

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

TABLE OF CONTENTS

STARTING WRQ REFLECTIONS	3
TERMINAL SESSION BASICS	21
Multiple Sessions Keypad & Hotspot Print Screen Macros Keyboard Remap Function	
PRINTER SESSION BASICS	38
Multiple Sessions Establishing a dedicated "NAILED" printer session	
ESTABLISHING A DEDICATED ''NAILED TERMINAL SESSION	50
CONFIGURING A TERMINAL SESSION FROM SCRATCH	59
CONFIGURING A PRINTER SESSION FROM SCRATCH	86
CAPTURING REPORTS TO ASCII TEXT FILES	114
MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT	122
MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE	138
IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION	156
UNIT DIARY UPLOADS	184
TRECON FILE DOWNLOAD	212
CHANGING YOUR VTAM LOGMODE	239

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

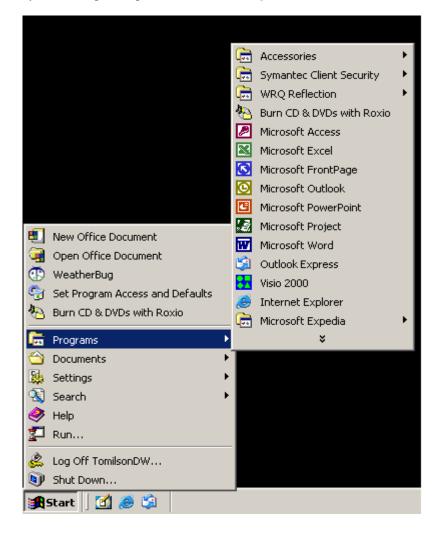
The WRQ Inc. REFLECTION for IBM is a desktop / laptop computer thick client software product that allows a user to configure and acquire a IBM mainframe 3270 terminal and/or 3278 printer sessions across a Secure Socket Layer (SSL) 128 bit encrypted Telnet network connection from their personal computer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

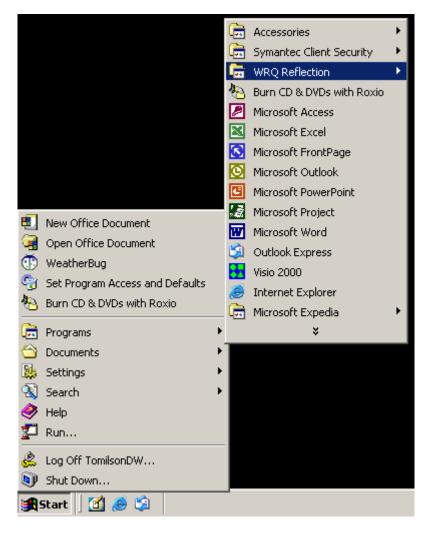


• With your mouse pointer point and click on '*Programs*'.



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

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



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

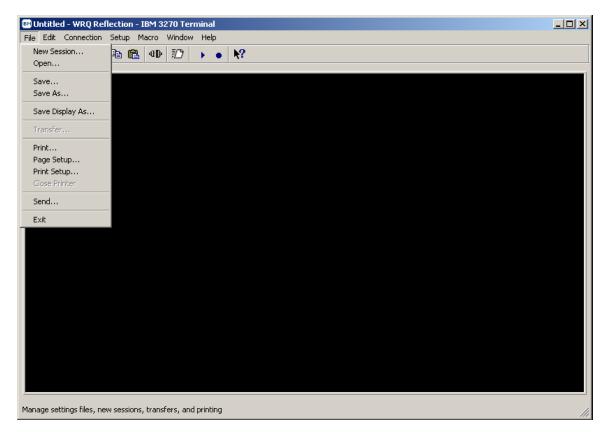
• Once '3270 Host – Mainframe' has been selected, the following screen will appear on your PC Window's desktop:

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	Enter Host Name or IP Address	? ×
	localhost	
	Connect Cancel	Help
1, 1 IB	M 3270 Terminal - No Connection	

- With your mouse pointer select the Cancel 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 Connect button vice the Cancel 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.

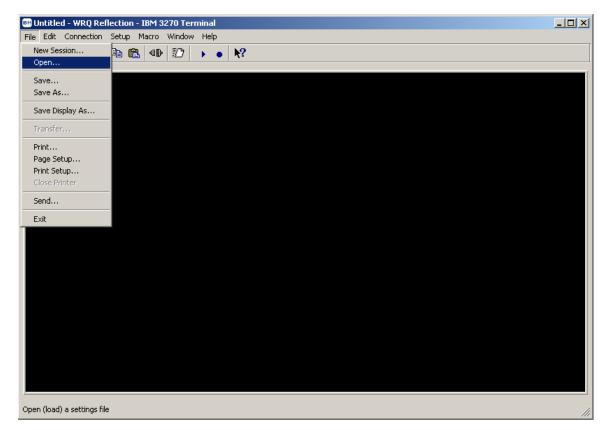
<u>STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL</u> <u>AND / OR 3278 PRINTER SESSION CONNECTIVITY</u>

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



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

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



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

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

Buntitled - WRQ Reflection - IBM 3270 Terminal File Edit Connection Setup Macro Window Help		<u>_ ×</u>
Open Settings File	<u>? ×</u>	
Look in: Reflection Mensn-ftp_stl_disa_mil(PRINTER) Mensn-ftp_stl_disa_mil(TERM) Menss-ftp_stl_disa_mil(TERM) Menss-ftp_stl_disa_mil(TERM)	Open Cancel Help	
File name: Files of type: Settings	🔲 New Window	
IBM 3270 Terminal - No Connection		

<u>STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL</u> 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.

📴 Untitled - WRQ Reflection - IBM 3270 Terminal		
File Edit Connection Setup Macro Window Help		
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msn-ftp_stl_disa_mil(PRINTER)	Open	
msn-ftp_stl_disa_mil(TERM) mss-ftp_stl_disa_mil(PRINTER)	Cancel	
ms-np_su_cusa_nu(rFRIM)		
	Help	
File name: msn-ftp_stt_disa_mil(TERM)		
Files of type: Settings	🔲 New Window	
I, 1 IBM 3270 Terminal - No Connection		

- 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
- 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:

screen.

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

🛤 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflectio	n - IBM 3270 Terminal			_ 🗆 ×
File Edit Connection Setup Macro Window Help				
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24, 42 🐠 🔒 IBM 3270 Terminal	- msn-ftp.stl.disa.mil via Telnet Extended			

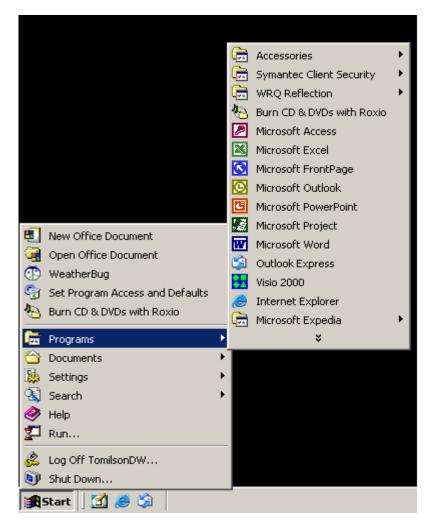
<u>STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL</u> <u>AND / OR 3278 PRINTER SESSION CONNECTIVITY</u>

To start a REFLECTION for IBM mainframe 3270 printer session:

• Click the PC Windows '*Start*' button.

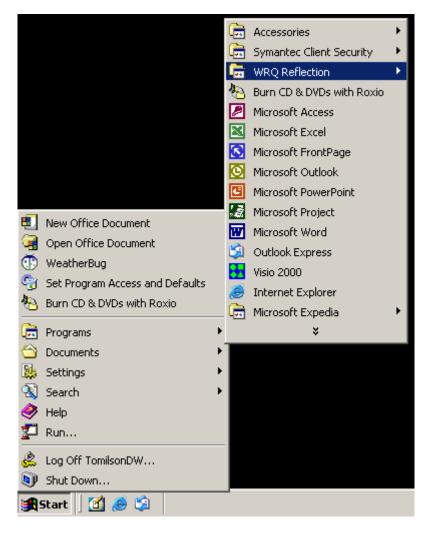


• With your mouse pointer point and click on 'Programs'.



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

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



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

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

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		Accessories	۲			
	E	Symantec Client Security	۲			
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		Microsoft Excel		400	Host - AS400	
		Microsoft FrontPage		HP	Host - HP	
	O	Microsoft Outlook		3270	Host - Mainframe	
	C			Ø.	Host - ReGIS Graphics	
New Office Document	12	Microsoft Project		Ø.	Host - UNIX and Digital	
Open Office Document	W	Microsoft Word		\boxtimes	Reflection X	
WeatherBug	S	Outlook Express				
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<u>STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL</u> AND / OR 3278 PRINTER SESSION CONNECTIVITY

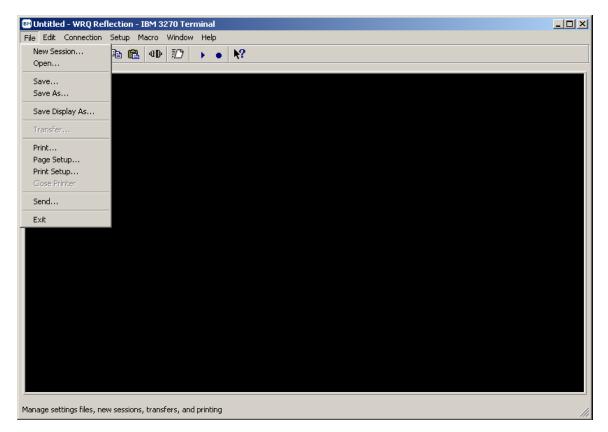
• Once '3270 Host – Mainframe' has been selected, the following screen will appear on your PC Window's desktop:

🝽 Untitled - WRQ Reflection - IBM 32	270 Terminal	
File Edit Connection Setup Macro	Window Help	
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	Enter Host Name or IP Address	? ×
	localhost	
	Connect Cancel	Help
1, 1 IB	M 3270 Terminal - No Connection	

- With your mouse pointer select the Cancel 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 Connect button vice the Cancel 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.

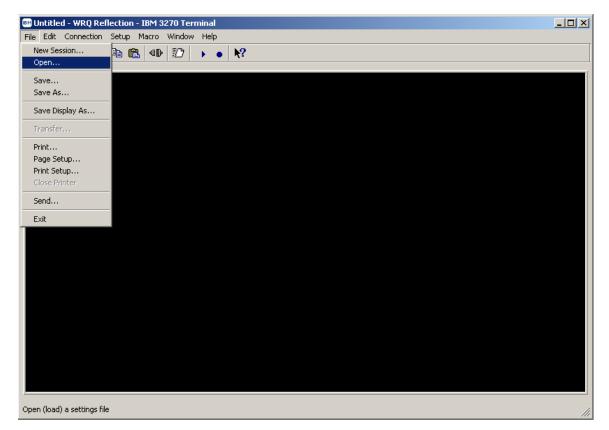
<u>STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL</u> AND / OR 3278 PRINTER SESSION CONNECTIVITY

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



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

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



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

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

BUntitled - WRQ Reflection - IBM 3270 Terminal File Edit Connection Setup Macro Window Help		<u>_ </u>
Open Settings File	<u>? ×</u>	
Look in: Reflection The set disa_mil(PRINTER) The msn-ftp_stl_disa_mil(TERM) The mss-ftp_stl_disa_mil(PRINTER) The mss-ftp_stl_disa_mil(TERM) File name:	Open Cancel Help	
Files of type: Settings	🗖 New Window	
IBM 3270 Terminal - No Connection		

<u>STARTING WRO REFLECTION FOR IBM MAINFRAME HOST 3270 TERMINAL</u> 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.

🖙 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal	
File Edit Connection Setup Macro Window Help	
Open Settings File	?×
Look in: 🔁 Reflection 🗾 🔶 🖆 🏢 -	
Timmsn-ftp_stl_disa_mi(PRINTER)	Open
🔤 mss-ftp_st1_disa_mil(PRINTER)	Cancel
T mss-ftp_stl_disa_mi(TERM)	Help
File name: msn-ftp_st_disa_mil(PRINTER)	
Files of type: Settings	✓ New Window
IBM 3270 Terminal - No Connection	

- With your mouse pointer point and click on the **Open** 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:

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

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File Connection 9	Setup Macro Window H	felp	
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Printer control Hold Cancel Reset Flush	Forms control	PA1 Help PA2 Setup Info	
Status]
	Ready		
1, 1 🖤	🔒 IBM 327	70 Printer	

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.

🛤 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Ro			_OX
File Edit Connection Setup Macro Window			
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(DODICS) CONSTITUTES FOR COMPUTER SECURIT RELATED EQUIPMENT AF PROCESSING, MANIPULA AUTHORIZED INFORMATI	YOUR CONSENT TO MC Y AND SYSTEM MANAGE E TO BE USED FOR TH TION, AND STORAGE C ON ONLY. UNAUTHORIZ	EMENT PURPOSES. THIS HE COMMUNICATIONS, T DF OFFICIAL U.S. GOV ZED USE OF THIS COMF	HORIZED PERSONNEL DODICS AND ALL RANSMISSION, /ERNMENT OR OTHER
YOU TO CRIMINAL PROS	ECUTION AND PENALTI	165.	
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SG - LEJEUNE			SK - ASIMS-S
SL - ASIMS-E SQ - ASIMS-C		SO - ARDEC ST - AMCOM/SBCCOM	
SV - RIA		ST - AMCOM/SBCCOM SX - TEAD	
		QD - ASIMS-H	
QF - CCAD		QH - CECOM	
QJ - TYAD		QL - AMCOM-M	
X - SNI MENU			
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	INTER SELECTION ->	<u> </u>	
TI	>	0	24,42
24, 42 🗣 🔒 IBM 3270 1	'erminal - msn-ftp.stl.disa.mil via Telnet Exte	ended	

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.

📾 msn-ftp_stl_disa_mil(TERM).rsf - WRQ F	teflection - IBM 3270 Terminal		
File Edit Connection Setup Macro Window	v Help		
	▶ ● №		
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SG - LEJEUNE SL - ASIMS-E SQ - ASIMS-C SV - RIA	SM - ASIMS-W SR - OSC-S/DFAS SW - FAR EAST OC - ASIMS-T OG - RRAD	SI - ALBANY SO - ARDEC ST - AMCOM/SBCCOM SX - TEAD	SK - ASIMS-S SP - ARL SU - OSC-R SY - TACOM OE - ANAD OI - LEAD
	LPDESK DSN: 490-0000 TOLL FREE: 80		0
ENTER SELECTION => _			
II.	>>	0	24,42
24, 42 🕸 🔒 IBM 3270	Terminal - msn-ftp.stl.disa.mil via Telnet Exte	ended	

MULTIPLE SESSIONS

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

msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal File Edit Connection Setup Macro Window Help	_D×
USE OF THIS OR ANY OTHER DEPARTMENT OF DEFENSE INTEREST COMPUTER SYS (DODICS) CONSTITUTES YOUR CONSENT TO MONITORING BY DOD AUTHORIZED PERS FOR COMPUTER SECURITY AND SYSTEM MANAGEMENT PURPOSES. THIS DODICS AND A RELATED EQUIPMENT ARE TO BE USED FOR THE COMMUNICATIONS, TRANSMISSION, PROCESSING, MANIPULATION, AND STORAGE OF OFFICIAL U.S. GOVERNMENT OR O AUTHORIZED INFORMATION ONLY. UNAUTHORIZED USE OF THIS COMPUTER MAY SUB- YOU TO CRIMINA	ONNEL ALL THER
Look in: 🕞 Reflection	
SB • QUANTICO SG • LEJEUNE SL • ASIMS-E SU • ASIMS-E SV • RIA QA • SSO DAY QF • CCAD OJ • TYAD File name: • Manufters • Manufters • Manufters • Manufters • ASIMS - E • OSC - R • ANAD • ASIMS - C • CCAD • File name: • manufters • Manufters • Manufters • OSC - R • ANAD • ASIMS - C • Namifters • Manufters • ARL • OSC - R • ANAD • ANAD • ANAD • ANAD • ANAD	
X - SNIMENL	
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	

- 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 **Open** 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.

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.

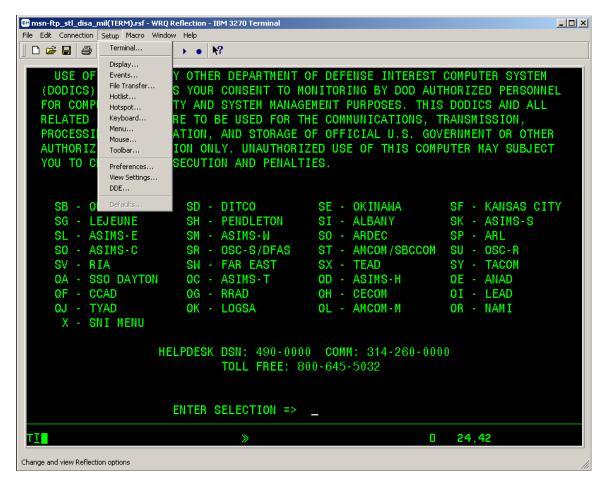
Image: Standard S
USE OF THIS OR ANY OTHER DEPARTMENT OF DEFENSE INTEREST COMPUTER SYSTEM (DODICS) CONSTITUTES YOUR CONSENT TO MONITORING BY DOD AUTHORIZED PERSONNEL FOR COMPUTER SECURITY AND SYSTEM MANAGEMENT PURPOSES. THIS DODICS AND ALL RELATED EQUIPMENT ARE TO BE USED FOR THE COMMUNICATIONS, TRANSMISSION, 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 - QUANTIC
HELPDESK DSN: 490-0000 COMM: 314-260-0000 TOLL FREE: 800-645-5032
ENTER SELECTION =>
TI D 2,48 2,48 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended ////////////////////////////////////

• 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.

📴 msn-ftp_stl_disa_mil(TERM).rsf - WRQ R	eflection - 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 SG - LEJEUNE SL - ASIMS-E SQ - ASIMS-C SV - RIA QA - SSO DAYTON QF - CCAD QJ - TYAD X - SNI MENU	SH - PENDLETON SM - ASIMS-W SR - OSC-S/DFAS SW - FAR EAST	SI - ALBANY SO - ARDEC ST - AMCOM/SBCCOM SX - TEAD QD - ASIMS-H QH - CECOM	SK - ASIMS-S SP - ARL SU - OSC-R SY - TACOM QE - ANAD QI - LEAD
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F1 F2 F3 F4 AT CL Image: CL Image: CL F1 F2 F3 F4 F3 F3<			
1, 26 🕩 🔒 IBM 3270	Terminal - msn-ftp.stl.disa.mil via Telnet Ext	ended	

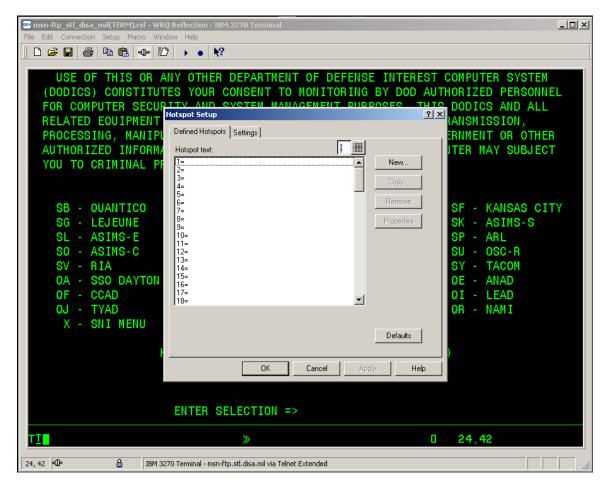
• In addition you can turn on program function keys *PF key* hotspots that display PK key buttons.

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



KEYPAD & HOTSPOT

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



• Select the Settings tab on this pop-up window

msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal File Edit Connection Setup Macro Window Help	
PROCESSING, MANIPULA AUTHORIZED INFORMATI YOU TO CRIMINAL PROS SB - OUANTICO SG - LEJEUNE SL - ASIMS-E SQ - ASIMS-C SV - RIA QA - SSO DAYTON QF - CCAD QJ - TYAD X - SNI MENU HEL Display Enable all Show all DEFAULTS DEFA	DRIZED PERSONNEL DODICS AND ALL SMISSION, MENT OR OTHER IR MAY SUBJECT - KANSAS CITY - ASIMS-S - ARL - OSC-R - TACOM - ANAD - LEAD - NAMI
	24,42
24, 42 🕪 🔒 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

KEYPAD & HOTSTOP

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

msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal File Edit Connection Setur Macro Window Help	_ _ _ _ _
File Edit Connection Setup Macro Window Help Image: Imag	MPUTER SYSTEM RIZED PERSONNEL ODICS AND ALL SMISSION, MENT OR OTHER R MAY SUBJECT - KANSAS CITY - ASIMS-S
	- ASIMS-S - ARL - OSC-R - TACOM - ANAD - LEAD - NAMI
ENTER SELECTION =>	
<u>TI » 0</u>	24,42
24, 42 🗇 🔒 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

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

	.rsf - WRQ Reflection - IBM 3270 Terminal			
File Edit Connection Setup M				
	-0-12 → • №?			
<u>A</u> ctions	<u>Options Commands Features</u>	Help		
		<u> </u>		
KLSVSEL1	CL/SUPERSESSION Mai	in Menu	More: +	
Select session	s with a "/" or an action code	9.		
Occasion TD	Description	T	Otatus	
Session ID	Description	Туре	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/ASNT	1681
Enter F1=Help	<mark>F3</mark> =Exit <mark>F5</mark> =Refresh <mark>F8</mark> =Fwd	F9=Retrieve	F10=Action	
TT .	≫î		0 9.2	
			0 0,6	
9, 2 🖤 🔒	IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended			

• *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.

