



**Thapar Institute of Engineering & Technology
(Deemed to be University)**

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**THAPAR INSTITUTE
OF ENGINEERING & TECHNOLOGY
(Deemed to be University)**

Course: Computer and Communication Networks

Topic: E-Mail & SMTP

Faculty Name

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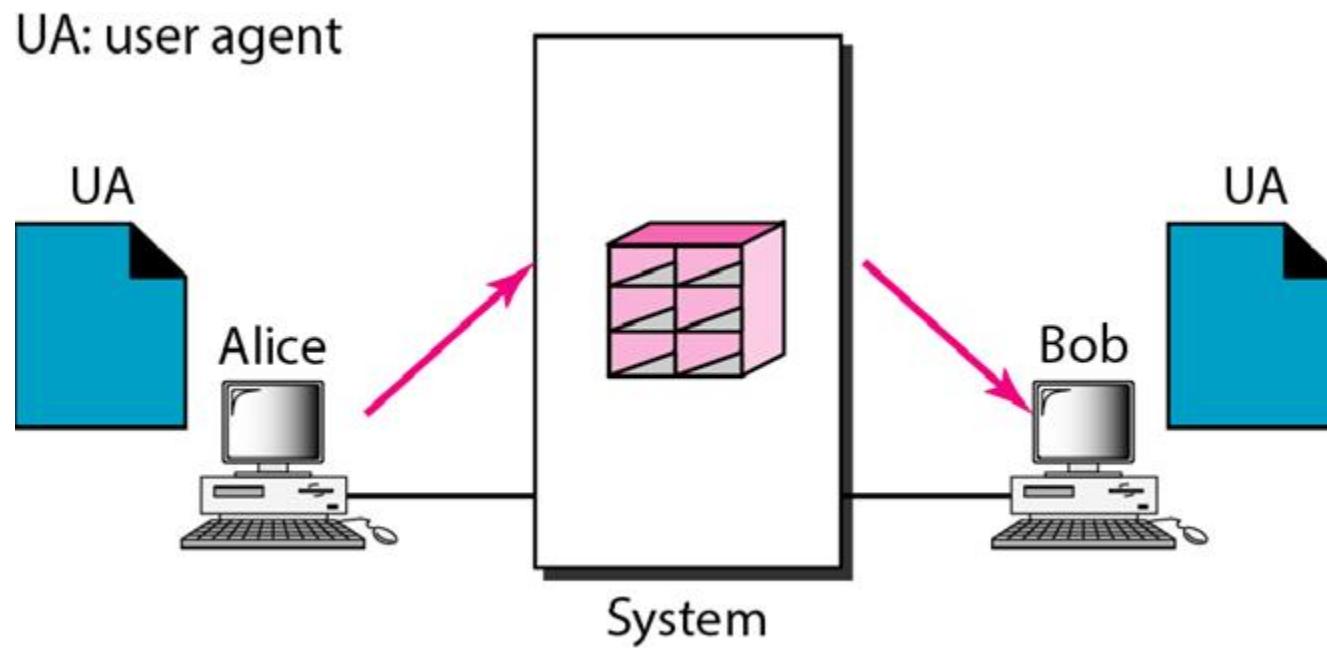
Outline of the lecture

- Digital Subscriber Line
- How DSL Works
- Asymmetric digital subscriber line (ADSL)
- Other types of DSL
- Traditional Cable TV network
- Hybrid fiber-coaxial network (HFC)
- Cable Modem

Electronic Mail

- **Email**, short for "**electronic mail**," is one of the most widely **used** features of the Internet, along with the web. It allows you to send and receive messages to and from anyone with an **email** address, anywhere in the world. **Email** uses multiple protocols within the TCP/IP suite
- The definition of an **e-mail** is a message sent from one computer to another over the Internet, using a set webmail server address. An **example** of an **e-mail** is a happy birthday message a person sends from **Features of email**
- automatic reply to messages.
- auto-forward and redirection of messages.
- facility to send copies of a message to many people.
- automatic filing and retrieval of messages.
- addresses can be stored in an address book and retrieved instantly.
- notification if a message cannot be delivered.
- their Yahoo account to their mom at her Gmail account.

