Acceptance Test

Requested by:

Mr. Ken Swarner Systems Administrator Computer Science Department of Siena College

TCP/IP Packet Descriptor

Mirage Incorporated

"We are there...even if you cannot see us" Mirageinc2003@yahoo.com

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1.1 Product Overview and Summary

The TCP/IP Packet Descraptoar will be used as a learning tool by both Dr. Timoth Lederman and Mr. Ken Swarner. The application's Graphical User Interface (GUI) gives students a visual guide of how protocols are contained within a hierarchy, and ultimately, their relationship with other PDUs. The TCP/IP Packet Descraptor is an interactive application that will allow students to click on the different fields of each protocol and view the field's definition, the data contained within it, and the conversion of this data into the appropriate base(s) – Hexadecimal, Binary, Decimal, and ASCII.

1.2 Development, Operating, and Maintenance Development

The TCP/IP Packet Descraptor was developed on the Siena College Engineering workstations. To create our GUI, we used Macromedia Fireworks, and to develop our website we used XHTML.

The users of the Descraptor include Dr. Lederman, Mr. Swarner, and the students in their classes. The application will be accessible from any computer system with Internet capabilities.

1.3 Functional Requirement Review

In the Software Requirements Specification of the TCP/IP Packet Descraptor, we stated that there would only be one type of user for this system. The following is a list of the functional requirements:

- Clearly display on a 1024x768 pixel screen
- Application is readable from farthest corners in classrooms when displayed on an overhead projector
- Contain information for the protocols requested by Mr. Swarner
- Produce GUI to colorfully and clearly display the components of each protocol
- Choose a Protocol Button is available on every screen, allowing the user to learn about another protocol at any time
- Clearly illustrate how different protocols are related to one another through the hierarchical conception of the IP Protocol Suite
- Produce information box for the "clicked" field displaying:
 - Purpose of field
 - The data values contained within that field
 - This data converted into the appropriate bases (i.e. Hexadecimal, Binary, Decimal, ASCII)
- Provide link for Request For Comments (RFC) for each protocol

1.4 Deliverables

Our deliverables include a compact disc and a hard copy of the acceptance criteria document, which will be delivered on May 4, 2004. Included on the compact disc are the executable, source code and any needed data files. Also included on the compact disc is the complete website, with all links to the past documents.

2.0 Screenshots

2.1 Title Page



This will be the first screen the user sees. It is the introduction screen to our software, and presents our mascot, "The Descraptor".

2.2 Choose a Protocol



This is the first functional screen the user will see. It allows the user to see what an Ethernet Packet looks like, and eventually each frame within that packet will be click-able and able to display information about that frame.

The "Choose a Protocol" menu gives the user a graphical representation of how protocols are interrelated, and allows the desired protocol to be selected.

2.3 FTP PDU 2.3.1 IP PDU for the selected FTP PDU



Once a protocol has been selected by the user, this screen will display. The basis for our protocol suite, the IP PDU, is displayed on the left, filled in with the given data for the selected protocol. The user is able to click on any field in the IP PDU, and an information box will display on the right, describing that field. In the IP PDU Data field, "TCP PDU" is written – this indicates that the entire TCP PDU is contained within the IP Data field. If the user clicks on this field, the TCP PDU will be displayed.

The PDUs are tabbed on their lower left corners: this allows the user to navigate between them. Additionally, there is a key at the top right corner to display what PDUs make up the chosen protocol. The user may also click on any PDU in this map to navigate. If at any point, the user wants to choose a different protocol to view, he or she may click on the "Choose a Protocol" button in the top left corner.

2.3.2 TCP PDU for the selected FTP PDU

The next screen shows the TCP PDU on top of the IP PDU. This is meant to show that the TCP PDU is contained within the IP PDU. Additionally, the Telnet PDU is contained within the TCP PDU Data field, so clicking on that field will display the Telnet PDU. As with IP, if a TCP field is clicked, the information for that field will be displayed in the information box at the right.

THE DESCRAPTOR - TCP/IP Packet Descriptor - Microsoft Internet Explorer The State Image Securities Table Internet Figure 1.11	기미 (B) × (B) - (B) × (B) - (B) × (B) + (B) × (B) + (B) × (B) +
Back * Address Address Address Address Address Address Address Address	
Links 🙆 Customize Links 🔮 Free Hotmail 🔮 Windows 🔮 Windows Media	
Ethernet Packet	A
Choose A Protocol U Book Choose A Protocol U B	
$FTP = \begin{bmatrix} FTP \\ 12 \\ 34 \\ 56 \\ 78 \\ 910 \\ 12 \\ 34 \\ 56 \\ 78 \\ 910 \\ 11 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ $	FTP PDU for the selected FTP PDU Field Name: PASS (Password) The argument field is a Telnet string specifying the user's password. This command must be immediately preceded by the user name command, and, for some sites, completes the user's identification for access control Purpose and Definition: PASS (Password) The argument field is a Telnet string specifying the user's password. This command must be immediately preceded by the user name command, and, for some sites, completes the user's identification for access control
16171819Options20212223Data (FTP PDU)	Field Key: Data value: 50 41 53 53 20 66 31 61 32 6B 33 75 73 65 72 0D 0A Data values in other bases:
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 12 8 29 30 31	

2.3.3 FTP PDU for the selected FTP PDU

The data for FTP is displayed within the orange information box on the left-side of the screen.

2.4 TELNET PDU for the selected TELNET PDU

This is the TELNET PDU is located in the information box to the right of the TCP PDU.

2.5 ARP PDU for the selected ARP PDU

This is a screenshot of the ARP protocol and its "general info" information field.

2.6 HTTP PDU for the selected HTTP PDU

HTTP Protocol

2.7 PING PDU for the selected PING PDU

PING Protocol

2.8 SSH PDU for the selected SSH PDU

SSH Protocol

3.0 Testing Sheets

3.1 Functional Requirements

		Functional Requirements	
Date:			
Tester:			
Screen:	Pass	Fail	

Requirement	Actual Result	Comments	Pass	Fail
Contains information for various protocols.			Х	

Requirement	Actual Result	Comments	Pass	Fail
Produces GUI that				
colorfully and clearly			Х	
displays contents of the				
specified protocol.				

