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**18 Apr 89 masinter.pa... system33 captions**

Return-Path: <masinter.pa@arisia.Xerox.COM>  
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Date: Wed, 19 Apr 89 11:01:19 -0700  
From: masinter.pa@arisia.Xerox.COM  
To: system33 - core`.pa, tammer.PA  
Subject: system33 captions  
Cc: masinter.pa@arisia.Xerox.COM

**\*DRAFT\* Some Imagined Applications of System 33**

This series of diagrams and descriptions are the result of our imagining some possible applications for System 33, primarily in the PARC environment. While it is unlikely that we will support more than a few of these applications in the short-term, we want to make sure that the architecture of the system is adequate for handling them all, and that we understand what the requirements are for each, in terms of capabilities, bandwidth, response-time, capacity, features, etc. We're hoping that this will also stimulate people to imagine other possible applications, or variations on the theme.

Each of these is accompanied by a diagram which is suggestive of a 'end-users' model of how System33 would fit as a component within the overall system architecture.

<These are not in any particular order.>

**Distributed Document Base**

If we can build a "distributed" system33, with the server handling issues of replication of data, index and control across a geographically distributed network, we might be able to use System33, with an appropriate interface, as a replacement for electronic mail for applications like discussion groups, shared work, distribution lists, announcements, etc.

Some prerequisites: integration of mail in and out of System33, in a variety of formats (X.400, including Group 3/4 fax in and out), integration with other 'native' mail systems including unix, xns. The server might be required to 'notice' when documents with certain attributes get added to the description-base so as to trigger notification on user workstations. The workstation view of entry and retrieval would be significantly different.

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18 Apr 89 masinter.pa... system33 captions

Return-Path: <masinter.pa@arisia.Xerox.COM>  
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From: masinter.pa@arisia.Xerox.COM  
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**\*DRAFT\*** Some Imagined Applications of System 33

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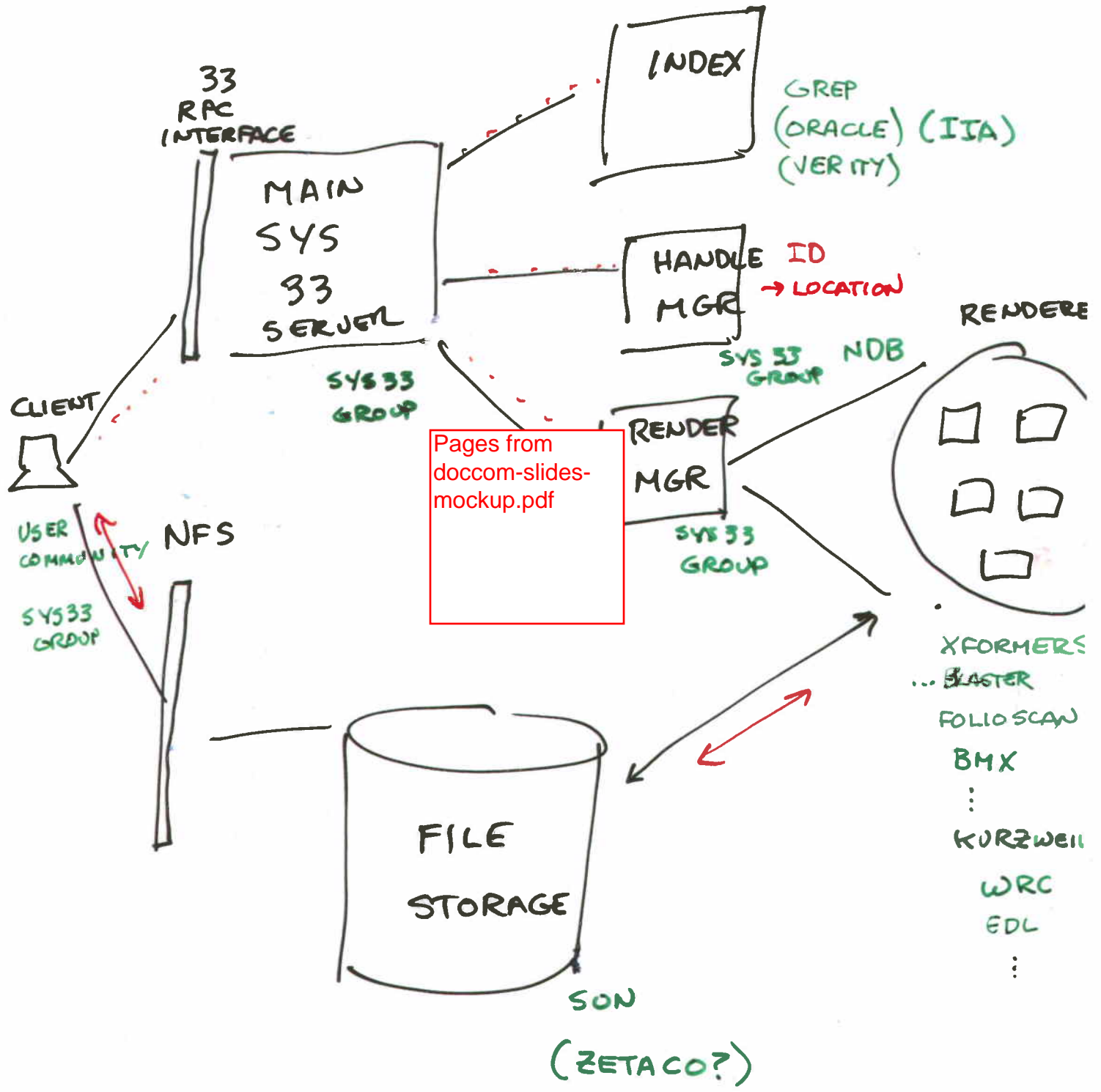
<These are not in any particular order.>

