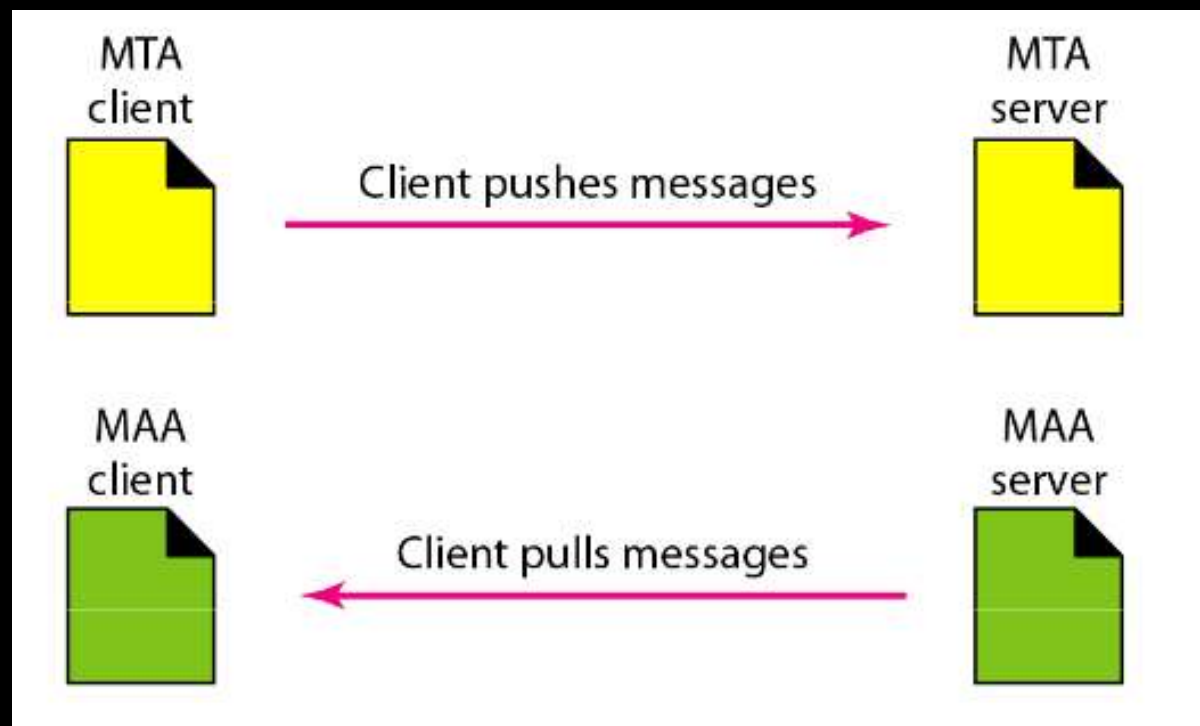


EMAIL

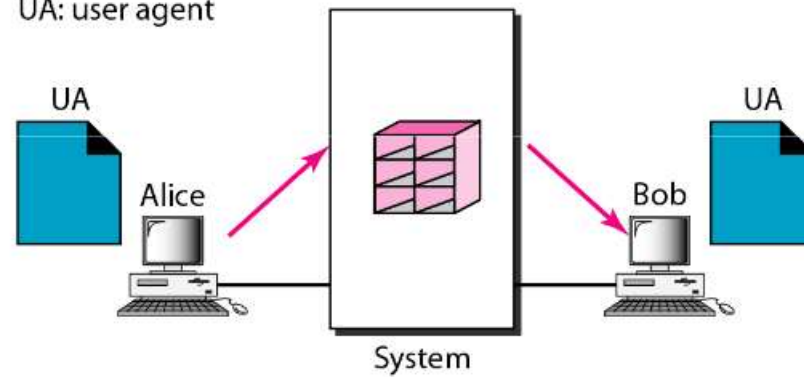
## EMAIL

- A User Agent (UA)
- Message Transfer Agent(MTA)
- Message Access Agent(MAA)

