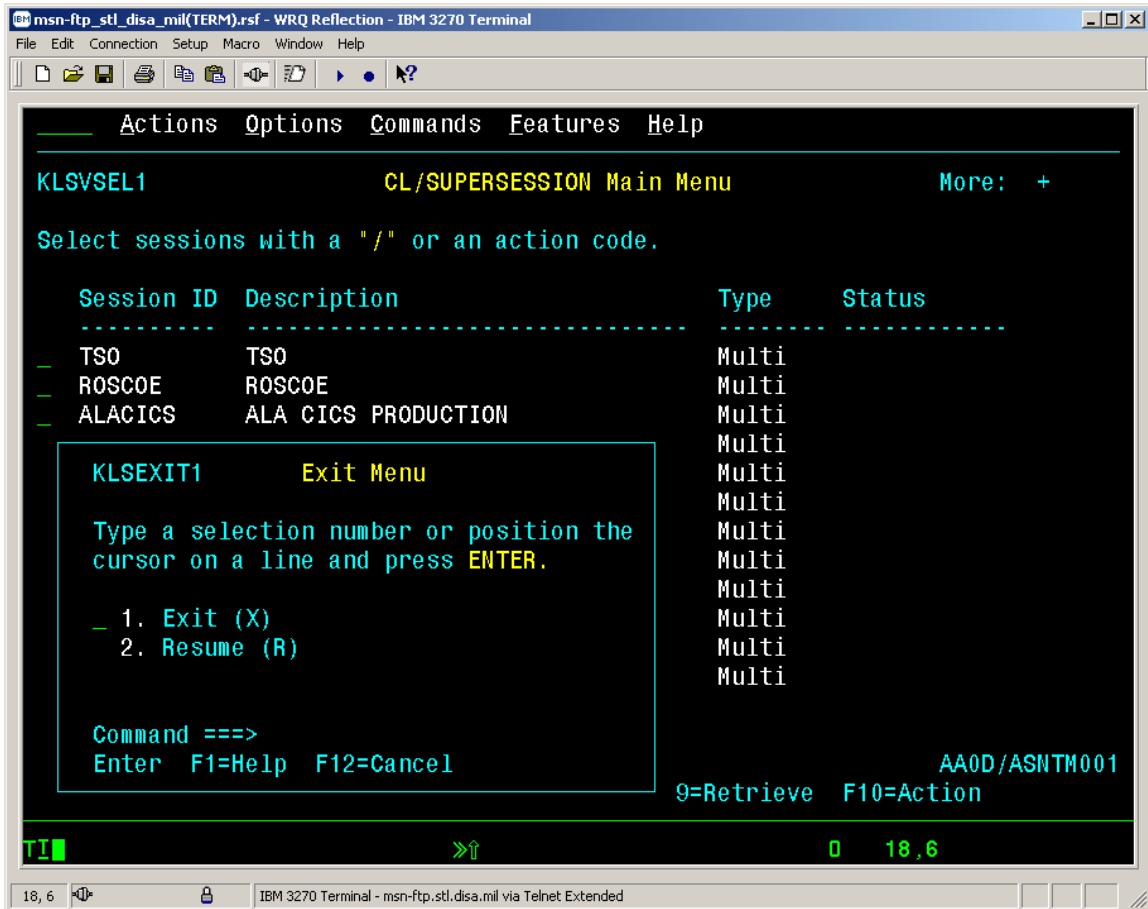
  Session ID  Description                                Type      Status
  -----
  TSO         TSO                                             Multi
  ROSCOE     ROSCOE                                         Multi
  ALACICS    ALA CICS PRODUCTION                           Multi
  ALACICS2   ALA CICS PRODUCTION                           Multi
  ALACICS3   ALA CICS DEVELOPMENT                          Multi
  ASICIT00   CICS/ADABASE OKR TEST                         Multi
  ALAINFO    ALA INFOPAC RDS                               Multi
  ALAINFPM   ALA INFOPAC MAINTENANCE                       Multi
  OKRCICS    OKR CICS PRODUCTION                           Multi
  OKRCICS2   OKR CICS2 PRODUCTION                          Multi
  OKRINFO    OKR INFOPAC RDS                               Multi
  OKRINFPM   OKR INFOPAC MAINTENANCE                       Multi

Command ==>
Enter F1=Help F3=Exit F5=Refresh F8=Fwd F9=Retrieve F10=Action
AA0D/ASNTM001
TI >> 0 9,2
```

- From the 'CL/Supersession Main Menu' to fully log off of your mainframe account, press the Program Function <PF3> key as shown below.

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TRECON FILE DOWNLOAD



- From the 'Exit Menu' box with the cursor located in front of '1. Exit (X)' press the <Enter> key to complete the log out process and return your 3270 screen to the *DISA Site Selection / DoD Warning Message 10*' screen shown below.

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TRECON FILE DOWNLOAD

```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help

USE OF THIS OR ANY OTHER DEPARTMENT OF DEFENSE INTEREST COMPUTER SYSTEM
(DODICS) CONSTITUTES YOUR CONSENT TO MONITORING BY DOD AUTHORIZED PERSONNEL
FOR COMPUTER SECURITY AND SYSTEM MANAGEMENT PURPOSES. THIS DODICS AND ALL
RELATED EQUIPMENT ARE TO BE USED FOR THE COMMUNICATIONS, TRANSMISSION,
PROCESSING, MANIPULATION, AND STORAGE OF OFFICIAL U.S. GOVERNMENT OR OTHER
AUTHORIZED INFORMATION ONLY. UNAUTHORIZED USE OF THIS COMPUTER MAY SUBJECT
YOU TO CRIMINAL PROSECUTION AND PENALTIES.

SB - QUANTICO      SD - DITCO        SE - OKINAWA      SF - KANSAS CITY
SG - LEJEUNE      SH - PENDLETON   SI - ALBANY       SK - ASIMS-S
SL - ASIMS-E      SM - ASIMS-W     SO - ARDEC        SP - ARL
SQ - ASIMS-C      SR - OSC-S/DFAS  ST - AMCOM/SBCCOM SU - OSC-R
SV - RIA          SW - FAR EAST    SX - TEAD         SY - TACOM
QA - SSO DAYTON   QC - ASIMS-T     QD - ASIMS-H      QE - ANAD
QF - CCAD         QG - RRAD        QH - CECOM        QI - LEAD
QJ - TYAD         QK - LOGSA       QL - AMCOM-M      QR - NAMI
X - SNI MENU