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 File Edit Connection Setup M).rsf - WRQ Reflection - IBM 3270 Terminal		
D 🛩 🖬 🍯 🖻 🛍	- ⊕ - 122 → • № ?		
Actions	<u>O</u> ptions <u>C</u> ommands <u>F</u> eatures !	Help	[
		Петр	
KLSVSEL1	CL/SUPERSESSION Mai	n Menu	More: +
Select session	s with a "/" or an action code		
Session ID	Description	Туре	Status
0000101110			
_ TS0	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	
	OKR CICS2 PRODUCTION OKR INFOPAC RDS	Multi Multi	
<pre>_ OKRINFO OKRINFPM</pre>	OKR INFOPAC RDS OKR INFOPAC MAINTENANCE	Multi	
	OKR INFORAC MAINTENANCE	MUTCT	
Command ===>			AA0D/ASNT1681
Enter F1=Help	<mark>F3</mark> =Exit <mark>F5</mark> =Refresh <mark>F8</mark> =Fwd	<mark>F9</mark> =Retrieve	F10 <mark>=Action</mark>
TI	≫ û		0 9,2
9,2 🗣 🔒	IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended		

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.

📾 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal	<u>- 🗆 ×</u>
File Edit Connection Setup Macro Window Help	
KLGLGON1 Entry Validation	
Date: 09/16/03 System: AA0D	
Time: 12:33:14 Device: ASNT1	874
Identification: Userid <u>g9mp03</u> Password Change Password ? <u>N</u> (Y or N)	
Additional Information:	
Chaup	
Acct Proc	
OK Cancel Help	
Bulletins: DISA CUSTOMER SURVEY: 8-19 SEPT. 2003. DISA IS	
SURVEYING END USERS & ASKS YOU TO PARTICIPATE.	
PLEASE GO TO URL HTTP://GARTNER18.GARTNERWEB.COM	
(USERID IS GART2588 ; PWORD IS DISA2003)	
ALL ANSWERS ARE CONFIDENTIAL. DECC-S POC IS	
DONNA CLARK, DSN 490-0054; COMM 314 260-0054.	
ENTER USERID	
Enter F1=Help F3=Exit	
TI » 0 7,30	
7, 30 🗣 🕨 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

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.

- **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 Ctrl+Left Arrow Pan Left host Pan Right Ctrl+Right Arrow host Ctrl+Tab Partition Jump host Ctrl+V Paste Reflection PF1-PF12 F1-F12 host PF13-PF24 Shift+F1-Shift +F12 host Print Screen Print Screen Reflection
- The following table lists the default 3270 key mapping for WRQ Reflection 3270:

Reset

Right

Right, double speed

Scroll Down

Scroll Up

Show Command Line

Esc

Right Arrow

Alt+Right Arrow

Ctrl+Down Arrow

Ctrl+Up Arrow

Alt+L

host

host

host

host

host

Reflection

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.		

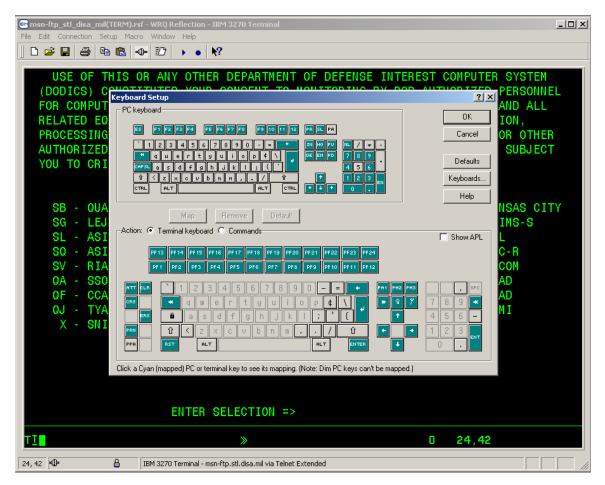
• An alternate means of determining personal computer (PC) keyboard to WRQ Reflection 3270

terminal keyboard mapping and keystrokes to function / command is to mouse click on the button located on the top tool bar menu. A drop down menu window as displayed below will appear.

📾 msn-ftp_stl_disa_mil(TERM).rsf - WR(Q Reflection - IBM 3270 Terminal		
File Edit Connection Setup Macro Wind	dow Help		
USE OF (DODICS) FOR COMP RELATED PROCESSI AUTHORIZ YOU TO C Ferences Terminal Display Events File Transfer Hotist Hotist Hotisplay Events File Transfer Hotist Hotist Hotisplay Events Hotist Hotisplay Events Hotist Hotisplay Events Hotist Hotisplay Ho	S YOUR CONSENT TO M TY AND SYSTEM MANAG RE TO BE USED FOR T ATION, AND STORAGE	OF DEFENSE INTEREST ONITORING BY DOD AUT EMENT PURPOSES. THIS HE COMMUNICATIONS, T OF OFFICIAL U.S. GOV ZED USE OF THIS COMP TES.	HORIZED PERSONNEL DODICS AND ALL RANSMISSION, YERNMENT OR OTHER
View Settings DDE SB - QI Defaults SG - LEJEUNE SL - ASIMS-E SO - ASIMS-C SV - RIA QA - SSO DAYTON QF - CCAD QJ - TYAD X - SNI MENU	SD - DITCO SH - PENDLETON SM - ASIMS-W SR - OSC-S/DFAS SW - FAR EAST OC - ASIMS-T OG - RRAD OK - LOGSA	SE - OKINAWA SI - ALBANY SO - ARDEC ST - AMCOM/SBCCOM SX - TEAD OD - ASIMS-H OH - CECOM QL - AMCOM-M	SF - KANSAS CITY SK - ASIMS-S SP - ARL SU - OSC-R SY - TACOM QE - ANAD QI - LEAD QR - NAMI
Н	ELPDESK DSN: 490-000 TOLL FREE: 8 ENTER SELECTION =>	0 COMM: 314-260-000 00-645-5032	0
TI	*	0	24,42
Change and view Reflection options			

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.*

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 accustom to.
- To re-map keyboard keys / functions please refer to Reflection Help files accessible by mouse clicking on the Help button located on the top tool bar menu.

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. <u>This session must remain open in</u> <u>order for you to print mainframe reports</u>. <u>If you close the printer session window prior to the completion</u> <u>of printing, the next user who obtains the printer logical unit (LU) that you sent your report to will get</u> <u>the remainder of the report.</u>

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.

🖻 msn-ftp_stl_dis	a_mil(PRINTER).rsf - WR	Q Reflection - IBM 3 💶 🗙
File Connection S	etup Macro Window Hel	þ
📗 🗅 📂 🔚 🖪	D= → ₩?	
Printer control Hold Cancel Reset Flush	Forms control Form feed	control PA1 Help PA2 Setup
Status	Ready	

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.

msn-ftp_stl_disa_mil(PRINTER).rsf - WRQ Reflection - IBM 3 File Connection Setup Macro Window Help Monometry Settings File	X
Look in: 🔁 Reflection 💽 🗲 🗈 💣 🎟 -	
msn-ftp_stl_disa_mil(PRINTER) msn-ftp_stl_disa_mil(TERM) mss-ftp_stl_disa_mil(PRINTER) mss-ftp_stl_disa_mil(TERM)	Open Cancel Help
File name: msn-ftp_stl_disa_mil(PRINTER)	
Files of type: Settings	⊠ New <u>W</u> indow
1, 1 🖤 🔒 IBM 3270 Printer	

- 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.

📾 msn-ftp_stl_disa_mil(PRINTER).rsf:1 - WRQ Reflection - IBM 💶 🗙	📾 msn-ftp_stl_disa_mil(PRINTER).rsf:2 - WRQ Reflection - IBM 💶 🗙
File Connection Setup Macro Window Help	File Connection Setup Macro Window Help
Printer control Forms control Host control Test Page	Printer control Forms control Host control Test Page
Hold Form feed PA1 Help	Hold Form feed PA1 Help
Cancel Line feed PA2 Reset Setup Flush Info	Cancel Line feed PA2 Heset Setup Flush Info
Status	Status
Ready	Ready
1, 1 🕪 🔒 IBM 3270 Printer	1, 1 🕪 🔒 IBM 3270 Printer

Mr. David W Tomilson

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.

🛯 msn-ftp_stl_di	sa_mil(PRINTER).rsf - WRQ Reflection - IBM 3	<u>- I X</u>
File Connection S	etup Macro Window Help	
📗 🗅 📂 🔛 🕒	D⊨ → \ ?	
Printer control Hold Cancel Reset Flush	Form feed PA1 PA2	est Page Help Vetup
Status	Ready	
1, 1	BM 3270 Printer	

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

• Mouse click on the <u>Info...</u> button on the 3270 Printer Session window.

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
 - o the mainframe VTAM printer Logical Unit (LU) address is: PSNM0001

EM File	e Connec	tion Setup N	PRINTER).rsf - WRQ Reflection - IBM 3 🗐 Macro Window Help	
C		inter Informa	-	×
	4	Port: Printer: Logical Unit:	Mainframe Basic \\Vam007\MCNOSC-Mainframe Basic PSNM0001	
		Font: Style:	Default Printer Font Regular	
			ОК	
			Ready	
1	, 1 🗣		BM 3270 Printer	

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

File Edit Connection Setup Macro Window Help	BM 3270 Terminal	
	?	
G9MP03 TRAPMENU00	CICS SELECTION MENU GGCICSP0	09/23/2003 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	≫û NUM	0 21,16
21, 16 🕪 🔒 IBM 3270 Terminal - ms	n-ftp.stl.disa.mil via Telnet Extended	

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.

	a_mil(PRINTER).rsf - WRQ Refle	ection - IBM 3 💶 🗖 🗙
[etup Macro Window Help	
📙 🗅 📂 🔚 🔍	₽ ► ₩?	
Printer control	Forms control Host control	Test Page
Hold	Form feed PA1	Help
Cancel Reset	Line feed PA2	Setup
Flush		Info
Status		
	Ready	
1,1	IBM 3270 Printer	

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

ESTABLISHING A DEDICATED "NAILED"PRINTER SESSIONS

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

BM m	nsn-ftp_stl_	disa_m	il(PRIN	TER).rs	f - WR	Q Reflect	tion - IB	BM 3.	🗆	×
File	Connection	Setup	Macro	Windo	w Help	P				
C	Session S	etup								
F	Connect t Disconnec		p.stl.dis	a, mil via	i Telnet	Extended	Alt+C Alt+D	2	st Page	
	Trace							► F	Help	
	Cancel Reset		Line fee	d		PA2		Se	etup	
	Flush						[lı	nfo	
	Status									
				Rea	ady					
Mana	age host conne	ections a	ind even	t traces	;					

• From this drop down menu select Disconnect with your mouse.

®M m	sn-ftp_stl_	disa_m	il(PRIN	TER).rs	sf - W	RQ Ref	lectio	n - IBM	3	×
File	Connection	Setup	Macro	Windo	w H	elp				
<u>∥</u> □	Session Se	etup								
	Connect t	o msn-ft	p,stl,dis:	a, mil via	a Telna	t Exten	ded A	lt+C	De la De sea	
F	Disconnec	t					A	lt+D	est Page	
	Trace							•	Help	
	Cancel Reset		Line fee	d		PA2			Setup	
	Flush								Info	
5 ا	Status									
				Re	ady					
Disco	nnect from th	e host								

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.

	NTER).rsf - WRQ Reflection - IBM 3 💶 🗙
File Connection Setup Macro	
Printer control Enable Cancel Reset Flush	ed PA1 Help
	Disconnected
1, 1	IBM 3270 Printer

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

ESTABLISHING A DEDICATED "NAILED"PRINTER SESSIONS

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

^{®M} m	sn-ftp_stl_	disa_m	il(PRIN	TER).r:	sf - Wi	RQ Refle	ection - I	BM	3 🔳 🔲	×
File	Connection	Setup	Macro	Winde	ow He	əlp				
<u>∥</u> [Session S	etup								
F	Connect t Disconnec		p.stl.dis:	a.mil vi	a Telne	t Extende	ed Alt+C Alt+D		est Page	
	Trace							•	Help	
	Cancel Reset Flush		Line fee	d		PA2]		Setup	
			D)iscor	nect	ed				
Mana	ige host conni	ections a	and even	t trace:	5					

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

🛤 msn-ftp_stl_disa_mil(PRINTER).rsf - WRQ Reflecti	ion - IBM 3 💶 🗖 🗙
File Connection Setup Macro Window Help	
Session Setup	
Connect to msn-ftp.stl.disa.mil via Telnet Extended F Disconnect	Alt+C Alt+D est Page
Trace	► Help
Cancel Line feed PA2 Reset Flush Status	Setup
Disconnected	
Change host connection options	

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.

_	msn-ftp_stl_disa_mil(PRINTER).rsf - WRQ Reflection - IBM 3 💶 🗖 🗙	1
File	: Connection Setup Macro Window Help Session Setup	? ×
<u> </u>	Session Type Model ID IBM 3270 Printer 3287 Printer	Connect OK
	Transport	Cancel
	Type Host name or IP address	Help
	Telnet Extended msn-ftp.stl.disa.mil Port Connection type 9023 Connect Advanced	Security
	Connect options	
	Connect macro Macro data	rowse

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

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.

nsn-rtp_stl_disa_	mil(PRINTER).rs	sf - WRQ Reflectio	on - IBM 3 💶 🗵 🗙	
Connection Setu	p Macro Windo	w Help		
Session Setup				?
Session				Connect
Туре	Mo	odel ID		Connect
IBM 3270 Printe	r 💌 3.	287 Printer		OK
Transport — —				Cancel
Туре	Host	name or IP address		Help
Telnet Extended	🛛 🔽 🕅 msn-f	tp.stl.disa.mil	▼ _	
Port Con	nection type	Host LU name		Security
9023 Cor	nnect 🗾	PSNM0650	Advanced	
Connect entions				
Connect options-				
Auto connec	:			
Connect macro		Macro data		
			Br	owse

- 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

	lisa_mil(PRINTER)).rsf - WRQ Reflecti	on - IBM 3 🔳 🗖 🗙			
File Connection	Setup Macro Wir	ndow Help				
📗 🗅 📂 🔜	-⊕- ▶ №?					
Printer control Hold Cancel Reset Flush	Forms control Form feed Line feed	Host control PA1 PA2	Test Page Help Setup			
Status						
Ready						
1, 1 🖤	8	IBM 3270 Printer				

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.

ESTABLISHING A DEDICATED "NAILED"PRINTER SESSIONS

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

File		on Setup M	PRINTER).rsf - WRQ Reflection - IBM 3 acro Window Help R	<u> </u>
C	urrent Pri	nter Informa	tion	×
	4	Port: Printer: Logical Unit:	Mainframe Basic \\Vam007\MCNOSC-Mainframe Basic PSNM0650	
	A	Font: Style:	Default Printer Font Regular	
_			ОК	
1,	1		BM 3270 Printer	

- 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
 - o the mainframe VTAM printer Logical Unit (LU) address is: PSNM0650

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.

🛤 msn-ftp_stl_disa_mil(TERM).rsf - WRQ	Deflection - IPM 2270 Terminal						
File Edit Connection Setup Macro Windo							
D 🛩 🖬 🎒 🛍 🛍 🐠 🕖							
			1				
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.							
	becorrent rate renaer.						
SB - OUANTICO SG - LEJEUNE SL - ASIMS-E SO - ASIMS-C SV - RIA QA - SSO DAYTON QF - CCAD QJ - TYAD	SM - ASIMS-W SR - OSC-S/DFAS SW - FAR EAST OC - ASIMS-T OG - RRAD	SI - ALBANY SO - ARDEC ST - AMCOM/SBCCOM SX - TEAD QD - ASIMS-H QH - CECOM	SK - ASIMS-S SP - ARL SU - OSC-R SY - TACOM OE - ANAD OI - LEAD				
X - SNI MENU	UK - LUGSA	QL - ANCON-N	UR - NAMI				
X - SNI MENO HELPDESK DSN: 490-0000 COMM: 314-260-0000 TOLL FREE: 800-645-5032							
ENTER SELECTION =>							
	≫û	0	24,42				
24, 42 🗣 🔒 IBM 3270) Terminal - msn-ftp.stl.disa.mil via Telnet Ext	rended					

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

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

isn-ftp_stl_disa_mil(TERM).rsf - WRQ Edit Connection Setup Macro Windo			_
Session Setup			
Connect to msn-ftp.stl.disa.mil via	Telnet Extended Alt+C		
Disconnect	Alt+D TMENT	OF DEFENSE INTEREST	COMPUTER SYSTEM
(D) Trace	• T TO M	ONITORING BY DOD AUT	HORIZED PERSONNEL
FOR COMPUTER SECURI	TY AND SYSTEM MANAG	EMENT PURPOSES. THIS	DODICS AND ALL
RELATED EQUIPMENT A	RE TO BE USED FOR T	HE COMMUNICATIONS, T	RANSMISSION,
PROCESSING, MANIPUL	ATION, AND STORAGE	OF OFFICIAL U.S. GOV	ERNMENT OR OTHER
AUTHORIZED INFORMAT	ION ONLY. UNAUTHORI	ZED USE OF THIS COMP	UTER MAY SUBJECT
YOU TO CRIMINAL PRO	SECUTION AND PENALT	IES.	
		SE - OKINAWA	SE - KANSAS OTTY
SG - LEJEUNE		SE - OKINAWA SI - ALBANY	
SL - ASIMS-E		SO - ARDEC	SP - ARL
SQ - ASIMS-C		ST - AMCOM/SBCCOM	
SV - RIA			SY - TACOM
		QD - ASIMS-H	QE - ANAD
QF - CCAD		QH - CECOM	QI - LEAD
QJ - TYAD			
X - SNI MENU		ae Anoon n	VII NAILI
X ONT HENO			
HE	LPDESK DSN: 490-000	0 COMM: 314-260-000	0
	TOLL FREE: 8	00-645-5032	
	ENTER SELECTION =>		
	*	0	24.42
		<u></u>	

msn-ftp_stl_disa_mil(TERM).rsf - WRQ				
e Edit Connection Setup Macro Windo	w Help			
Connect to msn-ftp.stl.disa.mil via	Telpet Extended Alt+C			
Disconnect		OF DEFENSE INTEREST	COMPUTER SYSTEM	
D Trace	T TO M	ONITORING BY DOD AUT	HORIZED PERSONNE	EL
		EMENT PURPOSES. THIS		
		HE COMMUNICATIONS, T		
		OF OFFICIAL U.S. GOV		
		ZED USE OF THIS COMP	UTER MAY SUBJECT	
YOU TO CRIMINAL PRO	SECUTION AND PENALT	IES.		
SB - QUANTICO	SD - DITCO	SE - OKINAWA	SF - KANSAS CII	ту
	SH - PENDLETON	SI - ALBANY	SK - ASIMS-S	
SL - ASIMS-E	SM - ASIMS-W	SO - ARDEC	SP - ARL	
SQ - ASIMS-C		ST - AMCOM/SBCCOM		
SV - RIA		SX - TEAD	SY - TACOM	
QA - SSO DAYTON	QC - ASIMS-T	QD - ASIMS-H	QE - ANAD	
QF - CCAD	QG - RRAD	OH - CECOM	QI - LEAD	
QJ - TYAD	QK - LOGSA	QL - AMCOM-M	QR - NAMI	
X - SNI MENU				
HE		0 COMM: 314-260-000	0	
	TOLL FREE: 8	00-645-5032		
	ENTER SELECTION =>			

- 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

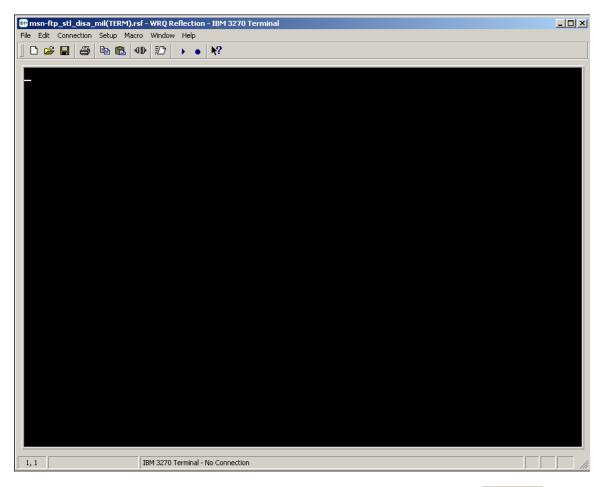
while the session is connected

and indicates:

IBM 3270 Terminal - No Connection

when the session is disconnected.

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.

ESTABLISHING A DEDICATED "NAILED" TERMINAL SESSIONS

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

📾 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM	M 3270 Terminal	
File Edit Connection Setup Macro Window Help		
📗 🗅 🚘 Session Setup		
Connect to msn-ftp.stl.disa.mil via Telnet Extended		
Disconnect	Alt+D	
Trace	►	
Manage host connections and event traces		//

ESTABLISHING A DEDICATED "NAILED" TERMINAL SESSIONS

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

Image: msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 327 File Edit Connection Setup Macro Window Help	0 Terminal
Session Setup Matro Window Help	
Connect to msn-ftp.stl.disa.mil via Telnet Extended Alt+ Disconnect: Alt+	
Trace	
Change host connection options	li li

• 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

en msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal	
File Edit Connection Setup Macro Window Help □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	
Session Setup	?×
Session Type Model ID	Connect
IBM 3270 Terminal 💌 Model 2 24x80 Extended 💌	OK
Transport	Cancel
Type Host name or IP address	Help
Telnet Extended 💌 msrr-ftp. stl. disa.mil 💌	Security
Port Device name 9023 ASNTM001 Advanced	
Connect options	
Auto connect Graphics enabled Connect macro Macro data	
	Browse
I, 1 IBM 3270 Terminal - No Connection	

- *Note: Mainframe VTAM terminal Logical Unit (LU) address in the example above is* **ASNM0001.**
- Once you have enter 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.

msn-ftp_stl_disa_mil(TERM).rsf - WRQ File Edit Connection Setup Macro Windo						
	▶ • № ?		(
(DODICS) CONSTITUTE FOR COMPUTER SECURI	Y OTHER DEPARTMENT O S YOUR CONSENT TO MO TY AND SYSTEM MANAGE	DNITORING BY DOD AUT EMENT PURPOSES. THIS	HORIZED PERSONNEL DODICS AND ALL			
	RE TO BE USED FOR TH					
	ATION, AND STORAGE (
	ION ONLY. UNAUTHORIZ		UTER MAY SUBJECT			
YOU TO CRIMINAL PRO	SECUTION AND PENALT	IES.				
SB - QUANTICO	SD - DITCO	SE - OKINAWA	SE - KANSAS CITY			
SG - LEJEUNE		SI - ALBANY				
SL - ASIMS-E		SO - ARDEC	SP - ARL			
SQ - ASIMS-C		ST - AMCOM/SBCCOM				
SV - RIA			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						
HE	LPDESK DSN: 490-0000		0			
	TOLL FREE: 80	00-645-5032				
	ENTER SELECTION =>					
TI	≫û	0	24,42			
24, 42 🕸 🔒 IBM 3270) Terminal - msn-ftp.stl.disa.mil via Telnet Ext	ended				

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 Device: ASNTM001 where in this example. ASNM0001 is your dedicated

see **Device: ASNIMUUT** where in this example, **ASNM0001** is your dedicated 'Nailed' mainframe VTAM printer Logical Unit (LU) address.