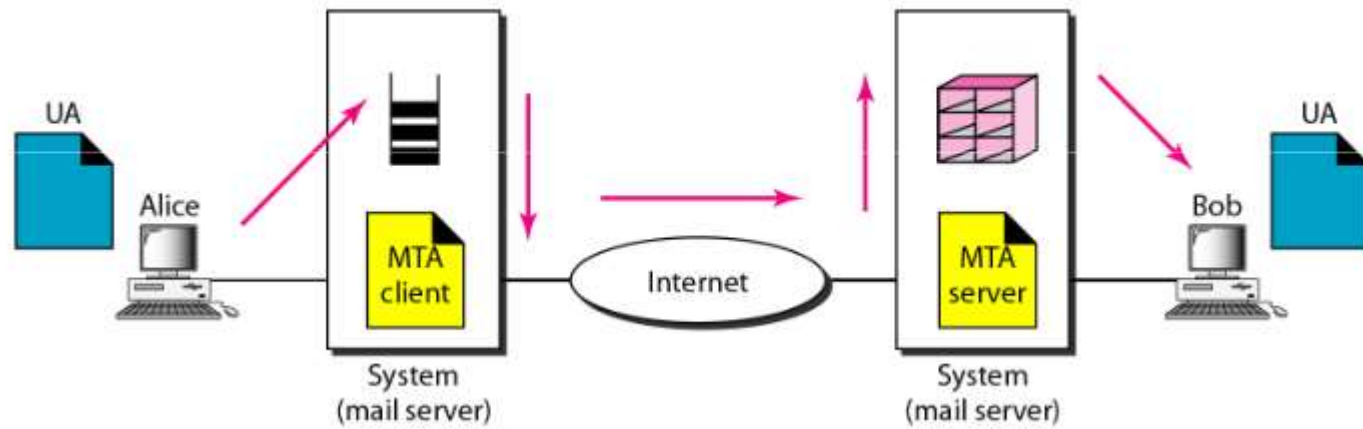


## ELECTRONIC MAIL SCENARIOS

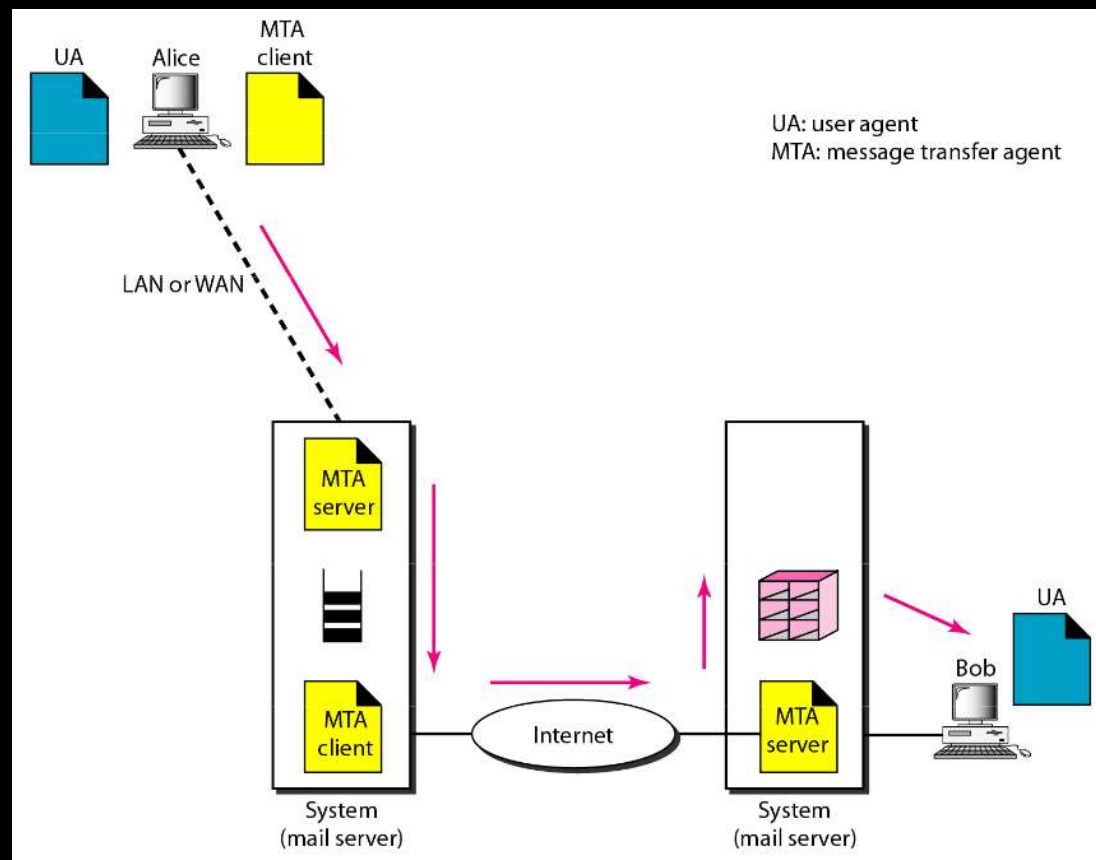