HELPDESK DSN: 490-0000  COMM: 314-260-0000
TOLL FREE: 800-645-5032

ENTER SELECTION =>

TI 0 24,42
```

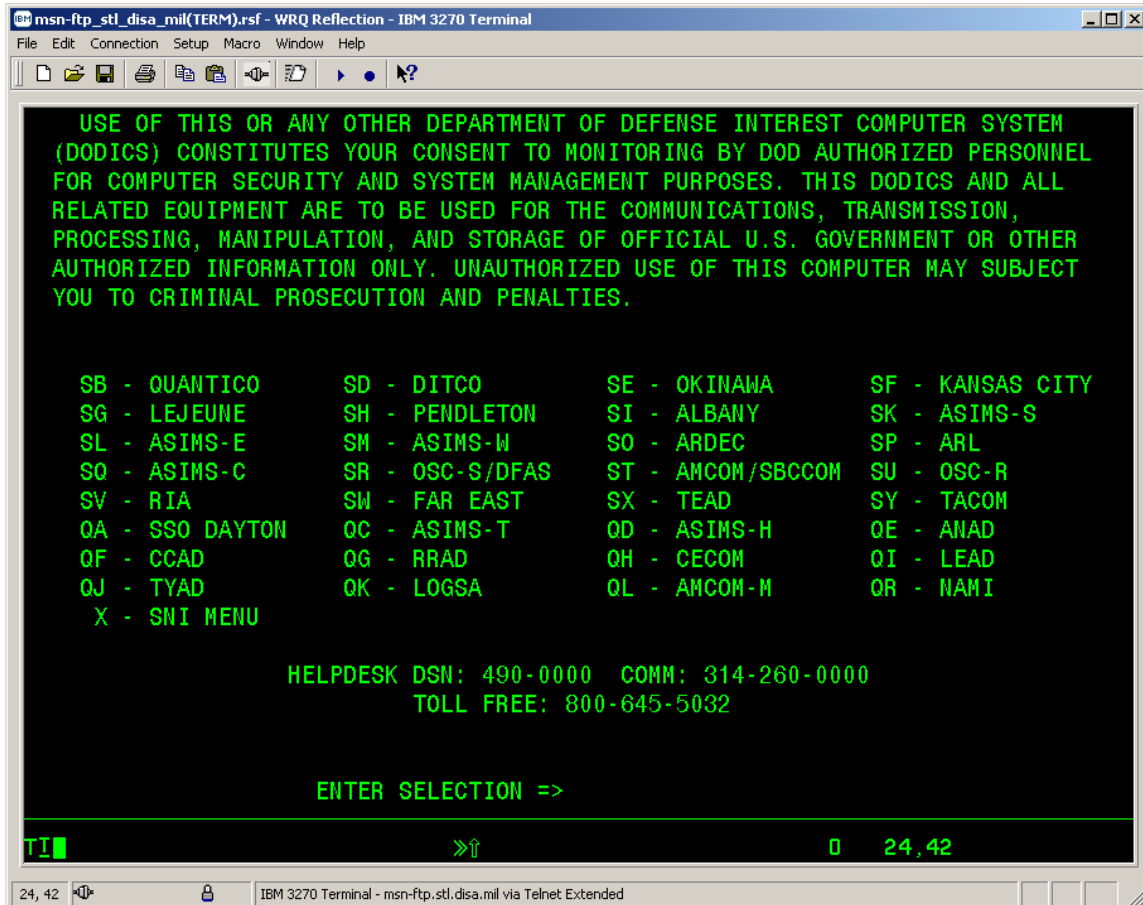

WRQ Inc. Reflection for IBM Version 10.0 User Guide

CHANGING YOUR VTAM LOGMODE

Sometimes it is convenient for the users to have the ability to view 133 characters across the screen this can be done by changing your terminal type to a 3278-5-model terminal.

To change your VTAM logmode perform the following steps:

- Establishing your normal Reflection 3270 Terminal Session as shown below.



The screenshot shows a terminal window titled "msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal". The window contains the following text:

