HUMS data download (On-Aircraft) from the IVHMU.

When the IVHMU is installed in the aircraft, connect a computer to the Ethernet connector located on the left hand side of the center console in the UH-60M. HUMS data must be downloaded on the UH-60A/L using the IVHMU programming cable P/N 51179-0102. After the computer is connected to IVHMU, the HUMS data can be obtained using the File Zilla Client software. After the aircraft and computer are connected, perform the following steps.

STEP	AIRCRAFT TASK
1	Power-up the aircraft with ground power unit or APU.
2	Ensure the IVHMU circuit breaker is pushed in.
3	Observe completion of IVHMU BIT on IVHMU MAIN/MAINT page (GO).
4	Turn off all MFDs.
5	Pull Circuit Breakers for CDU 1 (Pilot CDU), CDU 2 (CoPilots CDU), and DTS.
STEP	**COMPUTER SETUP**
1	Select Start > Settings > Control Panel > Network Connections > Local Area Connection > Properties.
2	Use the slide bar to scroll to 'Internet Protocol (TCP/IP)' and select the 'Properties' button.
3	Set laptop IP address to 172.17.1.65 [172.17.XXX.YYY (XXX, YYY can be any numbers as long as XXX, YYY does not match any other aircraft system on the aircraft Ethernet, for example 172.17.1.65 or 172.17.100.220, or 172.17.200.200], subnet is 255.255.0.0 and select 'OK.'
4	Close 'Local Area Connection Properties' window and close the 'Internet Connections' window
STEP	**DOWNLOAD OPERATIONS**
1	Create a folder on 'Desktop' and name folder – 'HUMS Data FTP.'
2	From the 'Start' button in Windows, select 'Run.' Type cmd and select 'OK.' This will open a DOS window. Type 'ping 172.17.1.64' on the command line. This provides a check to verify the connection to the IVHMU.
3	Open File Zilla Client. Select 'File' from main menu. Select 'Site Manager.' This will bring up the 'Site Manager' window.

STEP	DOWNLOAD OPERATIONS
	a. Select the 'New Site' button. b. On the 'General' tab, enter '172.17.1.64' in the 'Host' cell. c. Select 'FTP – File Transfer Protocol' in the 'Servertype' cell. d. Select 'Normal' in the 'Logontype' cell. e. Enter 'ftp' in the 'User' cell. f. Enter 'interpeak' in the 'Password' cell. g. Then, select the 'Connect' button.
4	Select 'New Site' under the 'My Sites' folder (all the information above should be displayed/entered in the 'General' tab).
5	Select the 'Connect' button.
6	Navigate to the 'Goodrich' folder on the 'Remote Site' frame in the ftp software.
7	Navigate to the 'HUMS Data FTP' folder on the 'Local Site' frame in the ftp software.
8	Highlight the 'Goodrich' folder on the 'Remote Site' and right click on mouse. A menu will appear. Select the 'Download' option. It will take approximately 30 minutes to download 1 GB of data.
9	HUMS files download progress from IVHMU to PC will be displayed under the 'Server/Local file' window (bottom of main window). Once the download process is completed, all files in the IVHMU 'Goodrich' folder will be located in the 'HUMS Data FTP' folder on PC Desktop. Verify all files have been downloaded prior to closing FileZilla SW Program.
10	Disconnect laptop and Ehternet cable from the cockpit, push in Circuit Breakers for Pilot CDU (CDU1), CoPilot CDU (CDU2), and DTS, and Shut down aircraft.
11	Restore the laptop to the original configuration (TCP/IP) >Properties screen and select the 'Obtain and IP Address Automatically' radio button. Select 'Apply' and then 'Close' buttons.