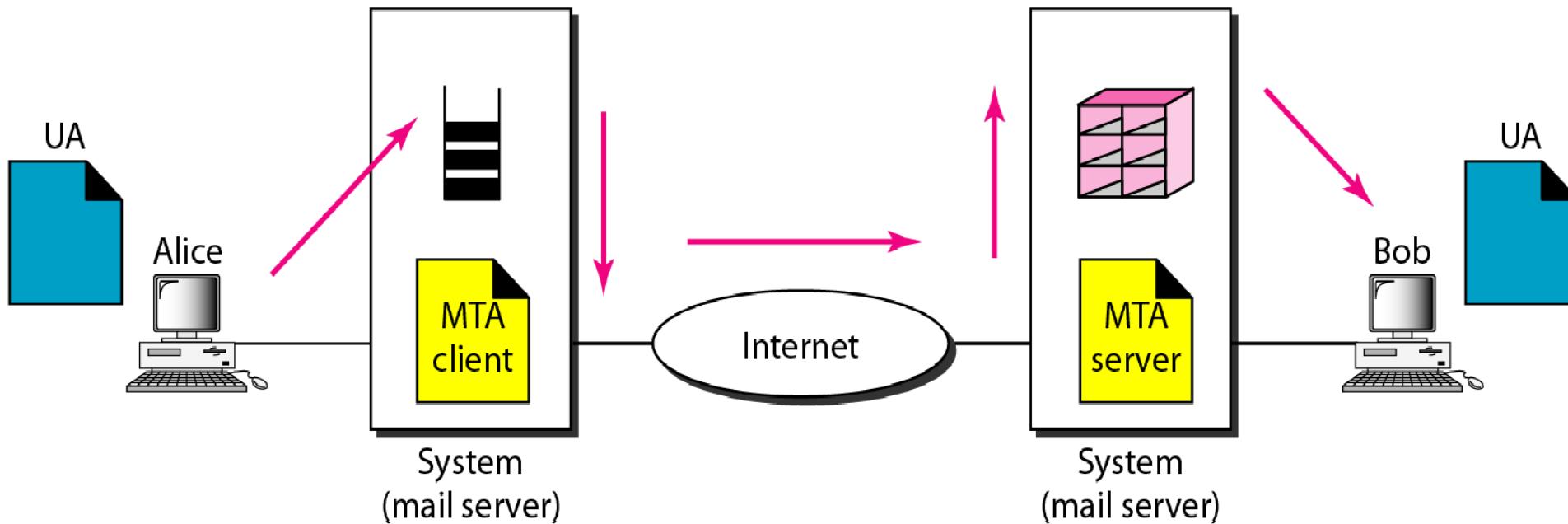
First scenario



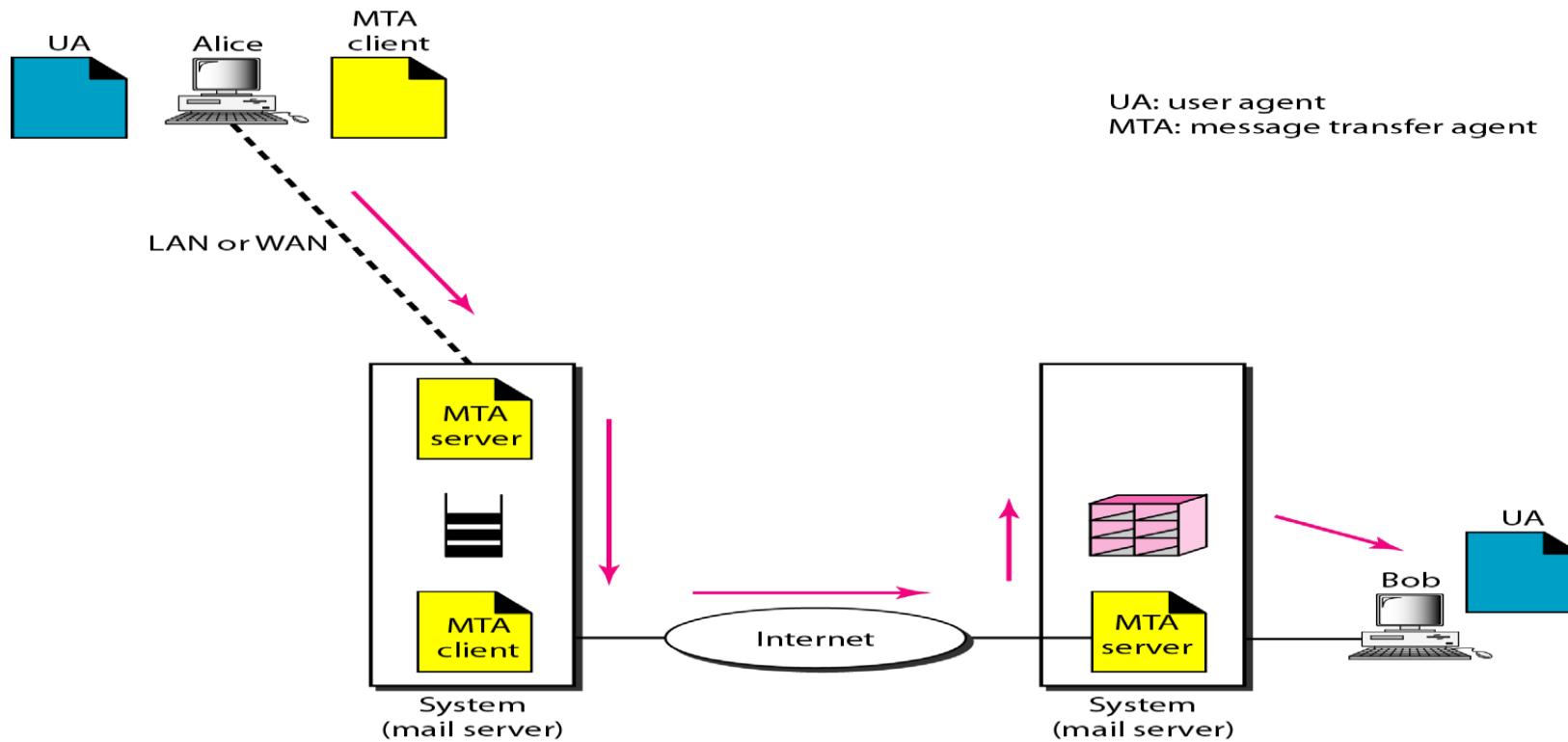
Second scenario

UA: user agent

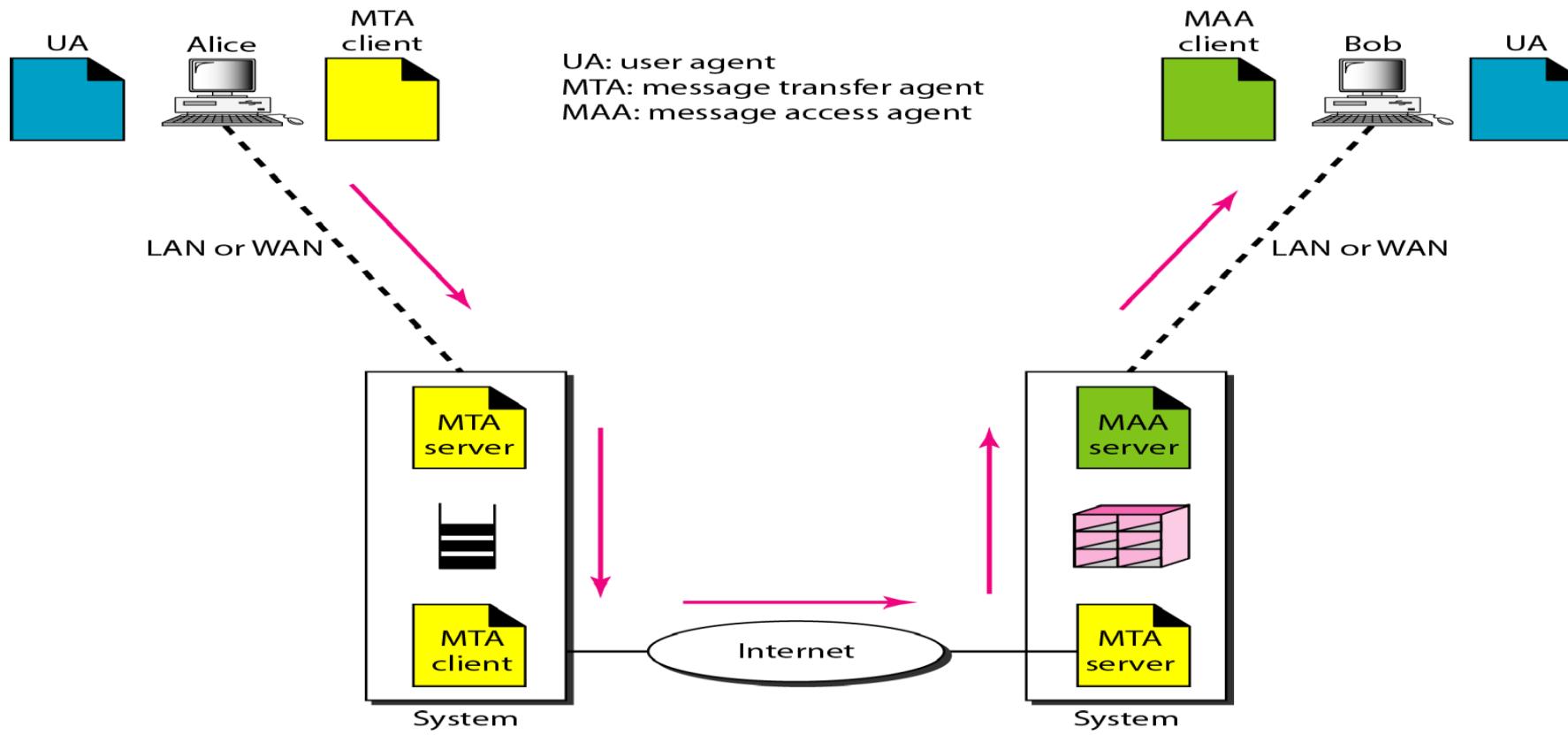