```
USE OF THIS OR ANY OTHER DEPARTMENT OF DEFENSE INTEREST COMPUTER SYSTEM
(DODICS) CONSTITUTES YOUR CONSENT TO MONITORING BY DOD AUTHORIZED PERSONNEL
FOR COMPUTER SECURITY AND SYSTEM MANAGEMENT PURPOSES. THIS DODICS AND ALL
RELATED EQUIPMENT ARE TO BE USED FOR THE COMMUNICATIONS, TRANSMISSION,
PROCESSING, MANIPULATION, AND STORAGE OF OFFICIAL U.S. GOVERNMENT OR OTHER
AUTHORIZED INFORMATION ONLY. UNAUTHORIZED USE OF THIS COMPUTER MAY SUBJECT
YOU TO CRIMINAL PROSECUTION AND PENALTIES.
```

SB - QUANTICO	SD - DITCO	SE - OKINAWA	SF - KANSAS CITY
SG - LEJEUNE	SH - PENDLETON	SI - ALBANY	SK - ASIMS-S
SL - ASIMS-E	SM - ASIMS-W	SO - ARDEC	SP - ARL
SQ - ASIMS-C	SR - OSC-S/DFAS	ST - AMCOM/SBCCOM	SU - OSC-R
SV - RIA	SW - FAR EAST	SX - TEAD	SY - TACOM
QA - SSO DAYTON	QC - ASIMS-T	QD - ASIMS-H	QE - AMAD
QF - CCAD	QG - RRAD	QH - CECOM	QI - LEAD
QJ - TYAD	QK - LOGSA	QL - AMCOM-M	QR - NAMI
X - SNI MENU			

HELPDESK DSN: 490-0000 COMM: 314-260-0000
TOLL FREE: 800-645-5032

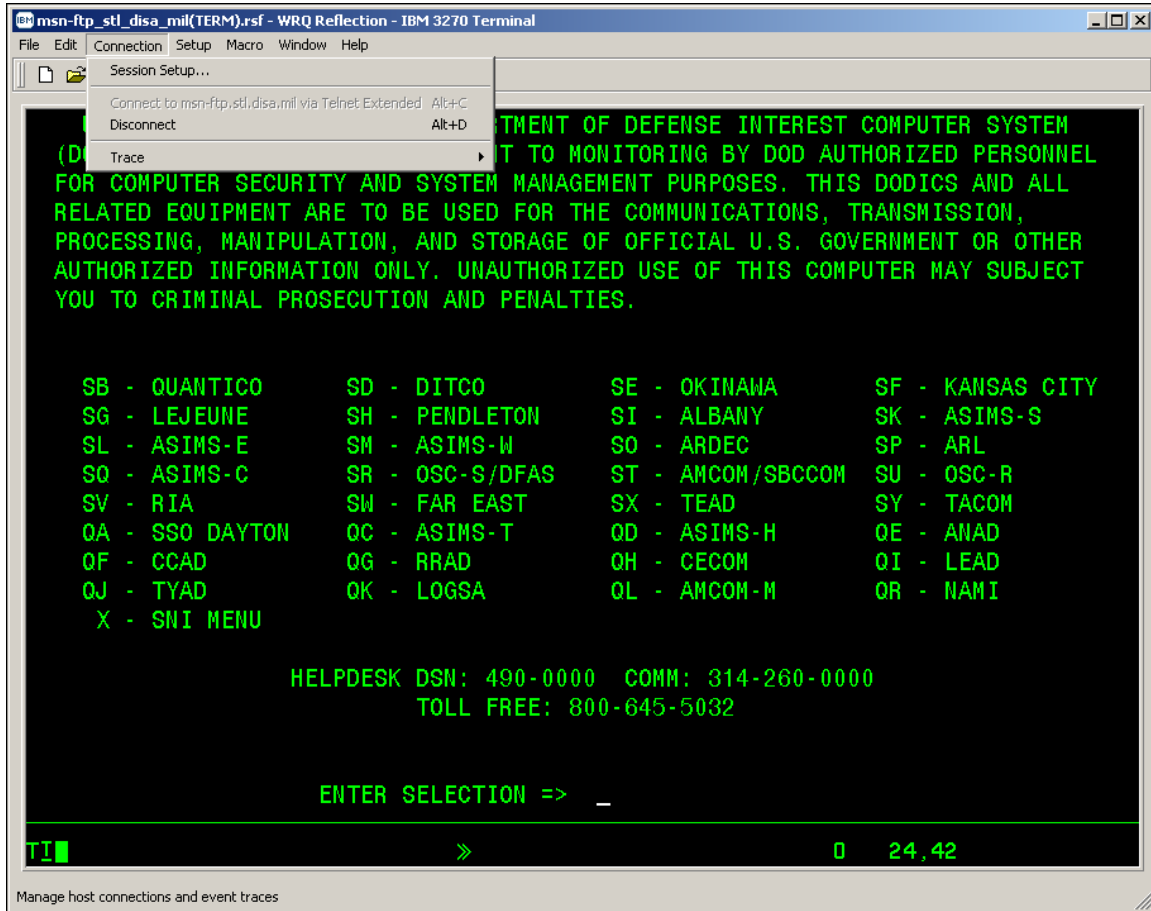
ENTER SELECTION =>

TI 0 24,42

WRQ Inc. Reflection for IBM Version 10.0 User Guide

CHANGING YOUR VTAM LOGMODE

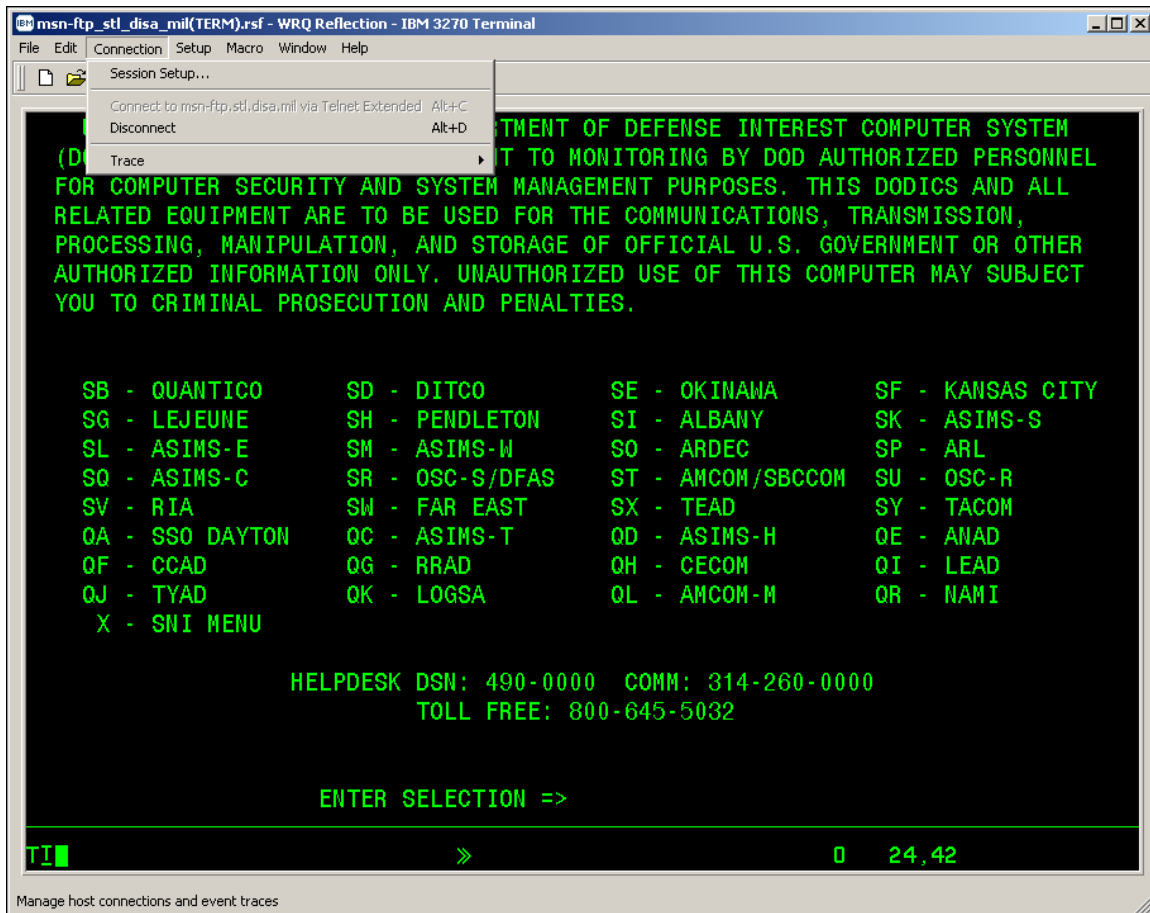
- With your mouse pointer select 'Connection' **Connection** from the top menu on the 3270 *Untitled* – *WRQ Reflection – IBM 3270 Terminal* display screen.



WRQ Inc. Reflection for IBM Version 10.0 User Guide

CHANGING YOUR VTAM LOGMODE

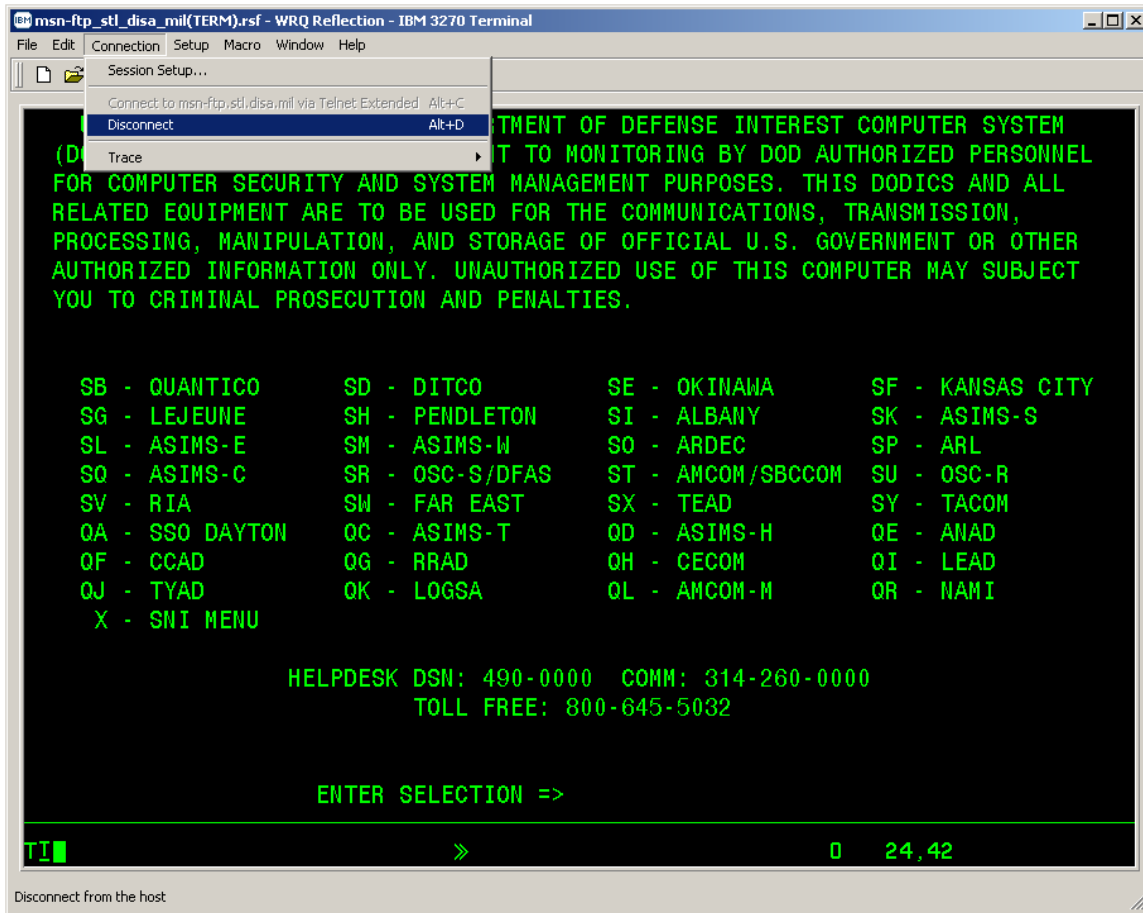
- A windows drop down menu as shown below will appear as shown below.



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CHANGING YOUR VTAM LOGMODE

- From this drop down menu select **Disconnect** with your mouse.



- Once **Disconnect** is selected, the 3270 terminal session window will remain open but the actual 3270 terminal connect (the green mainframe 3270 DoD Warning / site selection menu screen) will change from the display above to blank screen as shown in the display below.