IP Communication Setting Test. See Download Operations on page 5-68, Step 2 to complete this test.
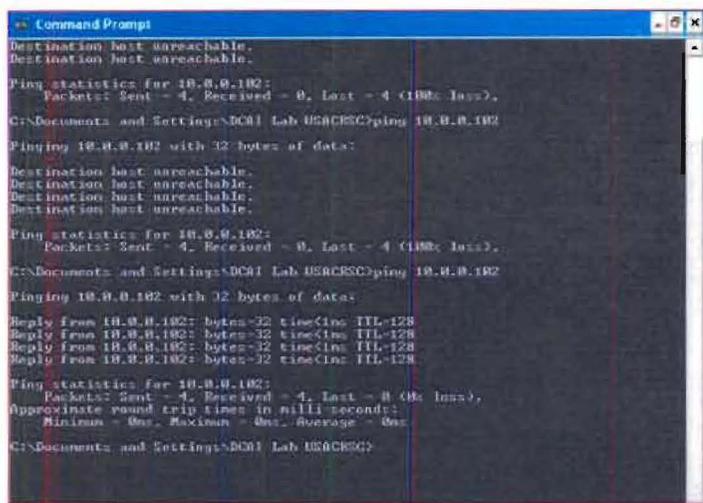
Figure 5-111. *Command Prompt window.*

Create a folder on 'Desktop' and name folder – 'HUMS Data FTP'.

Open 'File Zilla Client' software, select 'File', and then select 'Site Manager'. [Figure 5-112]
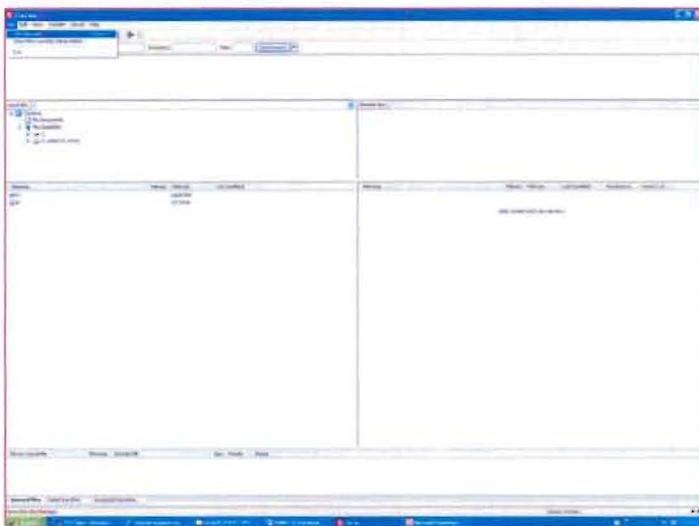
Figure 5-112. *FileZilla Client main window.*

This will bring up the 'Site Manager' window.

NOTE

If NOT previously done, a 'New Site' must be configured. Name the New Site – UH60M.

Select the 'New Site' button.
On the 'General' tab, enter '172.17.1.64' in the 'Host' cell.
Select 'FTP – File Transfer Protocol' in the 'Servertype' cell.
Select 'Normal' in the 'Logontype' cell.
Enter 'ftp' in the 'User' cell.
Enter 'interpeak' in the 'Password' cell.
Then select the 'Connect' button. [Figure 5-113]
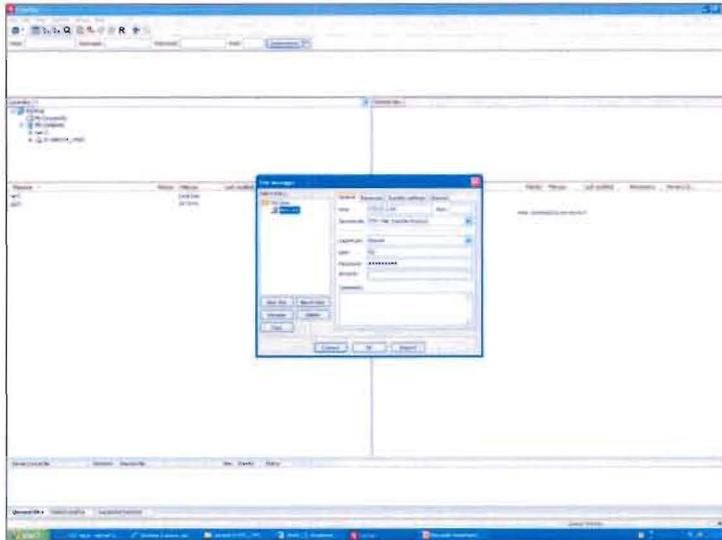
Figure 5-113. *Site manager window.*