MTA: message transfer agent



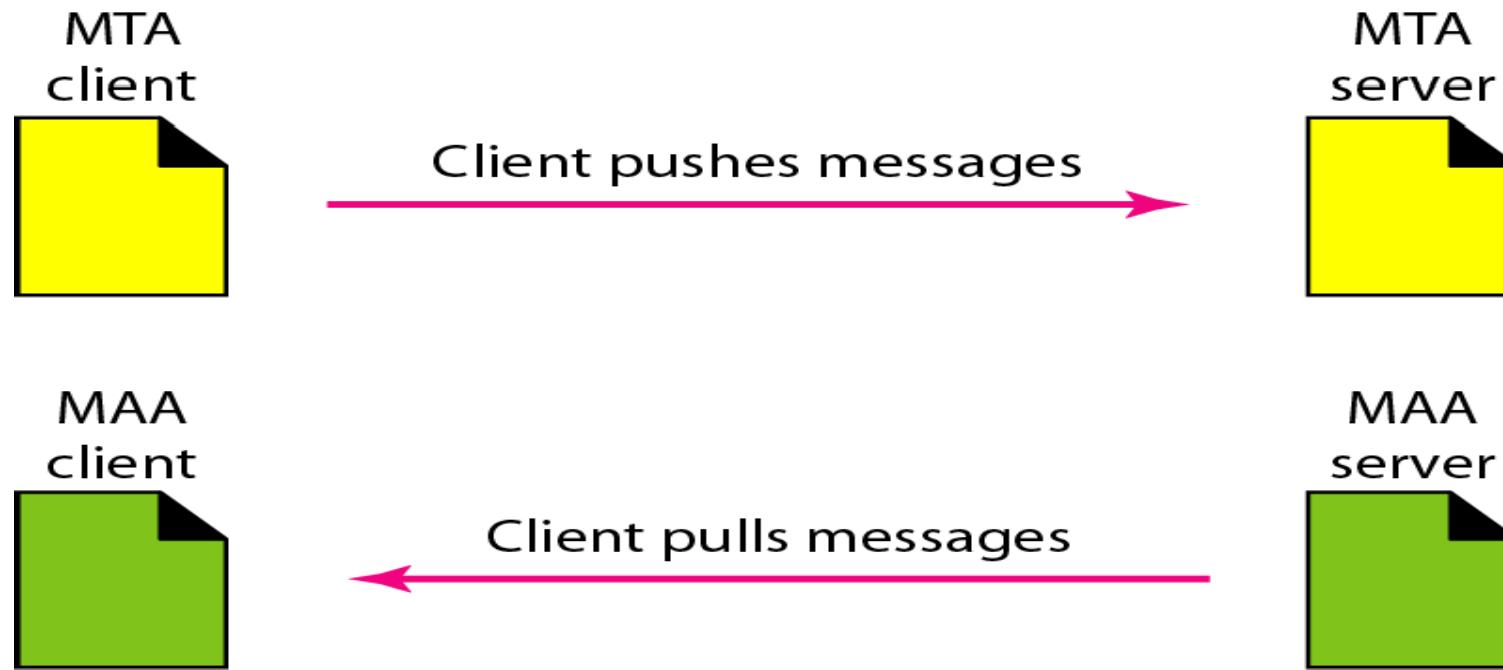
Third scenario



Fourth scenario

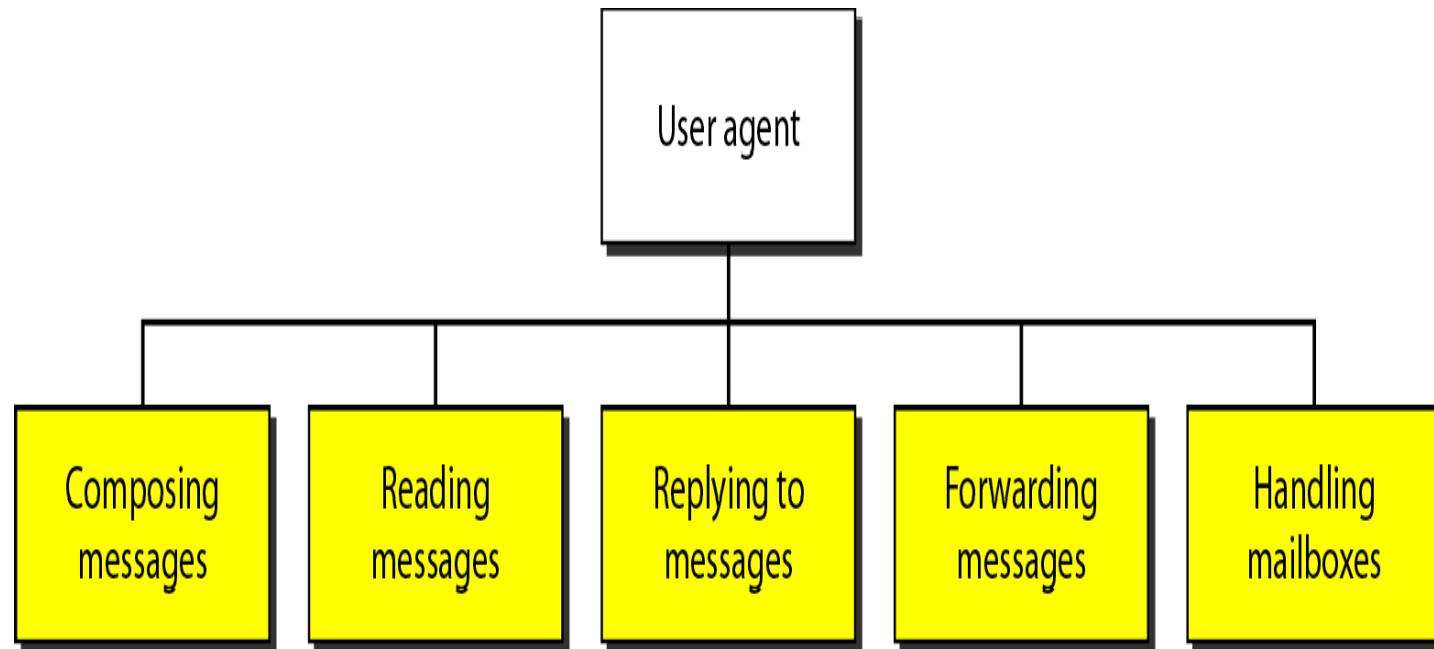


