

3/20/07

Program 3.

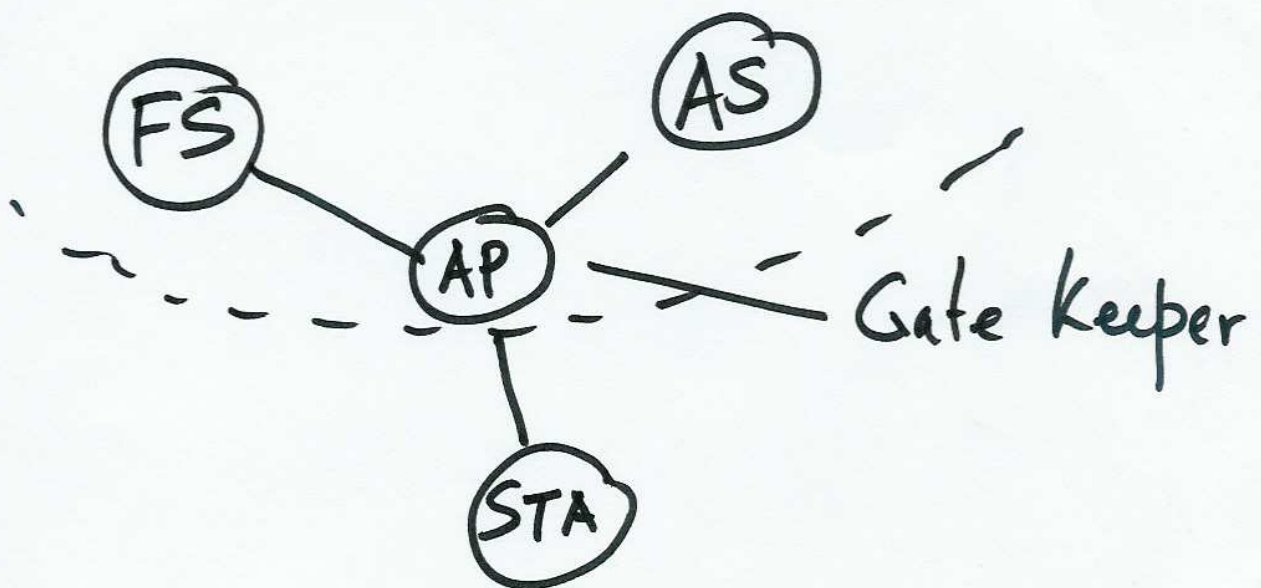
Due Date 3/27/07

Write up

Your assumptions

Your simplification

Justification



# CRC (See 4/19/07 Handout)

Treat your message  
as a polynomial

100100110101

Divide this by specified  
polynomial.

$$\begin{array}{r|l} 1-1 = 0 & 1 \oplus 1 = 0 \\ 0-0 = 0 & 0 \oplus 0 = 0 \\ 1-0 = 1 & 1 \oplus 0 = 1 \\ 0-1 = 1 & 0 \oplus 1 = 1 \end{array}$$

ASCII - 7 bit  
8 bit

EBCDIC 8 bit

Binary

Audio

Video - MPEG

Postscript

Image - JPEG  
GIF

Base64 encoding

PEM

S/MIME

PGP

Project - April 3

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Next week

- Firewall Lab

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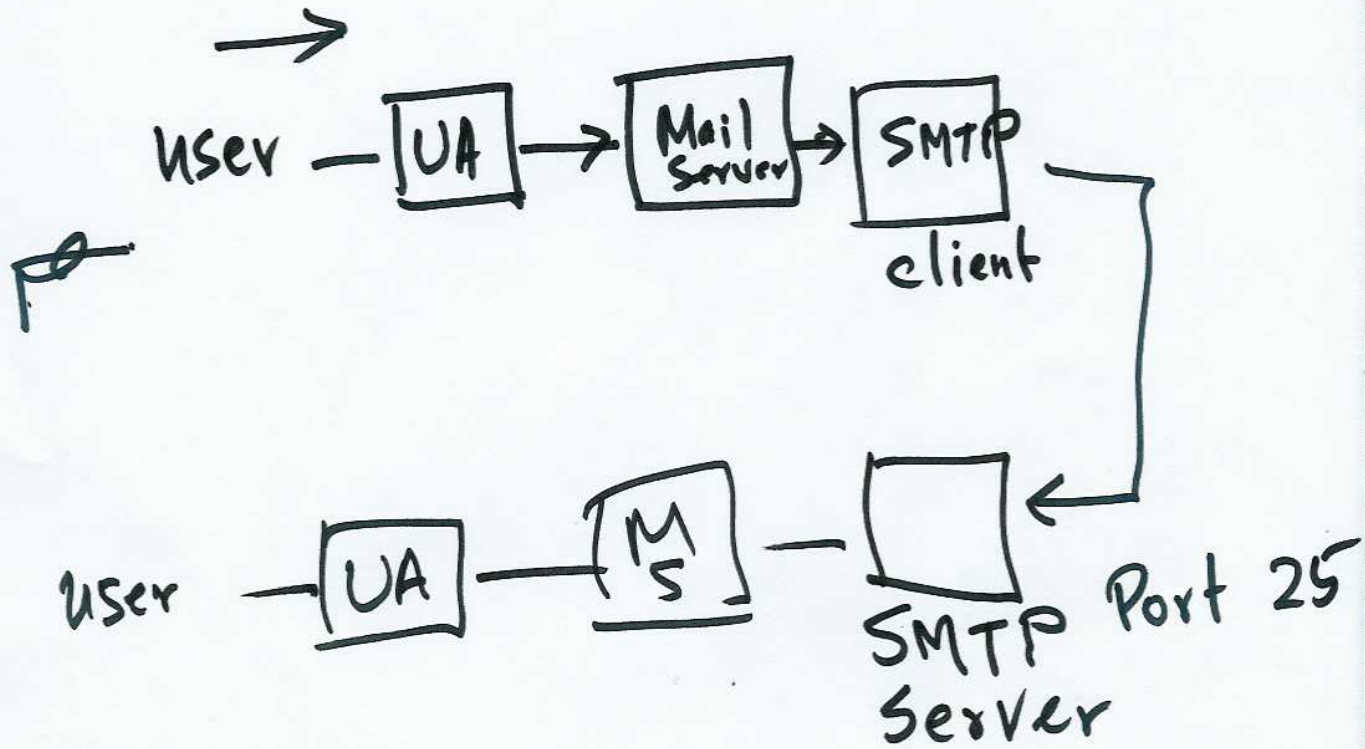
HC-322