Navigate to the 'Goodrich' folder on the 'Remote Site' frame in the ftp software. [Figure 5-114]
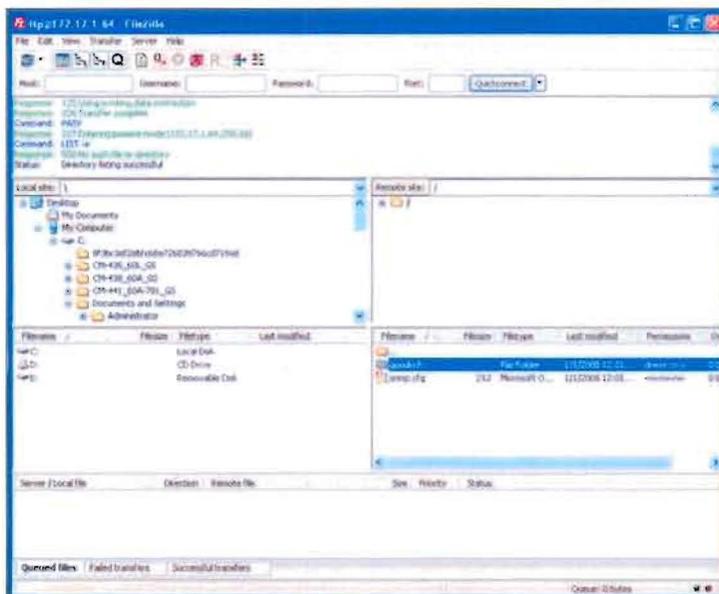
Figure 5-114. *Remote site sub-window.*

Navigate to the 'HUMS Data FTP' folder on the 'Local Site' frame in the ftp software. [Figure 5-115]
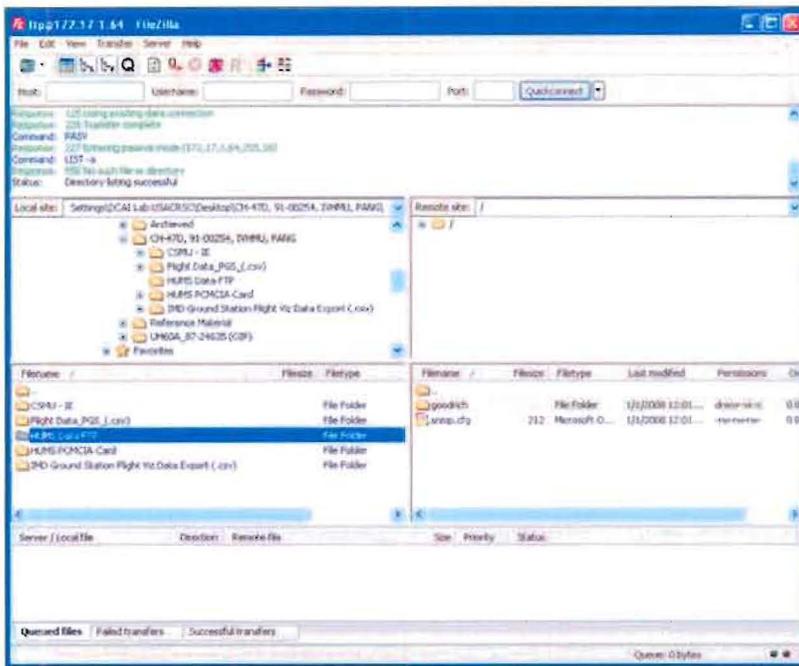
Figure 5-115. *Local site sub-window.*