Requirement	Actual Result	Comments	Pass	Fail
Displays clearly on a				
1024x768 pixel screen.			Х	
-				

Requirement	Actual Result	Comments	Pass	Fail
Menus on top of screen				
should be visible on every				
page to allow user to			Х	
change protocol, or switch				
between layers.				

Requirement	Actual Result	Comments	Pass	Fail
Ability to view either an		Visible in information box		
independent field or an			X	
entire protocol in a different				
radix				

Functional Requirements

Requirement	Actual Result	Comments	Pass	Fail
Produces information box				
for each field of a protocol				
which displays Purpose of			Х	
Field, Data Contained, this				
data in various radix, and a				
field key				

Requirement	Actual Result	Comments	Pass	Fail
Displays RFC link for entire				
protocol or specific field			Х	
when available.				

3.2 ARP Testing Sheets

3.2.1 Ethernet Testing Sheet for the selected ARP PDU

				Screen: Ethernet
Date: 4/25/0)4			
Tester:	Jeff Ha	biniak		
Screen:	Pass	X	Fail	

Field Name: "Choose a Protocol" Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Tree with all possible		Х	
	protocols is displayed			

Field Name: IPv4 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Pops up message box		Х	
	saying feature is currently			
	unavailable			

Field Name: IPv6 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Message box will be		Х	
	displayed saying that IPv6			
	is currently not available			

Field Name: *Preamble*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Preamble information field		Х	
	is displayed in a blue box			

Field Name: Start of Frame (SOF)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	SOF information field is		Х	
	displayed in a gray box			

Field Name: Cyclic Redundancy Check (CRC)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	CRC information field is		Х	
	displayed in a yellow box			

Screen: Ethernet

Field Name: *IP PDU*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	IP PDU information field is		X	
	displayed in a green box			

3.2.2 ARP Testing Sheet for the selected ARP PDU

	Screen: ARP PDU
Date:	4/25/04
Tester:	Jeff Habiniak
Screen:	Pass X Fail

Field Name: *Hardware Address Type*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Hardware Address Type		Х	
	information field pops up in			
	a light blue box			

Field Name: Protocol Address Type

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Protocol Address Type		Х	
	information field pops up in			
	an aquamarine box			

Field Name: *Hardware Address Length*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Hardware Address Length		Х	
	information field pops up in			
	a beige box			

Field Name: Protocol Address Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Protocol Address Length		Х	
	information field pops up in			
	an off-white box			

Field Name: Operation

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Operation information field		Х	
	pops up in an pink box			

Screen: ARP PDU

Field Name: *Source Hardware Address*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Sender Hardware Address		Х	
	information field pops up in			
	a purple box			

Field Name: Source Protocol Address Type

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Protocol Address Type		Х	
	information field pops up in			
	a green box			

Field Name: Target Hardware Address

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Target Hardware Address		Х	
	information field pops up in			
	a gray box			

Field Name: Target Protocol Address

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Target Protocol Address		Х	
	information field pops up in			
	a magenta box			

3.3 ICMP Testing Sheets

3.3.1 Ethernet Testing Sheet for the selected ICMP PDU

	Screen: Ethernet
Date:	4/25/04
Tester:	Lauren Englisbe
Screen:	Pass X Fail

Field Name: "Choose a Protocol" Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Tree with all possible		Х	
	protocols is displayed			

Field Name: IPv4 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Pops up message box		Х	
	saying feature is currently			
	unavailable			

Field Name: IPv6 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Message box will be		Х	
	displayed saying that IPv6			
	is currently not available			

Field Name: *Preamble*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Preamble information field		X	
	is displayed in a blue box			

Field Name: Start of Frame (SOF)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	SOF information field is		Х	
	displayed in a gray box			

Field Name: Cyclic Redundancy Check (CRC)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	CRC information field is		Х	
	displayed in a yellow box			

Screen: Ethernet

Field Name: *IP PDU*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	IP PDU information field is		X	
	displayed in a green box			

3.3.2 IP Testing Sheet for the selected ICMP PDU

	Screen: IP PDU
Date:	4/25/04
Tester:	Lauren Englisbe
Screen:	Pass X Fail

Field Name: Version

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Version information field		Х	
	pops up in a pink box			

Field Name: Internet Header Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Internet Header Length		Х	
	information field pops up in			
	a cyan box			

Field Name: *Type of Service*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Type of Service information		Х	
	field pops up in a purple			
	box			

Field Name: Total Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Total Length information		Х	
	field pops up in a brown			
	box			

Field Name: Identification

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Identification information		X	
	field pops up in a red box			

Screen: IP PDU

Field Name: Flags

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Flags information field pops		Х	
	up in a gray box			

Field Name: Fragment Offset

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Fragment Offset		Х	
	information field pops up in			
	a magenta box			

Field Name: *Time to Live*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Time to Live information		Х	
	field pops up in an indigo			
	box			

Field Name: Protocol

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Protocol information field		Х	
	pops up in a yellow box			

Field Name: Header Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Header Checksum		Х	
	information field pops up in			
	a coral box			

Field Name: Source IP Address

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Source IP Address		Х	
	information field pops up in			
	a green box			

Screen: IP PDU

Field Name: *Destination IP Address*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Destination IP Address		Х	
	information field pops up in			
	a brown box			

Field Name: Options

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Options information field		Х	
	pops up in a blue box			

Field Name: Data

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	General information box for		Х	
	next PDU pops up			

3.3.3 ICMP PDU for the selected ICMP PDU

	Screen: ICMP PDU
Date:	4/25/04
Tester:	Lauren Englisbe
Screen:	Pass X Fail

Field Name: Type

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Type information field pops		Х	
	up in a pink box			

Field Name: Code

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Code information field pops		Х	
	up in a yellow box			

Field Name: Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Checksum information field		Х	
	pops up in a green box			

Field Name: Identifier

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Identifier information field		Х	
	pops up in a purple box			