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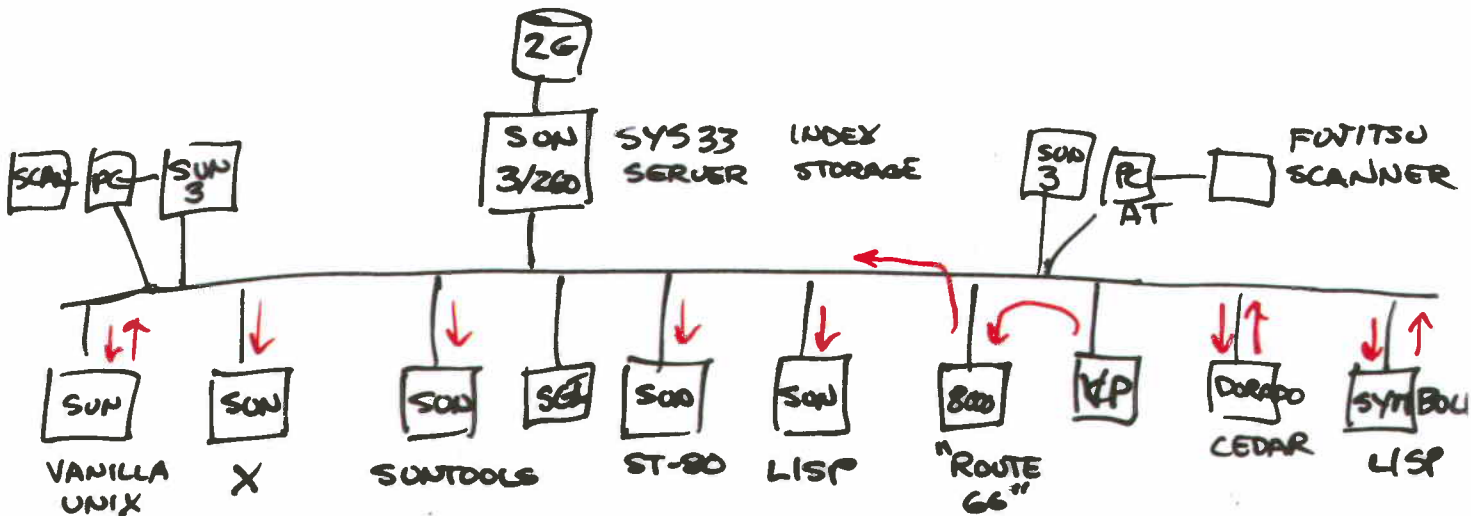
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# SYSTEM 33 SERVER SYSTEM OVERVIEW



# SYSTEM COMPONENTS

3/89



## GOALS 12/89

### CLIENTS

MAC

FULLY INTEGRATED

VP

> EFS

"SYS 33 REF"

X WINDOWS

INTEGRATE (?)

P/CEDAR

INTEGRATE

(KEUKA)

(INCA)

BATCH ENTRY

### SERVER

PERFORMANCE

< .5 SEC RETRIEVAL

CAPACITY

> 100 GBYTE

RELIABILITY

> 1 WEEK MTBF

INDEX CAPABILITIES

FULL TEXT, COMMERCIAL DB

CONVERSIONS

SUPPORT MOST

PARC APPLICATIONS

ALL COMPRESSION

OTHER

FAX (?)

reference  
referral  
?