- Note:** That the 3270 terminal session status information displayed in the Operator Information Area (OIA) on the bottom of the terminal session window indicates:

IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended

while the session is connected

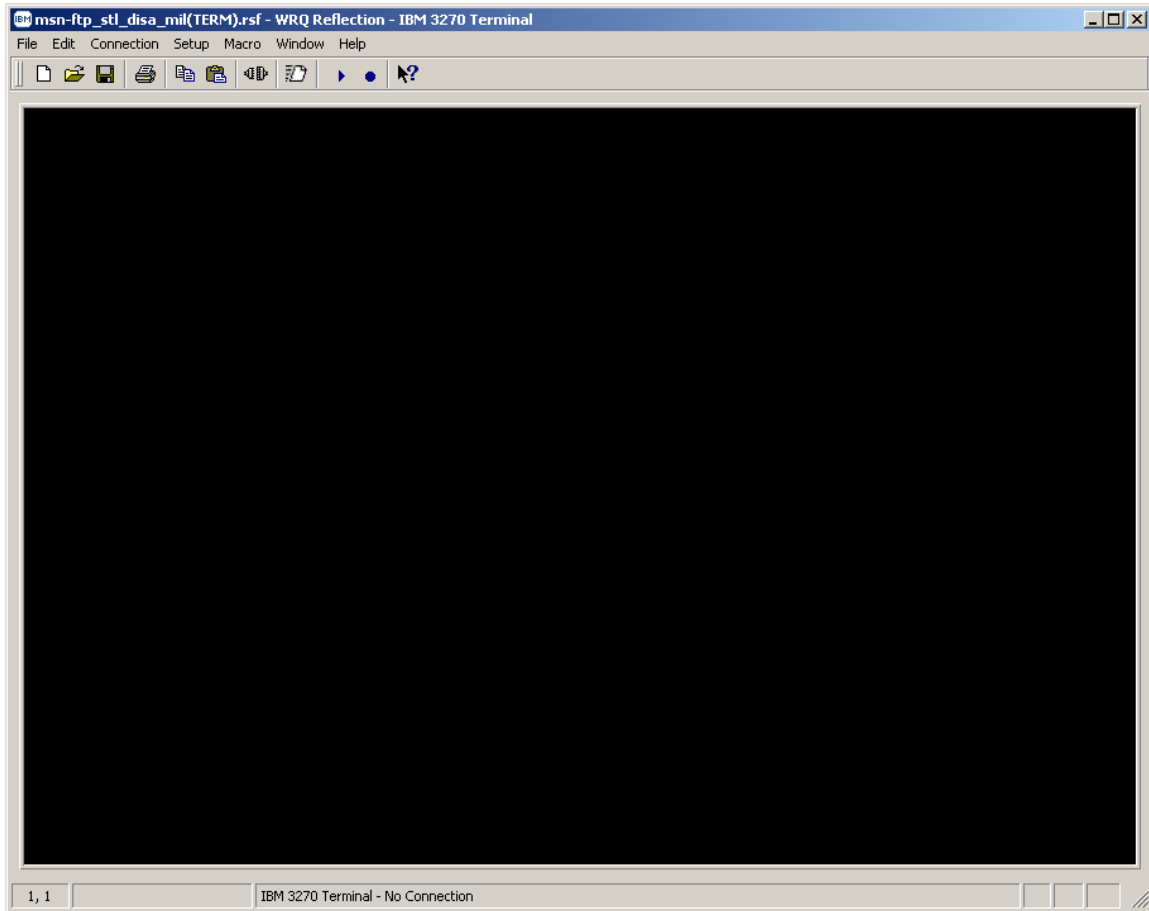
and indicates:

IBM 3270 Terminal - No Connection

when the session is disconnected.

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CHANGING YOUR VTAM LOGMODE

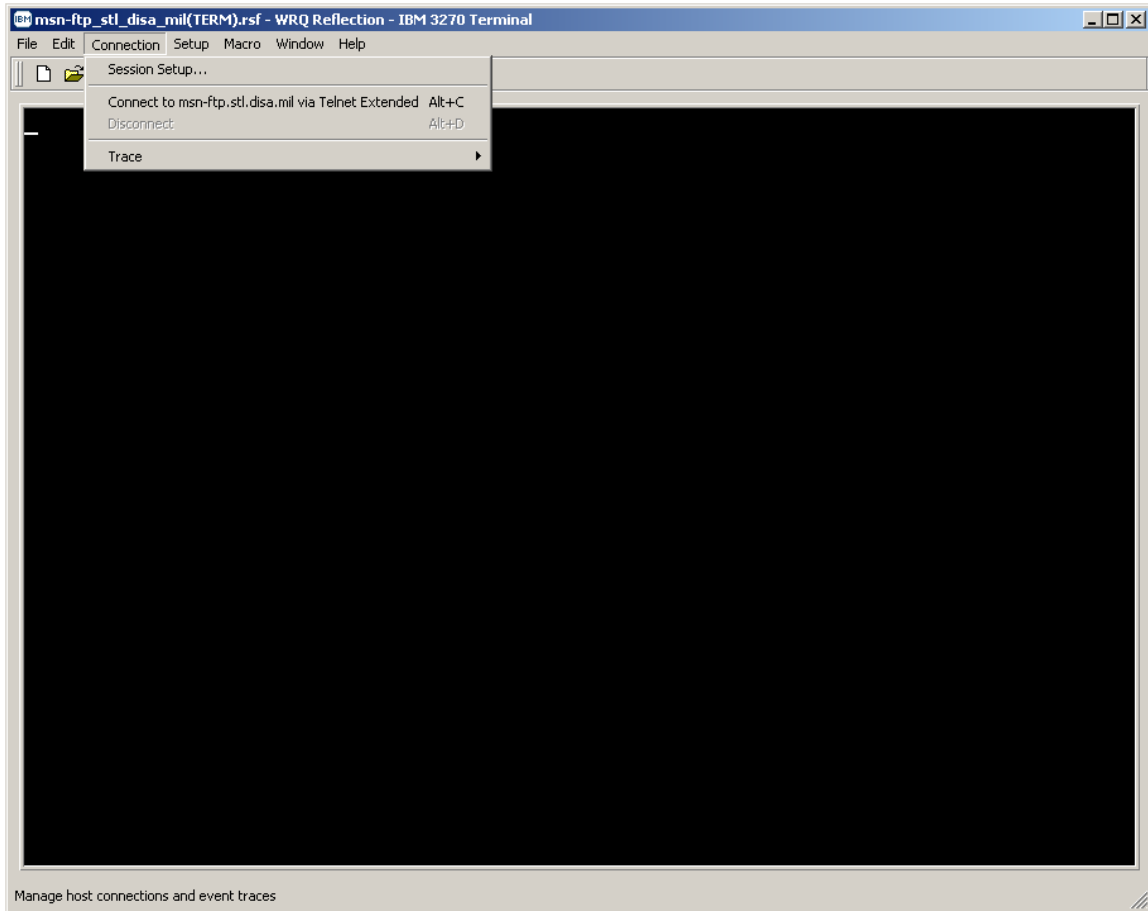


- While the 3270 terminal session is in a disconnected status mouse click on the **Connection** button located on the top tool bar menu.

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CHANGING YOUR VTAM LOGMODE

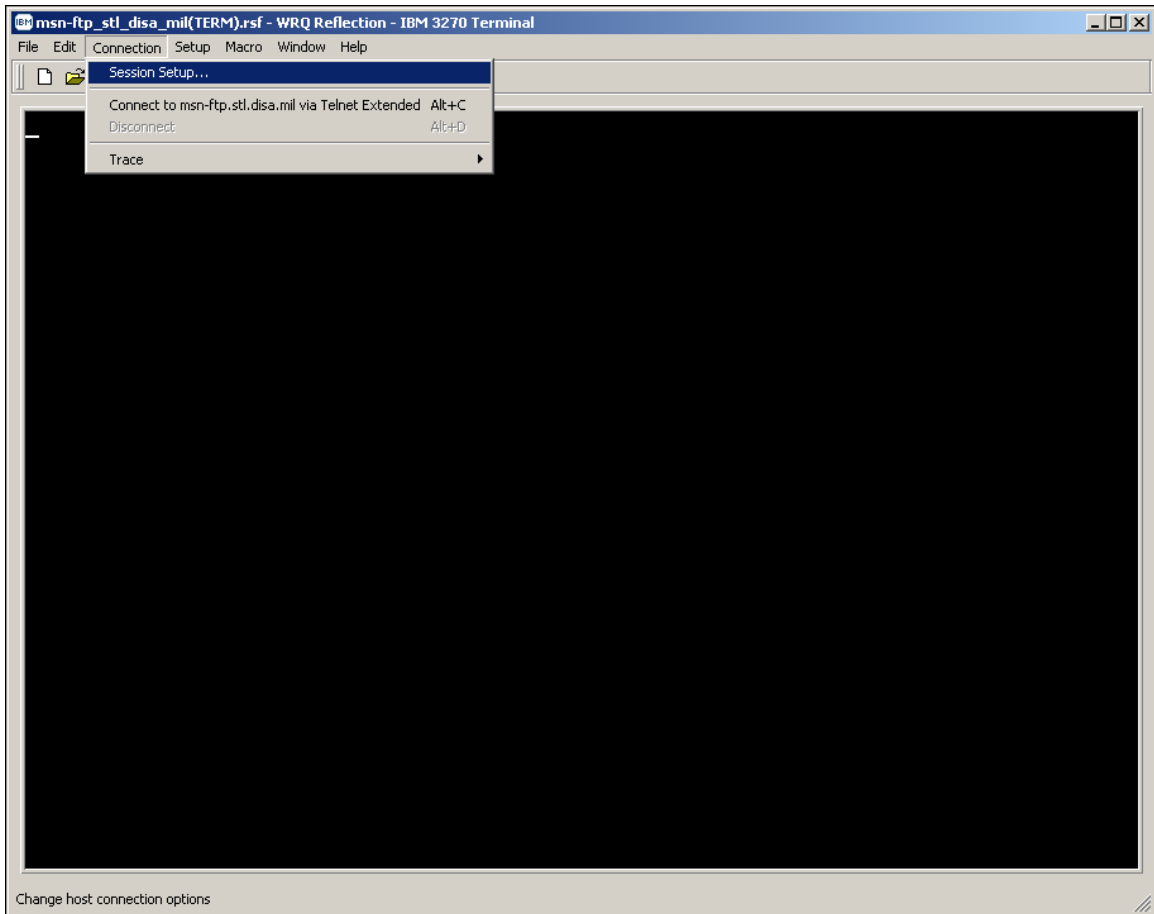
- A windows drop down menu as shown below will appear as shown below.



WRQ Inc. Reflection for IBM Version 10.0 User Guide

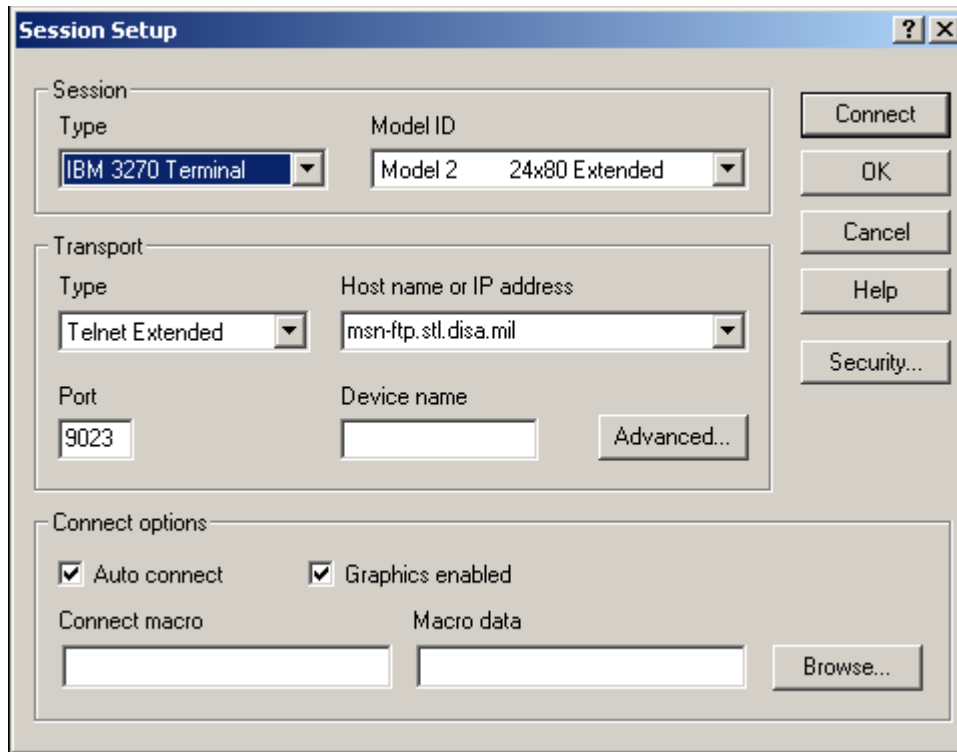
CHANGING YOUR VTAM LOGMODE

- From this drop down menu select **Session Setup...** with your mouse.

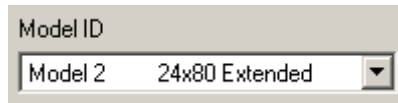


- Once **Session Setup...** is selected, the 3270 terminal session window will remain open but disconnected, and a second pop-up window for **Session Setup** will appear as shown below.

CHANGING YOUR VTAM LOGMODE

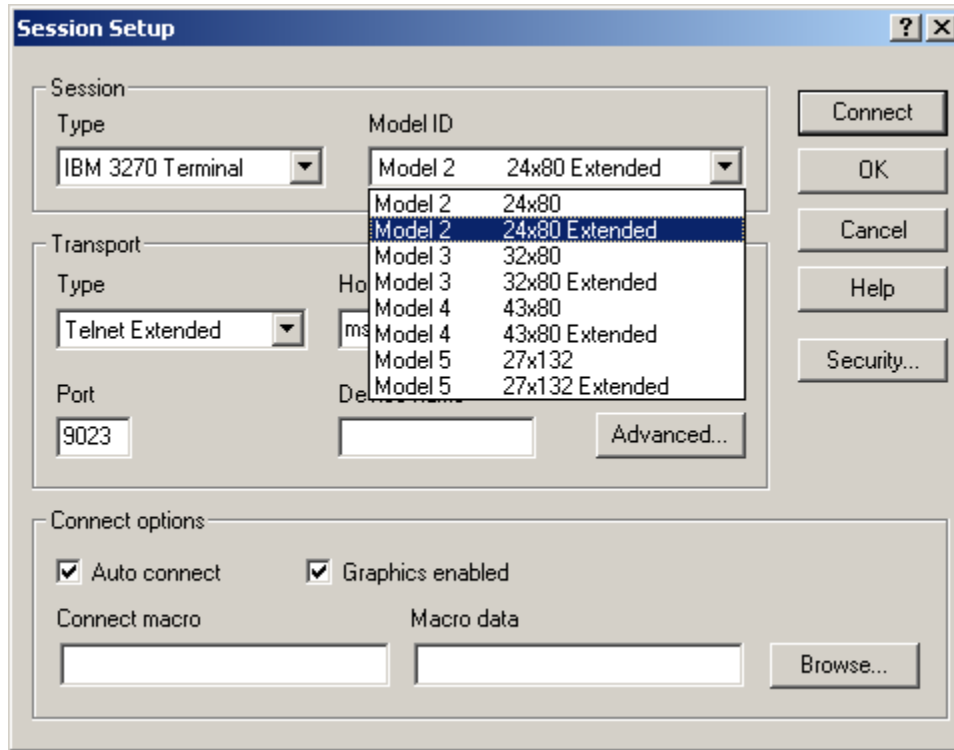


- Within the *Session Setup* pop-up window you will find a *Model ID* dialog box as shown here.

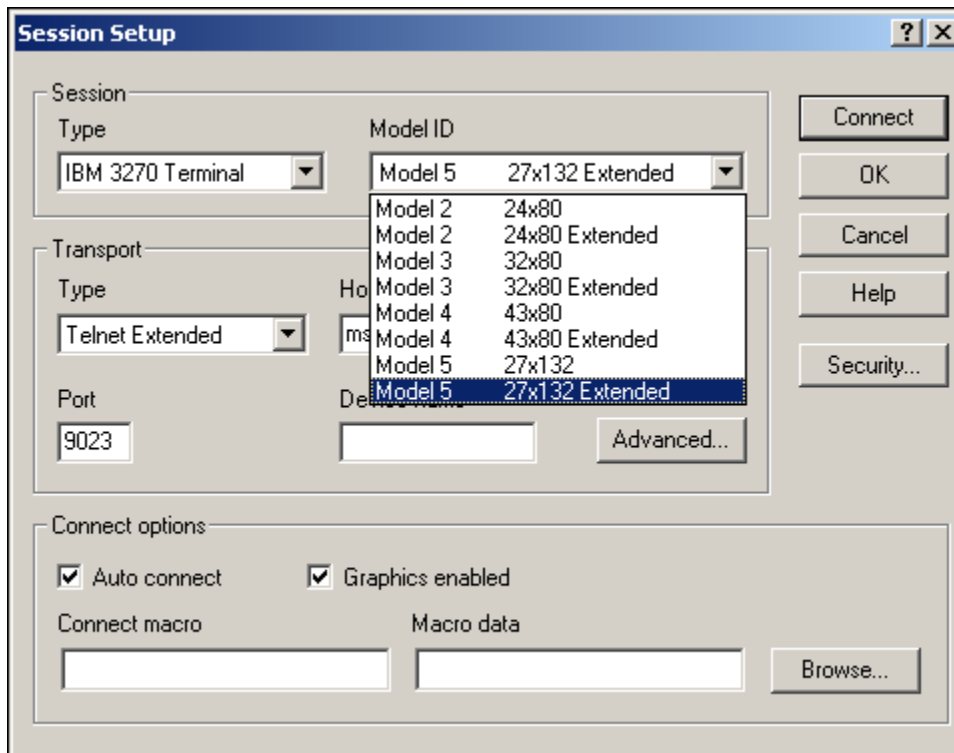


- Mouse click on the drop down arrow in the *Model ID* dialog box and a drop down menu as shown below will appear.

CHANGING YOUR VTAM LOGMODE



- From the **Model ID** drop down menu select '**Model 5 27x132 Extended**' with your mouse as shown below.



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CHANGING YOUR VTAM LOGMODE