Field Name: Data

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Data information field pops		Х	
	up in a brown box			

3.4 PING Testing Sheets

3.4.1 Ethernet Testing Sheet for the selected PING PDU

			Screen: Ethernet
Date:	4/25/04		
Tester:	Paul Aiuto		
Screen:	Pass	Fail	X

Field Name: "Choose a Protocol" Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Tree with all possible		Х	
	protocols is displayed			

Field Name: IPv4 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Pops up message box		Х	
	unavailable			

Field Name: IPv6 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Message box will be		Х	
	displayed saying that IPv6			
	is currently not available			

Field Name: *Preamble*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Preamble information field		X	
	is displayed in a blue box			

Field Name: Start of Frame (SOF)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	SOF information field is		Х	
	displayed in a gray box			

Field Name: Cyclic Redundancy Check (CRC)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	CRC information field is		Х	
	displayed in a yellow box			

Screen: Ethernet

Field Name: *IP PDU*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	IP PDU information field is		X	
	displayed in a green box			

3.4.2 IP Testing sheet for the selected PING PDU

			Screen: IP PDU
Date:	4/25/04		
Tester:	Paul Aiuto		
Screen:	Pass	Fail	X

Field Name: Version

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Version information field			Х
	pops up in a pink box			

Field Name: Internet Header Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Wrong data in field		
2. Left Click	Internet Header Length			Х
	information field pops up in			
	a cyan box			

Field Name: *Type of Service*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Wrong data in field		
2. Left Click	Type of Service information			Х
	field pops up in a purple			
	box			

Field Name: Total Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Wrong data in field		
2. Left Click	Total Length information			Х
	field pops up in a brown			
	box			

Field Name: Identification

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Wrong data in field		
2. Left Click	Identification information			Х
	field pops up in a red box			

Screen: IP PDU

Field Name: Flags

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Wrong data in field		
2. Left Click	Flags information field pops			Х
	up in a gray box			

Field Name: Fragment Offset

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Fragment Offset		Х	
	information field pops up in			
	a magenta box			

Field Name: Time to Live

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Wrong data in all places		
2. Left Click	Time to Live information		Х	
	field pops up in an indigo			
	box			

Field Name: Protocol

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Protocol information field		Х	
	pops up in a yellow box			

Field Name: Header Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Header Checksum		Х	
	information field pops up in			
	a coral box			

Field Name: Source IP Address

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Links to HTTP		
2. Left Click	Source IP Address		Х	
	information field pops up in			
	a green box			

Screen: IP PDU

Field Name: *Destination IP Address*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Destination IP Address			Х
	information field pops up in			
	a brown box			

Field Name: Options

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Options information field		Х	
	pops up in a blue box			

Field Name: Data

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	General information box for			Х
	next PDU pops up			

3.4.3 ICMP Testing sheet for the selected ICMP PDU

			Screen: ICMP PDU
Date:	4/25/04		
Tester:	Paul Aiuto		
Screen:	Pass	Fail	X

Field Name: *Type*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Type information field pops			Х
	up in a pink box			

Field Name: Code

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Code information field pops			Х
	up in a yellow box			

Field Name: Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Checksum information field			Х
	pops up in a green box			

Field Name: Identifier

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Identifier information field			Х
	pops up in a purple box			

Field Name: Data

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Data information field pops			Х
	up in a brown box			

3.4.4 PING Testing Sheet for the selected PING PDU

			Screen: PING
Date:	4/25/04		
Tester:	Paul Aiuto		
Screen:	Pass	Fail	X

Field Name: Destination

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Does not link		
2. Left Click	Destination information			Х
	field pops up in the			
	appropriately colored box			

Field Name: Source

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Directory paths are wrong		
2. Left Click	Source information field			Х
	pops up in the appropriately			
	colored box			

Field Name: Fragment

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Directory paths are wrong		
2. Left Click	Fragment offset information			Х
	field pops up in the			
	appropriately colored box			

Field Name: Time to Live

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Directory paths are wrong		
2. Left Click	Time to Live information			Х
	field pops up in the			
	appropriately colored box			

Field Name: Protocol

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Directory paths are wrong		
2. Left Click	Protocol information field			Х
	pops up in the appropriately			
	colored box			

Screen: PING

Field Name: Header Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Directory paths are wrong		
2. Left Click	Header Checksum			
	information field pops up in			Х
	the appropriately colored			
	box			

Field Name: Source

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Directory paths are wrong		
2. Left Click	Source information field			Х
	pops up in the appropriately			
	colored box			

Field Name: *Destination*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Directory paths are wrong		
2. Left Click	Destination information			Х
	field pops up in the			
	appropriately colored box			

Field Name: Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Directory paths are wrong		
2. Left Click	Checksum information field			Х
	pops up in the appropriately			
	colored box			

Field Name: *Identifier*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Directory paths are wrong		
2. Left Click	Identifier information field			Х
	pops up in the appropriately			
	colored box			

Screen: PING

Field Name: Sequence Number

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up	Directory paths are wrong		
2. Left Click	Sequence number			
	information field pops up in			Х
	the appropriately colored			
	box			
3.5 UDP Testing Sheets

3.5.1 Ethernet Testing Sheet for the selected UDP PDU

	Screen: Ethernet
Date:	4/25/04
Tester:	Jayme Gresen
Screen:	Pass X Fail

Field Name: "Choose a Protocol" Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Tree with all possible		Х	
	protocols is displayed			

Field Name: IPv4 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Pops up message box		Х	
	saying feature is currently			
	unavailable			

Field Name: IPv6 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Message box will be		Х	
	displayed saying that IPv6			
	is currently not available			

Field Name: *Preamble*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Preamble information field		X	
	is displayed in a blue box			

Field Name: Start of Frame (SOF)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	SOF information field is		Х	
	displayed in a gray box			

Field Name: Cyclic Redundancy Check (CRC)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	CRC information field is		Х	
	displayed in a yellow box			

Screen: Ethernet

Field Name: *IP PDU*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	IP PDU information field is		X	
	displayed in a green box			