Highlight the 'Goodrich' folder on the 'Remote Site' and right click. A menu will appear. Select the 'Download' option. It will take approximately 30 minutes to download 1GB of data. [Figure 5-116]
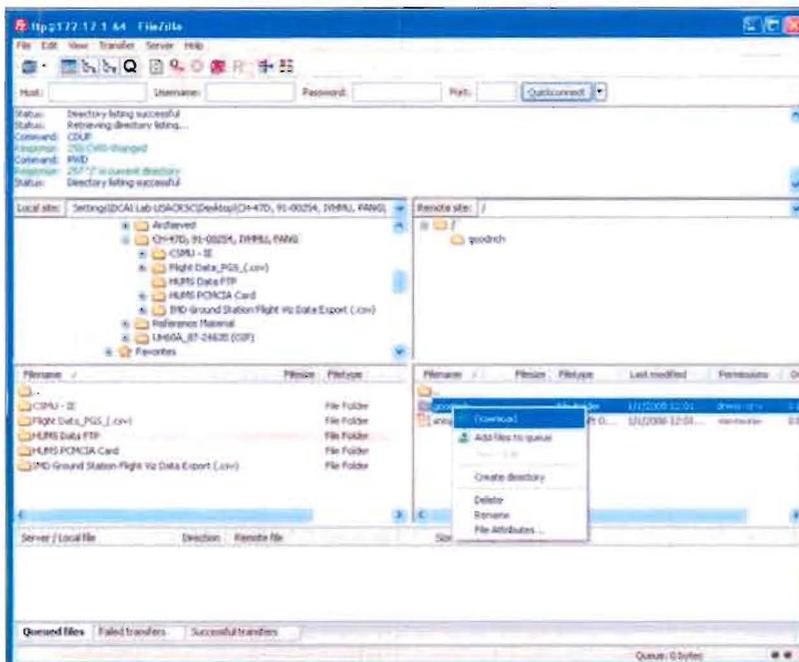
Figure 5-116. *Remote site sub-window: download option.*

HUMS files download progress from IVHMU to PC will be displayed under the 'Server/Local file' window (bottom of main window). Once the download process is completed, all files in the IVHMU 'Goodrich' folder will be located in the 'HUMS Data FTP' folder on PC Desktop. Verify all files have been downloaded prior to closing FileZilla SW Program. [Figure 5-117]
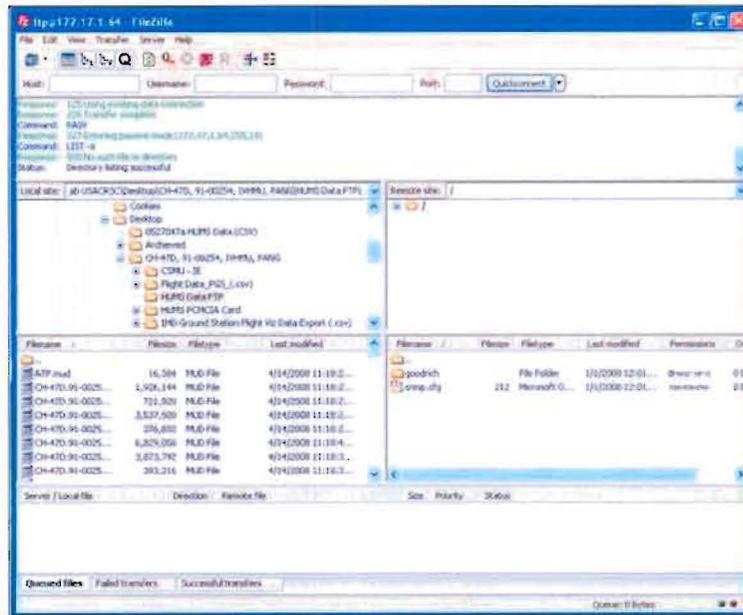
Figure 5-117. *HUMS data download progess.*

HUMS Data Download (On-Aircraft) from the IVHMU (Alternate Method using IE).

When the IVHMU is installed in the aircraft, connect a computer to the Ethernet connector located on the left hand side of the center console in the UH-60M. HUMS data must be downloaded on the UH-60A/L using the IVHMU programming cable P/N 51179-0102. After the computer is connected to IVHMU, the HUMS data can be obtained using Internet Explorer (IE). After the aircraft and computer are connected, perform the following steps. [Figure 5-118]

STEP	AIRCRAFT TASK
1	Power-up the aircraft with ground power unit or APU.
2	Ensure the IVHMU circuit breaker is pushed in.
3	Observe completion of IVHMU BIT on IVHMU MAIN/MAINT page (GO).
4	Turn off all MFDs.
5	Pull Circuit Breakers for CDU 1 (Pilot CDU), CDU 2 (CoPilots CDU), and DTS.

