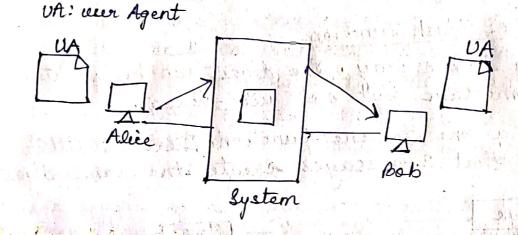
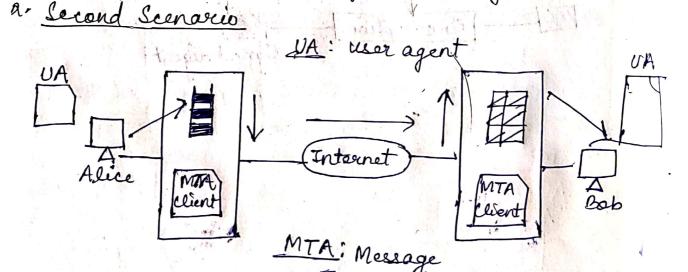
## Email Architective

In order to explain email architecture, a scenarios may be considered:

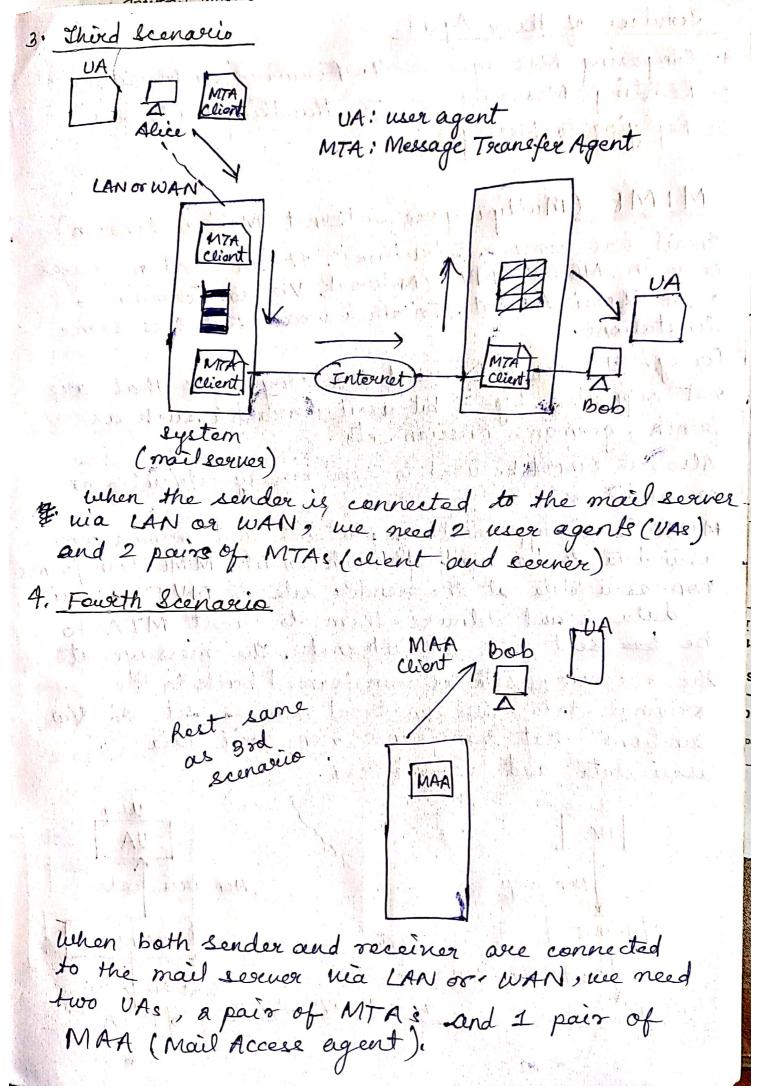
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when sender or occeiver of an email are on the same system, we need only 2 user agents,



When the sender and the receiver of an email are on different systems, we need 2 UA's and a pair of MTAS (client and server).



Services of these Agent 4. Forwarding Meseages 1. Composing Messages a. Reading Messages 5. Handling Mail boxes 3. Replying to Messages MIME (Multipuepose Internet Mail Extension) Email has simple structure. It can send messages only in ABT (NVT (Network Virtual Terminal), 7 bit Ascii format. In other words, it has some limitations. For eg. It cannot be used for languages that are not supported by 7 bit ascii character such as brench, german, Russian, etc. Also, it cannot be used to send binary felefuideo or e audio data MIME is a supplementary priotocol that allows non ascii data to be sent though smail. MIME transforms non-ascii data at the sender site to NVT assicii data, and deliners them to client MTA to be be sent to the internet. The message at the receiving site is transformed back to the original data! We can treat même, set of s/w functions that transforms non-ascii data to ascii data and vice nexea. User Mon-ascui code Non ascii code MIME MIME 7 but NVT Ascil 7 pit NVT/Asei

ATMK

## MIME Header

Mime defines 5 headers that can be added to the original email header section to define the transformation parameters.

