Sender	Internet	Receiver	EventHelix.com/EventStudio 2.0		
SMTP Sender SMTP Sender	DNS DNS	SMTP Receiver SMTP Receiver	30-Jun-04 23:47 (Page 1)		
SWIT Sender	DNS	Swiff Receiver	50 Juli 01 25.17 (1 4ge 1)		
pyright © 2000-2004 I	EventHelix.com Inc. All Rig	hts Reserved.			
mple Mail Transfer Pro	tocol (SMTP) is the most w	idely used e-mail sending r	protocol. This sequence diagram describes the steps invol		
	DNS queries involved in th				
this example luke@ser	der.com is trying to send an	e-mail to aibo c3no and r	2d2 at receiver com		
	der.com is trying to send an				
	S_Query rd_Question = receiver.com		The mail.sender.com mail server first requests an M record for receiver.com.		
	S_Reply		The DNS server finds the highest preference mail ser		
MX_Record_Record_ A_Resource_R	Answer = mail.receiver.com, ecord = 66.218.71.63		for receiver.com and reports the name of the mail se in an MX resource record. The A resource record fo IP address is also included in the message.		
	SYN		mail.sender.com initiates a three way TCP connectio		
	TCP_Port = 25		handshake by sending a SYN to the IP address of mail.receiver.com. The request is sent to TCP port 2:		
	SYN_ACK				
-	ACK		The three way handshake has been completed. TCP connection has been established with mail.receiver.c		
< 220) mail.receiver.com SMTP R	Ready\r\n	The SMTP receiver replies with a string starting wi 220. This indicates that the receiver is ready to tran with the e-mail sender.		
	HELO mail.sender.com	r\n	The sending mail server identifies it self by the HEL		
	ACK		command. The HELO command contains the server name.		
◀	ACK				
		.107.3.125	The receiver cross checks the sender's name by performing a pointer query using the IP address of th sender		
		sender.com	The pointer reply provides the name of the mail serv		
	250 mail.receiver.com \r		The name is the UELO commond and a sister success		
•			The name in the HELO command and pointer query reply match. The mail.receiver.com server accepts the HELO by replying with 250		
	VRFY aibo\r\n		The sender requests verification of the first user aibo		
	ACK				
	550 Unknown user: aibo	\r\n	The user is not found. The receiver replies with 550.		
•	АСК		E-mail send to this user will not be attempted.		
	VRFY ¢3po\r\n		The c3po verification request is sent		
	ACK	→	I I I I I I I I I I I I I I I I I I I		
	250 OK \r\n		c3po is verified as present		
	ACK		copo is verified as present		
	VDEV r2d2 r n		r2d2 is also verified in the same fashion.		
	VRFY r2d2\r\n ACK	>	1202 is also vermed in the same fashion.		
	250 OK \r\n ACK				
N	IAIL FROM:luke@sender.c	com\r\n	SMTP sends the MAIL FROM command of the message envelope		
	ACK		message envelope		
	250 OK \r\n		The receiver acknowledges the receipt of the MAIL		
	ACK		FROM command		

SMTP E-mail Send (SMTP Send)										
Sen		Inter		Rece		EventHelix.com/EventStudio 2.0				
SMTP		DN		SMTP F		30-Jun-04 23:47 (Page 2)				
SMTP	Sender	DN		SMTP F	Receiver					
		RCPT TO:c3po@		r\n		The sender sends the RCPT TO command for c3po.				
		AC	K	-						
		250 O	K \r\n			Receiver acknowledges.				
	◀	AC	К							
			· ,		The sender sends the RCPT TO command for r2d2.					
		RCPT TO:r2d2@								
		AC	ĸ							
		250 O	K \r\n		Receiver acknowledges.					
		AC	K							
		DAT	1/r/n			The condensionals the start of data by using the DATA				
	DATA\r\n					The sender signals the start of data by using the DATA command				
	4	354 Enter e-m				The receiver prompts for the start of the e-mail.				
		AC	K							
<hf< td=""><td>ADERS> I</td><td>Iello Robots, Ma</td><td>the force be</td><td>with you Luk</td><td>e\r\n</td><td>Send the e-mail message headers and the body of the</td></hf<>	ADERS> I	Iello Robots, Ma	the force be	with you Luk	e\r\n	Send the e-mail message headers and the body of the				
	IDLR07 I	AC		with you. Lak		e-mail typed by the user.				
	◀	AC	K							
	<u> </u>	.\r	'n			Signal the end of the e-mail by a line containing just a				
				-		DŎT (.).				
-	250 OK Mail accepted\r\n					The SMTP receiver indicates that the e-mail has been				
		AC	K			accepted.				
		QU	IT			Signal the end of the session				
		AC				-				
		FI	NT			SMTP Receiver releases the TCP connection.				
	FIN ACK FIN ACK					SMTP Receiver releases the TCP connection.				
	•									
	I	I		I						