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	
KLGLGON1 — Entry Validation —	
Date: 09/26/03 System:	AA0D
	ASNTM001
Identification:	
Userid	
Password Change Password ? <u>N</u> (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	
T <u>I</u> ≫û 0 6,30	
6, 30 🕪 🔒 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

To start a REFLECTION for IBM mainframe 3270 terminal session:

• Click the PC Windows 'Start' button.

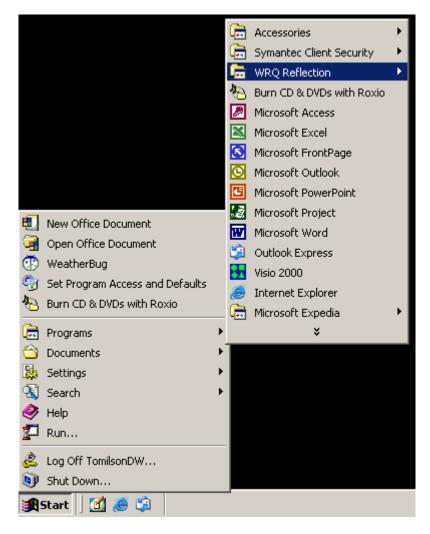


• With your mouse pointer point and click on '*Programs*'.



CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

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



CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

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

	C.	Accessories			
	C =	Symantec Client Security	•		
	r,	WRQ Reflection	•	Utilities	•
	*	Burn CD & DVDs with Roxio	Q.	🖥 Wizards	•
	2	Microsoft Access	<u>=</u> (FTP Client	
		Microsoft Excel	•	🖻 Host - AS400	
	6	Microsoft FrontPage		🖻 Host - HP	
	O	Microsoft Outlook	92	🤨 Host - Mainframe	
	3	Microsoft PowerPoint	0	Host - ReGIS Graphics	
1	1	Microsoft Project	0	🕤 Host - UNIX and Digital	
New Office Document	W	Microsoft Word	0	Reflection X	
Grand Open Office Document	S	Outlook Express			
(1) WeatherBug	<mark>85</mark>	Visio 2000			
Set Program Access and Def	aults 🥭	Internet Explorer			
Burn CD & DVDs with Roxio	📻	Microsoft Expedia	•		
💼 Programs	•	¥			
՝ Documents	- • T				
눯 Settings	•				
🕄 Search	-				
🧼 Help					
🚰 Run					
😤 Log Off TomilsonDW					
🜒 Shut Down					
🏽 🚮 🈂 🕄					

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

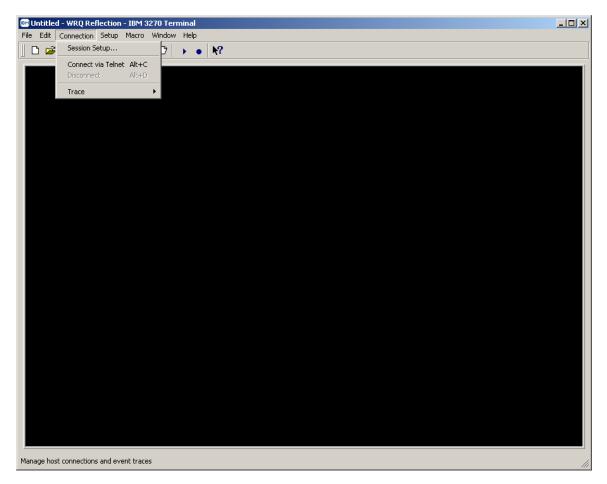
• Once '3270 Host – Mainframe' has been selected, the following screen will appear on your PC Window's desktop:

🖼 Untitled - WRQ Reflection - IBM 3270 Terminal	
File Edit Connection Setup Macro Window Help	
Enter Host Name or IP Address	
localhost 💌	
Connect Cancel Help	
1, 1 IBM 3270 Terminal - No Connection	

- With your mouse pointer select the Cancel 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 Connect button vice the Cancel 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.

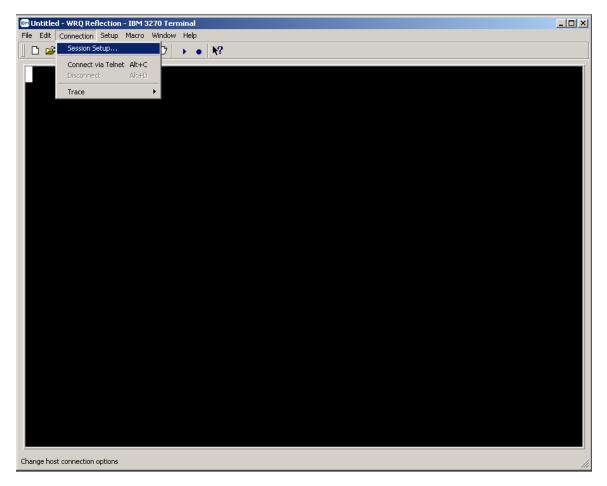
CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

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



CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

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



CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

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

B Untitled - WRQ Reflection - IBM 3270 Terminal	
File Edit Connection Setup Macro Window Help	
Session Setup	<u>? ×</u>
Session Model ID	Connect
IBM 3270 Terminal V Model 2 24x80 Extended V	ОК
□ Transport	Cancel
Type Host name or IP address	Help
Teinet	Security
Port Device name	
Connect options	
Connect Graphics enabled	
Connect macro Macro data	Browse
IBM 3270 Terminal - No Connection	

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

• The '*Session Setup*' properties dialog box will be displayed.

Session Type Model ID IBM 3270 Terminal Model 2 24x80 Extended	Connect OK
Transport Type Host name or IP address Telnet	Cancel Help
Port Device name 23 Advanced	Security
Connect options Auto connect Graphics enabled Connect macro Macro data	Browse

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

Transport Type Telnet drop down arrow and sele	
Session Type Model ID IBM 3270 Terminal Model 2 24x80 Extended Transport Model 2 24x80 Extended Type Host name or IP address Telnet Image: Comparison of the strength of the strengt of the strength of the strengt of the strength of the	Connect OK Cancel Help Security

•

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

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

Session Setup	<u>?</u> ×
Session Type Model ID IBM 3270 Terminal I Model 2 24x8	30 Extended Connect OK
Transport	Cancel
Type Host name or IP addre	ess Help
Telnet Extended	Security
Port Device name	Advanced
Connect options	
🗖 Auto connect 🛛 🗍 Graphics enabled	
Connect macro Macro data	Browse

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

Port 23

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

Session Setup Session Type Model ID IBM 3270 Terminal Model 2 24x80 Extended	Connect
Transport Type Host name or IP address Telnet Extended Image: Comparison of the second sec	Cancel Help Security
Connect options Auto connect Graphics enabled Connect macro Macro data	Browse
Host name or IP address	

• 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.

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.

Session Setup	? ×
Session Type Model ID IBM 3270 Terminal Model 2 24x80 Extended	Connect OK
Transport	Cancel
Type Host name or IP address	Help
Telnet Extended 💌 msn-ftp.stl.disa.mi	
Port Device name 9023 Advanced	Security
Connect options	
Auto connect 🔲 Graphics enabled	
Connect macro Macro data	Browse

- 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.*

Device name

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

- Connect options

🗖 Auto connect 🛛 🗖 Graphics enabled

mouse click the check

Under '*Connect options*' Auto connect Graphics enabled' as shown below

•

Session Setup	? ×
Session Type Model ID IBM 3270 Terminal Model 2 24x80 Extended	Connect OK
-Transport-	Cancel
Type Host name or IP address	Help
Telnet Extended 💌 msn-ftp. stl. disa.mil	Security
Port Device name 9023 Advanced	
Connect options	
Auto connect Graphics enabled	
Connect macro Macro data	
	Browse

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.

Session Setup			? ×
Session Type IBM 3270 Termin Transport Type Telnet Extended	Advanced 3270 Telnet Extended Telnet location Response mode TN Association	OK Cancel Help	Connect OK Cancel Help
Port 9023	Send Keep Alive Packets None Keep Alive Timeout		Security
Connect options Auto connect Connect macro	600 😴		Browse

•

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

None

drop down arrow and select 'Send Timing

• Mouse click on the *Marker Packets*' as shown below.

Session Setup			?×
Session Type IBM 3270 Termin	Advanced 3270 Telnet Extend Telnet location	ed ?X	Connect OK Cancel
Transport Type Telnet Extended	Response mode TN Association	Help	Help Security
Port 9023 Connect options Auto connect	Send Keep Alive Packets None System Send NOP Packets Send Timing Mark Packets Use Service Location Protoco		
Connect macro	Configure SLP		Browse

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.

Session Setup			<u>? x</u>
Session	Advanced 3270 Telnet Extend	led <mark>? x</mark>	
Туре	<u>T</u> elnet location	ОК	Connect
IBM 3270 Termin		Cancel	
Transport-	Response mode		Cancel
Туре	TN <u>A</u> ssociation	<u>H</u> elp	Help
Telnet Extended			Security
Port	Send Keep Alive Packets		
9023	Send Timing Mark Packets 💌		
- Connect options	Keep Alive Timeout		
	600		
Connect macro	Use Service Location Protoco	d	
	Configure SLP		Browse

•	Leave the 600 ÷	time set to 600 seconds and mouse click on the	OK	
	button to complete and clos	e the 'Advanced 3270 Telnet Extended' windows	pop-up dialog b	ox.

Keep Alive Timeout

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

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

Session Setup	<u>?</u> ×
Session	h-1
Security Properties	
SOCKS SSL/TLS	
T Use SSL/TLS security	:el
Encryption strength: Default	
F Certificate host name must match host being contacted	ty
OK Cancel Help	
Browse	

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.

Session Setup	? ×
Session Security Properties SOCKS SSL/TLS Use SSL/TLS security Encryption strength: Default Certificate host name must match host being contacted	el
Cancel Help	2

• 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 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.

Session Setup	<u>? ×</u>
Session Security Properties	? × =ct
SOCKS SSL/TLS	
T Use SSL/TLS security	:el
Encryption strength: Default	
F Certificate host nat F 128 Bits 168 Bits	<u>ty</u>
OK Cancel	Help
	Browse

• Once '128 Bits' has been selected as your encryption strength the screen will appears as shown below.

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

	on Setup	?
	sion Security Properties	ki þet
	SOCKS SSL/TLS	
	✓ Use SSL/TLS security	el
	Encryption strength: 128 Bits	ŀÞ
F	Certificate host name must match host being contacted	ţy.,
İ		
1		
(OK Cancel Help	
	Brows	e
	, , , ,	ted
	k on and un-check the vn below.	C

•

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

ssio	n Setup ? X
	sion ecurity Properties
	SOCKS SSL/TLS
- r	Use SSL/TLS security
- r	Encryption strength: 128 Bits
	Certificate host name must match host being contacted
F	
(OK Cancel Help
	Browse
	Certificate host name must match host being contacted
e th	the check box is un-checked mouse click on the OK button to complete and close the 'Security Pro

above, mouse click on the **button** 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

Session Setup	? ×
Session Type Model ID IBM 3270 Terminal Model 2 24x80 Extended	Connect OK
Transport	Cancel
Type Host name or IP address	Help
Telnet Extended 💌 msn-ftp.stl.disa.mil	Security
Port Device name 9023 Advanced	
Connect options	
Auto connect Graphics enabled	
Connect macro Macro data	Browse
	DIOM26

• Mouse click on the <u>Connect</u> 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.

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

鷗 Untitled - WRQ Reflection - IBM 3270 Te	rminal					
File Edit Connection Setup Macro Window Help						
📙 🗅 🚄 🖶 🎒 🛍 🛍 🐠 😰						
(DODICS) CONSTITUTE FOR COMPUTER SECURI RELATED EQUIPMENT A PROCESSING, MANIPUL	S YOUR CONSENT TO M TY AND SYSTEM MANAG RE TO BE USED FOR T ATION, AND STORAGE ION ONLY. UNAUTHORI	OF DEFENSE INTEREST ONITORING BY DOD AUT EMENT PURPOSES. THIS HE COMMUNICATIONS, T OF OFFICIAL U.S. GOV ZED USE OF THIS COMF IES.	HORIZED PERSONNEL DODICS AND ALL RANSMISSION, YERNMENT OR OTHER			
SV - RIA	SH - PENDLETON SM - ASIMS-W SR - OSC-S/DFAS SW - FAR EAST OC - ASIMS-T OG - RRAD	ST - AMCOM/SBCCOM SX - TEAD OD - ASIMS-H OH - CECOM	SK - ASIMS-S SP - ARL SU - OSC-R SY - TACOM OE - ANAD QI - LEAD			
HE	LPDESK DSN: 490-000 TOLL FREE: 8	0 COMM: 314-260-000 00-645-5032	0			
ENTER SELECTION =>						
TI	≫û	0	24,42			
24, 42 🕮 🔒 IBM 3270) Terminal - msn-ftp.stl.disa.mil via Telnet Ex	tended				

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

🝽 Untitled - WRQ Reflection - IBM 3270 Terminal

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...'

Edit Connection Setup Macro Window	v Help		
New Session 🗈 🛍 🐠 D	▶ • <u>\</u> ?		
		OF DEFENSE INTEREST ONITORING BY DOD AUT	
		EMENT PURPOSES. THIS	
		HE COMMUNICATIONS, T	
		OF OFFICIAL U.S. GOV	
winds Carbona		ZED USE OF THIS COMP	UTER MAY SUBJECT
Init Setup IMINAL PRO	SECUTION AND PENALT	IES.	
iend			
ANTICO	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			
HE	LPDESK DSN: 490-000	0 COMM : 314-260-000	0
	TOLL FREE: 8	00-645-5032	
	ENTER SELECTION =>		
	*	0	24,42

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

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

Connection - IBM 3270 Terminal File Edit Connection Setup Macro Window Help	
USE OF THIS OR ANY OTHER DEPARTMENT OF DEFENSE INTEREST COMPUTER SYSTE (DODICS) CONSTITUTES YOUR CONSENT TO MONITORING BY DOD AUTHORIZED PERSON FOR COMPUTER SECURITY AND SYSTEM MANAGEMENT PURPOSES. THIS DODICS AND AL RELATED EQUIPMENT ARE TO BE USED FOR THE COMMUNICATIONS, TRANSMISSION, PROCESSING, MANIPULATION, AND STORAGE OF OFFICIAL U.S. GOVERNMENT OR OTH AUTHORIZED INFORMATION ONLY UNAUTHORIZED USE OF THIS COMPUTER YOU TO CRIMINA Save in: Reflection SB - QUANTIC SG - LEJEUNE SL - ASIMS-E SL - ASIMS-C SV - RIA OA - SSO DAY OF - CCAD OJ - TYAD X - SNI MEN No Shortcut will be created SB - OUANTIC SAVE AS INS - S SL - ASIM MEN No Shortcut will be created SAVE AS INS - S SL - ASIM MEN No Shortcut will be created SAVE AS INS - S SL - ASIM MEN SAVE AS INS - S SL - ASIM MEN SAVE AS INS - S SL - ASIM SC	NEL L ER CT
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	

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.

Save Settings File	? ×
Save in: 🔄 Reflection 🗾 🗢 🗈 💣 🎟 -	
	Save
	Cancel
	Help
File name: My_Terminal_Session	
Save as type: Settings	
No Shortcut will be created	Shortcut

• Once completed mouse click on the Save 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.

CONFIGURING A 3270 TERMINAL SESSIONS FROM SCRATCH

My_Terminal_Session.rsf - WRQ Reflec			
File Edit Connection Setup Macro Windo			
(DODICS) CONSTITUTE FOR COMPUTER SECURI RELATED EQUIPMENT A PROCESSING, MANIPUL AUTHORIZED INFORMAT	S YOUR CONSENT TO MU TY AND SYSTEM MANAG RE TO BE USED FOR TI ATION, AND STORAGE	OF DEFENSE INTEREST ONITORING BY DOD AUT EMENT PURPOSES. THIS HE COMMUNICATIONS, T OF OFFICIAL U.S. GOV ZED USE OF THIS COMP IES.	HORIZED PERSONNEL DODICS AND ALL RANSMISSION, ERNMENT OR OTHER
SB - QUANTICO SG - LEJEUNE SL - ASIMS-E SQ - ASIMS-C SV - RIA QA - SSO DAYTON QF - CCAD	SH - PENDLETON SM - ASIMS-W SR - OSC-S/DFAS SW - FAR EAST OC - ASIMS-T	SE - OKINAWA SI - ALBANY SO - ARDEC ST - AMCOM/SBCCOM SX - TEAD QD - ASIMS-H OH - CECOM	SK - ASIMS-S SP - ARL SU - OSC-R SY - TACOM
QJ - TYAD			
X - SNI MENU			
HE	LPDESK DSN: 490-000 TOLL FREE: 8	0 COMM: 314-260-000 00-645-5032	0
	ENTER SELECTION =>		
	≫ î	0	24,42
24, 42 🕩 🔒 IBM 327) Terminal - msn-ftp.stl.disa.mil via Telnet Ex	tended	

• 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.

My_Terminal_Session.rsf - WRQ Reflection - IBM 3270 Terminal

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

To start a REFLECTION for IBM mainframe 3270 printer session:

• Click the PC Windows 'Start' button.

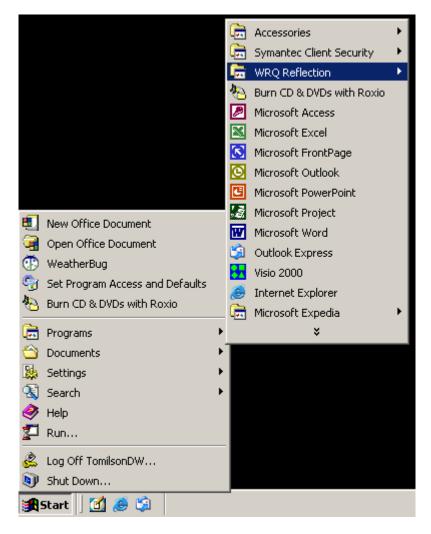


• With your mouse pointer point and click on '*Programs*'.



CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

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



CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

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

	E	Accessories	×			
	6	Symantec Client Security	×			
	Ē	WRQ Reflection	×	(Utilities	•
	*	Burn CD & DVDs with Roxio		i.	Wizards	•
	2	Microsoft Access		<u>=</u> B	FTP Client	
		Microsoft Excel		400	Host - AS400	
	8	Microsoft FrontPage		HP	Host - HP	
	O	Microsoft Outlook		3270	Host - Mainframe	
	C	Microsoft PowerPoint		(v)	Host - ReGIS Graphics	
	1	Microsoft Project		S.	Host - UNIX and Digital	
New Office Document	W	Microsoft Word		\otimes	Reflection X	
Open Office Document	S	Outlook Express	1			
WeatherBug	-	Visio 2000				
Set Program Access and Defaults	ک	Internet Explorer				
Norm CD & DVDs with Roxio	_ 📻	Microsoft Expedia	۲			
💼 Programs	•	¥				
😂 Documents	•			1		
🔛 Settings	•					
🕄 Search	•					
🧼 Help						
🚰 Run						
🔔 Log Off TomilsonDW						
🔊 Shut Down						
🔀 Start 🛛 🛃 🍰 🖏						

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

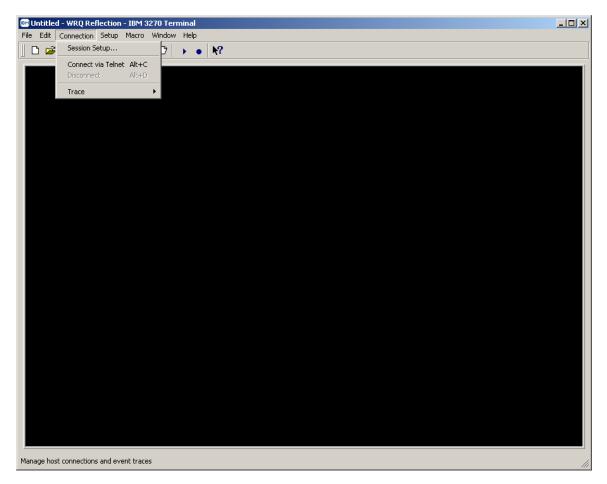
• Once '3270 Host – Mainframe' has been selected, the following screen will appear on your PC Window's desktop:

🝽 Untitled - WRQ Reflection - IBM 3270 Termina		<u>_</u> D×
File Edit Connection Setup Macro Window Hel		
	• 182	
	Enter Host Name or IP Address	
	Connect Cancel Help	
1, 1 IBM 3270 Termin	nal - No Connection	

- With your mouse pointer select the Cancel 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 Connect button vice the Cancel 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.