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Abhishek - Hua

# SMTP-

Application Program



0 1 2 3 4 5 6 7 8 9 10  
A B C D E F G H I J K

11 12 13 14 15 16 17 18 19  
L M N O P Q R S T U

V W X Y Z <sup>26</sup> a b . . .

46 47 48 49 50 51 52  
u v w x y z 0

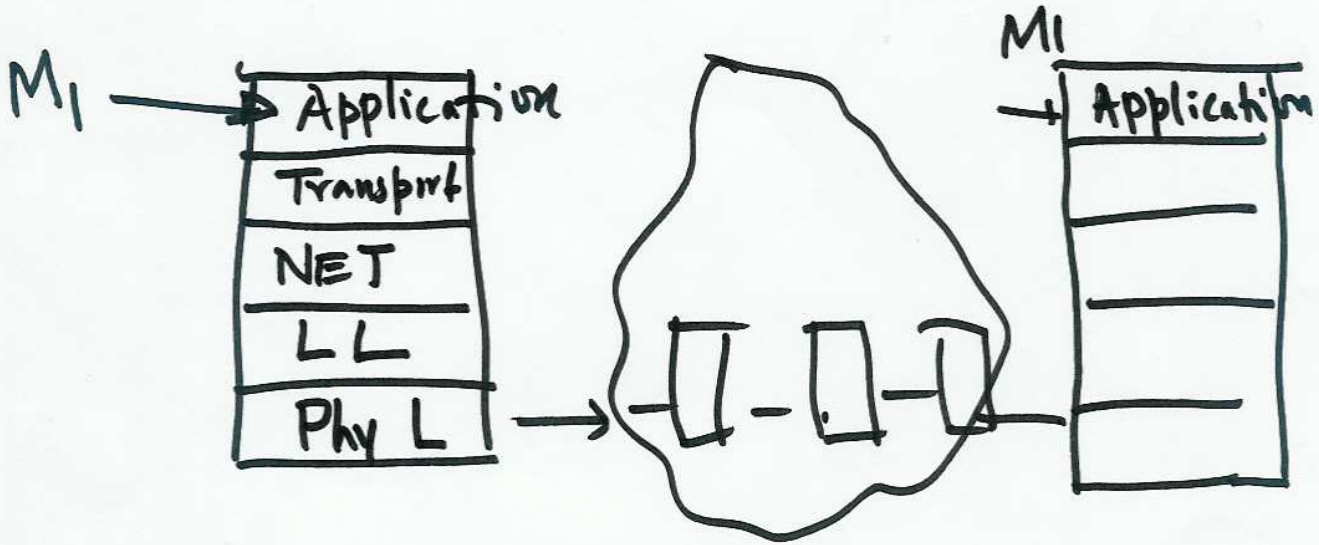
61 62 63  
9 + -

T W F u

Man  $\xrightarrow{\text{Base64}}$  TWFu

At the end do padding  
with 0's

Host



A - Z      26

a - z      26

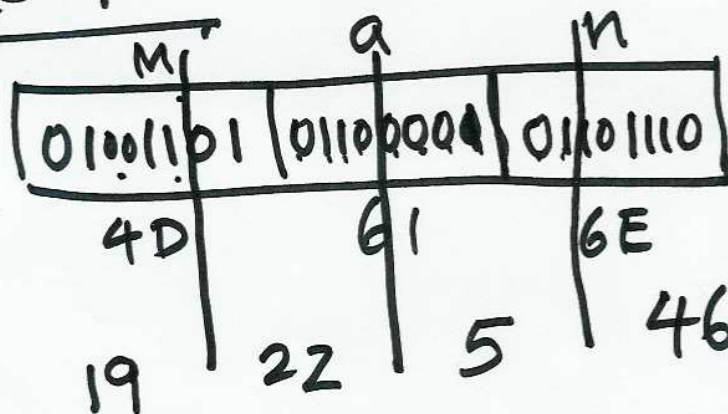
0 - 9      10

+ -       $\frac{2}{64}$

Man

4D616E

Base64



# RFC 822

## Envelope

transmission  
& Delivery

### Keywords

Date:

From:

To:

CC:

Subject:

## Contents

Header Text

Message

Message ID

MIME - Extension of  
RFC 822  
SMTP