UA: user agent



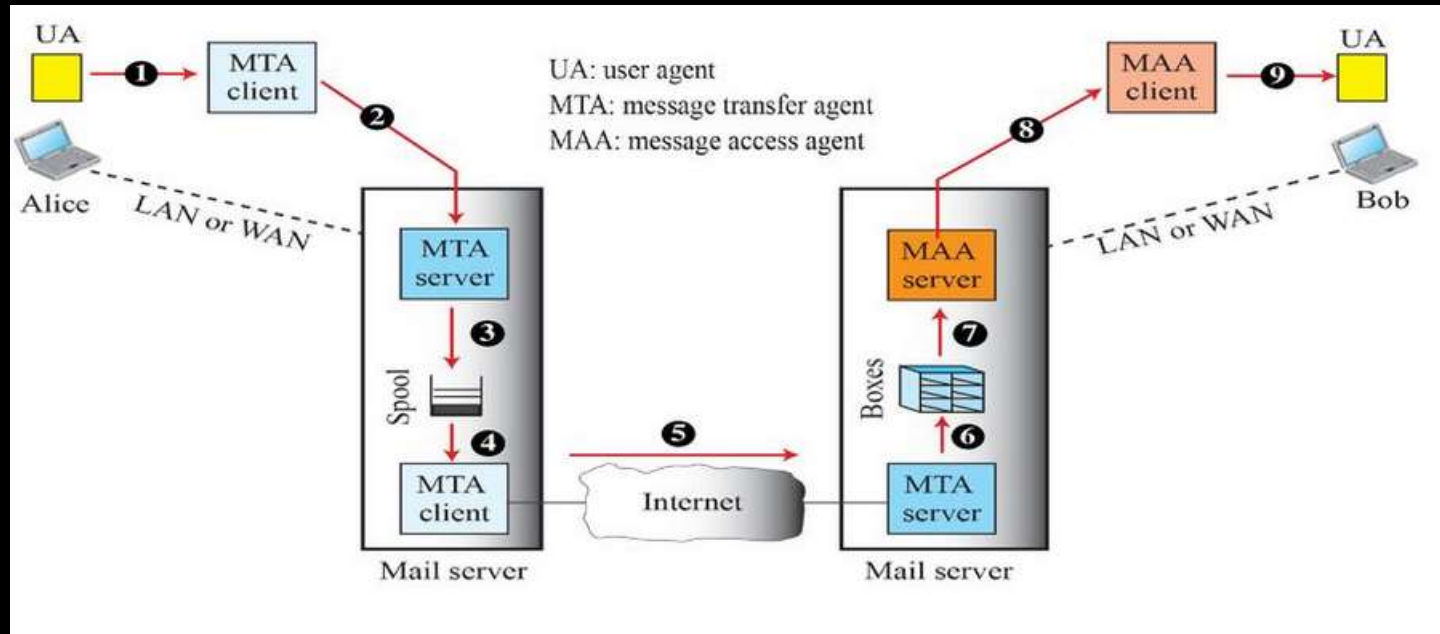
UA: user agent  
MTA: message transfer agent