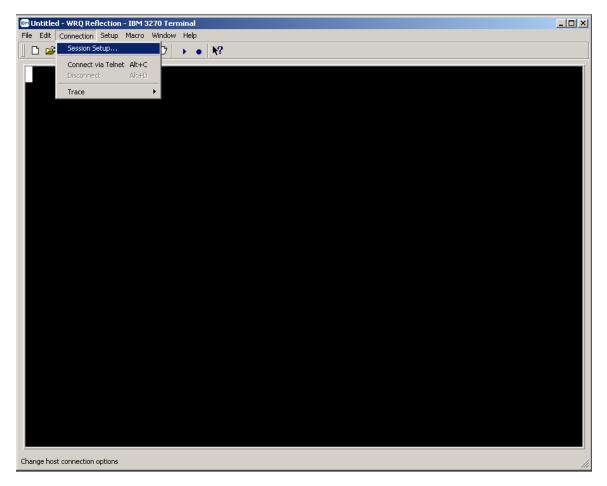
CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

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



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...'



CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

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

B Untitled - WRQ Reflection - IBM 3270 Terminal	×
File Edit Connection Setup Macro Window Help	
Session Setup	<u>? ×</u>
Session Model ID	Connect
IBM 3270 Terminal V Model 2 24x80 Extended V	ОК
□ Transport	Cancel
Type Host name or IP address	Help
Teinet	Security
Port Device name	
Connect options	
Auto connect Graphics enabled	
Connect macro Macro data	Browse
IBM 3270 Terminal - No Connection	

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

• The '*Session Setup*' properties dialog box will be displayed.

Session Setup	<u>?</u> ×
Session Type Model ID IBM 3270 Terminal Model 2 24x80 Extended I	Connect
- Transport-	Cancel
Type Host name or IP address	Help
Port Device name 23 Advanced	Security
Connect options	
Auto connect Graphics enabled	
Connect macro Macro data	Browse

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

	Session
	Туре
	IBM 3270 Terminal
Mouse click on the	

'Session Type' dialog box drop down arrow and

select 'IBM 3270 Printer' as shown below.

•

Session Setup	<u>?</u> ×
Session	
Type Model ID	Connect
IBM 3270 Terminal 💌 Model 2 24x80 Extended 💌] ОК
IBM 3270 Terminal	
IBM 3270 Printer	Cancel
IBM 5250 Printer Host name or IP address	Help
Telnet 💌	
De la De la comp	Security
Port Device name	1
23 Advanced	J
Connect on Konne	
Connect options	
🗖 Auto connect 🛛 🗍 Graphics enabled	
Connect macro Macro data	
	Browse

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.

Session Setup		? ×
Session Type IBM 3270 Printer	Model ID 3287 Open Connect Printer	Connect
- Transport		Cancel
Туре	Host name or IP address	Help
Telnet		Security
Port 23	Host LU name Advanced	
Connect options		
Auto connect		
Connect macro	Macro data	Browse

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

Transport Type Telnet	drop down arrow and sele	ect ' <i>Telnet Extended</i>
Session Setup Session Type IBM 3270 Printer Transport	Model ID 3287 Open Connect Printer	Connect OK Cancel
Telnet Tupe Telnet 802.2 DLC Eicon Gateway IBM Comm Server MS SNA Server NetWare SAA NetWare SAA (LUA) NetWare SAA (NDS) Telnet Telnet Telnet Extended	Host name or IP address Host LU name Advanced	Help Security
Connect macro	Macro data	Browse

•

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

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

Session Setup	<u>? ×</u>
Session Model ID IBM 3270 Printer 3287 Printer Transport Transport Type Host name or IP address Telnet Extended Image: Comparison of the printer	Connect OK Cancel Help
Port Connection type Host LU name 23 Connect Advanced	Security
Connect options Auto connect Connect macro Macro data	Browse

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

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

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.

Session Setup		? ×
- Session-		1
Туре	Model ID	Connect
IBM 3270 Printer	3287 Printer	OK
Transport		Cancel
Туре	Host name or IP address	Help
Telnet Extended 💌	•	
Port Connection type	Host LU name	Security
9023 Connect	Advanced	
Connect options		
Auto connect		
	Mana data	
Connect macro	Macro data	
		Browse
L]
Host name of	or IP address	
	•	

• Mouse click in the **Domain** 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.

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.

Session Setup	? ×
Session Type Model ID IBM 3270 Printer	Connect OK
Transport Type Host name or IP address Telnet Extended msn-ftp. stl.disa.mil Port Connection type 9023 Connect	Cancel Help Security
Connect options Auto connect Connect macro Macro data	Browse

- 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.*

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

Connect options -

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

Session Setup	<u>?</u> ×
Session Type Model ID IBM 3270 Printer	Connect OK
- Transport	Cancel
Type Host name or IP address	Help
Telnet Extended msn-ftp.stl.disa.mil Port Connection type 9023 Connect Advanced	Security
Connect options Auto connect Connect macro Macro data	Browse

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.

Session Setup		? ×
Session		Connect
Туре	Advanced 3270 Telnet Extended 🛛 🙎 🗙	
IBM 3270 Printer	Telnet location OK	ОК
Transport-	Cancel	Cancel
Туре	Response mode	Help
Telnet Extended	Send Keep Alive Packets Help	Security
Port Conr	None	
9023 Con	Keep Alive Timeout	
	600	
Connect options	Use Service Location Protocol	
Auto connect	Configure SLP	
Connect macro		
		Browse

▼

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

Send Keep Alive Packets

- None
- Mouse click on the •

drop down arrow and select 'Send Timing

Marker Packets' as shown below.

Session Setup	? ×
Session Type Advanced 3270 Telnet Extended IBM 3270 Printer Telnet location Transport Telnet location Type ✓ Response mode Telnet Extended Send Keep Alive Packets Port Conrel 9023 Con Vone Send NOP Packets Send Timing Mark Packets Send Timing Mark Packets ✓ Auto connect Configure SLP	Connect OK Cancel Help Security
Connect macro	Browse

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.

Session Setup		<u>?</u> ×
Session		_1 Connect
Туре	Advanced 3270 Telnet Extended 🛛 🔗	
IBM 3270 Printer	Telnet location OK]ок
Transport-	Cancel	Cancel
Туре	Response mode	Help
Telnet Extended	Send Keep Alive Packets Help	
Port Conr	Send Timing Mark Packets 💌	Secuny
9023 Con	Keep Alive Timeout	
	600 ÷	
Connect options-	Use Service Location Protocol	
Auto connect	Configure SLP	
Connect macro	compare our	
		Browse

• Leave the 600 it ime set to 600 seconds and mouse click on the 0K button to complete and close the 'Advanced 3270 Telnet Extended' windows pop-up dialog box.

Keep Alive Timeout

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

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

Session Setup	? ×
Session	
Security Properties	
SOCKS SSL/TLS	
T Use SSL/TLS security	el
Encryption strength: Default	
Certificate host name must match host being contacted	ţy
Cancel Help Browse.	

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.

Session Setup	? ×
Session	
Security Properties	ct
SOCKS SSL/TLS	
T Use SSL/TLS security	el
Encryption strength: Default	
F Certificate host name must match host being contacted	y
(Cancel Help	
Browse	

• 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.

Session Setup	<u>? ×</u>
Session Security Properties SOCKS SSL/TLS Use SSL/TLS security Encryption strength: Default Default Default Default Use SSL/TLS security I Encryption strength: Default I Encryption stren	? X Boot
Cancel	Help Browse

• Once '128 Bits' has been selected as your encryption strength the screen will appears as shown below.

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

Session Setup	Ľ×Ľ
Session SOCKS SSL/TLS I ✓ Use SSL/TLS security Encryption strength: 128 Bits I ✓ Certificate host name must match host being contacted	
Cancel Help Browse]

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

Session Setup	? ×
Session Security Properties	ect
SOCKS SSL/TLS	
T Use SSL/TLS security	el 🛛
Encryption strength: 128 Bits	>
Certificate host name must match host being contacted	ty
OK Cancel Help	
Browse	

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

		Certificate host name must match host being contacted	
•	Once the		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.

Session Setup	<u>? ×</u>
Session Type Model ID IBM 3270 Printer 3287 Printer	Connect OK
_ Transport	Cancel
Type Host name or IP address	Help
Telnet Extended msn-ftp.stl.disa.mil Port Connection type 9023 Connect Advanced	Security
Connect options Image: Auto connect Connect macro Macro data	Browse

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

• Mouse click on the <u>Connect</u> 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.

📟 Untitled - WRQ	Reflection - IBM 3270 Printer	
File Connection	Setup Macro Window Help	
📙 🗅 😅 🔚 🕛	⊕= ▶ ₦?	
Printer control	Forms control Host control	Test Page
Hold	Form feed PA1	Help
Cancel Reset	Line feed PA2	Setup
Flush		Info
Status-		
	Ready	
1, 1 D	IBM 3270 Printer	

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

Untitled - WRQ Reflection - IBM 3270 Printer

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

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

📟 Untitled - WRQ R	eflection - IBM 3270 Printer	
File Connection Sel	tup Macro Window Help	
New Session	► N?	
Open	1 -	
Save	-Forms control	Test Page
Save As		
Page Setup	Form feed PA1	Help
Print Setup	Line feed PA2	
Exit		Setup
Flush	1	Info
Status		
	Ready	
Save settings to a file		

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

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

	📧 Untitled - WR	Q Reflection - 1	IBM 3270 Printer			
		Setup Macro	Window Help			-11
Save Se	ttings File					<u>? ×</u>
Save in	: 🔁 Reflection		- 🔁	-111 *		
₽ My	_Terminal_Session	ı			Save	
					Cancel	
					Help	
I						
File nam	ie:					
Save as	type: Settings		•			
No Sho	rtout will be created				Shortcut.	
	1,1	A	IBM 3270 Printe	er		
			10M 3270 Phild	71		

• 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

	BM L	Intitled - WR	Q Reflec	tion - I	BM 3270	Printer				
	File	Connection	Setup	Macro	Window	Help				
Save Se	ttings	; File							?)	4
Save in	c 🔁	Reflection			•	(-	• 🎬 🏷			
Ф Му	_Tern	unal_Session	1						Save	
									Cancel	
									Help	
File nam	ie:	My_Printer_9	Session							
Save as	: type:	Settings				-				
No Sho	rtout w	ill be created							Shortcut	
	1,	1 👁		8	IBM 3	270 Printe	er			
	1 -)			<u> </u>	1.0.10	2.01.000		J	J	

• Once completed mouse click on the Save 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.

CONFIGURING A 3270 PRINTER SESSIONS FROM SCRATCH

		Reflection - IBM 327	0 Printer 💶 🗙
[Setup Macro Wi	ndow Help	
	⊕= → ₦?		
Printer control	Forms control	Host control	Test Page
Hold	Form feed	PA1	Help
Cancel	Line feed	PA2	
Reset			Setup
Flush			Info
Status			
	F	Ready	
1,1 D*	A	IDM 0070 Deinhau	
1,1 🖤		IBM 3270 Printer	

• 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.

My_Printer_Session.rsf - WRQ Reflection - IBM 3270 Printer

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.

	isa_mil(PRINTER).rsf - WRQ Reflecti Setup Macro Window Help	on - IBM 3 💶 🗙
🛛 🗅 😅 🔛	⊕ → №?	
Printer control Hold Cancel Reset Flush	Forms control Form feed Line feed PA1 PA2	Test Page Help Setup
Status	Ready	
1,1	BM 3270 Printer	

CAPTURING REPORTS TO ASCII TEXT FILES

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

🛤 msn-ftp_stl_disa_mil(PRINTER).rsf - W	/RQ Reflection - IBM 3	<u>_ ×</u>
File Connection Setup Macro Window H	Help	
New Session		
Open		
Save msn-ftp_stl	control Test l	Page
Save As		
Page Setup	PA1 He	lp
Print Setup	PA2	
Exit	Setu	(p
1 Open msn-ftp_stl_disa_mil(PRINTER).rsf	Info	D
_ Status		
Ready		
Manage settings files, new sessions, transfers, a	and printing	

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...'

📾 msn-ftp_stl_disa_mil(PRINTER).rsf - ₩F	Q Reflection -	IBM 3 💶 💌
File Connection Setup Macro Window He	lp	
New Session		
Open	L	
Save msn-ftp_stl	control	Test Page
Save As		
Page Setup	PA1	Help
Print Setup	PA2	
Exit		Setup
1 Open msn-ftp_stl_disa_mil(PRINTER).rsf		Info
- Status-		
Status		
Ready		
Change the printer and the printing options		

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

<u>CAPTURING REPORTS TO ASCII TEXT FILES</u>

rint Setup		<u>? ×</u>
Printer —		
Name:	WVam007\MCNOSC-Mainframe Basi	operties
Status:	Ready	
Туре:	HP LaserJet 8000 Series PS	
Where:	Bldg 3255, Rm 122	
Comment:		
	- 60-	
File name	, me	
		owse
		owse
If file exists	<u> </u>	
If file exists Ask User		
Ask User		
Ask User	: Windows print driver	
Ask User		
Ask User		

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.

t Setup		
Printer		
Name:	\\Vam007\MCNOSC-Mainframe Basi 🔽	Properties
Status:	Ready	
Туре:	HP LaserJet 8000 Series PS	
Where:	Bldg 3255, Rm 122	
Comment:		
IV Print to) file	
) file	
File name		Browse
C:\My Doo	cuments\My_Report	Browse
File name C:\My Doo If file exists	cuments\My_Report	Browse
File name C:\My Doo	cuments\My_Report	Browse
File name C:\My Doo If file exists Ask User	cuments\My_Report :	Browse
File name C:\My Doo If file exists Ask User	cuments\My_Report	Browse
File name C:\My Doo If file exists Ask User	cuments\My_Report :	Browse
File name C:\My Doo If file exists Ask User	cuments\My_Report : ✓indows print driver	Browse

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

CAPTURING REPORTS TO ASCII TEXT FILES

			on - IBM 3 💶 🗙
Exa	Setup Macro Wir	idow Help	
	⊕⊧ ▶ №?		
Printer control	Forms control	Host control	Test Page
Hold	Form feed	PA1	Help
Cancel Reset	Line feed	PA2	Setup
Flush			Info
- Status			
		leady	
1,1	8	IBM 3270 Printer	

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 <u>Info...</u> button on the 3270 Printer Session window.

CAPTURING REPORTS TO ASCII TEXT FILES

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

File		stl_disa_mil(F on Setup M al - O - •	acro W			flection	- IBM 3	_ 🗆 ×	1
C	urrent Pri	nter Informa	tion					×	
	4	Port: Printer: Logical Unit:	C:\My (My_Re PSNM(port	ents\				
		Font: Style:	Default Regula		Font				
				OK					
1,	1		8	IBM 3	270 Printe	er			

- 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
 - o the mainframe VTAM printer Logical Unit (LU) address is: PSNM0001

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.

My_Report - Notepad								
e Edit Format Help								
BIUS MANAGEMENT SYSTEMS, INC.	ViewDirect	6.2					LC53	41
NTE: 09/28/2003 ME: 13:04.53	ViewDirect *** DISTRIBUTION CROSS REFE	RENCE BY RECIPIE	ENT ***		R	EPORT ID: PAGE:	RINÉ	202 1
CIPIENT ID/NAME	TITIC		REMOTE TO VIE	WING ACCESS				
CA MILLINGTON DEPT	MILLINGTON DEPT			Y-NORMAL REPOR	T DIST.	тс	TAL	
REPORT ID/NAME	H	IIERARCHY CODE		TYPE GROUP	TYPE	MEDIA CC	PIES	VIEW
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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 Refection 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.

📾 msn-ftp_stl_disa_mil(PPRINTER).rsf - WRQ Reflection - IBM 💻 🗖 🗙						
File Connection Setup Macro Window Help						
Printer control Forms control Host control Test Page Hold Form feed PA1 Help Cancel Line feed PA2 Setup Reset Info Info						
Status						
1, 1 🗣 🔒 IBM 3270 Printer						

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.

🔤 msn-ftp_stl_disa_mil(PPRINTER).rsf - WRQ Refle	ction - IBM 💶 🗖 🗙				
File Connection Setup Macro Window Help					
New Session					
Open					
Save msn-ftp_stl	Test Page				
Save As					
Page Setup A1	Help				
Print Setup A2					
Exit	Setup				
1 Open msn-ftp_stl_disa_mil(PRINTER).rsf	Info				
Status					
Ready					
Manage settings files, new sessions, transfers, and printing					

MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

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

📾 msn-ftp_stl_disa_mil(PPRINTER).rsf - W	RQ Reflection	- IBM 💶 🗙
File Connection Setup Macro Window He	lp	
New Session		
Open		
Save msn-ftp_stl	ontrol	Test Page
Save As		
Page Setup	A1	Help
Print Setup	A2	
Exit		Setup
1 Open msn-ftp_stl_disa_mil(PRINTER).rsf		Info
Status		
Ready		
Change the printer and the printing options		

MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

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

	rint Setup			<u>?×</u>
	Name: Status: Type: Where: Comment:		Properties	
	File name		Browse	
[Windows print driver	Help	

MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

• From this dialog window mouse click on the dialog screen will appear as shown below.

Properties button and a second windows

Р	rint Setup	
-	Section 2 Michael Content Properties	? ×
0	Layout Paper/Quality	
	Orientation	
	 Portrait 	
	C Landscape	
	C Rotated Landscape	
	Print on Both Sides(Duplex) None Flip on Short Edge Flip on Long Edge	
Г	Advar	nced
-	ОК	Cancel

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

Orientation	-
Portrait	
C Landscape	
C Rotated Landscape	

• Ensure that the '*Print on Both Sides(Duplex*)' portion of this screen is set to None if your printer is not capable of performing 'duplex' as shown below.

Print on Both Sides(Duplex)
None
C Flip on Short Edge
C Flip on Long Edge

MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

• If your printer is capable of 'duplex' printing you may select either ^C Flip on Short Edge or ^C 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.

	Pr <u>int Setup</u>	
	MCNOSC-Mainframe Basic on Yam007 Document Properties	×
0	Layout Paper/Quality	
	Orientation	
	Portrait Side 1	
	C Landscape	
	Rotated Landscape	
	Print on Both Sides(Duplex) O None O Flip on Short Edge Side 2	
Γ	Advanced	
	OK Cancel	

MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

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

ľ	Pr <u>int Setup</u>	
.[MCNOSC-Mainframe Basic on Vam007 Document Properties	<u>? ×</u>
	Layout Paper/Quality Orientation Portrait Candscape Rotated Landscape None Flip on Short Edge Flip on Long Edge	
Γ	Advance	±
	OK Car	ncel

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** 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

P	rint Setup		<u>? ×</u>
6	Printer		
	Name:	VVam007\MCNOSC-Mainframe Bas Properties	
1	Status:	Ready	
		HP LaserJet 8000 Series PS	
		Bldg 3255, Rm 122	
	Comment:		
	Print to	file	
	File name		
		Browse	
	If file exists	:	
	Ask User	Y	
	🔲 Bypass V	/indows print driver	
Г			ŀ
-	0	K Cancel Network Help	H

• Mouse click on the **OK** 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

			ion - IBM 💶 🗙			
[m	Setup Macro Win	ndow Help				
	⊕= → ₦?					
Printer control	Forms control	Host control	Test Page			
Hold	Form feed	PA1	Help			
Cancel Reset	Line feed	PA2	Setup			
Flush			Info			
Status						
Ready						
1, 1 🖤	8	IBM 3270 Printer				

• 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.

📴 msn-ftp_stl_disa_mil(PPRINTER).rsf - Wi	RQ Reflection	- IBM 💶 🗙			
File Connection Setup Macro Window Hel	P				
New Session					
Open	L				
Save msn-ftp_stl	ontrol-	Test Page			
Save As					
Page Setup	A1	Help			
Print Setup	A2				
Exit		Setup			
1 Open msn-ftp_stl_disa_mil(PRINTER).rsf		Info			
Status					
Ready					
Manage settings files, new sessions, transfers, and	d printing				

MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

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

📾 msn-ftp_stl_disa_mil(PPRINTER).rsf - WRQ Refle	ection - IBM 💶 🗖 🗙
File Connection Setup Macro Window Help	
New Session	
Open	
Save msn-ftp_stl	Test Page
Save As	
Page Setup A1	Help
Print Setup A2	
Exit	Setup
1 Open msn-ftp_stl_disa_mil(PRINTER).rsf	Info
- Status-	
Ready	
Change the page layout options	

MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

Dana Calur

betup has been selected th age Setup	e widows dialog scree	en shown belo	w will appear.
	The second secon		OK Cancel Page Options
	karpa 20 Marakarpa Ki Anama Anama		Defaults Help
Paper			
Size: Letter			
Source: Automatically S	Select	•	
Orientation Margins	(inches)		
Portrait Left:	0.18 Right:	0.171	
C Landscape Top:	0.171 Bottom:	0.183	
Override the orientation sp	ecified by the host		

- 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.



MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

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

Page Setup		<u>? ×</u>
1 <u>87 - 27 - 20</u>		0r
Page Options		<u>? ×</u>
Text format	Cverride host page format	OK Cancel
Font	Page Scaling	Defaults Help
Characters per line C Auto 80 132 C	Lines per page • Auto • • • • • • • • • • • • • • • • • • •	
Override the orientation species	cified by the host	

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

Characters per line	Lines per page
C Auto	Auto
C 80	C Z
132 132	
C	

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 Page Scaling... button and a third windows dialog screen will appear as shown below.

	or ?
age Options e Scaling	
Scaling Options	ОК
O No Scaling	Cancel
${f C}$ Scale the page size specified by the host to fit on the Windows printer page	Default
Choose a host page size and scale it to fit on the Windows printer page	Help
Host page size	
Letter 8.5×11 in	
Use scaling factors for reduction or expansion	
Width (percent) Length (percent)	

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

MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

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

Page Setup		<u>? ×</u>
- Distance	1_	or 1
Page Options		<u>? ×</u>
Text format	🔲 Override host page format	OK Cancel
Font	Page Scaling	Defaults Help
Characters per line	Lines per page	-
C Auto	 Auto 	
C 80		
132		
C		
Override the orientation spec	cified by the host	

MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

• Mouse click on the **OK** 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.

