	Post Office Protocol (POP3 Tutorial Sequence Diagram)			
Internet		EventHelix.com/EventStudio 2.5		
POP3 Client	POP3 Server	01 Are 05 07 57 (/Deer 1)		
Mail Client	POP3 Port 110	01-Apr-05 07:56 (Page 1)		
This sequence diagram was	s generated with Ev	ventStudio 2.5 (http://www.EventHelix.com/EventStudio).		
	e message interacti	POP3 (Post Office Protocol) e-mail exchange via a lons between the POP3 client and server for retrieving been described.		
The message flow describe and server:	ed here corresponds	s to the following communication between a POP3 client		
Server: +OK X1 POP3 Server Client: USER john.doe@any Server: +OK send your pas Client: PASS abcxyz Server: +OK maildrop lock Client: STAT Server: +OK 1 1317 Client: UIDL Server: +OK 1 messages (1 1 390953946	ydomain.com ssword ked and ready	zom		
Client: LIST Server: +OK 1 messages (1 1 1317	1317 octets)			
Client: RETR 1 Server: +OK 1317 octets Server: E-mail contents				
Client: DELE 1 Server: +OK msg deleted Client: QUIT Server: +OK POP3 Server s	saying Good-Bye			
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TCP SY (SYN) TCP SYN+ (SYN, AC TCP AC (ACK)	ACK K)	The POP3 client performs the three way handshake to establish a TCP connection.		
+OK X1 POP3 Server po		The POP3 server acknowledges the establishment of a POP3 TCP connection by sending the +OK response to the client.		
USER john.doe@an (PSH, AC TCP AC (ACK)	ydomain.com K)	POP3 client sends the user's e-mail address in the USER command		
+OK send your password (PSH, ACK) PASS abcxyz (PSH, ACK) TCP ACK (ACK) +OK maildrop locked and ready (PSH, ACK)		POP3 server acknowledges the request and requests for a password.		
		The POP3 client sends the user's password to the POP3 server. The password is sent in the clear!		
		The POP3 server acknowledges the message.		
STAT (PSH, AC TCP AC (ACK)	К)	The client issues the STAT command to enquire about the pending e-mails in the mailbox.		
+OK 1 13 (PSH, AC UIDL		The POP3 server indicates that there is one e-mail in the mailbox and a total of 1317 bytes are stored in the mail box. The POP3 client requests a Unique ID List (UIDL) for all the e-mails stored in the		

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Internet		EventHelix.com/EventStudio 2.5	
POP3 Client Mail Client	POP3 Server POP3 Port 110	01-Apr-05 07:56 (Page 2)	
ТСР А			
(ACK			
+OK 1 messages		The POP3 server indicates that it has an e-mail with ID 1 and length 1317 bytes.	
(PSH, A	,	The unique id according with the macrosce is cant. A dat on the pout line signific	
1 390953946 <cr: (PSH, A</cr: 		The unique id associated with the message is sent. A dot on the next line signifie end of UIDL list.	
TCP A	,		
(ACK			
LIS (PSH, A		The POP3 client issues a LIST command for all the messages.	
TCP A			
(ACK			
+OK 1 messages		The POP3 server responds to the list command with the total number of messages and size of the mailbox.	
(PSH, A 1 1317 <cr><n< td=""><td>·</td><td>0</td></n<></cr>	·	0	
(PSH, A		The POP3 server sends the list entry number and the size of the message in th mailbox. The ASCII DOT (.) signifies the end of the listing.	
TCP A	СК		
(ACK			
RETR (PSH, A		The client requests the server to retrieve message 1. This is a request to get message 1 from the mailbox.	
TCP A			
(ACK	<)		
+OK 1317 (PSH, A		The POP3 server acknowledges the request and indicates that a 1317 byte message follows.	
E-mail message <cl< td=""><td></td><td><b>.</b></td></cl<>		<b>.</b>	
(PSH, ACK), TCP Segn		The 1317 byte e-mail message is transported in one TCP segment. The actual segment length is 1322 as it includes the <cr><nl>.<cr><nl> sequence at the end Again, the ASCII DOT (.) specifies the end of the message.</nl></cr></nl></cr>	
TCP A			
(ACK DELE		The e-mail has now been stored in the e-mail client so it is requests a delete for	
(PSH, A		e-mail message 1 from the mailbox.	
TCP A	ICK .		
(ACK			
+OK msg (PSH, A		The POP3 server acknowledges the delete the of the message to the client.	
QUI		The POP3 client sends QUIT command to initiate the release of the session.	
(PSH, A			
ack +OK POP3 Server s		The server acknowledges the QUIT command.	
(PSH, A			
TCP FIN		The POP3 client sends FIN to signal the release of the client side of the TCP connection.	
(FIN, A TCP A		Server acknowledges FIN.	
TCP FIN	+ACK	The POP3 server sends FIN to signal the release of the server side of the TCP	
(FIN, A		connection.	
TCP A (ACK), tcp.		Server acknowledges FIN.	