3.5.2 IP Testing Sheet for the selected UDP PDU

	Screen: IP PDU
Date:	4/25/04
Tester:	Jayme Gresen
Screen:	Pass X Fail

Field Name: Version

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Version information field		Х	
	pops up in a pink box			

Field Name: Internet Header Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Internet Header Length		Х	
	information field pops up in			
	a cyan box			

Field Name: *Type of Service*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Type of Service information		Х	
	field pops up in a purple			
	box			

Field Name: Total Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Total Length information		Х	
	field pops up in a brown			
	box			

Field Name: Identification

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Identification information		X	
	field pops up in a red box			

Field Name: Flags

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Flags information field pops		Х	
	up in a gray box			

Field Name: Fragment Offset

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Fragment Offset		Х	
	information field pops up in			
	a magenta box			

Field Name: *Time to Live*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Time to Live information		Х	
	field pops up in an indigo			
	box			

Field Name: Protocol

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Protocol information field		Х	
	pops up in a yellow box			

Field Name: Header Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Header Checksum		Х	
	information field pops up in			
	a coral box			

Field Name: Source IP Address

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Source IP Address		Х	
	information field pops up in			
	a green box			

Field Name: *Destination IP Address*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Destination IP Address		Х	
	information field pops up in			
	a brown box			

Field Name: Options

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Options information field		Х	
	pops up in a blue box			

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	General information box for		Х	
	next PDU pops up			

3.5.3 UDP Testing Sheet for the selected UDP PDU

			Scree	n: UDP PDU	
Date:	4/25/04				
Tester:	Jayme G	resen			
Screen:	Pass	Fail	Χ		

Field Name: Source Port

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Source Port information			Х
	field pops up in the			
	appropriately colored box			

Field Name: Destination Port

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Destination Port			
	information field pops up in			Х
	the appropriately colored			
	box			

Field Name: Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Length information field			Х
	pops up in the appropriately			
	colored box			

Field Name: Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Checksum information field			Х
	pops up in the appropriately			
	colored box			

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Data information field pops			Х
	up in the appropriately			
	colored box			

3.6 SNMP Testing Sheets

3.6.1 Ethernet Testing Sheet for the selected SNMP PDU

	Screen: Ethernet
Date:	4/25/04
Tester:	Jayme Gresen
Screen:	Pass X Fail

Field Name: "Choose a Protocol" Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Tree with all possible		Х	
	protocols is displayed			

Field Name: IPv4 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Pops up message box		Х	
	unavailable			

Field Name: IPv6 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Message box will be		Х	
	displayed saying that IPv6			
	is currently not available			

Field Name: *Preamble*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Preamble information field		X	
	is displayed in a blue box			

Field Name: Start of Frame (SOF)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	SOF information field is		Х	
	displayed in a gray box			

Field Name: Cyclic Redundancy Check (CRC)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	CRC information field is		Х	
	displayed in a yellow box			

Screen: Ethernet

Field Name: *IP PDU*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	IP PDU information field is		X	
	displayed in a green box			

3.6.2 IP Testing Sheet for the selected SNMP PDU

	Screen: IP PDU
Date:	4/25/04
Tester:	Jayme Gresen
Screen:	Pass X Fail

Field Name: Version

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Version information field		Х	
	pops up in a pink box			

Field Name: Internet Header Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Internet Header Length		Х	
	information field pops up in			
	a cyan box			

Field Name: *Type of Service*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Type of Service information		Х	
	field pops up in a purple			
	box			

Field Name: Total Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Total Length information		Х	
	field pops up in a brown			
	box			

Field Name: Identification

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Identification information		X	
	field pops up in a red box			

Field Name: Flags

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Flags information field pops		Х	
	up in a gray box			

Field Name: Fragment Offset

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Fragment Offset		Х	
	information field pops up in			
	a magenta box			

Field Name: *Time to Live*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Time to Live information		Х	
	field pops up in an indigo			
	box			

Field Name: Protocol

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Protocol information field		Х	
	pops up in a yellow box			

Field Name: Header Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Header Checksum		Х	
	information field pops up in			
	a coral box			

Field Name: Source IP Address

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Source IP Address		Х	
	information field pops up in			
	a green box			

Field Name: *Destination IP Address*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Destination IP Address		Х	
	information field pops up in			
	a brown box			

Field Name: Options

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Options information field		Х	
	pops up in a blue box			

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	General information box for		Х	
	next PDU pops up			

3.6.3 UDP Testing Sheet for the selected SNMP PDU

			Screen: UDP PDU
Date:	4/25/04		
Tester:	Jayme G	resen	
Screen:	Pass	Fail	X

Field Name: Source Port

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Source Port information			Х
	field pops up in the			
	appropriately colored box			

Field Name: Destination Port

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Destination Port			
	information field pops up in			Х
	the appropriately colored			
	box			

Field Name: Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Length information field			Х
	pops up in the appropriately			
	colored box			

Field Name: Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Checksum information field			Х
	pops up in the appropriately			
	colored box			

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Data information field pops			Х
	up in the appropriately			
	colored box			

3.6.4 SNMP Testing Sheet for the selected SNMP PDU

	Screen: SNMP PDU
Date:	4/25/04
Tester:	Jayme Gresen
Screen:	Pass X Fail

Field Name: Version

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Version information field		Х	
	pops up in the appropriate			
	colored box			

Field Name: Community

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Community information		Х	
	field pops up in the			
	appropriate colored box			

Field Name: PDU Type

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	PDU information field pops		Х	
	up in the appropriate			
	colored box			

Field Name: Request ID

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Request ID information		Х	
	field pops up in the			
	appropriate colored box			

Field Name: Error Status

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Error status information		Х	
	field pops up in the			
	appropriate colored box			

Screen: SNMP PDU

Field Name: Object Id

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Object information field		Х	
	pops up in the appropriate			
	colored box			

Field Name: Value Integer

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Value information field		Х	
	pops up in the appropriate			
	colored box			

Field Name: Value ID

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Value ID information field		Х	
	pops up in the appropriate			
	colored box			

Field Name: Object ID

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Object information field		Х	
	pops up in the appropriate			
	colored box			