Page Setup		<u>? ×</u>
	Annual Sector and Comparison (Comparison (Compari	OK Cancel
	End Independent Eric Start Independent	Page Options Defaults
		Help
Size:	er 🔽 🗸	
,		
Orientation © Portrait	Margins (inches) Left: 0.18 Right: 0.171	
C Landscape	Top: 0.171 Bottom: 0.183	
Override the orie	entation specified by the host	

MODIFYING PRINTER PROPERTIES TO PRINT PORTRAIT

• Mouse click on the **OK** 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.

[®] msn-ftp_stl_d	isa_mil(PPRINTER).rsf - WRQ Reflect	ion - IBM 💶 🗙		
File Connection	Setup Macro Win	dow Help			
📗 🗅 😅 🔜 🕴	⊕= → ₩?				
Printer control Hold	Forms control Form feed Line feed	Host control PA1 PA2	Test Page Help Setup		
Flush]		Info		
Ready					
1,1 🗣	₿	IBM 3270 Printer			

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 Refection 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.

🛤 msn-ftp_stl_di	sa_mil(PPRINTER).rsf - WRQ Reflection - IBM 🚦	- 🗆 🗙			
File Connection S	ietup Macro Window Help				
🛛 🗅 🖨 🔚 🕒	D= → \ ?				
Printer control Hold Cancel Reset	Forms control Form feed Line feed PA1 PA2 Setup Info.)			
Status					
Ready					
1, 1 🗣	BM 3270 Printer				

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.

🛤 msn-ftp_stl_disa_mil(PPRINTER).rsf - WRQ Refle	ction - IBM 💶 🛛 🗙		
File Connection Setup Macro Window Help			
New Session			
Open			
Save msn-ftp_stl	Test Page		
Save As			
Page Setup A1	Help		
Print Setup A2			
Exit	Setup		
1 Open msn-ftp_stl_disa_mil(PRINTER).rsf	Info		
Status			
Ready			
L			
Manage settings files, new sessions, transfers, and printing			

MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

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

🛤 msn-ftp_stl_disa_mil(PPRINTER).rsf - WF	RQ Reflection -	IBM 💶 🗙	
File Connection Setup Macro Window Help	2		
New Session			
Open			
Save msn-ftp_stl	ontrol	Test Page	
Save As			
Page Setup	A1	Help	
Print Setup	A2		
Exit		Setup	
1 Open msn-ftp_stl_disa_mil(PRINTER).rsf		Info	
- Status			
Ready			
Change the printer and the printing options			

MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

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

	i <mark>nt Setup</mark> - Printer			<u>?×</u>
	Name: Status: Type: Where: Comment:	Wam007MCNOSC-Mainframe Basi Ready HP LaserJet 8000 Series PS Bldg 3255, Rm 122	Properties	
	File name		Browse	
r	Bypass \ 0	Vindows print driver	Help	

MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

• From this dialog window mouse click on the dialog screen will appear as shown below.

Properties button and a second windows

Р	rint Setup	? ×	
-	I MCNOSC-Mainframe Basic on Va	m007 Document Properties	Ľ
0	Layout Paper/Quality		
	Orientation Portrait Landscape Rotated Landscape Print on Both Sides(Duplex) None Flip on Short Edge Flip on Long Edge		
Г		Advanced	
		OK Cancel	

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

_ Orientation	Crientation
C Portrait	O Portrait
Candscape	C Landscape
C Rotated Landscape	Rotated Landscape

• Ensure that the '*Print on Both Sides(Duplex*)' portion of this screen is set to None if your printer is not capable of performing 'duplex' as shown below.

Print on Both Sides(Duplex)
None
C Flip on Short Edge
C Flip on Long Edge

MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

• If your printer is capable of 'duplex' printing you may select either C Flip on Short Edge or

C 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.

	Pr <u>int Setup</u>	? X	
	📫 🐲 MCNOSC-Mainframe Basic on	Vam007 Document Properties	? ×
	Layout Paper/Quality Orientation Portrait Landscape Rotated Landscape Print on Both Sides(Duplex) None Flip on Short Edge Flip on Long Edge	Side 1 Side 2	
Г		Advanc	ed
L		ОК С	ancel

MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

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

Pri	nt Setup		? x	
	MENOSE-Mainframe Basic on Layout Paper/Quality Orientation Portrait Landscape Rotated Landscape Print on Both Sides(Duplex) None Flip on Short Edge Flip on Long Edge	Side 1		? X
Γ			Advance	ed
			OK Ca	ancel

• 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 **DK** 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

P	int Setup			<u>? ×</u>
6	Printer —			
1	Name:	\\Vam007\MCNOSC-Mainframe Basi	Properties	
Π	Status:	Ready		
	Туре:	HP LaserJet 8000 Series PS		
	Where:	Bldg 3255, Rm 122		
	Comment:			
	- Print to	file		
	File name			
			Browse	
	If file exists			-
	Ask User			
	1			
	🔲 Bypass V	/indows print driver		
Γ				
-	0	Cancel Network	Help	

• Mouse click on the **OK** 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

📾 msn-ftp_stl_di	sa_mil(PPRINTER)).rsf - WRQ Reflectio	on - IBM 💶 💌			
File Connection S	ietup Macro Wind	low Help				
Printer control Forms control Host control Test Page Hold Form feed PA1 Help Cancel Line feed PA2 Setup						
Flush Info						
Ready						
1,1 🖤	🔒 🛛 I	BM 3270 Printer				

• 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.

msn-ftp_stl_disa_mil(PPRINTER).rsf - WRQ Reflection	- IBM 💶 🗙
File Connection Setup Macro Window Help	
New Session	
Open	
Save msn-ftp_stl	Test Page
Save As	
Page Setup A1	Help
Print Setup A2	
Exit	Setup
1 Open msn-ftp_stl_disa_mil(PRINTER).rsf	Info
Status	
Ready	
Manage settings files, new sessions, transfers, and printing	

MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

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

🛤 msn-ftp_stl_disa_mil(PPRINTER).rsf - WR	Q Reflection -	IBM 💶 🗙
File Connection Setup Macro Window Help		
New Session		
Open		
Save msn-ftp_stl	ontrol —	Test Page
Save As		
Page Setup	A1	Help
Print Setup	A2	
Exit		Setup
1 Open msn-ftp_stl_disa_mil(PRINTER).rsf		Info
	-	
_ Status		
Ready		
Change the page layout options		

MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

Page Setup					
	Construction of the 10 A new 1 decrement of the second second second second second decrements of the second		-		OK Cancel
			-		Page Optio Defaults
P	_		_		Help
Paper					
Size:	Letter				
Source:	Automatical	y Select		•	
- Orientation	- Margir	ns (inches)			
C Portrait	Left	0.18	Right:	0.171	
• Landsca	ape Top:	0.5	Bottom:	0.5	

Duran Calvar C

- 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 Page Options... button and a second windows dialog screen will appear as shown below.

e Options		٥٢ <u>؟</u>
Text format Use printer fonts only	Cverride host page format	OK Cancel
Font	▼ Page Scaling	Defaults Help
Characters per line	Lines per page	
 € 80 € 132 		

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

Characters per line	Lines per page
C Auto	C Auto
C 80	© 56 ·
132	
C	

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 Page Scaling... button and a third windows dialog screen will appear as shown below.

Page Setup	<u> </u>
age Options	?)
e Scaling	1
Scaling Options	ОК
C No Scaling	Cancel
Scale the page size specified by the host to fit on the Windows printer page	Defaults
C Choose a host page size and scale it to fit on the Windows printer page	Help
Host page size	
Printer default	
C Use scaling factors for reduction or expansion	
Width (percent) Length (percent)	
100 - 100 -	
Override the orientation specified by the host	

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

MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

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

	<u>? ×</u>
	ον Ι <u>?</u>
Cverride host page format	OK Cancel Defaults
▼Page Scaling	Help
Lines per page	
 ✓ Auto ✓ 56 ÷ 	
	▼ Page Scaling Lines per page C Auto

MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

• Mouse click on the **OK** 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.

Page Setup		? ×				
	OK Cancel					
	No mental and the second secon	Page Options				
		Defaults				
_		Help				
Paper Size:						
Source: Aut	omatically Select 📃					
Orientation	Margins (inches)					
C Portrait	Left: 0.18 Right: 0.171					
C Landscape	Top: 0.5 Bottom: 0.5					
Override the orientation specified by the host						

MODIFYING PRINTER PROPERTIES TO PRINT LANDSCAPE

• Mouse click on the **OK** 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.

[®] msn-ftp_stl_d	isa_mil(PPRINTER).rsf - WRQ Reflect	ion - IBM 💶 🗙					
File Connection	Setup Macro Win	dow Help						
📗 🗅 😅 🔜 🕴								
Printer control Hold	Forms control Form feed Line feed	Host control PA1 PA2	Test Page Help Setup					
Flush]		Info					
Ready								
1,1 🗣	₿	IBM 3270 Printer						

IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

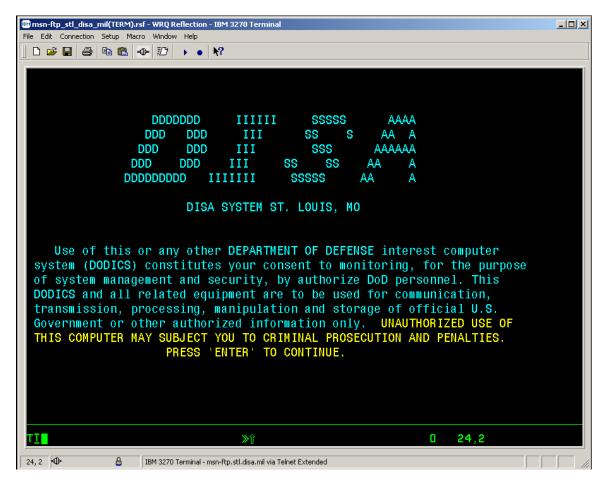
From the *DoD Warning / Site Selection* screen enter the two character site code associated with the mainframe domain you wish to access.

🛤 msn-ftp_stl_disa_mil(TERM).rsf - WRQ	Reflection - IBM 3270 Terminal			
File Edit Connection Setup Macro Windo	w Help			
	▶ ● \ {2			
(DODICS) CONSTITUTE FOR COMPUTER SECURI RELATED EQUIPMENT A PROCESSING, MANIPUL AUTHORIZED INFORMAT	S YOUR CONSENT TO M TY AND SYSTEM MANAG RE TO BE USED FOR T ATION, AND STORAGE	OF DEFENSE INTEREST ONITORING BY DOD AUT EMENT PURPOSES. THIS HE COMMUNICATIONS, T OF OFFICIAL U.S. GOV ZED USE OF THIS COMP IES.	HORIZED PERSONNEL DODICS AND ALL TRANSMISSION, /ERNMENT OR OTHER	
SB - QUANTICO SG - LEJEUNE SL - ASIMS-E SQ - ASIMS-C SV - RIA OA - SSO DAYTON OF - CCAD QJ - TYAD X - SNI MENU	SH - PENDLETON SM - ASIMS-W	SE - OKINAWA SI - ALBANY SO - ARDEC ST - AMCOM/SBCCOM SX - TEAD OD - ASIMS-H OH - CECOM QL - AMCOM-M	SF - KANSAS CITY SK - ASIMS-S SP - ARL SU - OSC-R SY - TACOM OE - ANAD OI - LEAD OR - NAMI	
HELPDESK DSN: 490-0000 COMM: 314-260-0000 TOLL FREE: 800-645-5032 ENTER SELECTION => SI				
<u>II</u>	≫û	0	24,66	
24, 66 🖤 🔒 IBM 3270) Terminal - msn-ftp.stl.disa.mil via Telnet Ex	tended		

'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

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.

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	
KLGLGON1 — Entry Validation — — — — — — — — — — — — — — — — — — —	
	n: AA0D
Time: 14:34:31 Device	e: ASNT3849
Identification:	
Userid	
Password Change Password ? <u>N</u> (Y or N	0
	,
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\$ŷ	
6, 30 🖤 🔒 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

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

IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

msn-ftp_stl_disa_mil(TERM) File Edit Connection Setup M D D	ursf - WRQ Reflection - IBM 3270 Terminal acro Window Help -⊕- 120 → ● \?		
<u>A</u> ctions	<u>O</u> ptions <u>C</u> ommands <u>F</u> eatures	<u>H</u> elp	
KLSVSEL1	CL/SUPERSESSION Mai	n Menu	More: +
Select session	s with a "/" or an action code		
Session ID	Description	Туре	Status
 TS0 ROSCOE ALACICS ALACICS2 ALACICSD ASICIT00 ALAINFO ALAINFPM OKRCICS OKRCICS2 OKRINFO OKRINFPM 	TSO ROSCOE ALA CICS PRODUCTION ALA CICS PRODUCTION ALA CICS DEVELOPMENT CICS/ADABASE OKR TEST ALA INFOPAC RDS ALA INFOPAC MAINTENANCE OKR CICS PRODUCTION OKR CICS2 PRODUCTION OKR INFOPAC RDS OKR INFOPAC MAINTENANCE	Multi Multi Multi Multi Multi Multi Multi Multi Multi Multi	
Command ===> Enter F1=Help	F3=Exit F5=Refresh F8=Fwd	F9=Retrieve	AA0D/ASNT3849 F10=Action
TI 9,2 Ф В	₩Î		0 9,2

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

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.

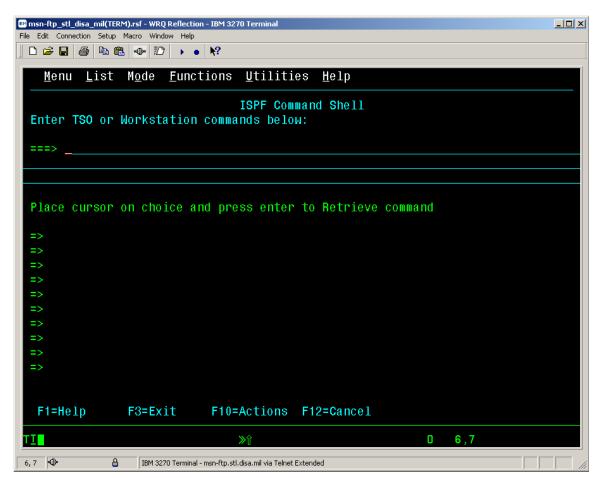
ISPF Primary Option MenuOption ===>0 SettingsA Production Products Menu1 View (Browse) B Site Specific Applications Menu2 EditC Systems Maint Products Menu3 UtilitiesD Online Documentation Menu4 ForegroundI InfoMgt/Tivoli Service Desk5 BatchS SDSF6 CommandT TASO Menu7 Dialog TestU TSO Utility Commands8 LM Facility9 SCLMLicensed Materials - Property of IBM S647-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 Corp9077	D ≥ ■ ● ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ Menu <u>U</u> tilities <u>C</u> ompilers <u>O</u> ptions <u>S</u> tatus <u>H</u> elp	
 1 View (Browse) B Site Specific Applications Menu 2 Edit C Systems Maint Products Menu 3 Utilities D Online Documentation Menu 4 Foreground I InfoMgt/Tivoli Service Desk 5 Batch S SDSF 6 Command T TASO Menu 7 Dialog Test U TSO Utility Commands 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 Py GSA ADP Schedule Contract With IBM Corp. 1 Time: 15:03 7 Time: 15:03 8 LM Facility 9 SCLM 7 So Utility Commands 7 So prefix: TSOMSB 7 System ID: MSI0 9 NSI0 9 NSI 9 NSI 9 Solution of the store of the st	Option ===>	
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.	1View (Browse) BSite Specific Applications Menu2EditCSystems Maint Products Menu3UtilitiesDOnline Documentation Menu4ForegroundIInfoMgt/Tivoli Service Desk5BatchSSDSF6CommandTTASO Menu7Dialog TestUTSO Utility Commands8LM Facility	Time : 15:03 Terminal. : 3278 Screen : 1 Language. : ENGLISH Appl ID . : ISR TSO logon : TSOSYS TSO prefix: TSOMSB System ID : MSI0 MVS acct. : Z1GGB001
	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.	NETERSE , ISEL 2.0

IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

Option ===> Enter '6' on the Option line • 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 D 🚅 🖬 🎒 🖻 🛍 🐠 D 🕟 🔹 🕅 Menu Utilities Compilers Options Status Help **ISPF Primary Option Menu** Option ===> <u>6</u>_____ User ID . : G9MP03 0 Settings Production Products Menu А Time. . . : 15:44 Terminal. : 3278 Site Specific Applications Menu 1 View (Browse) B Systems Maint Products Menu 2 Edit С Screen. . : 1 Language. : ENGLISH 3 D Utilities **Online Documentation Menu** 4 Foreground Ι InfoMgt/Tivoli Service Desk 5 Batch S SDSF Appl ID . : ISR TSO logon : TSOSYS 6 Command Т TASO Menu 7 Dialog Test U TSO Utility Commands TSO prefix: TSOMSB 8 LM Facility System ID : MSI0 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 **≫**îî 0 4,15 ΤI 4,15 👁 8 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended

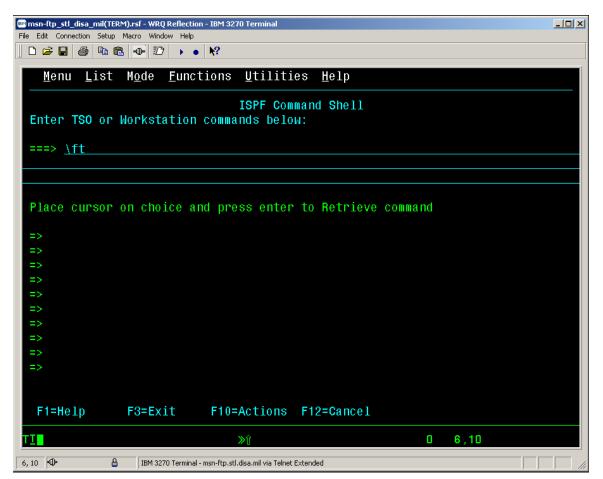
IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

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



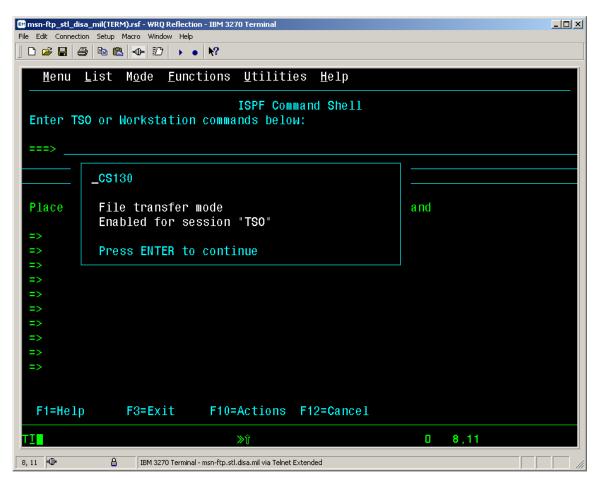
IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

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



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.

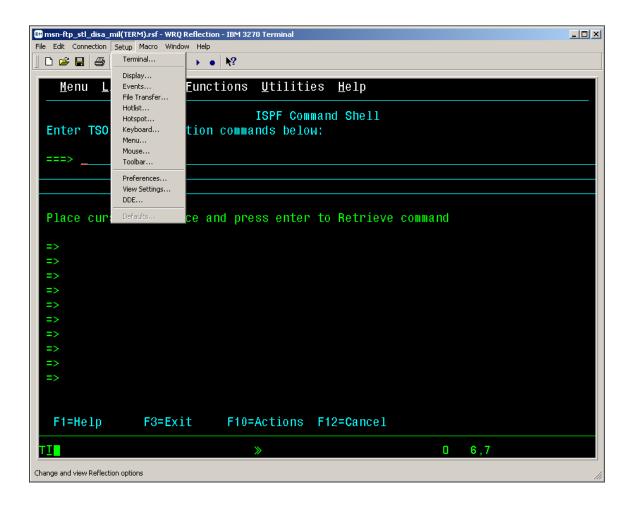
IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal File Edit Connection Setup Macro Window Help	
$\square \square $	
<u>M</u> enu <u>L</u> ist M <u>o</u> de <u>F</u> unctions <u>U</u> tilities <u>H</u> elp	
ISPF Command Shell	
Enter TSO or Workstation commands below:	
===>	
Place cursor on choice and press enter to Retrieve command	
=>	
=>	
=>	
=>	
=>	
=>	
=>	
=>	
F1=Help F3=Exit F10=Actions F12=Cancel	
T <u>I</u> ≫û 0 6,7	
6, 7 🗣 🔒 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

• 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.

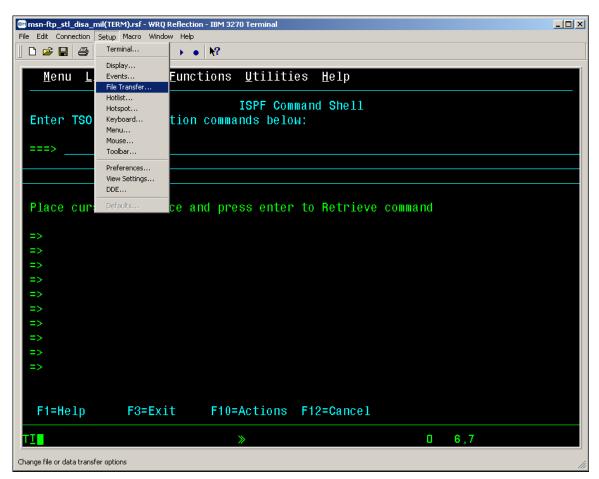
IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

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



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.



IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

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

🐨 msn-ftp_sti_disa_mil(TERM).rsf - WRQ Reflex File Edit Connection Setup Macro Window He		<u> </u>
	nctions <u>U</u> tilities <u>H</u> elp	
Enter TSO or Workstati	ISPF Command Shell	
===>	IND\$FILE AS/400 Translation Templates Active protocol: IND\$FILE	
	IND\$FILE Settings	
Place cursor on choice	System: TSO Max field size: 4k Max	
=>	Startup command: IND\$FILE	
=>	Advanced Response: 300 ÷	
=>		
=>		
=>	Defents 1	
=>	Defaults	
=>	OK Cancel Apply Help	
F1=Help F3=Exit	F10=Actions F12=Cancel	
TI	» D 6,7	
6.7 40 A IBM 3270 Term	inal - msn-ftn. stl.disa.mil via Telnet Extended	

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: IND\$FILE

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

IND\$FILE AS/400 Translation Templates Active protocol: IND\$FILE IND\$FILE Settings Host System: TSO Startup command: IND\$FILE Timeout (in seconds) Startup: 300
IND\$FILE Settings Host System: TSO Startup command: IND\$FILE Structured field transfer Max field size: 4k Timeout (in seconds)
Host System: TSO Startup command: IND\$FILE
Advanced Response: 300

seconds.