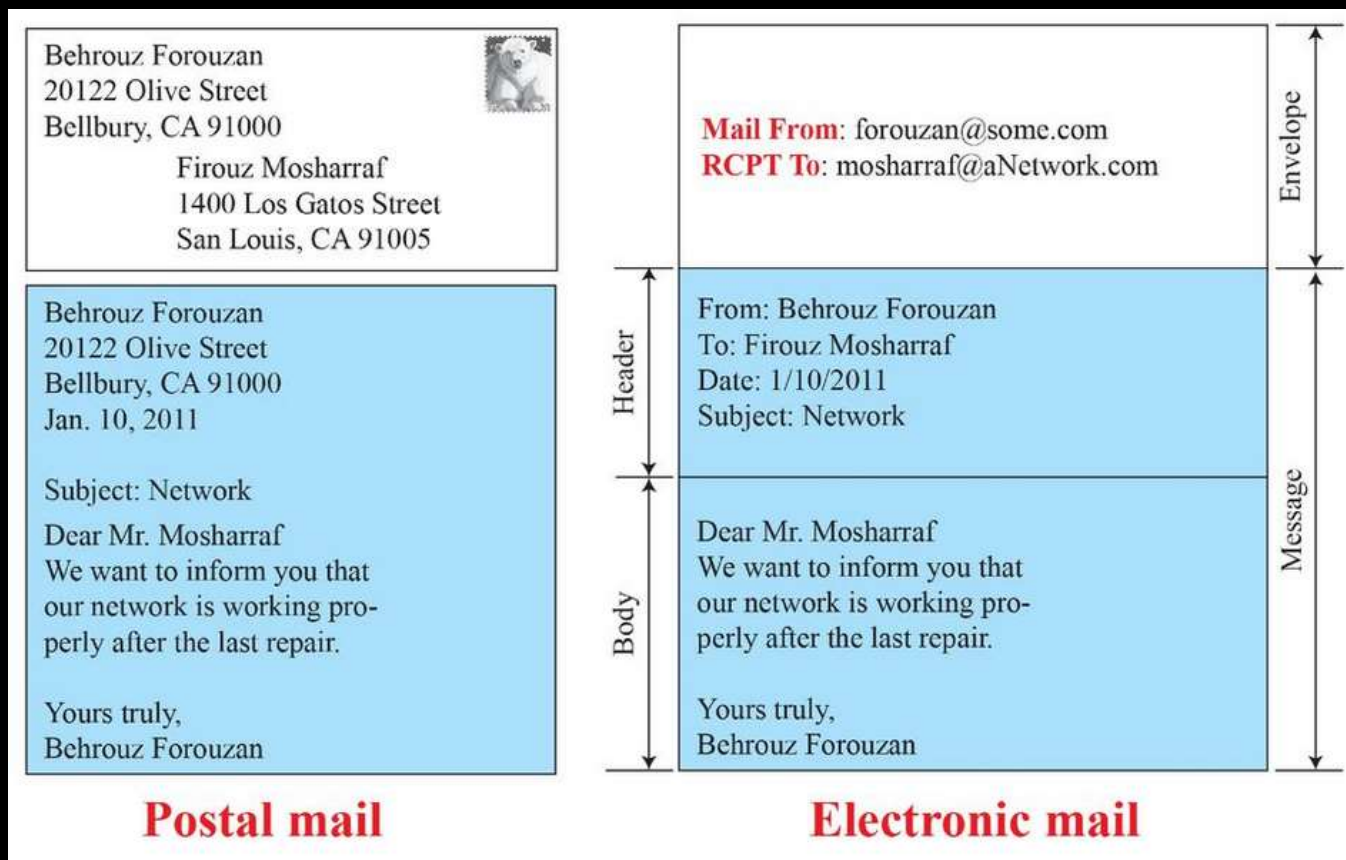
## ELECTRONIC MAIL SCENARIOS



## A COMMON SCENARIO



## EXAMPLE EMAIL



## ADDRESSES

Local part

Mailbox address of the recipient

@

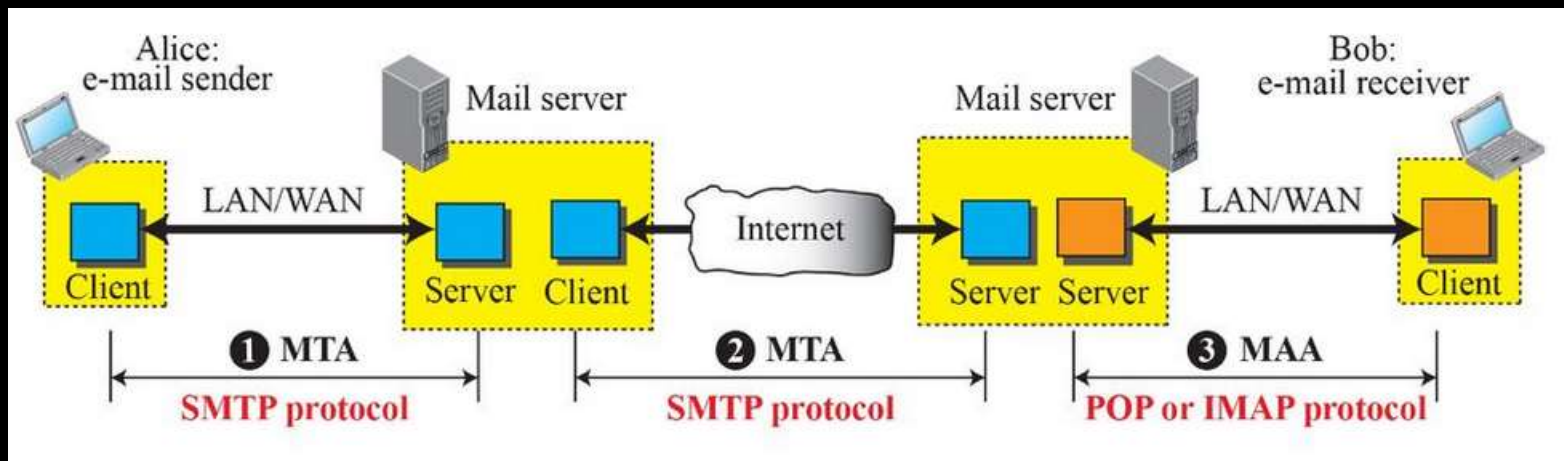
Domain name

The domain name of the mail server

Local part defines name of a special file, called user mailbox.



## SIMPLE MAIL TRANSFER PROTOCOL(SMTP)



## COMMANDS FROM MTA CLIENT TO AN MTA SERVER

<i>Keyword</i>	<i>Argument(s)</i>	<i>Description</i>
HELO	Sender's host name	Identifies itself
MAIL FROM	Sender of the message	Identifies the sender of the message
RCPT TO	Intended recipient	Identifies the recipient of the message
DATA	Body of the mail	Sends the actual message
QUIT		Terminates the message
RSET		Aborts the current mail transaction
VERFY	Name of recipient	Verifies the address of the recipient
NOOP		Checks the status of the recipient
TURN		Switches the sender and the recipient
EXPN	Mailing list	Asks the recipient to expand the mailing list.
HELP	Command name	Asks the recipient to send information about the command sent as the argument
SEND FROM	Intended recipient	Specifies that the mail be delivered only to the terminal of the recipient, and not to the mailbox
SMOL FROM	Intended recipient	Specifies that the mail be delivered to the terminal <i>or</i> the mailbox of the recipient