Push versus pull in electronic email

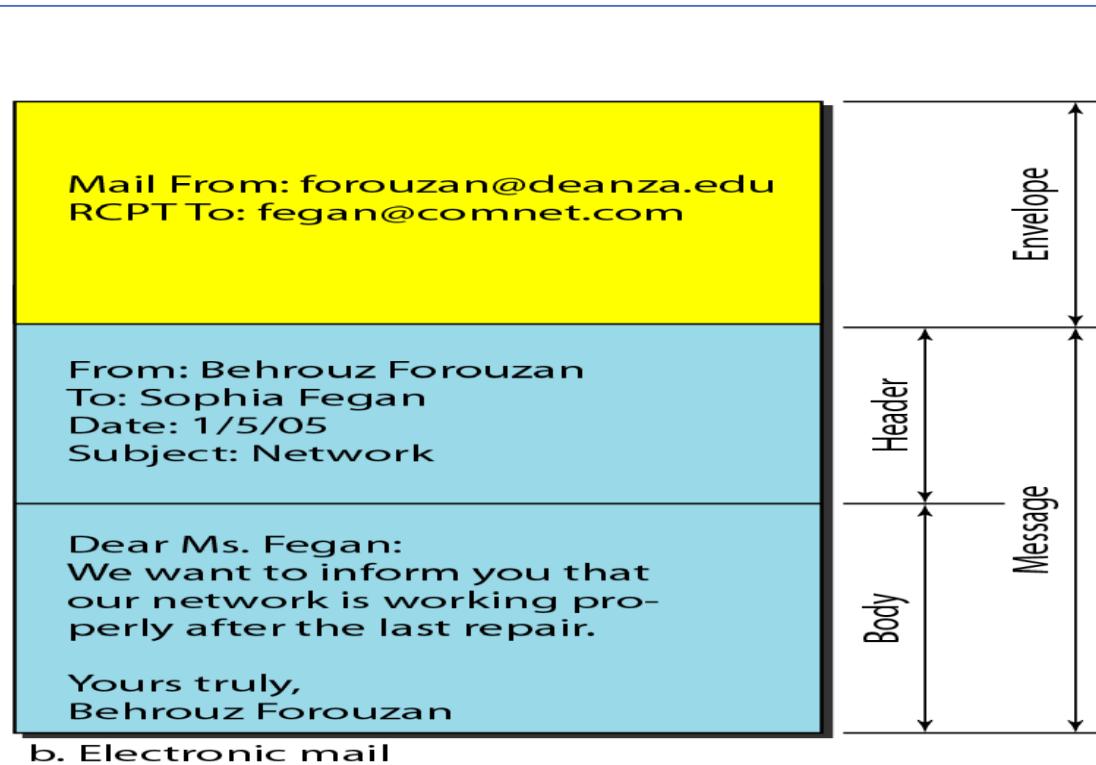
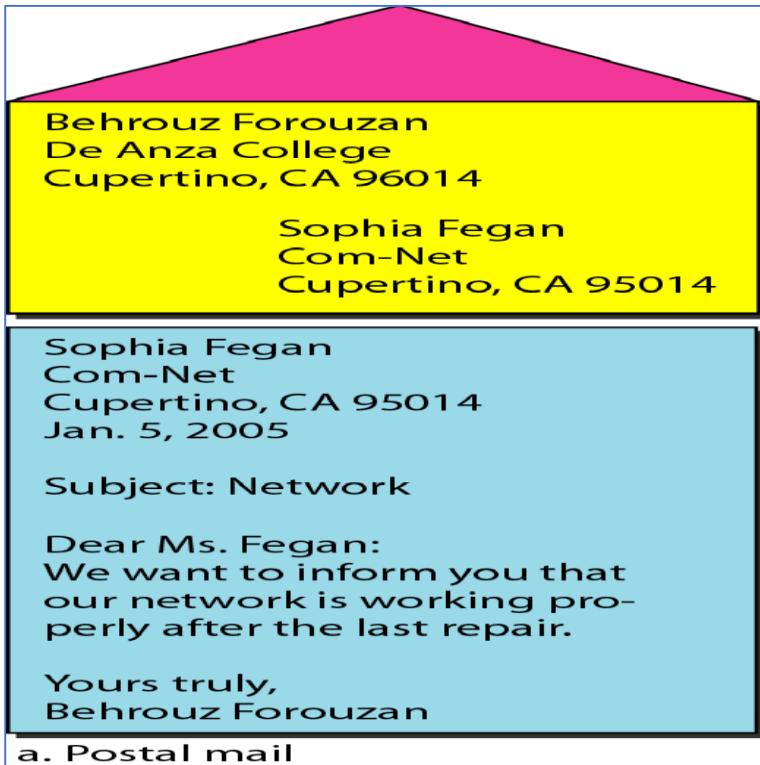


- When both sender and receiver are connected to the mail server via
 - a LAN or a WAN, we need two UAs, two pairs of MTAs
 - and a pair of MAAs.
 - *This is the most common situation today.*