•

IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

- Once all the options described above are set on the 'IND\$FILE' tab of the 'Transfer Setup' • Apply dialog windows pop-up screen, mouse click on the button. ΟK Apply 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. 🛤 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal - O × File Edit Connection Setup Macro Window Help D 🛩 🖬 🎒 🛍 🛍 🐠 🕖 🔸 🔹 📢 <u>M</u>enu <u>L</u>ist M<u>o</u>de <u>F</u>unctions <u>U</u>tilities <u>H</u>elp **ISPF Command Shell** Enter TSO or Workstation commands below: ===> Place cursor on choice and press enter to Retrieve command F10=Actions F12=Cancel F1=Help F3=Exit **≫**ŷ 6,7 0 6,7 **D** a IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended
- 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.

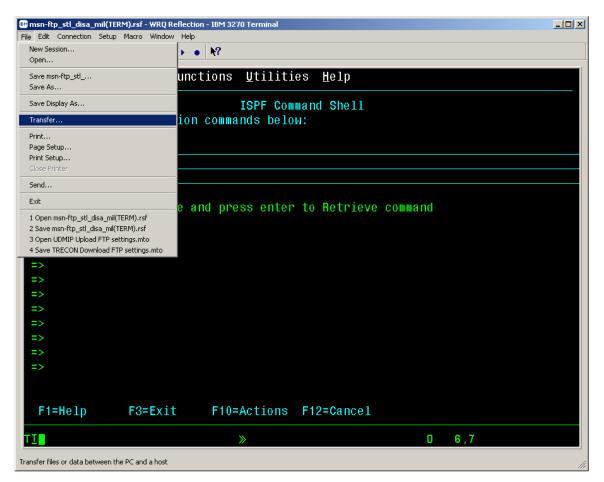
IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

• 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.

msn-ftp_stl_disa_mil(TE File Edit Connection Setup				<u>_ </u>
New Session Open		• •		
Save msn-ftp_stl Save As	u	nctions <u>U</u> tiliti	es <u>H</u> elp	
Save Display As		ISPF Com	mand Shell	
Transfer	i	on commands belo	W :	
Print Page Setup Print Setup				
Close Printer	_			
Send				
Exit		and press enter	to Retrieve command	
1 Open msn-ftp_stl_disa_mil(2 Save msn-ftp_stl_disa_mil(3 Open UDMIP Upload FTP se 4 Save TRECON Download F1	TERM).rsf ettings.mto			
=> =>				
=>				
=>				
=>				
=>				
=>				
F1=Help	F3=Exit	F10=Actions	F12=Cancel	
TI		»	0	6,7
Manage settings files, new sessi	ons, transfers, and pri	ntina		

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

File Edit Connection Setup Mac	sf - WRQ Reflection - IBM 3270 Terr ro Window Help ⊕= 😰 🕨 ► ● 💦	minal		_ _ N	
<u>M</u> enu <u>L</u> ist M	ode <u>F</u> unctions <u>U</u> t				
Enten TOO on U	Transfer	E Command Of			
Enter TSO or Wo ===>	Local file names:	Transfer	TSO Host Name(Member)/Password:		
Place cursor or		Transfer method: Binary 💌 If file exists: Overwrite 💌	TSO msriftp.stl.disa.mil		
=> => => =>	Local directories: d:\ my documents	Record format: Fixed Transfer request Open Save	Show host files		
	Drives:	Setup Help Close			
6,7 Ф A	TI D 6,7 6,7 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended Image: Control of the second sec				

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

Transfer			<u> </u>
Local file names:	Transfer Transfer method: Binary T If file exists: Overwrite T Record format:	TSO Host Name(Member)/Password: TSO msn-ftp.stl.disa.mil Show host files	
Local directories: d:\ d:\ my documents Drives:	Fixed Transfer request Open Save Setup Help		
	Close		

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.

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.

Transfer method:				
Binary 💌				
If file exists:				
Overwrite 💌				
Record format:				
Fixed 💌				
Transfer request				
Open				
Save				
Setup				
Help				
Close				

Transfer method: Binary

The '*Transfer method:*' I 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.

Transfer method:	
Binary	•
ASCII	
Binary	



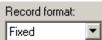
• The next drop down box, the '*If file exists:*' controls the file transfer disposition of the file being '**RECEIVED**' if this exact file name already exists on the destination machine whether it be the mainframe or personal computer. This parameter can be set to the following options via the arrow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

If file exists:	
Overwrite	•
Append	
Ask User	
Open Error	
Overwrite	

•

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:*' I 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.

		Transfer request	
		Open	
		Save	Open
•	The 'Transfer request'	L	dialog box allow you to a previously
	'saved' Reflection's tra transfer request for futu	nsfer request file or t	Save

IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

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

Transfer - C:\Documents and Settings\TomilsonDW\My Documents\Reflec	tion\TR 💶 🗙
Local file names:	Password:
Open Transfer Request File	<u>?×</u>
Look in: 🔁 Reflection 📃 🖛 🛍 📸 📰 🗸	
TRECON Download FTP settings UDMIP Upload FTP settings	Open Cancel Help
File name: TRECON Download FTP settings	
Files of type: File Transfer	
Image: recycler Image: recycler Drives: Help Image: recycler Close	

• 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	Upen	button to
open that transfer request file.		

- Once you have mouse clicked on the 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.

	File name:	TRECON Download FTP settings
--	------------	------------------------------

IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION

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

Transfer - C:\Documents and Settings\TomilsonDW\My Documents\Reflec	tion\TR 💶 🗙
Local file names:	Password:
Save Transfer Request File	<u>? ×</u>
Save in: 🔁 Reflection 💽 🖛 🛍 📸 🖬 🛪	
TRECON Download FTP settings	Save
UDMIP Upload FTP settings	Cancel
	Help
File name: UDMIP Upload FTP settings	
Save as type: File Transfer	
Drives: Help Close	

- 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 Save button to save this transfer request file.
- Once you have mouse clicked on the Save 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.

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.

Transfer		
Local Local file names:	Transfer	TSO Host Name(Member)/Password:
	Transfer method: Binary If file exists: Overwrite Record format: Fixed	TSO msn-ftp.stl.disa.mil Show host files
Local directories: d:\ d:\ my documents	Transfer request Open Save	
Drives:	Setup Help Close	

• 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

Transfer	Transfer Setup	? X	
Local file nam	IND\$FILE AS/400 Translation Templates Active protocol: IND\$FILE IND\$FILE IND\$FILE Settings Structured field transfer Host Structured field transfer System: Max field size: TSO 4k Startup command: Image: Command:		rd:
Local director d:\ d:\ my do Drives:	IND\$FILE Timeout (in seconds) Advanced Startup: 300 ÷ Response: 300 ÷ Defaults		·S
🖃 d:	OK Cancel Apply He	lp	

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.

			ΓH	ost ———		
			S	iystem:		
the	Active protocol: IND\$FILE		F	TSO	~	
ine		- and				p

Note: That the potential 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

	Advanced	
covered is the		button.

Transfer Setup	<u>? ×</u>
IND\$FILE AS/400 Translation T Active protocol: IND IND\$FILE Settings Host System: TSO Startup command: IND\$FILE Advanced	Templates
	Defaults
OK Cancel	Apply Help

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

Transfer Setup		? ×		
IND\$FILE AS/400 Translat	tion Templates			
TSO Advanced Options		<u>?</u> ×		
Dataset options Logical record length:	Space allocation Allocation units: Default Average block: Primary: Secondary:	OK Cancel Defaults Help		
Additional IND\$FILE parameters: OK Cancel Apply Help				

<u>IND\$FILE FILE TRANSFER FROM CL/SUPERSESSION</u>

• 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 Help 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.

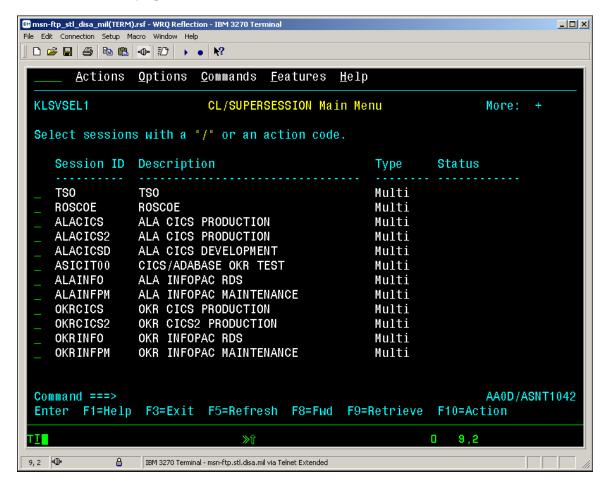
CR/LF processing	_
ASCII file CR/LF	
Binary file CR/LF	

• 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.

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).

- 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*.



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

File Edit Connection Setup Macro Window Help	
<u>Menu Utilities Compilers Options Status Help</u> ISPF Primary Option Menu Option ===> _	
 O Settings A Production Products Menu View (Browse) B Site Specific Applications Menu Edit C Systems Maint Products Menu Utilities D Online Documentation Menu Foreground I InfoMgt/Tivoli Service Desk 5 Batch S SDSF 6 Command T TASO Menu 7 Dialog Test U TSO Utility Commands 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. F1=Help F3=Exit F10=Actions F12=Cancel 	Terminal. : 3278 Screen : 1
TT∎ ≫û	0 4.14

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

🕼 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal	<u> </u>
File Edit Connection Setup Marco Window Help □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ ■	
<u>M</u> enu <u>L</u> ist M <u>o</u> de <u>F</u> unctions <u>U</u> tilities <u>H</u> elp	
ISPF Command Shell	
Enter TSO or Workstation commands below:	
Place cursor on choice and press enter to Retrieve command	
=>	
=>	
=>	
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=>	
=>	
F1=Help F3=Exit F10=Actions F12=Cancel	
TI	
6, 7 🖤 🔒 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

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

mosn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal File Edit Connection Setup Macro Window Help	<u>_ 0 ×</u>
<u>M</u> enu <u>L</u> ist M <u>o</u> de <u>F</u> unctions <u>U</u> tilities <u>H</u> elp	
TOPE Command Oball	
ISPF Command Shell Enter TSO or Workstation commands below:	
===> <u>\FT_</u>	
Place cursor on choice and press enter to Retrieve command	
=>	
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=>	
=>	
=>	
F1=Help F3=Exit F10=Actions F12=Cancel	
T <u>I</u> ≫û 0 6,10	
6, 10 🖤 🔒 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

• 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*'.

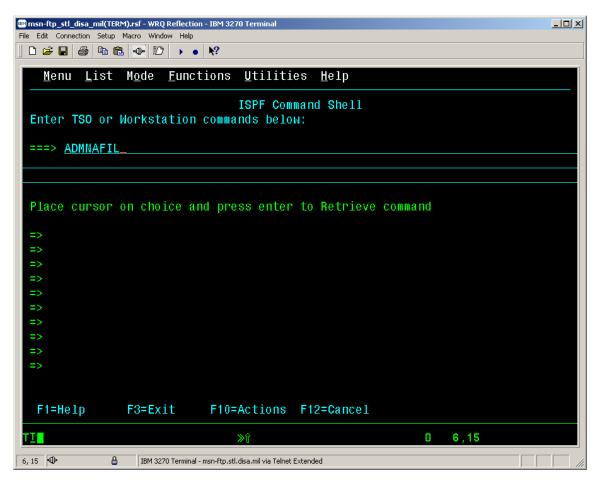
	sa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal		_ 🗆 ×
En	ion Setup Macro Window Help 월 № 100-120 → ● №?		
<u>M</u> enu	<u>L</u> ist M <u>o</u> de <u>F</u> unctions <u>U</u> tilities <u>H</u> elp		
	ISPF Command Shell		
Enter R	SO or Workstation commands below:		
===>			
	CS130		
Place	File transfer mode	and	
1 1400	Enabled for session "TSO"		
=>			
=>	Press ENTER to continue		
=>			
=>			
=>			
=>			
=>			
=>			
F1=Help	F3=Exit F10=Actions F12=Cancel		
TI	≫ û	0 8,11	
8,11 🖤	BM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended		

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

📾 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal	
File Edit Connection Setup Macro Window Help	
<u>M</u> enu <u>L</u> ist M <u>o</u> de <u>F</u> unctions <u>U</u> tilities <u>H</u> elp	
TOPE Command Oball	
ISPF Command Shell Enter TSO or Workstation commands below:	
Litter 150 of workstation commands below.	
===>	
Diana summer an choice and proce optop to Detpicys command	
Place cursor on choice and press enter to Retrieve command	
=>	
=>	
=>	
=>	
=>	
=>	
=>	
=>	
F1=Help F3=Exit F10=Actions F12=Cancel	
T <u>I</u> ≫û □ 6,7	
6, 7 🖤 🔒 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

<u>UNIT DIARY UPLOADS</u>

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



• 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.

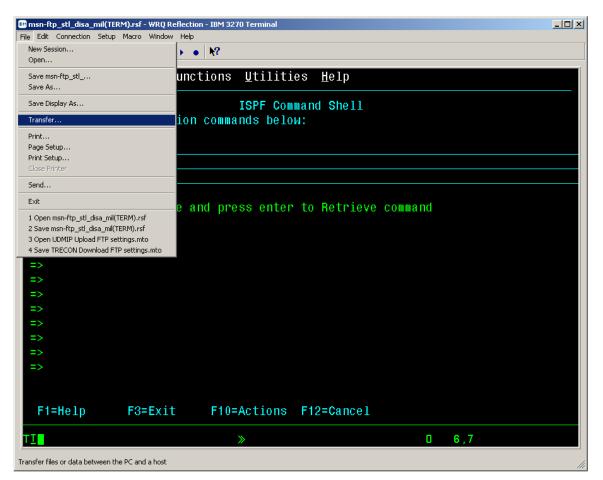
💷 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal	
File Edit Connection Setup Macro Window Help	
<u>M</u> enu <u>L</u> ist M <u>o</u> de <u>F</u> unctions <u>U</u> tilities <u>H</u> elp	
ISPF Command Shell Enter TSO or Workstation commands below:	
===> ADMNAFIL	
Place cursor on choice and press enter to Retrieve command	
=>	
=>	
=>	
=>	
=>	
=>	
=>	
=>	
=> PLEASE LOAD TO 'QUANC.G9MP03.TFSOLDS.UPLOAD' ***	
TI	
22, 6 🕪 🔒 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

- 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.

• 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.

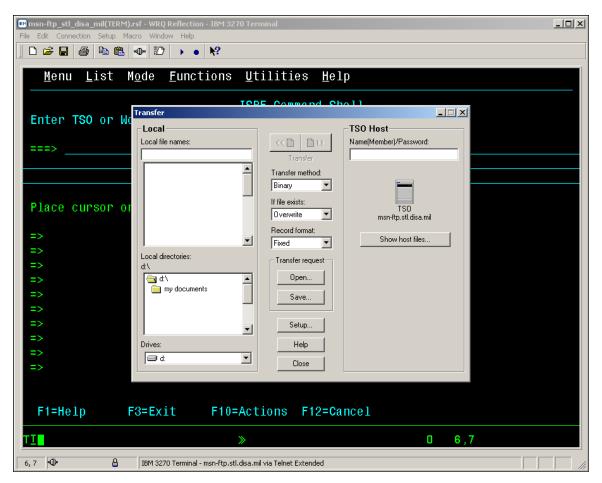
📴 msn-ftp_stl_disa_mil(TERM).rsf - W		_ 🗆 ×
File Edit Connection Setup Macro W New Session Open		
Save msn-ftp_stl Save As	unctions <u>U</u> tilities <u>H</u> elp	
Save Display As	ISPF Command Shell	
Transfer	ion commands below:	
Print Page Setup Print Setup Close Printer		
Send		
Exit	e and press enter to Retrieve command	
1 Open msn-ftp_stl_disa_mil(TERM).rsf 2 Save msn-ftp_stl_disa_mil(TERM).rsf 3 Open UDMIP Upload FTP settings.mto 4 Save TRECON Download FTP settings.m		
=>		
=>		
=>		
=>		
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=>		
	xit F10=Actions F12=Cancel	
TI	» 0 6,7	
Manage settings files, new sessions, transfer	rs, and printing	

• 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.



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.

Transfer			
Local Local file names:	<< □ □ ►► Transfer	TSO Host Name(Member)/Password:	
	Transfer method: Binary	TSO	
Local directories:	Overwrite Record format: Fixed	msn-ftp.stl.disa.mil	
d:\	Transfer request		
Drives:	Setup Help Close		

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.

Transfer			_ 🗆 🗙
Local Local file names: 54879_2003_00057.ZIP	↓↓ Transfer	TSO Host Name(Member)/Password:	
54879_2003_00057.ZIP	Transfer method: Binary If file exists: Overwrite Record format: Fixed	TSD msn-ftp.stl.disa.mil Show host files	
Local directories: d:\ d:\ my documents	Transfer request Open Save		
Drives:	Setup Help Close		

• 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.

Local	
Local file names:	
54879_2003_00057.ZIP	
54879_2003_00057.ZIP	
	•
Local directories: d:\	
d:\ my documents	
	-
Drives:	
) 🗇 d:	•

• 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.

Transfer - C:\Documents and Setti	ings\TomilsonDW\My Do	cuments\Reflection\UD 💶 🛛 🗙
Local	1	TSO Host
Local file names:	40 D>>	Name(Member)/Password:
54879_2003_00057.ZIP	Transfer	'quanc.g9mp03.tfsolds.upload'
54879_2003_00057.ZIP	Transfer method:	
	Binary 💌	
	If file exists:	
	Overwrite 💌	TSO msn-ftp.stl.disa.mil
	Record format:	
<u> </u> <u>−</u>	Fixed 💌	Show host files
Local directories: d:\	Transfer request	
d. \	Open	
my documents	Save	
-		
	Setup	
Drives:	Help	
	Close	

- 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.

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

	Transfer Setup	?× 0 = 🗆 ×
Local file nam 54879_2003 54879_2003	IND\$FILE AS/400 Translation Templates Active protocol: IND\$FILE	rd: upload'
Local director d:\ d:\ my do Drives: d:	IND\$FILE Settings Host System: TSO Startup command: IND\$FILE Advanced Advanced Defaults OK Cancel Apply He	

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.

			System:		
t the	Active protocol: IND\$FILE	and	TSO	v	,

Note: That the 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

button.

covered is the

IND\$FILE AS/400 Translation Templates Active protocol: IND\$FILE Implates IND\$FILE Settings Implates Host Structured field transfer System: Max field size: TSO Implates Startup command: Timeout (in seconds) Advanced Startup: 300 Mesponse: 300 Implates	Transfer Setup	? ×			
Advanced Startup: 300 + Response: 300 +	IND\$FILE AS/400 Translation Templates Active protocol: IND\$FILE IND\$FILE IND\$FILE Settings Structured field transfer Host Structured field transfer System: Max field size: TSO Image: Structured field transfer Startup command: Time to find the structure of the structu				
OK Cancel Apply Help	Advanced	Startup: 300 ÷ Response: 300 ÷ Defaults			

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

Transfer Setup		? ×
IND\$FILE AS/400 Translat	ion Templates	
TSO Advanced Options		<u>?×</u>
Dataset options Logical record length:	Space allocation Allocation units: Default	OK Cancel
Block size:	Average block:	Defaults Help
CR/LF processing CR/LF processing Sinary file CR/LF Additional IND\$FILE parameters:	Primary: Secondary:	
ОК Са	Apply	Help

• 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	Help	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.

- CR/LF processing
ASCII file CR/LF
Binary file CR/LF

- 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 popup screen should be left as shown in the example below.

UNIT DIARY UPLOADS

Transfer - C:\	Transfer Setup	
Local file nam 54879_2003 54879_2003 S4879_2003 Local director d:\ Cocal director d:\ my do	IND\$FILE AS/400 Translation Templates T50 Advanced Options Dataset options Allocation Logical record length: Default Image: Default Block size: Average block: Image: Default Image: Default CR/LF processing Average block: Image: Default Image: Default Image: Default CR/LF processing Primary: Image: Default Image: Default	? * OK upload* Defaults .mil Help s
Drives:	OK Cancel Apply	

Once you have performed all the actions described above, click the

button to close

the *TSO Advanced Options*' dialog window, followed by clicking the **DK** button on the '*Transfer Setup*' dialog window to close it. At this point your screen should appear as shown below.

Transfer - C:\Documents and Settin	ngs\TomilsonDW\My Do	cuments\Reflection\UD 💶 🗙
Local		TSO Host
Local file names:	40 D>	Name(Member)/Password:
54879_2003_00057.ZIP	Transfer	'quanc.g9mp03.tfsolds.upload'
54879_2003_00057.ZIP	Transfer method:	
	Binary 💌	
	If file exists:	TCO
	Overwrite 💌	TSO msn-ftp.stl.disa.mil
	Record format:	
	Fixed 💌	Show host files
Local directories: d:\	Transfer request	
d.\ [] d:\	Open	
iny documents	Save	
_	Setup	
Drives:	Help	
Dives.		
	Close	

• 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.

• At this point he file transfer process will begin as shown below.