- Once you have selected '**Model 5 27x132 Extended**' with your mouse the **Model ID** dialog box display will appear as shown below.

Session Setup

Session

Type: IBM 3270 Terminal Model ID: Model 5 27x132 Extended

Transport

Type: Telnet Extended Host name or IP address: msn-ftp.stl.disa.mil

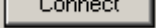
Port: 9023 Device name: Advanced...

Connect options

Auto connect Graphics enabled

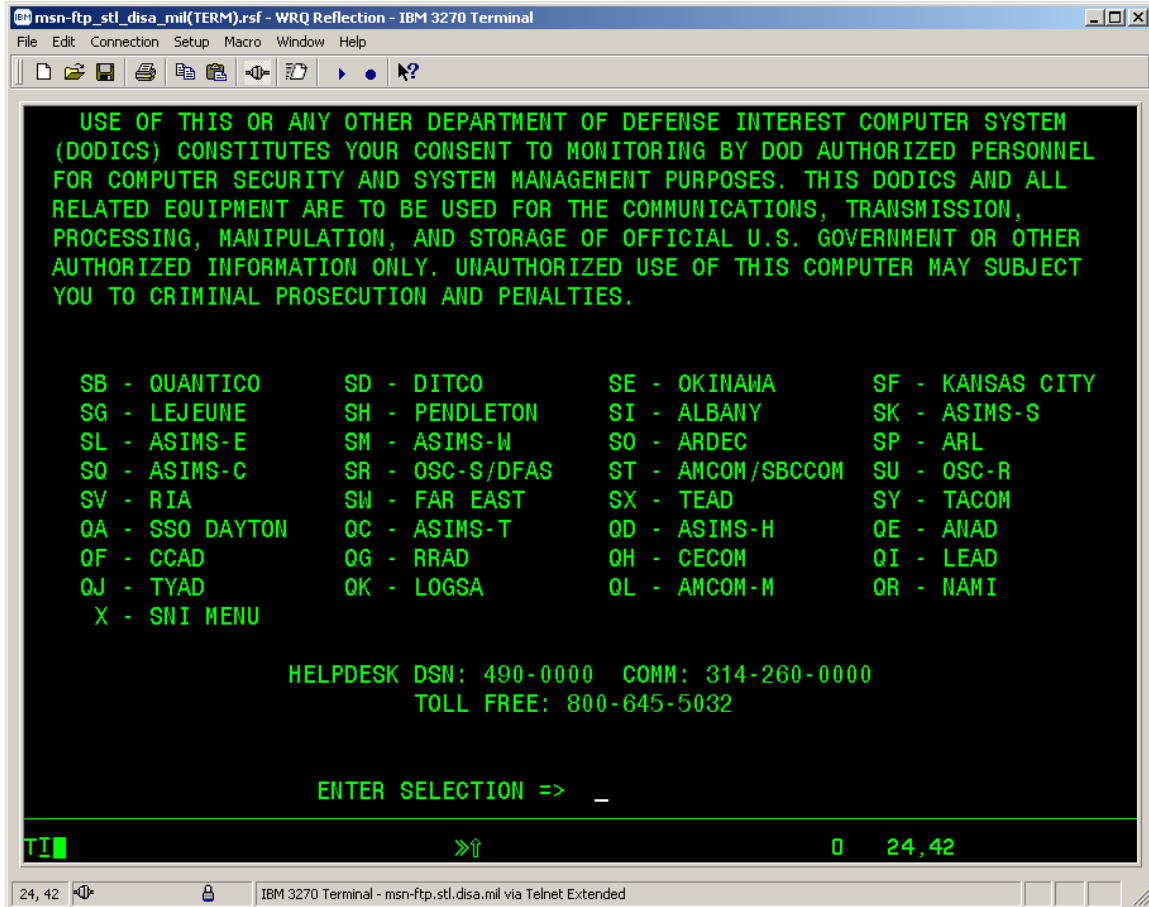
Connect macro: Macro data: Browse...

Buttons: Connect, OK, Cancel, Help, Security...

- Mouse click on the  button located on the '**Session Setup**' windows pop-up dialog box to reestablish the session's connection as shown in the display below.

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CHANGING YOUR VTAM LOGMODE

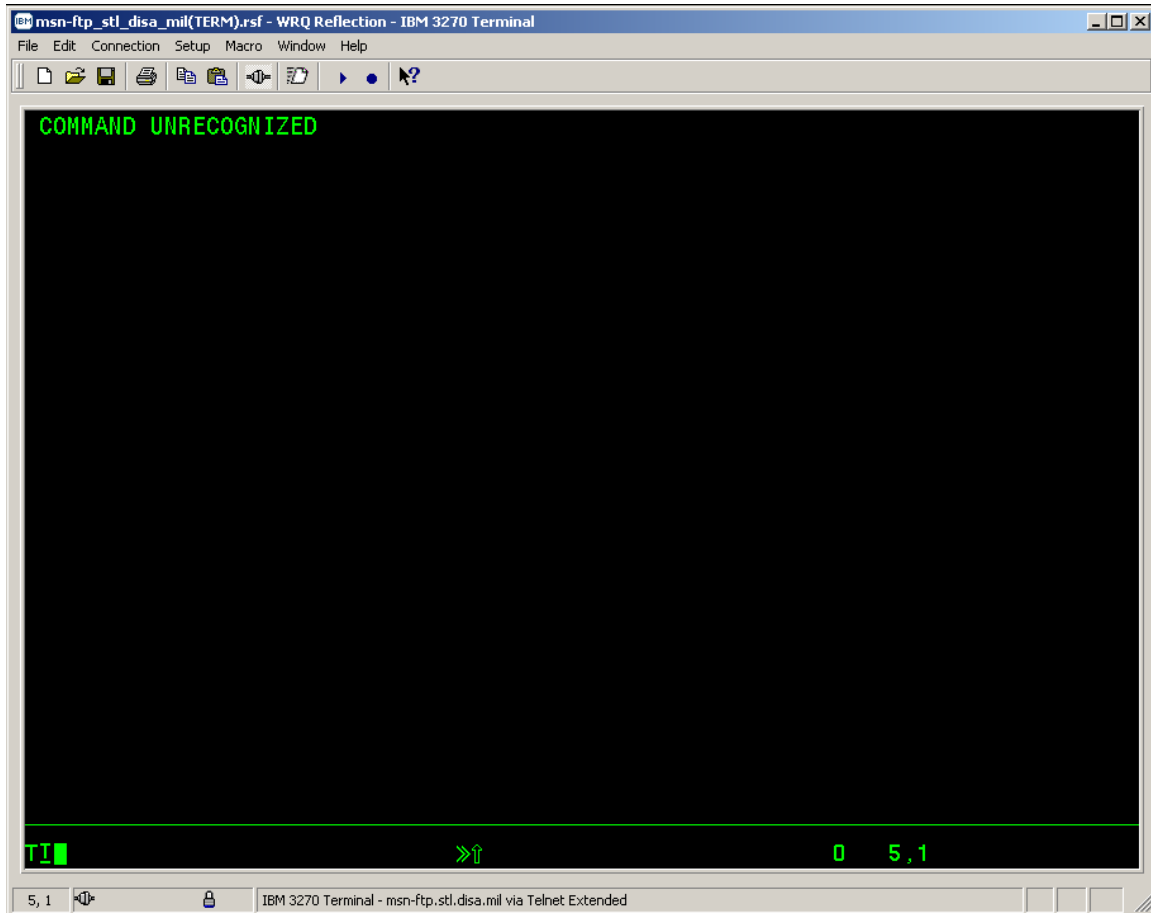


- From the green mainframe 3270 DoD Warning / site selection menu screen, press the 'Enter key', do not type in *a site selection id* on the **ENTER SELECTION =>** line.

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CHANGING YOUR VTAM LOGMODE

- The mainframe 3270 terminal screen will appear as shown below.



- Enter the long form logon for your desired mainframe site domain. The long form logon commands for the '*Model 5 27x132 Extended*' terminal sessions with 132 characters across the screen are:

(Example Logins)

- For '*SB*' - MQG (QUANTICO): **logon applid (ASBCPP01) logmode (snx32705)**
- For '*SI*' - ALA (ALBANY) **logon applid (ASICPP01) logmode (snx32705)**
- For '*SF*' - KCT (KANSAS CITY) **logon applid (ASFCPP01) logmode(snx32705)**

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CHANGING YOUR VTAM LOGMODE

- Enter the long form logon for your desired mainframe site domain on the mainframe 3270 screen as shown below.
- For '**SB**' - MQG (QUANTICO)