SMAL FROM	Intended recipient	Specifies that the mail be delivered to the terminal <i>and</i> the mailbox of the recipient

## RESPONSE FROM SERVER TO CLIENT

<i>Code</i>	<i>Description</i>
<b>Positive Completion Reply</b>	
<b>211</b>	System status or help reply
<b>214</b>	Help message
<b>220</b>	Service ready
<b>221</b>	Service closing transmission channel
<b>250</b>	Request command completed
<b>251</b>	User not local; the message will be forwarded
<b>Positive Intermediate Reply</b>	
<b>354</b>	Start mail input
<b>Transient Negative Completion Reply</b>	
<b>421</b>	Service not available
<b>450</b>	Mailbox not available
<b>451</b>	Command aborted: local error
<b>452</b>	Command aborted; insufficient storage
<b>Permanent Negative Completion Reply</b> ✓	
<b>500</b>	Syntax error; unrecognized command
<b>501</b>	Syntax error in parameters or arguments
<b>502</b>	Command not implemented
<b>503</b>	Bad sequence of commands
<b>504</b>	Command temporarily not implemented
<b>550</b>	Command is not executed; mailbox unavailable
<b>551</b>	User not local
<b>552</b>	Requested action aborted; exceeded storage location
<b>553</b>	Requested action not taken; mailbox name not allowed
<b>554</b>	Transaction failed

## POP3