	-ftp_stl_disa dit Connection			flection - IBM 3270 Ter	minal				_ 🗆 🗙
L	🛩 日 🧉		0-10	▶ ● № ?					
			Local Local	:\Documents and Settii mes: 13.0006771P	ıgs∖TomilsonDW\My De	TSO Host Name(Member)/Pa:	ssword:	J	
			54879_200	03_0016771P 03_0 Transfer in Progre	55	l'ouanc o9mp03.tfs	olds.upload		
			04010_20	Sen	ding D:\54879_2003_0005 'quanc.g9mp03.tfsolds.uplo		disa.mil		
				4,080 sent	0:00	5,672 characters	: files		
			Local direct d:\ d:\ d:\ data data	ories: Sending data to ho IND\$FILE Structure 21	st d Field Protocol - 4k				
			my c pes recy		Cancel				
			Drives:		Help Close				
21, 1	⊕	8	IBM 3270 T	erminal - msn-ftp.stl.disa.m	il via Telnet Extended				

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

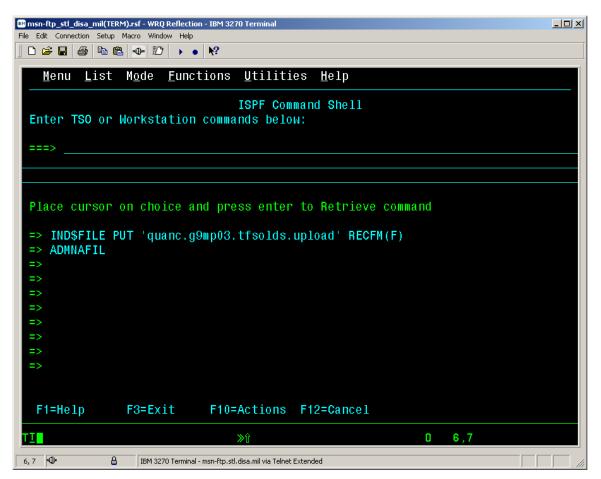
Transfer - C:\Doc	cuments and Settings\TomilsonDW\My Documents\Reflection	\UD 💶 🗙
Local file names:	1057.ZIP	
54879 2003 0	Transfer in Progress	
	Sending D:\54879_2003_00057.ZIP to 'quanc.g9mp03.tfsolds.upload'	
		isa.mil
	4,080 sent 0:00 5,672 characters if	files
Local directories: d:\ d:\ d:\ data21 mobius		
my docun pes recycler	Cancel	
Drives:	Help Close	

UNIT DIARY UPLOADS

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

Transfer - C:\Documents and Settin	ngs\TomilsonDW\My Do	cuments\Reflection\UD 💶 🛛 🗙
Local		TSO Host
Local file names:	<10 D>>	Name(Member)/Password:
54879_2003_00057.ZIP	Transfer	'quanc.g9mp03.tfsolds.upload'
54879_2003_00057.ZIP	Transfer method: Binary	
	If file exists: Overwrite	TSO msn-ftp.stl.disa.mil
-	Record format: Fixed	Show host files
Local directories: d:\	Transfer request	
[€] d\	Open	
my documents	Save	
_	Setup	
Drives:	Help	
	Close	

• Mouse click on the **Close** 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.



• 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.

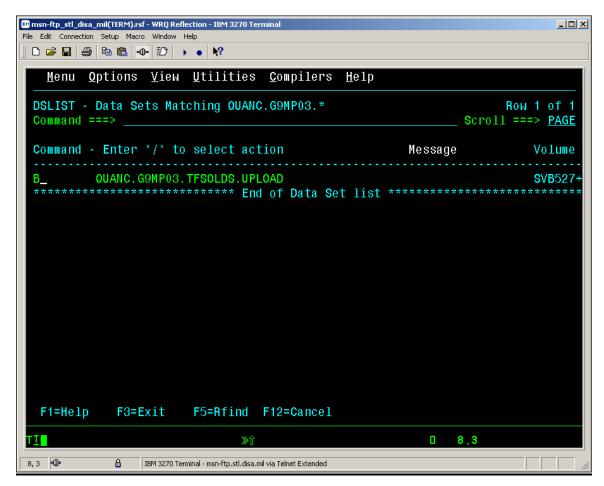
ISPF Primary Option Menu	
SettingsAProduction Products MenuView (Browse)BSite Specific Applications MenuEditCSystems Maint Products MenuUtilitiesDOnline Documentation MenuForegroundIInfoMgt/Tivoli Service DeskBatchSSDSFCommandTTASO MenuDialog TestUTSO Utility CommandsLM FacilitySCLMOWorkplaceSN 693-9077/Commercial (314)263-9077	User ID . : G9MP03 Time : 13:53 Terminal. : 3278 Screen : 1 Language. : ENGLISH Appl ID . : ISR TSO logon : TSOSYS TSO prefix: TSOMSB System ID : MSI0 MVS acct. : Z1GGB001 Release . : ISPF 5.0

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*

- ISU Host
Name(Member)/Password:
<i>data set name</i> ' box as shown here ^['quanc.g9mp03.tfsolds.upload'] from the ' <i>Transfer</i> ' dialog
nom die Transfer allang
window and press the <enter> key.</enter>
📾 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal
File Edit Connection Setup Macro Window Help
<u>M</u> enu <u>R</u> efList R <u>e</u> fMode <u>U</u> tilities <u>H</u> elp
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:
Dsname Level <u>QUANC.G9MP03.*</u>
Volume serial
Data set list options
Initial View <u>1</u> 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
T <u>I</u> ≫∛ 0 10,24
10, 24 🕪 🔒 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended CAP

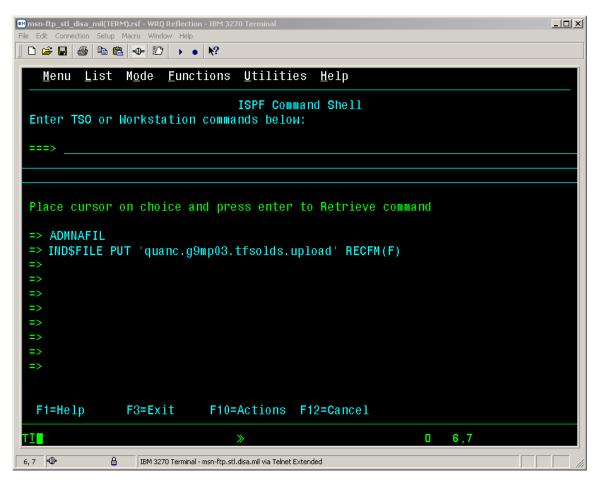
• All data sets matching the qualifier will be displayed. Enter a 'b' in the command area for the data set containing the unit diary uploaded information.



• 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	
<u>M</u> enu <u>U</u> tilities <u>C</u> ompilers <u>H</u> elp	
	===> <u>PAGE</u>
<pre>************************************</pre>	16 ₩4 D\+.U.
F1=Help F3=Exit F5=Rfind F12=Cancel	
TI ≫î 0 4,15	
4, 15 ♥⊕ 🔒 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

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



- 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.

🕼 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal	
File Edit Connection Setup Macro Window Help	
<u>M</u> enu <u>L</u> ist M <u>o</u> de <u>F</u> unctions <u>U</u> tilities <u>H</u> elp	
ISPF Command Shell Enter TSO or Workstation commands below:	
===> <u>ADMNUPLD</u>	
Place cursor on choice and press enter to Retrieve command	
=> ADMNAFIL	
<pre>=> IND\$FILE PUT 'quanc.g9mp03.tfsolds.upload' RECFM(F) =></pre>	
=>	
=>	
IKJ56274A ENTER INPUT JOB STREAM: IKJ56250I JOB G9MP03#\$(JOB04565) SUBMITTED	
*** _	
TI	
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.

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*.

	rsf - WRQ Reflection - IBM 3270 Terminal		
File Edit Connection Setup Ma	· · · · · · · · · · · · · · · · · · ·		
D 🛩 🖬 🎒 🖻 🛍	-⊕- 12 → • № ?		
Actions	<u>O</u> ptions <u>C</u> ommands <u>F</u> eatures <u>H</u> el	p	
	<u></u>		
KLSVSEL1	CL/SUPERSESSION Main M	enu	More: +
Select sessions	with a "/" or an action code.		
Occupier TD	Description	T	Otatus
Session ID	Description	Туре	Status
TSO	TS0	Multi	
	ROSCOE	Multi	
	ALA CICS PRODUCTION	Multi	
	ALA CICS PRODUCTION	Multi	
	ALA CICS DEVELOPMENT	Multi	
	CICS/ADABASE OKR TEST	Multi	
	ALA INFOPAC RDS	Multi	
	ALA INFORAC MAINTENANCE	Multi	
	OKR CICS PRODUCTION	Multi	
	OKR CICS2 PRODUCTION	Multi	
	OKR INFOPAC RDS	Multi	
	OKR INFOPAC MAINTENANCE	Multi	
		marci	
Command ===>			AA0D/ASNT1042
	F3=Exit F5=Refresh F8=Fwd F9	=Retrieve	
TI	≫û		0 9,2
9, 2 🗣 🔒	IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended		

TRECON FILE DOWNLOAD

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

Image: msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal File Edit Connection Setup Macro Window Help Image: I	
<u>Menu Utilities Compilers Options Status Help</u> ISPF Primary Option Menu Option ===> _	
0 Settings A Production Products Menu 1 View (Browse) B Site Specific Applications Menu 2 Edit C Systems Maint Products Menu 3 Utilities D Online Documentation Menu 4 Foreground I InfoMgt/Tivoli Service Desk 5 Batch S SDSF 6 Command T TASO Menu 7 Dialog Test U TSO Utility Commands 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. F1=Help F3=Exit F10=Actions F12=Cancel	
	0 4,14

TRECON FILE DOWNLOAD

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

🖼 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal	_ 🗆 X
File Edit Connection Setup Macro Window Help	
<u>M</u> enu <u>L</u> ist M <u>o</u> de <u>F</u> unctions <u>U</u> tilities <u>H</u> elp	
ISPF Command Shell	
Enter TSO or Workstation commands below:	
>	
Place cursor on choice and press enter to Retrieve command	
=>	
=>	
=>	
=>	
=>	
=>	
=>	
F1=Help F3=Exit F10=Actions F12=Cancel	
TTENETP TOELATE TTOEACTIONS TTZ-Cancer	
T∐ ≫û 06,7	
6, 7 🖤 🔒 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

TRECON FILE DOWNLOAD

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

📾 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal	_ 🗆 ×
File Edit Connection Setup Macro Window Help	
<u>M</u> enu <u>L</u> ist M <u>o</u> de <u>F</u> unctions <u>U</u> tilities <u>H</u> elp	
ISPF Command Shell	
Enter TSO or Workstation commands below:	
===> <u>\FT_</u>	
Place cursor on choice and press enter to Retrieve command	
=>	
=>	
=>	
=>	
=>	
=>	
=>	
->	
F1=Help F3=Exit F10=Actions F12=Cancel	
6, 10 🖤 A IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

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*'.

	sa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal		<u>_ [] ×</u>
F-10	ion Setup Macro Window Help ∰ 😰 💼 🚽 🖅 🕨 ● 🕅		
<u>M</u> enu	<u>L</u> ist M <u>o</u> de <u>F</u> unctions <u>U</u> tilities <u>H</u> elp		
Enter TS	ISPF Command Shell SO or Workstation commands below:		
===>			
	CS130		
Place	File transfer mode	and	
=>	Enabled for session "TSO"		
=>	Press ENTER to continue		
=>			
=>			
=>			
=>			
=>			
F1=Help	p F3=Exit F10=Actions F12=Cancel		
TI	≫ û	0 8,11	
8, 11 🗣	BM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended		

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

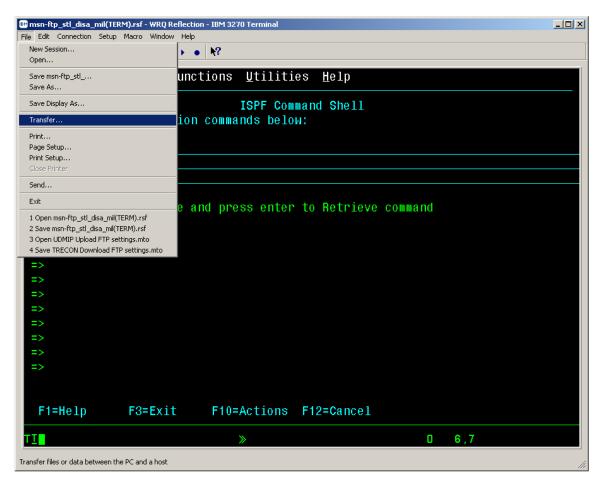
	<u>_ </u>
File Edit Connection Setup Macro Window Help	
<u>M</u> enu <u>L</u> ist M <u>o</u> de <u>F</u> unctions <u>U</u> tilities <u>H</u> elp	
ISPF Command Shell Enter TSO or Workstation commands below:	
===>	
Place cursor on choice and press enter to Retrieve command	
=>	
=>	
=>	
=>	
=>	
=>	
=>	
=>	
=>	
=>	
F1=Help F3=Exit F10=Actions F12=Cancel	
T∐ ≫î 0 6,7	
6, 7 🕪 🔒 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

• 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.

• 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.

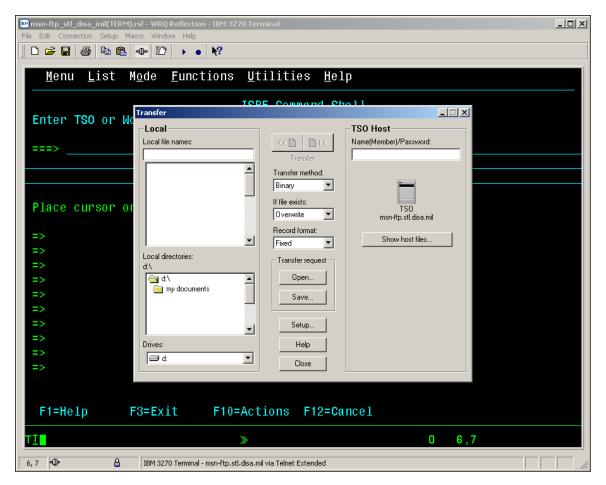
🖼 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Re		
File Edit Connection Setup Macro Window New Session Open		
Save msn-ftp_stl Save As	unctions <u>U</u> tilities <u>H</u> elp	
Save Display As	ISPF Command Shell	
Transfer	ion commands below:	
Print Page Setup Print Setup Close Printer		
Send		
Exit	e and press enter to Retrieve command	
1 Open msn-ftp_stl_disa_mil(TERM).rsf 2 Save msn-ftp_stl_disa_mil(TERM).rsf 3 Open UDMIP Upload FTP settings.mto 4 Save TRECON Download FTP settings.mto		
=>		
=>		
=>		
=>		
=>		
=>		
F1=Help F3=Exit	F10=Actions F12=Cancel	
TI	» D 6,7	
Manage settings files, new sessions, transfers, and		

• 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.



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.

Transfer			- 🗆 🗙
Local Local file names:	<<	TSO Host Name(Member)/Password:	
	Transfer method: Binary If file exists: Overwrite Record format: Fixed	TSO msn-ftp.stl.disa.mil Show host files	
Local directories: d:\ d:\ my documents	Transfer request Open Save		
Drives:	Setup Help Close		

 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.

TSO Host
Name(Member)/Password:
kctshare.onln.t7047trj.mqg.ruc303

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.

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.

Local	
Local file names:	
trecon.zip	
Local directories:	
d:\ Image: my documents	
Drives:	
🖃 d:	

- 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*'.

Transfer		
Local		TSO Host
Local file names:	40 D>>	Name(Member)/Password:
trecon.zip	Transfer	KCTSHARE.ONLN.T7047TRJ.MQ
	Transfer method: Binary	
	If file exists: Ask User	TSO
	Record format:	msn-ftp.stl.disa.mil
	Fixed	Show host files
Local directories: d:\	Transfer request	
🔄 d:\	Open	
my documents	Save	
-	Setup	
Drives:	Help	
	Close	

- 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

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

Transfer		_	
Local Local file names: trecon.zip	← C C Finite Transfer	TSO Host Name(Member)/Password: KCTSHARE.ONLN.T7047TR	J.MQ
trecon.zip Transfer in Progress	T (0.1	_IX	
R Transfer in Progress	eceiving D:\trecon.zip	 ?×	
The file D:\trecon.zip Ren	already exists. Would you ame, Append or Cancel?	u like to Overwrite,	
Local c d:\ Overwrite New name	Append C	ancel Help	
	Cancel		
	Setup		
Drives:			
,	Close		

• 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.

TRECON FILE DOWNLOAD

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

Transfer			<u> </u>
-Local	Transfer Setup	?×	
Local file nam	IND\$FILE AS/400 Translation Templates		rd:
trecon.zip	Active protocol: IND\$FILE		047TRJ.MQ
Local director d:\ d:\ my do Drives: d:	IND\$FILE Settings Host System: TSO Startup command: IND\$FILE Advanced Defaults		.mil .s

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.

			-Host		
			System:		
	Active protocol: IND\$FILE	T	TSO	7	
Note: That the	· · · · ·	- and			pc

Note: That the 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.

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

button.

covered is the

Transfer Setup	<u>? ×</u>
IND\$FILE AS/400 Translation T Active protocol: IND IND\$FILE Settings Host System: TSO	[emplates]
Startup command: IND\$FILE Advanced	Timeout (in seconds) Startup: 300 ÷ Response: 300 ÷
OK Cancel	Defaults Apply Help

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

Transfer Setup		? ×
IND\$FILE AS/400 Translati	ion Templates	
TSO Advanced Options		? ×
Dataset options Logical record length:	Space allocation Allocation units: Default	OK Cancel
Block size:	Average block:	Defaults Help
CR/LF processing CR/LF processing ASCII file CR/LF Binary file CR/LF Additional IND\$FILE parameters:	Primary: Secondary:	
OK Ca	ancel Apply	Help

• 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	Help	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.

	- CR/LF processing
l	ASCII file CR/LF
l	Binary file CR/LF

- 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

Transfer - C:\	reansfor Satur	
Local file nam 54879_2003 54879_2003 Local director d:\ Call director d:\ my do	IND\$FILE AS/400 Translation Templates TSO Advanced Options Dataset options Space allocation Logical record length: Block size: Default Block size: Average block: CR/LF processing Average block: ASCII file CR/LF Binary file CR/LF Additional IND\$FILE Secondary:	? × Id: ? × Id: DK Indiana Defaults Imil Help Imil
Drives:	OK Cancel Apply	
		ΟΚ

Once you have performed all the actions described above, click the

button to close

the *TSO Advanced Options*' dialog window, followed by clicking the **DK** button on the '*Transfer Setup*' dialog window to close it. At this point your screen should appear as shown below.

TRECON FILE DOWNLOAD

Transfer		
Local	I	TSO Host
Local file names:	□ • • • • • • • • • • • • • • • • • •</td <td>Name(Member)/Password:</td>	Name(Member)/Password:
trecon.zip	Transfer	KCTSHARE.ONLN.T7047TRJ.MQ
trecon.zip	Transfer method:	
	Binary 💌	
	If file exists:	TSO
	Ask User 💌	msn-ftp.stl.disa.mil
	Record format:	Show host files
	Fixed T	
Local directories: d:\	Transfer request	
🔄 d:\	Open	
iny documents	Save	
_	Setup	
Drives:	Help	
	Close	

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

B [□ ►</th <th></th>	
portion of the	Transfer	control dialog window to initiate the ' <i>TSO</i>
IND\$FILE' file transfer		6

• At this point he file transfer process will begin as shown below.

Transfer				_ 🗆 X
Local Local file name trecon.zip		Transfer	TSO Host Name(Member)/Passo KCTSHARE.ONLN.1	
		Receiving D:\trecon.zip RE.ONLN.T7047TRJ.MQG.	 ×	
Local directo d:\ Com d:\ Com d:\	89,518 received 0:12 Status Receiving data from hos IND\$FILE Structured Fie			sa.mil ïles
Drives:	•	Setup Help Close		

TRECON FILE DOWNLOAD

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

Transfer		
Local Local file names:	«D D»	TSO Host Name(Member)/Password:
trecon.zip	Transfer	KCTSHARE.ONLN.T7047TRJ.MQ
	Transfer method: Binary	-
	If file exists: Ask User	TSO msn-ftp.stl.disa.mil
	Record format: Fixed	Show host files
Local directories: d:\	Transfer request	
 ad:\ my documents 	Open Save	
-	Setup	
Drives:	Help	
🗖 d:	Close	

• Mouse click on the **Close** 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.

TRECON FILE DOWNLOAD

📾 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal	
File Edit Connection Setup Macro Window Help	
<u>M</u> enu <u>L</u> ist M <u>o</u> de <u>F</u> unctions <u>U</u> tilities <u>H</u> elp	
ISPF Command Shell	
Enter TSO or Workstation commands below:	
Disco suman an obside and press onten to Datriave correct	
Place cursor on choice and press enter to Retrieve command	
\rightarrow INDRETHE CET that above only ± 70.47 this mag puper 20.270	
<pre>=> IND\$FILE GET 'kctshare.onln.t7047trj.mqg.ruc30370' =></pre>	
=> =>	
=>	
=>	
=>	
=>	
-/	
F1=Help F3=Exit F10=Actions F12=Cancel	
T <u>I</u> ≫û 0 6,7	
6, 7 🕪 🔒 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

• 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.