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1 MIME-Vousion

(2) Content-Type

(3) Content-Transfer-lencoding

4 Content-Id

(5) Contant-Description

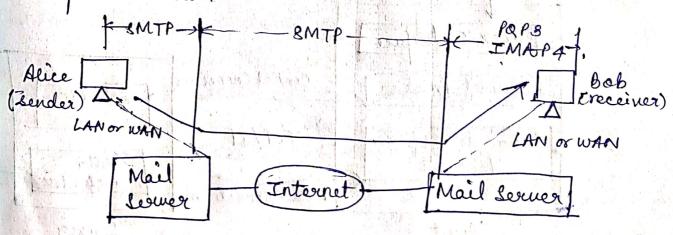
SMTP

The actual mail transfer is done through MTA. To send mail assistance a system must have elient MTA and to receive mail, a system must have server MTA.

The protocol that defines MTA client and server is called SMTP.

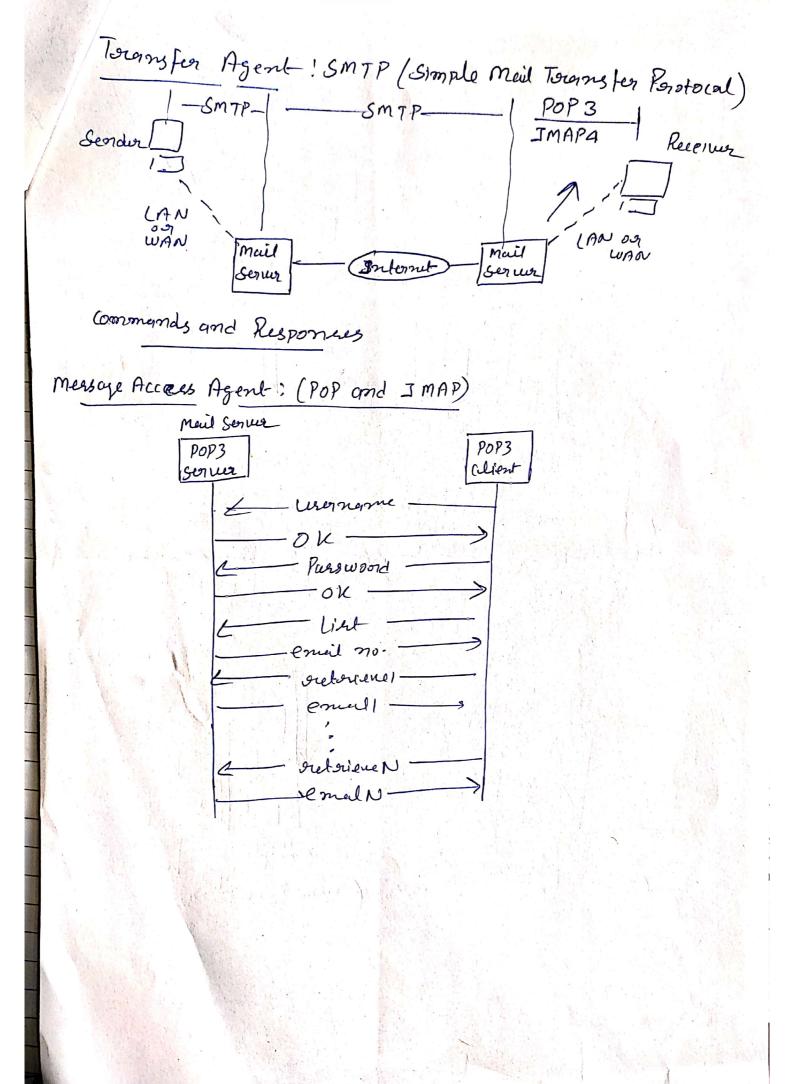
The transfer which is the formal and the state of the sta

SMTP simply defines how commands and susponses must be sent back and forth. each network is free to choose a software packets for implementation.



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## **IMAP (Internet Messaging Access Protocol)**

- · Emails are stored on the server.
- Sent messages are stored on the server.
- Messages can be synced and accessed across multiple devices.

## POP3 (Post Office Protocol)

- Emails are stored on a single device.
- Sent messages are stored on a single device.
- Emails can only be accessed from a single device.
- If you want to keep messages on the server, make sure the setting "Keep email on server" is enabled or all messages are deleted from the server once downloaded to the app or software.
- Pop3 vs. IMAP: Which is better?
- IMAP is short for Internet Message Access Protocol. With IMAP, the message does not remain on the local device, such as a computer, it remains on the server.
- POP3 is short for Post Office Protocol. With POP3 mail, it will connect and attempt to keep the mail located on the local device (computer or mobile).

IMAP is better if you are going to be accessing your email from multiple devices, such as a work computer and a smart phone. POP3 works better if you are only using one device, but have a very large number of emails. It is also better if you have a poor internet connection and need to access your emails offline. For most people, IMAP will suit their needs better.