3.7 FTP Testing Sheets

3.7.1 Ethernet Testing Sheet for the selected FTP PDU

	Screen: Ethernet
Date:	4/25/04
Tester:	Lauren Englisbe
Screen:	Pass X Fail

Field Name: "Choose a Protocol" Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Tree with all possible		Х	
	protocols is displayed			

Field Name: IPv4 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Pops up message box		Х	
	saying feature is currently			
	unavailable			

Field Name: IPv6 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Message box will be		Х	
	displayed saying that IPv6			
	is currently not available			

Field Name: *Preamble*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Preamble information field		X	
	is displayed in a blue box			

Field Name: Start of Frame (SOF)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	SOF information field is		Х	
	displayed in a gray box			

Field Name: Cyclic Redundancy Check (CRC)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	CRC information field is		Х	
	displayed in a yellow box			

Screen: Ethernet

Field Name: *IP PDU*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	IP PDU information field is		Х	
	displayed in a green box			

3.7.2 IP Testing Sheet for the selected FTP PDU

	Screen: IP PDU
Date:	4/25/04
Tester:	Lauren Englisbe
Screen:	Pass X Fail

Field Name: Version

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Version information field		Х	
	pops up in a pink box			

Field Name: Internet Header Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Internet Header Length		Х	
	information field pops up in			
	a cyan box			

Field Name: *Type of Service*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Type of Service information		Х	
	field pops up in a purple			
	box			

Field Name: Total Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Total Length information		Х	
	field pops up in a brown			
	box			

Field Name: Identification

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Identification information		X	
	field pops up in a red box			

Field Name: Flags

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Flags information field pops		Х	
	up in a gray box			

Field Name: Fragment Offset

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Fragment Offset		Х	
	information field pops up in			
	a magenta box			

Field Name: *Time to Live*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Time to Live information		Х	
	field pops up in an indigo			
	box			

Field Name: Protocol

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Protocol information field		Х	
	pops up in a yellow box			

Field Name: Header Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Header Checksum		Х	
	information field pops up in			
	a coral box			

Field Name: Source IP Address

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Source IP Address		Х	
	information field pops up in			
	a green box			

Field Name: *Destination IP Address*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Destination IP Address		Х	
	information field pops up in			
	a brown box			

Field Name: Options

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Options information field		Х	
	pops up in a blue box			

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	General information box for		Х	
	next PDU pops up			

3.7.3 TCP Testing Sheet for the selected FTP PDU

	Screen: TCP PDU
Date:	4/25/04
Tester:	Lauren Englisbe
Screen:	Pass X Fail

Field Name: Source Port

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Source Port information		Х	
	field pops up in a pink box			

Field Name: Destination Port

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Destination Port		Х	
	information field pops up in			
	a cyan box			

Field Name: Sequence Number

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Sequence Number		Х	
	information field pops up in			
	a coral box			

Field Name: Acknowledgement Number

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Acknowledgment Number		Х	
	information field pops up in			
	a green box			

Field Name: Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Length information field		Х	
	pops up in a purple box			

Field Name: Reserved

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Reserved information field		Х	
	pops up in a magenta box			

Field Name: URG

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	URG information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: ACK

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	ACK information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: PSH

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	PSH information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: RST

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	RST information field pops		Х	
	up in a magenta box			

Field Name: SYN

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	SYN information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: FIN

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	FIN information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: Window Size

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Window Size information		Х	
	field pops up in sky blue			
	box			

Field Name: Data

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	General information box for		Х	
	next PDU pops up			

Field Name: Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Checksum information field		Х	
	pops up in a green box			

Field Name: Urgent Pointer

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Urgent Pointer information		X	
	field pops up in a yellow			
	box			

Field Name: Options

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Options information field		Х	
	pops up in a magenta box			

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	FTP PDU pops up		Х	

3.7.4 FTP Testing Sheet for the selected FTP PDU

Screen: FTP PDU				
Date:	4/25/04			
Tester:	Lauren Englisbe			
Screen:	Pass X Fail			

Field Name: *Destination Address*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Destination Address field			
	information box is		Х	
	contained within an orange			
	FTP PDU information box			

Field Name: Source Address

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Source Address field			
	information box is		Х	
	contained within an orange			
	FTP PDU information box			

Field Name: Pass

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Pass field information box			
	is contained within an		Х	
	orange FTP PDU			
	information box			

3.8 SSH Testing Sheets

3.8.1 Ethernet Testing sheet for the selected SSH PDU

	Screen: Ethernet
Date:	4/25/04
Tester:	Lauren Englisbe
Screen:	Pass X Fail

Field Name: "Choose a Protocol" Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Tree with all possible		Х	
	protocols is displayed			

Field Name: IPv4 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Pops up message box		Х	
	saying feature is currently			
	unavailable			

Field Name: IPv6 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Message box will be		Х	
	displayed saying that IPv6			
	is currently not available			

Field Name: *Preamble*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Preamble information field		X	
	is displayed in a blue box			

Field Name: Start of Frame (SOF)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	SOF information field is		Х	
	displayed in a gray box			

Field Name: Cyclic Redundancy Check (CRC)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	CRC information field is		Х	
	displayed in a yellow box			

Screen: Ethernet

Field Name: *IP PDU*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	IP PDU information field is		Х	
	displayed in a green box			

3.8.2 IP Testing Sheet for the selected SSH PDU

	Screen: IP PDU
Date:	4/25/04
Tester:	Lauren Englisbe
Screen:	Pass X Fail

Field Name: Version

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Version information field		Х	
	pops up in a pink box			

Field Name: Internet Header Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Internet Header Length		Х	
	information field pops up in			
	a cyan box			

Field Name: *Type of Service*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Type of Service information		Х	
	field pops up in a purple			
	box			

Field Name: Total Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Total Length information		Х	
	field pops up in a brown			
	box			

Field Name: Identification

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Identification information		X	
	field pops up in a red box			

Field Name: Flags

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Flags information field pops		Х	
	up in a gray box			