```
logon applid (ASBCPP01) logmode (snx32705)
```

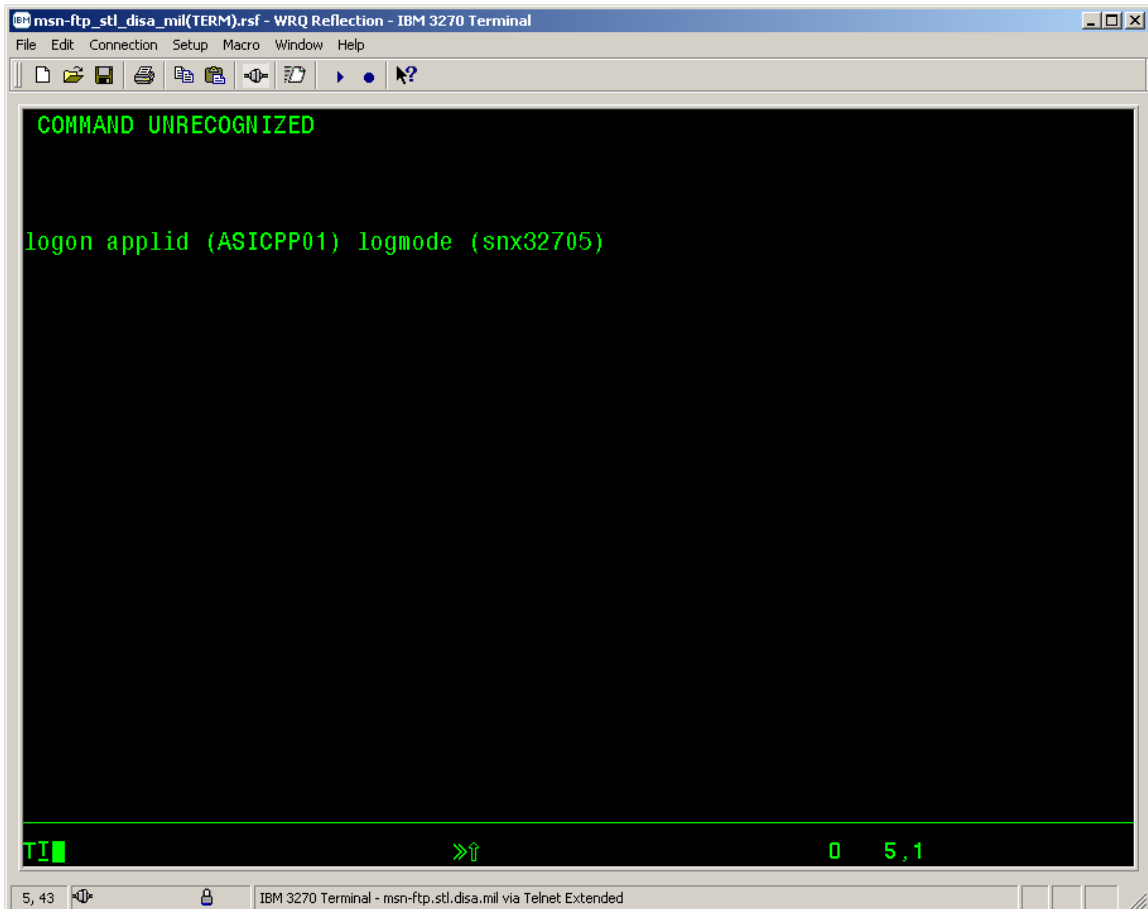
- For '**SI**' - ALA (ALBANY)