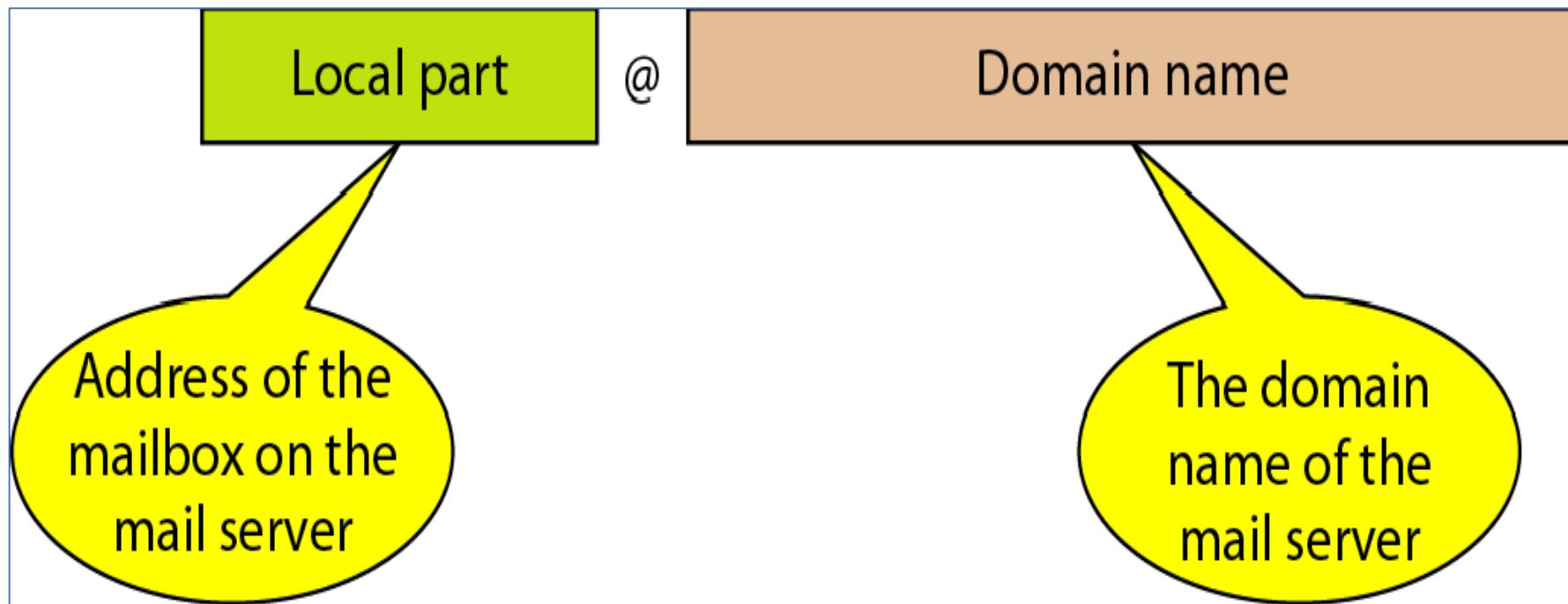
Services of user agent



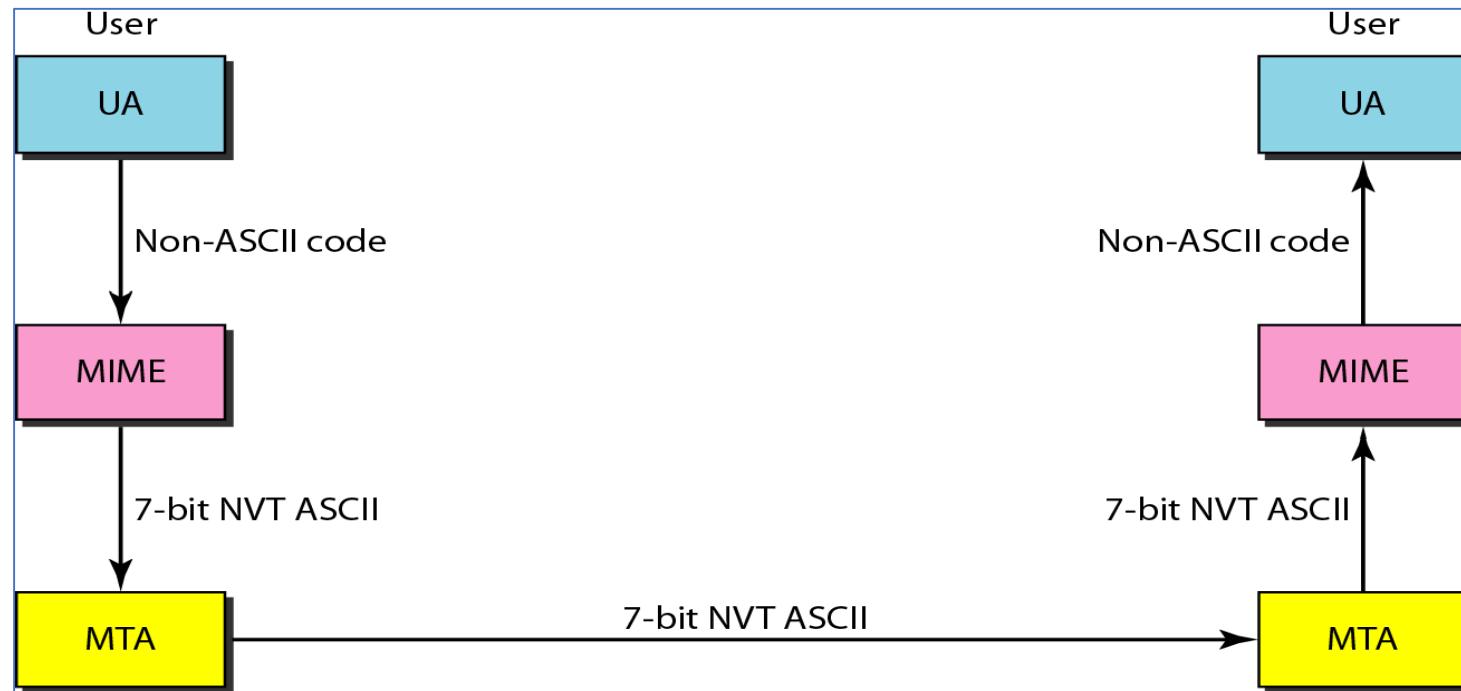
Format of an email