Field Name: Fragment Offset

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Fragment Offset		Х	
	information field pops up in			
	a magenta box			

Field Name: *Time to Live*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Time to Live information		Х	
	field pops up in an indigo			
	box			

Field Name: Protocol

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Protocol information field		Х	
	pops up in a yellow box			

Field Name: Header Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Header Checksum		Х	
	information field pops up in			
	a coral box			

Field Name: Source IP Address

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Source IP Address		Х	
	information field pops up in			
	a green box			

Field Name: *Destination IP Address*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Destination IP Address		Х	
	information field pops up in			
	a brown box			

Field Name: Options

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Options information field		Х	
	pops up in a blue box			

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	General information box for		Х	
	next PDU pops up			

3.8.3 TCP Testing Sheet for the selected SSH PDU

	Screen: TCP PDU
Date:	4/25/04
Tester:	Lauren Englisbe
Screen:	Pass X Fail

Field Name: Source Port

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Source Port information		Х	
	field pops up in a pink box			

Field Name: Destination Port

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Destination Port		Х	
	information field pops up in			
	a cyan box			

Field Name: Sequence Number

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Sequence Number		Х	
	information field pops up in			
	a coral box			

Field Name: Acknowledgement Number

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Acknowledgment Number		Х	
	information field pops up in			
	a green box			

Field Name: Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Length information field		Х	
	pops up in a purple box			

Field Name: Reserved

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Reserved information field		Х	
	pops up in a magenta box			

Field Name: URG

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	URG information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: ACK

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	ACK information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: PSH

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	PSH information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: RST

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	RST information field pops		Х	
	up in a magenta box			

Field Name: SYN

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	SYN information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: FIN

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	FIN information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: Window Size

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Window Size information		Х	
	field pops up in sky blue			
	box			

Field Name: Data

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	General information box for		Х	
	next PDU pops up			

Field Name: Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Checksum information field		Х	
	pops up in a green box			

Field Name: Urgent Pointer

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Urgent Pointer information		X	
	field pops up in a yellow			
	box			

Field Name: Options

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Options information field		Х	
	pops up in a magenta box			

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	FTP PDU pops up		Х	

3.8.4 SSH Testing Sheet for the selected SSH PDU

	Screen: SSH PDU
Date:	4/25/04
Tester:	Lauren Englisbe
Screen:	Pass X Fail

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Data information field pops		Х	
	up in an orange box			

3.9 HTTP Testing Sheets

3.9.1 Ethernet Testing Sheet for the selected HTTP PDU

		Screen: Ethernet
Date:	4/25/04	
Tester:	Paul Aiuto	
Screen:	Pass X	Fail

Field Name: "Choose a Protocol" Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Tree with all possible		X	
	protocols is displayed			

Field Name: IPv4 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Pops up message box		Х	
	saying feature is currently			
	unavailable			

Field Name: IPv6 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Message box will be		Х	
	displayed saying that IPv6			
	is currently not available			

Field Name: Preamble

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Preamble information field		X	
	is displayed in a blue box			

Field Name: Start of Frame (SOF)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	SOF information field is		Х	
	displayed in a gray box			

Field Name: Cyclic Redundancy Check (CRC)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	CRC information field is		Х	
	displayed in a yellow box			

Screen: Ethernet

Field Name: *IP PDU*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	IP PDU information field is		X	
	displayed in a green box			
3.9.2 IP Testing Sheet for the selected HTTP PDU

			Screen: IP PDU
Date:	4/25/04		
Tester:	Paul Aiuto		
Screen:	Pass X	Fail	

Field Name: Version

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Version information field		Х	
	pops up in a pink box			

Field Name: Internet Header Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Internet Header Length		Х	
	information field pops up in			
	a cyan box			

Field Name: *Type of Service*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Type of Service information		Х	
	field pops up in a purple			
	box			

Field Name: Total Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Total Length information		Х	
	field pops up in a brown			
	box			

Field Name: Identification

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Identification information		X	
	field pops up in a red box			

Screen: IP PDU

Field Name: Flags

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Flags information field pops		Х	
	up in a gray box			

Field Name: Fragment Offset

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Fragment Offset		Х	
	information field pops up in			
	a magenta box			

Field Name: *Time to Live*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Time to Live information		Х	
	field pops up in an indigo			
	box			

Field Name: Protocol

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Protocol information field		Х	
	pops up in a yellow box			

Field Name: Header Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Header Checksum		Х	
	information field pops up in			
	a coral box			

Field Name: Source IP Address

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Source IP Address		Х	
	information field pops up in			
	a green box			

Screen: IP PDU

Field Name: Destination IP Address

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Destination IP Address		Х	
	information field pops up in			
	a brown box			

Field Name: Options

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Options information field		Х	
	pops up in a blue box			

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	General information box for		Х	
	next PDU pops up			

3.9.3 TCP Testing Sheet for the selected HTTP PDU

		Screen: TCP PDU
Date:	4/25/04	
Tester:	Paul Aiuto	
Screen:	Pass X	Fail

Field Name: Source Port

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Source Port information		Х	
	field pops up in a pink box			

Field Name: Destination Port

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Destination Port		Х	
	information field pops up in			
	a cyan box			

Field Name: Sequence Number

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Sequence Number		Х	
	information field pops up in			
	a coral box			

Field Name: Acknowledgement Number

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Acknowledgment Number		Х	
	information field pops up in			
	a green box			

Field Name: Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Length information field		Х	
	pops up in a purple box			

Field Name: Reserved

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Reserved information field		Х	
	pops up in a magenta box			

Field Name: URG

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	URG information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: ACK

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	ACK information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: PSH

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	PSH information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: RST

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	RST information field pops		Х	
	up in a magenta box			

Field Name: SYN

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	SYN information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: FIN

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	FIN information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: Window Size

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Window Size information		Х	
	field pops up in sky blue			
	box			

Field Name: Data

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	General information box for		Х	
	next PDU pops up			

Field Name: Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Checksum information field		Х	
	pops up in a green box			

Field Name: Urgent Pointer

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Urgent Pointer information		X	
	field pops up in a yellow			
	box			