TRECON FILE DOWNLOAD

📾 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal	- D ×
File Edit Connection Setup Macro Window Help	
<u>M</u> enu <u>L</u> ist M <u>o</u> de <u>F</u> unctions <u>U</u> tilities <u>H</u> elp	
<u>Menu Fist Mõne Lunctions õtiiities ü</u> eih	
ISPF Command Shell	
Enter TSO or Workstation commands below:	
Enter 100 of workstation commands below.	
===> =x	
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	
T <u>I</u> ≫û □ 6,7	
6, 7 🗣 🔒 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

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

📴 msn-ftp_stl_disa_mil(TERM).r	rsf - WRQ Reflection - IBM 3270 Terminal	
File Edit Connection Setup Mac		
🛛 D 🛩 🖬 🎒 🖻 🛍 -	-⊕- 122 → • № ?	
READY		
_		
TI	≫û 0 2,1	
2, 1 🗣 🔒	IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	
<u>, , , , , , , , , , , , , , , , , , , </u>		

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

🕮 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal	
File Edit Connection Setup Macro Window Help	
READY	
LOGOFF_	
T <u>I</u> ≫≬ 0 2,7	
2, 7 🕸 🔒 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

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

TRECON FILE DOWNLOAD

msn-ftp_stl_disa_mil(TERM) File Edit Connection Setup M D			
Actions		Help	
KLSVSEL1	CL/SUPERSESSION Mai		More: +
Select session	s with a "/" or an action code		
Session ID	Description	Туре	Status
TS0 ROSCOE ALACICS ALACICS2 ALACICSD ASICITO0 ALAINFO ALAINFPM OKRCICS OKRCICS2 OKRINFO	TSO ROSCOE ALA CICS PRODUCTION ALA CICS PRODUCTION ALA CICS DEVELOPMENT CICS/ADABASE OKR TEST ALA INFOPAC RDS ALA INFOPAC MAINTENANCE OKR CICS PRODUCTION OKR CICS2 PRODUCTION OKR INFOPAC RDS	Multi Multi Multi Multi Multi Multi Multi Multi Multi Multi	
OKRINFPM Command ===> Enter F1=Help	OKR INFOPAC MAINTENANCE F3=Exit F5=Refresh F8=Fwd		
9, 2 🕸	IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended		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.

msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal File Edit Connection Setup Macro Window Help		_1	
<u> </u>	<u>H</u> elp		
KLSVSEL1 CL/SUPERSESSION Mai	n Menu	More: +	
Select sessions with a "/" or an action code			
Session ID Description	Туре	Status	
_ TSO TSO	Multi		
_ ROSCOE ROSCOE	Multi		
_ ALACICS ALA CICS PRODUCTION	Multi		
KLSEXIT1 Exit Menu	Multi Multi		
	Multi		
Type a selection number or position the	Multi		
cursor on a line and press ENTER.	Multi		
	Multi		
_ 1. Exit (X)	Multi		
2. Resume (R)	Multi		
	Multi		
Command ===>			
Command ===> Enter F1=Help F12=Cancel		AA0D/ASNTM00	-
Litter FI-help FI2-cancel	9=Retrieve	F10=Action	
	0-110111046		
T ⊥ ≫û		0 18,6	
18, 6 🐠 🔒 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended			

• From the '*Exit Menu*' box with the curser 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.

🛤 msn-ftp_stl_disa_mil(TERM).rsf - WRQ	Reflection - IBM 3270 Terminal		
File Edit Connection Setup Macro Windo	w Help		
	▶ • \ ?		
(DODICS) CONSTITUTE FOR COMPUTER SECURI RELATED EQUIPMENT A PROCESSING, MANIPUL AUTHORIZED INFORMAT	Y OTHER DEPARTMENT O S YOUR CONSENT TO MO TY AND SYSTEM MANAGE RE TO BE USED FOR TH ATION, AND STORAGE O TON ONLY. UNAUTHORIZ SECUTION AND PENALT	DNITORING BY DOD AUT EMENT PURPOSES. THIS HE COMMUNICATIONS, T OF OFFICIAL U.S. GOV ZED USE OF THIS COMP	HORIZED PERSONNEL DODICS AND ALL RANSMISSION, ERNMENT OR OTHER
SB - QUANTICO SG - LEJEUNE SL - ASIMS-E SQ - ASIMS-C SV - RIA QA - SSO DAYTON QF - CCAD QJ - TYAD X - SNI MENU	SH - PENDLETON SM - ASIMS-W SR - OSC-S/DFAS SW - FAR EAST OC - ASIMS-T OG - RRAD	QD - ASIMS-H QH - CECOM	SK - ASIMS-S SP - ARL SU - OSC-R SY - TACOM QE - ANAD QI - LEAD
HE	LPDESK DSN: 490-0000 TOLL FREE: 80		0
	ENTER SELECTION =>		
TI	≫û	0	24,42
24, 42 🗣 🔒 IBM 3270) Terminal - msn-ftp.stl.disa.mil via Telnet Ext	ended	

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.

Image: Second Sec			×o.
(DODICS) CONSTITUTE FOR COMPUTER SECURI RELATED EQUIPMENT A PROCESSING, MANIPUL AUTHORIZED INFORMAT	Y OTHER DEPARTMENT (S YOUR CONSENT TO MO TY AND SYSTEM MANAGE RE TO BE USED FOR TH ATION, AND STORAGE (TON ONLY. UNAUTHORIZ SECUTION AND PENALT)	DNITORING BY DOD AUT EMENT PURPOSES. THIS HE COMMUNICATIONS, T DF OFFICIAL U.S. GOV ZED USE OF THIS COMP	HORIZED PERSONNEL DODICS AND ALL RANSMISSION, ERNMENT OR OTHER
SB - OUANTICO SG - LEJEUNE SL - ASIMS-E SQ - ASIMS-C SV - RIA OA - SSO DAYTON OF - CCAD OJ - TYAD X - SNI MENU	SH - PENDLETON SM - ASIMS-W	SI - ALBANY SO - ARDEC ST - AMCOM/SBCCOM SX - TEAD	SY - TACOM QE - ANAD QI - LEAD
HE	EPDESK DSN: 490-0000 TOLL FREE: 80		0
TI	ENTER SELECTION =>	0	24,42
24, 42 🗣 🔒 IBM 327) Terminal - msn-ftp.stl.disa.mil via Telnet Ext	ended	

CHANGING YOUR VTAM LOGMODE

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

sn-ftp_stl_disa_mil(TERM).rsf - WRQ			
Edit Connection Setup Macro Windo	м нер		
Connect to msn-ftp.stl.disa.mil via Disconnect		OF DEFENSE INTEREST	COMPLITER SYSTEM
(D) Trace		ONITORING BY DOD AUT	
		EMENT PURPOSES. THIS	
		HE COMMUNICATIONS, T	
		OF OFFICIAL U.S. GOV	
		ZED USE OF THIS COMP	
YOU TO CRIMINAL PRO			UTEN MAT SUBULUT
TOO TO CHIMINAL FNO	SECOTION AND FENALT	110.	
SB - QUANTICO	SD - DITCO	SE - OKINAMA	SF - KANSAS CITY
SG - LEJEUNE		SI - ALBANY	
SL - ASIMS-E		SO - ARDEC	SP - ARL
SQ - ASIMS-C		ST - AMCOM/SBCCOM	
SV - RIA	SW - FAR EAST		SY - TACOM
QA - SSO DAYTON			QE - ANAD
QF - CCAD		QH - CECOM	QI - LEAD
QJ - TYAD			
X - SNI MENU			
HE	LPDESK DSN: 490-000	0 COMM: 314-260-000	0
	TOLL FREE: 8		
	ENTER SELECTION =>		
	>	0	24,42

CHANGING YOUR VTAM LOGMODE

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

idit Connection Setup Macro Windo			
Connect to msn-ftp.stl.disa.mil via	Talash Estandard Altric		
Disconnect		OF DEFENSE INTEREST	COMPUTER SYSTEM
		ONITORING BY DOD AUT	
		EMENT PURPOSES. THIS	
		HE COMMUNICATIONS, T	
		OF OFFICIAL U.S. GOV	
		ZED USE OF THIS COMP	
	SECUTION AND PENALT		
SB - QUANTICO			
SG - LEJEUNE		SI - ALBANY	SK - ASIMS-S
SL - ASIMS-E			SP - ARL
SQ - ASIMS-C		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		QH - CECOM	QI - LEAD
QJ - TYAD	QK - LOGSA	QL - AMCOM-M	QR - NAMI
X - SNI MENU			
		0 COMM: 314-260-000	0
116	TOLL FREE: 8		0
	TVEL THEL, O	00-040-0002	
	ENTER SELECTION =>		
			24.42

CHANGING YOUR VTAM LOGMODE

From this drop down menu select *Disconnect*

Disconnect with your mouse.

🛤 msn-ftp_stl_disa_mil(TERM).rsf - WRQ	Reflection - IBM 3270 Terminal		
File Edit Connection Setup Macro Windo	w Help		
Session Setup			
Connect to msn-ftp.stl.disa.mil via		OF DEFENSE INTEREST	COMPLITED OVOTEM
		ONITORING BY DOD AUT	
		EMENT PURPOSES. THIS	
		HE COMMUNICATIONS, T	
		OF OFFICIAL U.S. GOV	
· · · · ·		ZED USE OF THIS COMP	
	SECUTION AND PENALT		
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			
HE		0 COMM: 314-260-000	0
	TOLL FREE: 8	00-645-5032	
	ENTED OF FOTTON		
	ENTER SELECTION =>		
TI	*	0	24.42
visconnect from the host			

- 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

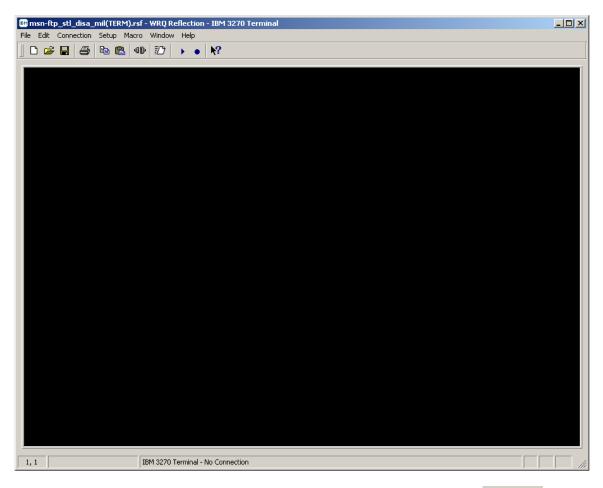
and indicates:

IBM 3270 Terminal - No Connection

when the session is disconnected.

while the session is connected

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.

CHANGING YOUR VTAM LOGMODE

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

🛤 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection -	IBM 3270 Terminal	_	
File Edit Connection Setup Macro Window Help			
Session Setup Connect to msn-ftp.stl.disa.mil via Telnet Exter	ded Alt+C		
Disconnect	Alt+D		
Trace	+		
Manage host connections and event traces			//

CHANGING YOUR VTAM LOGMODE

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

Image: milling and marked state milling and marked state <thm< th=""><th>1 3270 Te</th><th>rminal</th><th></th></thm<>	1 3270 Te	rminal	
Session Setup			
Connect to msn-ftp.stl.disa.mil via Telnet Extended Disconnect:	Alt+C Alt+D		
Trace	•		
Change host connection options			

• 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

Session Setup	<u>? ×</u>
Session Type Model ID IBM 3270 Terminal Model 2 24x80 Extended	Connect OK
Transport	Cancel
Type Host name or IP address	Help
Telnet Extended msn-ftp.stl.disa.mil	Security
Port Device name 9023 Advanced	
Connect options	
Auto connect Graphics enabled	
Connect macro Macro data	
	Browse

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

Model ID		
Model 2	24x80 Extended	•

• 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

Session Setup			<u>? ×</u>
Session Type IBM 3270 Terminal Transport Type Telnet Extended Port 9023	Model 2 24x Model 2 24x Model 3 32x Ho Model 3 32x Model 4 43x Model 4 43x Model 5 27x	80 Extended 80 80 Extended	Connect OK Cancel Help Security
Connect options Auto connect Connect macro	Graphics enabled Macro data		Browse

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

Session Setup		<u>?</u> ×
Session Type	Model ID	Connect
IBM 3270 Terminal 💽	Model 5 27x132 Extended 💌	ок
Transport Type Telnet Extended	Model 2 24x80 Model 2 24x80 Extended Model 3 32x80 Ho Model 3 32x80 Extended Model 4 43x80 ms Model 4 43x80 Extended	Cancel Help
	Model 5 27x132	Security
Port	De Model 5 27x132 Extended	
9023	Advanced	
Connect options Auto connect Connect macro	✓ Graphics enabled Macro data	Browse

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	<u>? ×</u>
Session Type Model ID IBM 3270 Terminal Model 5 27x132 Extended	Connect OK
-Transport	Cancel
Type Host name or IP address	Help
Telnet Extended 💌 msn-ftp.stl.disa.mil	Security
Port Device name 9023 Advanced	
Connect options	
Auto connect Graphics enabled	
Connect macro Macro data	
	Browse

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

CHANGING YOUR VTAM LOGMODE

📴 msn-ftp_stl_disa_mil(TERM).rsf - WRQ I	Reflection - IBM 3270 Terminal		
File Edit Connection Setup Macro Windo	w Help		
	▶ ● \ ?		
(DODICS) CONSTITUTE FOR COMPUTER SECURI RELATED EQUIPMENT A PROCESSING, MANIPUL AUTHORIZED INFORMAT	Y OTHER DEPARTMENT O S YOUR CONSENT TO MO TY AND SYSTEM MANAGE RE TO BE USED FOR TH ATION, AND STORAGE O ION ONLY. UNAUTHORIZ SECUTION AND PENALTI	WITORING BY DOD AUT MENT PURPOSES. THIS IE COMMUNICATIONS, T OF OFFICIAL U.S. GOV ZED USE OF THIS COMP	HORIZED PERSONNEL DODICS AND ALL RANSMISSION, ERNMENT OR OTHER
SB - QUANTICO SG - LEJEUNE SL - ASIMS-E SQ - ASIMS-C SV - RIA QA - SSO DAYTON QF - CCAD QJ - TYAD X - SNI MENU	SH - PENDLETON SM - ASIMS-W SR - OSC-S/DFAS SW - FAR EAST OC - ASIMS-T OG - RRAD	SO - ARDEC ST - AMCOM/SBCCOM SX - TEAD OD - ASIMS-H OH - CECOM	SK - ASIMS-S SP - ARL SU - OSC-R SY - TACOM OE - ANAD QI - LEAD
	LPDESK DSN: 490-0000 TOLL FREE: 80 ENTER SELECTION =>		0
TT			24.42
24, 42 🕶 🔒 IBM 3270) Terminal - msn-ftp.stl.disa.mil via Telnet Exte		

• 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.

CHANGING YOUR VTAM LOGMODE

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

					- IBM 3270 Terminal	_ 🗆 🗙
-	idit Connection				N2	
				••	<u></u>	
C	OMMAND U	INRECOGI	IIZED			
					≫û 0 5 ,1	
5, 1	•	8	IBM 3270	Terminal -	msn-ftp.stl.disa.mil via Telnet Extended	

• 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)

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)

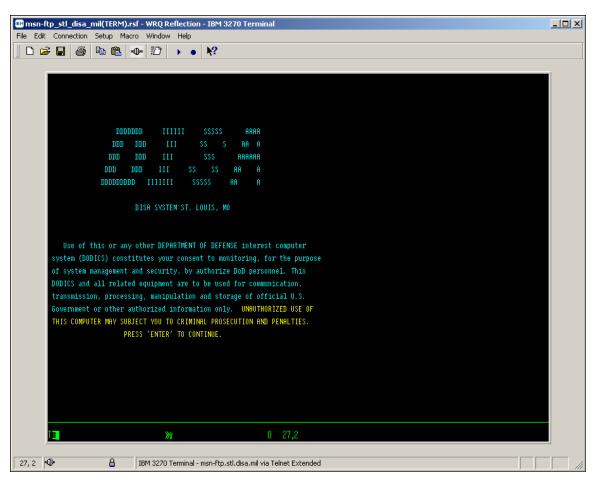
logon applid (ASFCPP01) logmode (snx32705)

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

🚳 msn-ftp_stl_disa_mil(TERM).rsf - WRQ Reflection - IBM 3270 Terminal	_ 🗆 🗙
File Edit Connection Setup Macro Window Help	
COMMAND UNRECOGNIZED	
logon applid (ASICPP01) logmode (snx32705)	
Tugun appilu (ASICFFUT) Tugmude (Shx32703)	
TI ≫û 0 5,1	
5, 43 🔁 IBM 3270 Terminal - msn-ftp.stl.disa.mil via Telnet Extended	

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.



CHANGING YOUR VTAM LOGMODE

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

🖻 msn	-ftp_stl	_disa_	_mil(Ti	ERM).r	sf -	WRQ R	tefl	ectio	on -	IBM 3270 Terminal	- D X
File Ed	lit Conn	ection	Setu	p Mac	ro	Windov	v H	lelp			
0	i 🖌	9	C_	C	⊕=	\mathcal{D}	•	•		₩?	
						KLGLG	0N1	_		Entry Validation	
						Date:	10	/06,	/03	System: AAOD	
						Time:	16	: 34		Device: ASNT0840	
										ntification: Jserid	
										Password Change Password ? <u>N</u> (Y or N)	
								ſ	Add:	itional Information:	
										6roup	
										Acct	
										Proc	
						Bulle	tin		Т	DEFENSE ENTERPRISE COMPUTING CENTER ST. LOUIS	
						DOLLO				ALBANY 05/390 DOMAIN	
										FOR PROBLEMS CALL: DSN 490-0000 OR	
										TOLL FREE 1-800-645-5032	
						ENTER					
						Enter	r F	1=He	elp	F3=Exit	
	TT					N.	ĥ			0 8.56	
										0 0,00	
8, 56	•			8	IB	M 3270	Ter	minal	l - m	sn-ftp.stl.disa.mil via Telnet Extended	

CHANGING YOUR VTAM LOGMODE

• Sample 3270 CL/SUPERSESSION Main Menu screen.

msn-ftp_stl_disa_mil(TERM).rsf - \	-	- IBM 3270 Terminal			_0
ile Edit Connection Setup Macro					
D 🛩 🖬 🎒 🛍 🐠		₩?			
	<u> </u>	<u>O</u> ptions <u>C</u> ommands <u>F</u> eatures	<u>H</u> elp		
	KLSVSEL1	CL/SUPERSESSION Ma	in Menu	More: +	
	Select session	s with a "/" or an action cod	e.		
	Session ID	Description	Туре	Status	
	_ TS0	 TSO	Multi		
	ROSCOE	ROSCOE	Multi		
	_ ALACICS	ALA CICS PRODUCTION	Multi		
	_ ALACICS2	ALA CICS PRODUCTION	Multi		
	_ ALACICSD	ALA CICS DEVELOPMENT	Multi		
	_ ASICITOO	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 ===>			AAOD/ASNTO840	
		F3=Exit F5=Refresh F8=Fwd	F9=Retrieve		
	 ≫î	0 9,28			
9, 28 🗣 🔒 IBM	4 3270 Terminal - r	nsn-ftp.stl.disa.mil via Telnet Extend	ed		

CHANGING YOUR VTAM LOGMODE

• Sample INFOPAC report viewing screen showing 133 character wide display screen..

	STOPT O												
		F REPORT PAGES											
	. ===>			CROLL ===>	SCREEN		DOOF				0.01		
		US VERSION:20030928 MENT SYSTEMS, INC.	133047 HIERARCHY CODE: AACA	irect 6.2			PAGE:	1	RU	JW: 1	COL:	LC5:	2/1
	09/28/2		*** DISTRIBUTION CROSS		BV RECIPT	FNT **				R	EPORT 1	D: RIN	
	13:04.5			ner enerioe							PAC		1
RECIPI	ENT ID/	NAME	TITLE			REMOT	E ID VIE	WING F	RCCESS				
AACA	MI	LLINGTON DEPT	MILLINGTON DEPT					Y-NOR1					
										F DIST.		TOTAL	
REP	ORT ID/	NHME		HIERHRU	HY CODE			TYPE	GRUUP	TYPE	MEDIH	COPIES	VIE
?		*** UNIDENTIFIED REP	ORTS ****	*****	COMPLETE	COPY	*****	3-COM	P NONE	0-0NLN	A		YE
CER	P1804	CERPS 1804 ADHOC REP	ORT	*****	COMPLETE	COPY	*****	3-COM	P NONE	F-FULL			YE
DCE	RPMON	DCERPMIL - DCERPS MI	LPAY RECAP REPORT-MONTHLY TO	TAL *****	COMPLETE	COPY	*****	3-COM	P NONE	F-FULL			YE
DCE	RPYTD	DCERPMIL - DCERPS MI	LPAY RECAP YEAR TO DATE TOTAL	LS ******	COMPLETE	COPY	*****	3-COM	P NONE	F-FULL			YE
DDF	COSNB	SOFALL - STATUS OF	FUNDS BY SRI/FY/BSYM	*****	COMPLETE	COPY	*****	3-COM	P NONE	F-FULL			YE
DFB	LB07	S71RDM04 - DAILY LAB	OR REPORT BY BESA/BEA/WCI	*****	COMPLETE	COPY	*****	3-COM	P NONE	F-FULL			YE
DFB	LB07A	S71RDM04 - DAILY LAB	OR REPORT BY BEA/WCI	*****	COMPLETE	COPY	*****	3-COM	P NONE	F-FULL			YE
DFB	R004	S716DB04 - 0&M JV ER	ROR REPORT	*****	COMPLETE	COPY	*****	3-COM	P NONE	F-FULL			YE
DFB	R005	S71RDB04 - LIQUIDATI	ON NOT EQUAL EXPENSE REPORT	*****	COMPLETE	COPY	*****	3-COM	P NONE	F-FULL			YE
DFB	ROO5A	S71RDB04 - OUTSTANDI	NG TRVL ORDER BY AGE CATEGOR	γ *****	COMPLETE	COPY	*****	3-COM	P NONE	F-FULL			YE
DFB	ROO5B	S71RDB04 - OUTSTANDI	NG TRVL ADVANCE BY AGE CATEG	ORY ******	COMPLETE	COPY	*****	3-COM	P NONE	F-FULL			YE
DFB	R0050	S71RDB04 - OUTSTANDI	NG COMMITMENT REPORT	*****	COMPLETE	COPY	*****	3-COM	P NONE	F-FULL			YE
DFB	R007	S71RDJ04 - OUTSTANDI	NG 621 REPORT	*****	COMPLETE	COPY	*****	3-COM	P NONE	F-FULL			YE
DFB	R009	S71RDG04 - IDB UNMAT	CHED/REJECTED DISBURSEMENTS	*****	COMPLETE	COPY	*****	3-COM	P NONE	F-FULL			YE
DFB	R010	S71RDD04 - IDB DETAIL	L RESPONSES RECEIVED FOR FAE,	/FA ******	COMPLETE	COPY	*****	3-COM	P NONE	F-FULL			YE