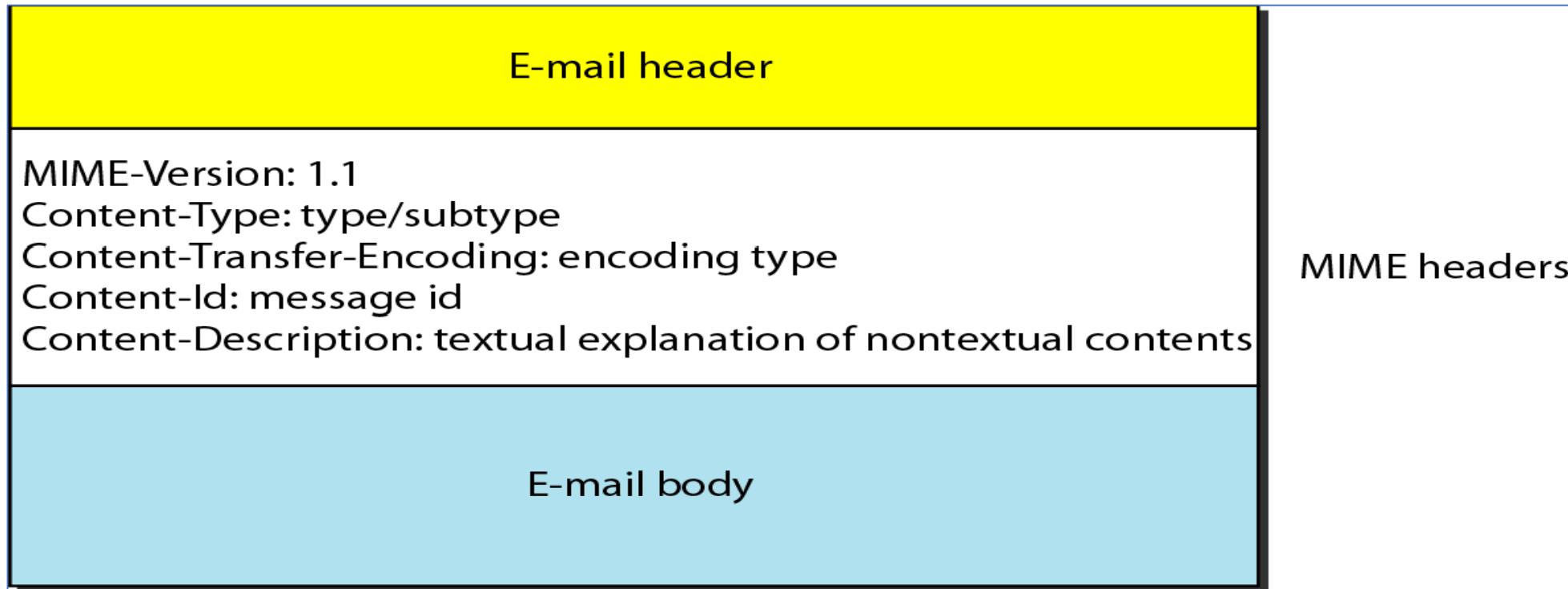
E-mail address



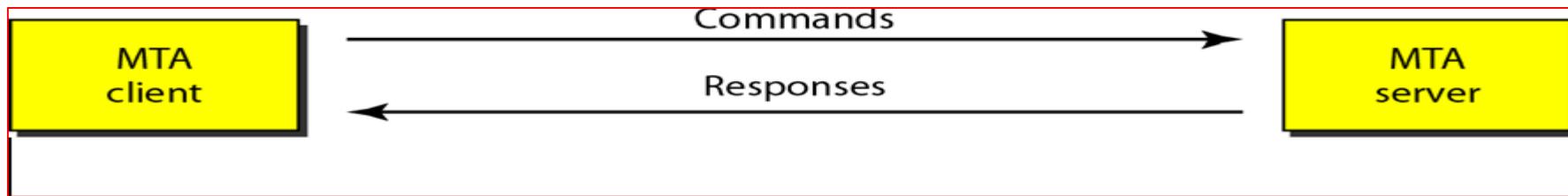
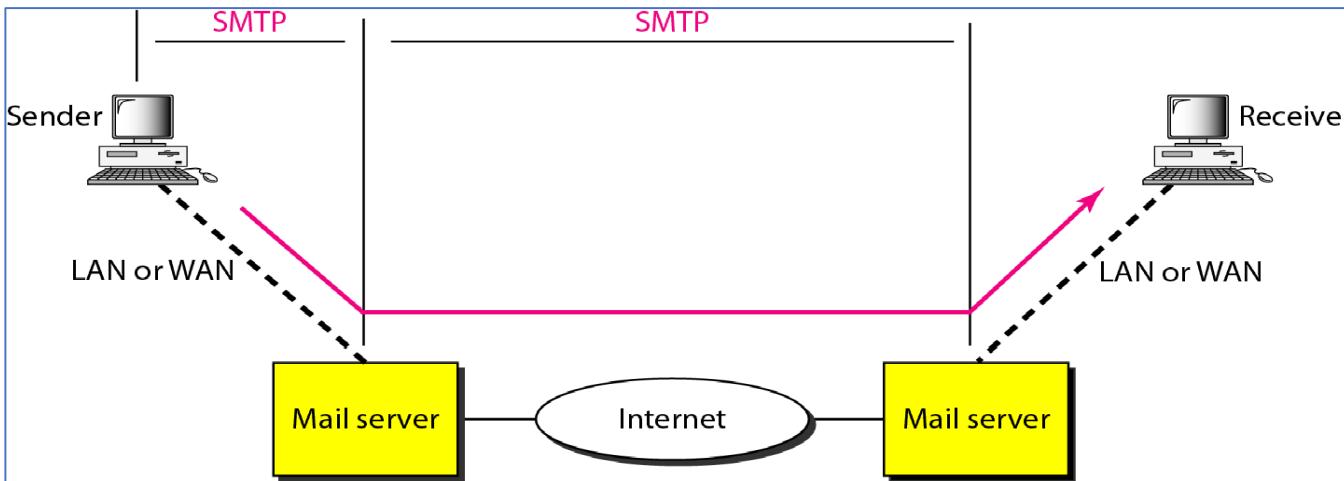