Field Name: Options

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Options information field		Х	
	pops up in a magenta box			

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	FTP PDU pops up		Х	

3.9.4 HTTP Testing Sheet for the selected HTTP PDU

		Screen: HTTP
Date:	4/25/04	
Tester:	Paul Aiuto	
Screen:	Pass X	Fail

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Data information field pops		Х	
	up in an orange box			

3.10 TELNET Testing Sheets 3.10.1 Ethernet Testing Sheets for the selected TELNET PDU

	Screen: Ethernet
Date:	4/25/04
Tester:	Jayme Gresen
Screen:	Pass X Fail

Field Name: "Choose a Protocol" Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Tree with all possible		X	
	protocols is displayed			

Field Name: IPv4 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Pops up message box		Х	
	saying feature is currently			
	unavailable			

Field Name: IPv6 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Message box will be		Х	
	displayed saying that IPv6			
	is currently not available			

Field Name: *Preamble*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Preamble information field		X	
	is displayed in a blue box			

Field Name: Start of Frame (SOF)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	SOF information field is		Х	
	displayed in a gray box			

Field Name: Cyclic Redundancy Check (CRC)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	CRC information field is		Х	
	displayed in a yellow box			

Screen: Ethernet

Field Name: *IP PDU*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	IP PDU information field is		X	
	displayed in a green box			

3.10.2 IP Testing Sheet for the selected TELNET PDU

	Screen: IP PDU
Date:	4/25/04
Tester:	Jayme Gresen
Screen:	Pass X Fail

Field Name: Version

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Version information field		Х	
	pops up in a pink box			

Field Name: Internet Header Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Internet Header Length		Х	
	information field pops up in			
	a cyan box			

Field Name: *Type of Service*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Type of Service information		Х	
	field pops up in a purple			
	box			

Field Name: Total Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Total Length information		Х	
	field pops up in a brown			
	box			

Field Name: Identification

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Identification information		Х	
	field pops up in a red box			

Screen: IP PDU

Field Name: Flags

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Flags information field pops		Х	
	up in a gray box			

Field Name: Fragment Offset

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Fragment Offset		Х	
	information field pops up in			
	a magenta box			

Field Name: *Time to Live*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Time to Live information		Х	
	field pops up in an indigo			
	box			

Field Name: Protocol

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Protocol information field		Х	
	pops up in a yellow box			

Field Name: Header Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Header Checksum		Х	
	information field pops up in			
	a coral box			

Field Name: Source IP Address

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Source IP Address		Х	
	information field pops up in			
	a green box			

Screen: IP PDU

Field Name: Destination IP Address

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Destination IP Address		Х	
	information field pops up in			
	a brown box			

Field Name: Options

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Options information field		Х	
	pops up in a blue box			

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	General information box for		Х	
	next PDU pops up			

3.10.3 TCP Testing Sheet for the selected TELNET PDU

	Screen: TCP PDU
Date:	4/25/04
Tester:	Jayme Gresen
Screen:	Pass X Fail

Field Name: Source Port

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Source Port information		Х	
	field pops up in a pink box			

Field Name: Destination Port

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Destination Port		Х	
	information field pops up in			
	a cyan box			

Field Name: Sequence Number

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Sequence Number		Х	
	information field pops up in			
	a coral box			

Field Name: Acknowledgement Number

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Acknowledgment Number		Х	
	information field pops up in			
	a green box			

Field Name: Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Length information field		Х	
	pops up in a purple box			

Field Name: Reserved

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Reserved information field		Х	
	pops up in a magenta box			

Field Name: URG

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	URG information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: ACK

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	ACK information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: PSH

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	PSH information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: RST

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	RST information field pops		Х	
	up in a magenta box			

Field Name: SYN

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	SYN information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: FIN

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	FIN information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: Window Size

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Window Size information		Х	
	field pops up in sky blue			
	box			

Field Name: Data

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	General information box for		Х	
	next PDU pops up			

Field Name: Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Checksum information field		Х	
	pops up in a green box			

Field Name: Urgent Pointer

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Urgent Pointer information		X	
	field pops up in a yellow			
	box			

Field Name: Options

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Options information field		Х	
	pops up in a magenta box			

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	FTP PDU pops up		Х	

3.10.4 TELNET Testing Sheet for the selected TELNET PDU

	Screen: TELNET PDU
Date:	4/25/04
Tester:	Jayme Gresen
Screen:	Pass X Fail

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Data information field pops		Х	
	up in an orange box			

3.11 SMTP Testing Sheet 3.11.1 Ethernet Testing Sheet for the selected SMTP PDU

		Screen: Ethernet
Date:	4/25/04	
Tester:	Paul Aiuto	
Screen:	Pass X	Fail

Field Name: "Choose a Protocol" Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Tree with all possible		X	
	protocols is displayed			

Field Name: IPv4 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Pops up message box		Х	
	saying feature is currently			
	unavailable			

Field Name: IPv6 Button

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Message box will be		Х	
	displayed saying that IPv6			
	is currently not available			

Field Name: *Preamble*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Preamble information field		X	
	is displayed in a blue box			

Field Name: *Start of Frame (SOF)*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	SOF information field is		Х	
	displayed in a gray box			

Field Name: Cyclic Redundancy Check (CRC)

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	CRC information field is		Х	
	displayed in a yellow box			

Screen: Ethernet

Field Name: *IP PDU*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	IP PDU information field is		X	
	displayed in a green box			

3.11.2 IP Testing Sheet for the selected SMTP PDU

			Screen: IP PDU
Date:	4/25/04		
Tester:	Paul Aiuto		
Screen:	Pass X	Fail	

Field Name: Version

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Version information field		Х	
	pops up in a pink box			

Field Name: Internet Header Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Internet Header Length		Х	
	information field pops up in			
	a cyan box			

Field Name: *Type of Service*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Type of Service information		Х	
	field pops up in a purple			
	box			

Field Name: Total Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Total Length information		Х	
	field pops up in a brown			
	box			

Field Name: Identification

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Identification information		Х	
	field pops up in a red box			