```
logon applid (ASICPP01) logmode (snx32705)
```

- For '**SF**' - KCT (KANSAS CITY)

```
logon applid (ASFCPP01) logmode (snx32705)
```

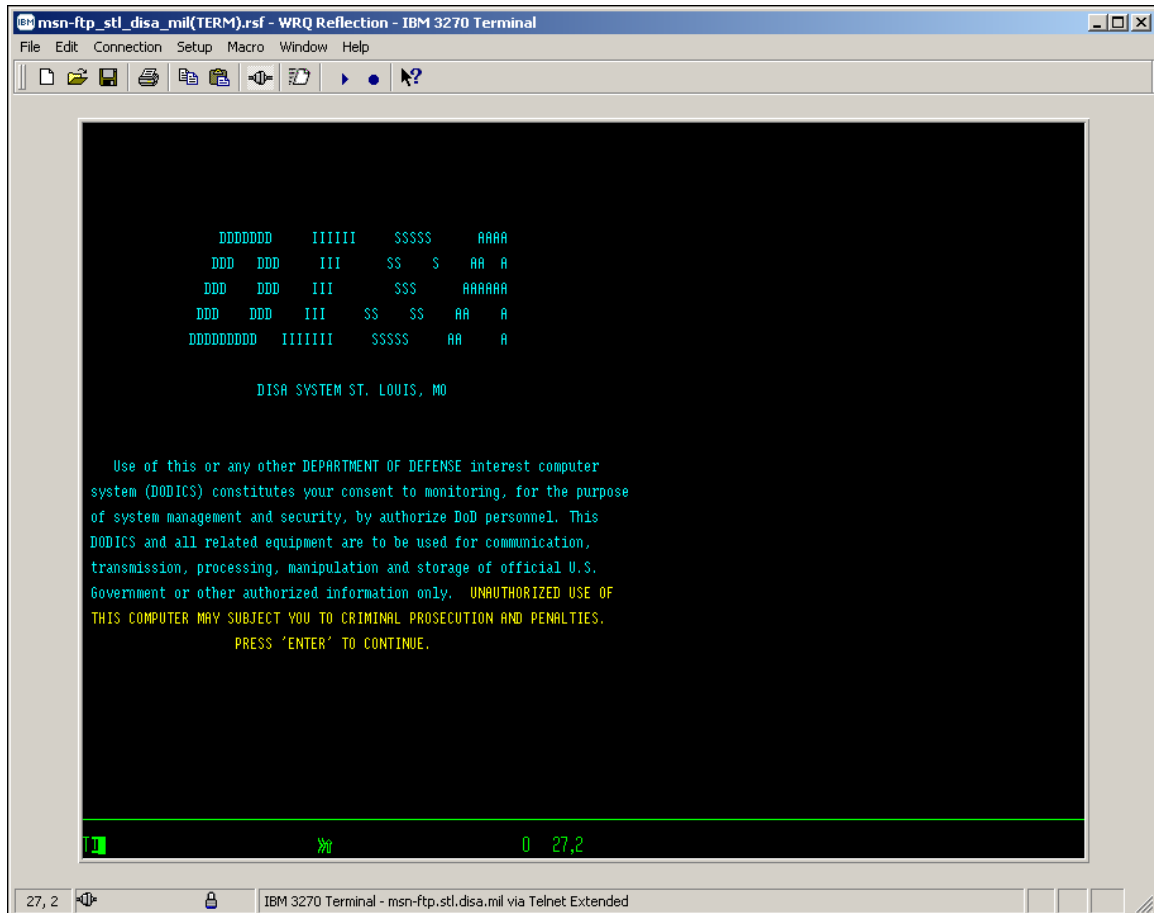
- The example long form logon displayed below is for the '**SI**' - *ALA (ALBANY)* mainframe domain logon.



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CHANGING YOUR VTAM LOGMODE

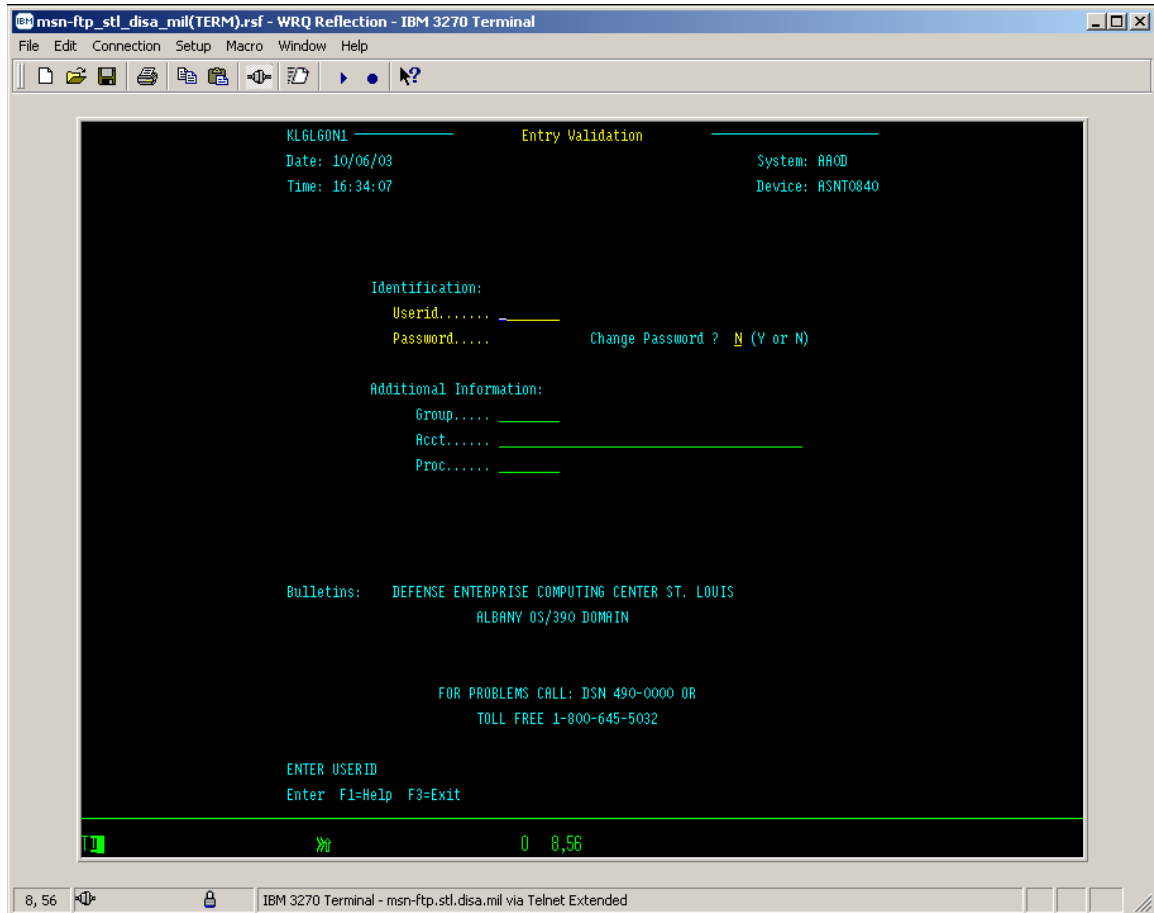
- Once you have entered the long form logon command press the *'Enter key'* and the 3270 display screen will appear in 133 characters per line format as shown below.
- *Sample 3270 DoD Warning screen.*



WRQ Inc. Reflection for IBM Version 10.0 User Guide

CHANGING YOUR VTAM LOGMODE

- Sample 3270 'Userid / Password' Entry Validation screen.



WRQ Inc. Reflection for IBM Version 10.0 User Guide

CHANGING YOUR VTAM LOGMODE

- Sample 3270 CL/SUPERSESSION Main Menu screen.