STEP	COMPUTER SETUP
1	Internet Properties Set-Up: 'Internet Properties' must be set as follows (these setting are changed anytime the PC is connected to the USACR/SC network); Refer to page : a. Highlight and right click IE icon on Desktop. Then, select 'Properties.' b. An 'Internet Properties' window will appear c. In the 'Home page' cell, highlight the address. Select the 'Use Blank' button. Then, select the 'Apply' button. This will clear any address saved as your default home page.
2	Select Start > Settings > Control Panel > Network Connections > Local Area Connection > Properties.
3	Use the slide bar to scroll to 'Internet Protocol (TCP/IP)' and select the 'Properties' button.
4	Set laptop IP address to 172.17.1.65 [172.17.XXX.YYY (XXX, YYY can be any numbers as long as XXX, YYY does not match any other aircraft system on the aircraft Ethernet, for example 172.17.1.65 or 172.17.100.220, or 172.17.200.200], subnet is 255.255.0.0 and select 'OK.'
5	Close 'Local Area Connection Properties' window and close the 'Internet Connections' window.

STEP	DOWNLOAD OPERATIONS
1	Create a folder on 'Desktop' and name folder – 'HUMS Data IE.'
2	From the 'Start' button in Windows, select 'Run.' Type cmd and select 'OK.' This will open a DOS window. Type 'ping 172.17.1.64' on the command line. This provides a check to verify the connection to the IVHMU.
3	Open Internet Explorer (IE) on the computer.
4	Type in ftp://172.17.100.40 in the URL when the IVHMU is installed on the aircraft.
5	An IE FTP home page will appear. Select the main file folder. All HUMS files will be listed. Each file must be downloaded independently.
6	Disconnect laptop and Ehternet cable from the cockpit, push in Circuit Breakers for Pilot CDU (CDU1), CoPilot CDU (CDU2), and DTS, and shut down aircraft.
7	Restore the laptop to the original configuration (TCP/IP) >Properties screen and select the 'Obtain and IP Address Automatically' radio button. Select 'Apply' and then 'Close' buttons.

HUMS data download (Off Aircraft) from the IVHMU.

When the IVHMU is removed from the aircraft, connect a computer via the Ethernet connector to the IVHMU. After the computer is connected to IVHMU, the HUMS data can be obtained using the File Zilla Client software. After the IVHMU and computer are connected, perform the following steps.

STEP	LAB SETUP
1	Turn on the 28V DV power supply and verify voltage set at 28V DC +/- 0.5 V DC and amperage set to a minimum of 5 amps.
2	Connect the IVHMU interface maintenance cables to the J3, J5 and J6 connectors on the IVHMU.
3	Disconnect the banana clip jumper on the P-3 connector (Open)
4	Refer to page . IVHMU Setup for CVFDR Download Discrete Inputs for Aircraft Identification Box (black box on download cable) for switch settings.
5	Connect the IVHMU interface maintenance cables to the 28V DC power supply.
6	Connect the IVHMS interface maintenance cable Ethernet connector to the PC.
7	Turn on the 28V DC power supply.
8	Verify proper voltage and amperage.

STEP	COMPUTER SETUP
1	Select Start > Settings > Control Panel > Network Connections > Local Area Connection > Properties.
2	Use the slide bar to scroll to 'Internet Protocol (TCP/IP)' and select the 'Properties' button.
3	Set laptop IP address to 172.17.1.65 [172.17.XXX.YYY (XXX, YYY can be any numbers as long as XXX, YYY does not match any other aircraft system on the aircraft Ethernet, for example 172.17.1.65 or 172.17.100.220, or 172.17.200.200], subnet is 255.255.0.0 and select 'OK.'
4	Close 'Local Area Connection Properties' window and close the 'Internet Connections' window.