Screen: IP PDU

Field Name: Flags

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Flags information field pops		Х	
	up in a gray box			

Field Name: Fragment Offset

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Fragment Offset		Х	
	information field pops up in			
	a magenta box			

Field Name: *Time to Live*

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Time to Live information		Х	
	field pops up in an indigo			
	box			

Field Name: Protocol

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Protocol information field		Х	
	pops up in a yellow box			

Field Name: Header Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Header Checksum		Х	
	information field pops up in			
	a coral box			

Field Name: Source IP Address

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Source IP Address		Х	
	information field pops up in			
	a green box			

Screen: IP PDU

Field Name: Destination IP Address

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Destination IP Address		Х	
	information field pops up in			
	a brown box			

Field Name: Options

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Options information field		Х	
	pops up in a blue box			

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	General information box for		Х	
	next PDU pops up			

3.11.3 TCP Testing Sheet for the selected SMTP PDU

		Screen: TCP PDU
Date:	4/25/04	
Tester:	Paul Aiuto	
Screen:	Pass X	Fail

Field Name: Source Port

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Source Port information		Х	
	field pops up in a pink box			

Field Name: Destination Port

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Destination Port		Х	
	information field pops up in			
	a cyan box			

Field Name: Sequence Number

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Sequence Number		Х	
	information field pops up in			
	a coral box			

Field Name: Acknowledgement Number

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Acknowledgment Number		Х	
	information field pops up in			
	a green box			

Field Name: Length

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Length information field		Х	
	pops up in a purple box			

Field Name: Reserved

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Reserved information field		Х	
	pops up in a magenta box			

Field Name: URG

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	URG information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: ACK

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	ACK information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: PSH

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	PSH information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: RST

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	RST information field pops		Х	
	up in a magenta box			

Field Name: SYN

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	SYN information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: FIN

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	FIN information field pops		Х	
	up in a green box			
	containing all Control			
	Fields			

Field Name: Window Size

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Window Size information		Х	
	field pops up in sky blue			
	box			

Field Name: Data

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	General information box for		Х	
	next PDU pops up			

Field Name: Checksum

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Checksum information field		Х	
	pops up in a green box			

Field Name: Urgent Pointer

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Urgent Pointer information		X	
	field pops up in a yellow			
	box			

Field Name: Options

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Options information field		Х	
	pops up in a magenta box			

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	FTP PDU pops up		Х	

3.11.4 SMTP Testing sheet for the selected SMTP PDU

Screen: SMTP PDU					
Date:	4/25/04				
Tester:	Paul Aiuto				
Screen:	Pass X	Fail			

Attempted	Expected Result	Comments	Pass	Fail
1. Right Click	Nothing pops up			
2. Left Click	Data Information field pops		Х	
	up in an orange box			

4.0 Glossary

ASCII:

American Standard Code for Information Interchange: a code for representing English characters as numbers, with each letter assigned a number from 0 to 127.

Attribute:

A named value or relationship that exists for some or all instances of some entity and is directly associated with that instance.

Binary:

Pertaining to a number system that has just two unique digits, 0 and 1. Computers operate on a binary number system.

Code:

The symbolic arrangement of data or instructions in a computer program or the set of such instructions.

Data Flow Diagram:

A graphical notation used to describe how data flows between processes in a system. They are a representation of the functional decomposition of a system.

Decimal:

Refers to numbers in base 10-the numbers we use in everyday life.

Dynamic Combo Menu:

Menu showing all actions possible at the current moment.

Frame:

A feature that divides a browser's window into separate segments that can be scrolled independently of each other; a single step in a sequence of programmed instructions

GUI:

Graphical User Interface: A user interface based on graphics (icons, pictures, and menus) instead of text; uses a mouse as well as a keyboard as an input device.

Gantt Chart:

A chart that depicts progress in relation to time, often used in planning and tracking a project

Gray Box Testing: Testing procedure done with some knowledge of the internals.

HTML:

Hypertext Transfer Markup Language: A markup language used to structure text and multimedia documents and to set up hypertext links between documents, used extensively on the World Wide Web.

Hexadecimal:

Refers to the base-16 number system which consists of 16 unique symbols: the numbers 0 to 9 and the letters A to F.

Hypertext:

A computer-based text retrieval system that enables a user to access particular locations in web pages or other electronic documents by clicking on links within specific web pages or documents.

Internet:

An interconnected system of networks that connects computers around the world via the TCP/IP protocol.

Linear Sequential Model:

Sometimes called the *classic life cycle* or the *waterfall model*, this model suggests a systematic, sequential approach to software development that begins at the system level and progresses through analysis, design, coding, testing, and support.

Linux:

A trademark for an open-source version of the UNIX operating system.

Network:

A group of two or more computer systems linked together.

Open-Source:

A method and philosophy for software licensing and distribution designed to encourage use and improvement of software written by volunteers by ensuring that anyone can copy the source code.

PHP:

PHP Hypertext Preprocessor (server-side scripting language)

Packet:

A short block of data transmitted in a packet switching network.

PDU:

Protocol Data Unit: A packet of data passed across a network.

Protocol:

A set of formal rules describing how to transmit data, especially across a network.

Prototype:

An original type, form, or instance serving as a basis or standard for later stages.

RFC:

Request for Comments: One of a long-establish series of numbered Internet informational documents and standards widely followed by commercial software and freeware in the Internet and Unix communities.

Software:

The code executed by a computer, as opposed to the physical device which they run on.

TCP/IP:

Transmission Control Protocol/Internet Protocol: A suite of protocols for communication between computers, used as a standard for transmitting data over networks and as the basis for standard Internet protocols.

UNIX:

A powerful operating system developed at the ATT Bell Laboratories.

Use Case:

The specification of sequences of actions that a system, subsystem, or class can perform by interacting with outside actors.

XHTML:

Extensible Hypertext Markup Language: A type of HTML that is compatible with XML. HTML is not strict enough to be compatible with XML, so XHTML was made to bridge the gap.

Visual Analyst:

Project management software used in Computer-Aided Software Engineering (CASE) to create such illustrations as the data flow diagrams.