MIME



MIME header

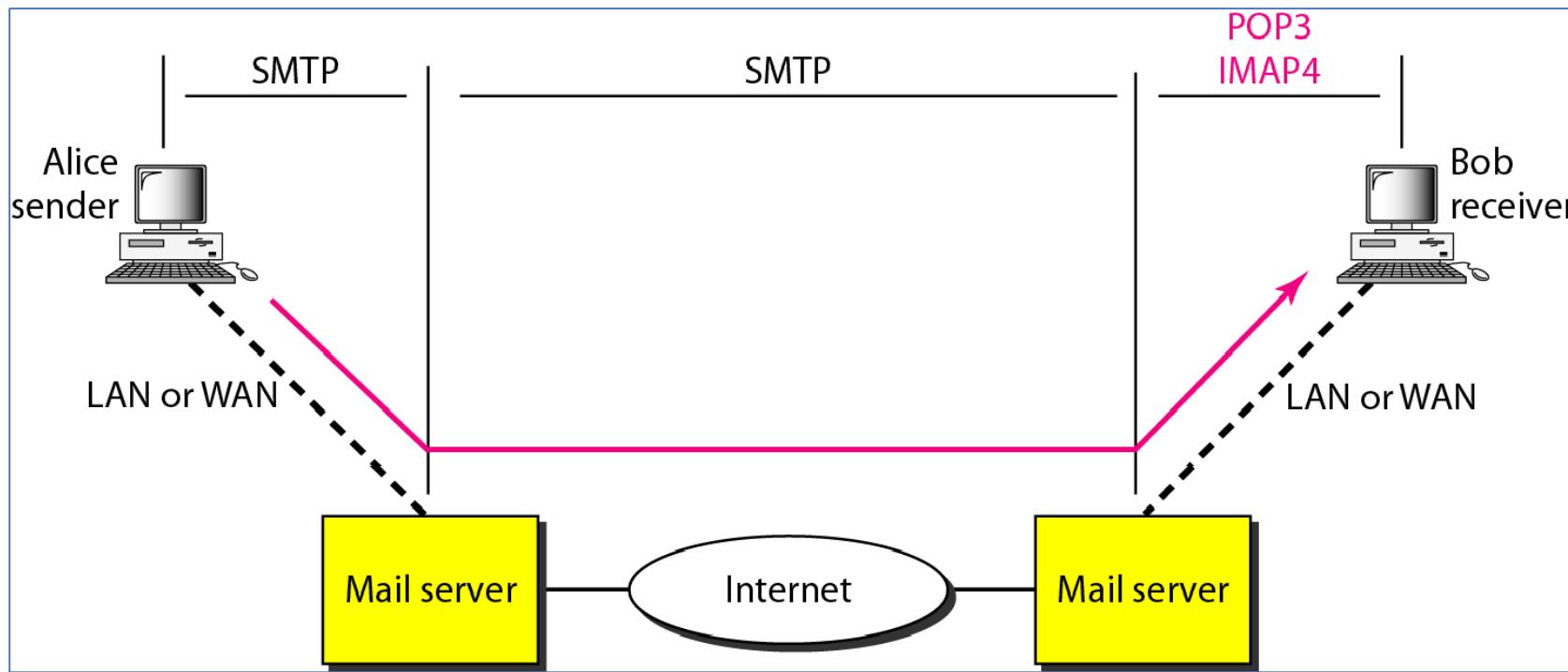


SMT_P



Keyword: argument(s)

POP3 and IMAP4



Thank You