```
msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help

----- Actions Options Commands Features Help -----
KLSVSEL1          CL/SUPERSESSION Main Menu          More: +

Select sessions with a "/" or an action code.

  Session ID  Description                Type  Status
-----
- TSO         TSO                          Multi
- ROSCOE     ROSCOE                       Multi
- ALACICS    ALA CICS PRODUCTION          Multi
- ALACICS2   ALA CICS PRODUCTION          Multi
- ALACICSD   ALA CICS DEVELOPMENT         Multi
- ASICIT00   CICS/ADABASE OKR TEST        Multi
- ALAINFO    ALA INFOPAC RDS              Multi
- ALAINFPM   ALA INFOPAC MAINTENANCE      Multi
- OKRCICS    OKR CICS PRODUCTION          Multi
- OKRCICS2   OKR CICS2 PRODUCTION          Multi
- OKRINFO    OKR INFOPAC RDS              Multi
- OKRINFPM   OKR INFOPAC MAINTENANCE      Multi
- CLBCICS    CLB CICS USMC PRODUCTION      Multi
- CLBCICS2   CLB CICS USMC PRODUCTION      Multi
- CLBINFO    CLB INFOPAC RDS              Multi

Command ==>                                     AR0D/ASNT0840
Enter F1=Help F3=Exit F5=Refresh F8=Fwd F9=Retrieve F10=Action

9,28 0 9,28
```


WRQ Inc. Reflection for IBM Version 10.0 User Guide

CHANGING YOUR VTAM LOGMODE

- Sample **INFOPAC** report viewing screen showing 133 character wide display screen..

```
07231-START OF REPORT PAGES
COMMAND ==> _                SCROLL ==> SCREEN
REPORT: INFOPAC8      VERSION:20030928 133047 HIERARCHY CODE:RACA          PAGE: 1      ROW: 1  COL: 1
MOBIUS MANAGEMENT SYSTEMS, INC.          ViewDirect 6.2                      LC5341
DATE: 09/28/2003          *** DISTRIBUTION CROSS REFERENCE BY RECIPIENT ***      REPORT ID: RIN6202
TIME: 13:04.53          PAGE: 1
RECIPIENT ID/NAME          TITLE          REMOTE ID VIEWING ACCESS
-----
RACA          MILLINGTON DEPT          MILLINGTON DEPT          Y-NORMAL
          REPORT ID/NAME          HIERARCHY CODE          REPORT DIST.          TOTAL
          TYPE GROUP TYPE MEDIA COPIES VIE
-----
?          *** UNIDENTIFIED REPORTS ***          ***** COMPLETE COPY ***** 3-COMP NONE 0-ONLN A          0 YE
CERP1804 CERPS 1804 ADHOC REPORT          ***** COMPLETE COPY ***** 3-COMP NONE F-FULL A          0 YE
DCERP1804 DCERPMIL - DCERPS MILPAY RECAP REPORT-MONTHLY TOTAL ***** COMPLETE COPY ***** 3-COMP NONE F-FULL A          0 YE
DCERP1804 DCERPMIL - DCERPS MILPAY RECAP YEAR TO DATE TOTALS ***** COMPLETE COPY ***** 3-COMP NONE F-FULL A          0 YE
IDFCC05NB S0FALL - STATUS OF FUNDS BY SRI/FY/BSYM ***** COMPLETE COPY ***** 3-COMP NONE F-FULL A          0 YE
DFBLB07 S71RDM04 - DAILY LABOR REPORT BY BESA/BEA/WCI ***** COMPLETE COPY ***** 3-COMP NONE F-FULL A          0 YE
DFBLB07A S71RDM04 - DAILY LABOR REPORT BY BEA/WCI ***** COMPLETE COPY ***** 3-COMP NONE F-FULL A          0 YE
DFBR004 S71GDB04 - O&M JV ERROR REPORT ***** COMPLETE COPY ***** 3-COMP NONE F-FULL A          0 YE
DFBR005 S71RDB04 - LIQUIDATION NOT EQUAL EXPENSE REPORT ***** COMPLETE COPY ***** 3-COMP NONE F-FULL A          0 YE
DFBR005A S71RDB04 - OUTSTANDING TRVL ORDER BY AGE CATEGORY ***** COMPLETE COPY ***** 3-COMP NONE F-FULL A          0 YE
DFBR005B S71RDB04 - OUTSTANDING TRVL ADVANCE BY AGE CATEGORY ***** COMPLETE COPY ***** 3-COMP NONE F-FULL A          0 YE
DFBR005C S71RDB04 - OUTSTANDING COMMITMENT REPORT ***** COMPLETE COPY ***** 3-COMP NONE F-FULL A          0 YE
DFBR007 S71RDJ04 - OUTSTANDING 621 REPORT ***** COMPLETE COPY ***** 3-COMP NONE F-FULL A          0 YE
DFBR009 S71RDG04 - IDB UNMATCHED/REJECTED DISBURSEMENTS ***** COMPLETE COPY ***** 3-COMP NONE F-FULL A          0 YE
DFBR010 S71RDD04 - IDB DETAIL RESPONSES RECEIVED FOR FRA/FA ***** COMPLETE COPY ***** 3-COMP NONE F-FULL A          0 YE
0 2.15
```