# RENDER MATRIX

MOST RENDERINGS LOSE INFO

STRUCTURED

?	UNIX	PC	MAC	UP	CEDAI
ODA	TROFF	WORD	RTF	UPGRAPHICS	TIOGA
	TEX	VENTURA	WORD	UPTEXT	GARSDI
			MACWRITE	TEDIT	
				SKETCH	



PDL

POSTSCRIPT

⋮ + FONTS

INTERPRESS

2.0

2.1

+ FONTS

3.0



RASTER

X

TIFF

RES

AIS

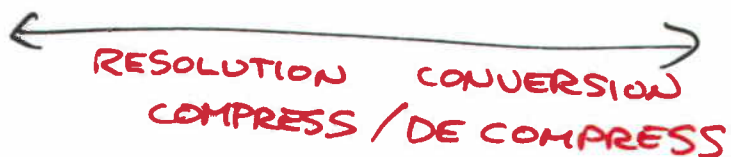
SUN RAST

CRESB

CAIS

CRAST

:



# PROJECT 33

## PURPOSE

### "SERVICE"

FOR RESEARCH PROJECTS

IMAGING

INFORMATION ACCESS

DOC REC

DATABASE SYSTEMS

UIR

LIVEBOARD

XFORMERS (WRC)

FOR END USERS AT PARC

TIC

GRAPHICS SUCS

RESEARCHERS  
DOC ACCESS



INTERCHANGE /  
INTEROPERABILITY

STORAGE

RETRIEVAL

### "SCIENCE"

SYSTEM ARCHITECTURES / SCALABILITY

ACCESS CONTROL / SECURITY

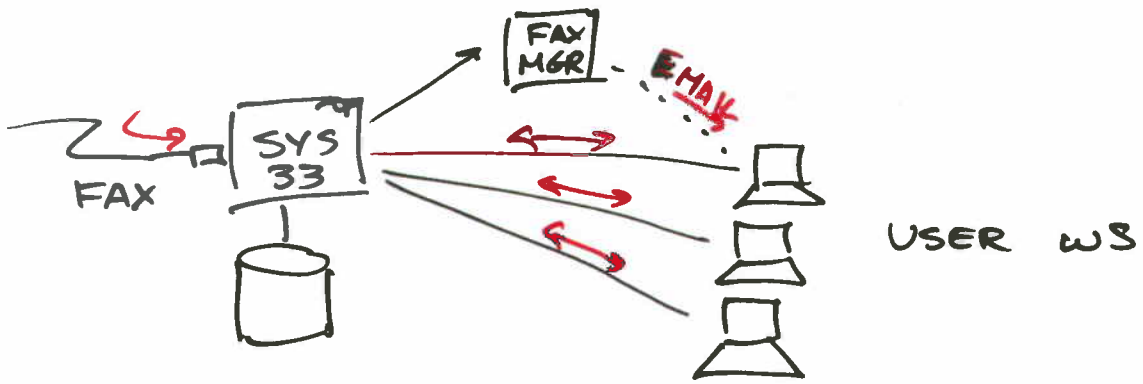
DISTRIBUTED PROCESSING

### "COLLABORATION"

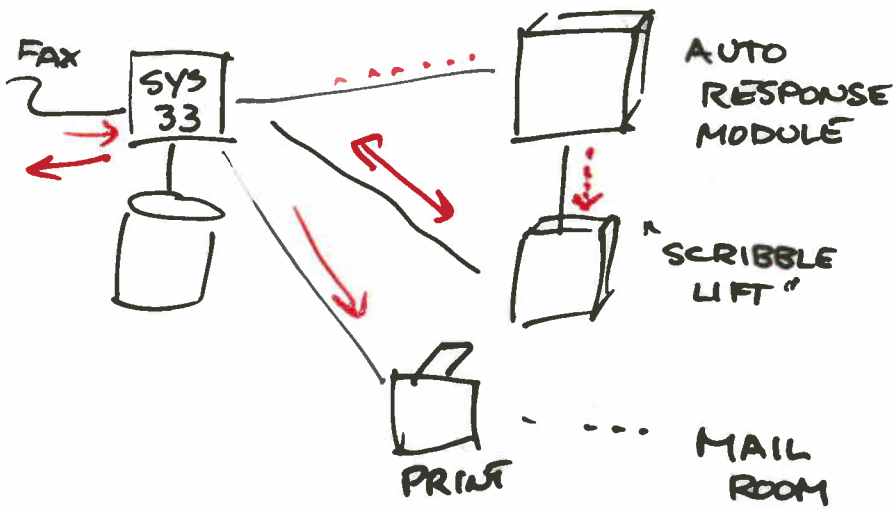
WITHIN PARC

WITH OTHER XEROX R & D ORGANIZATIONS

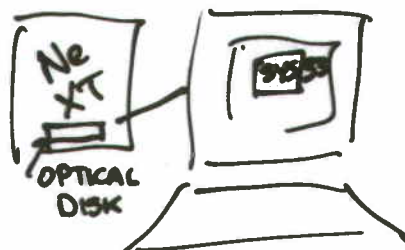
## FAX DISPATCH



## FAX RESPONSE

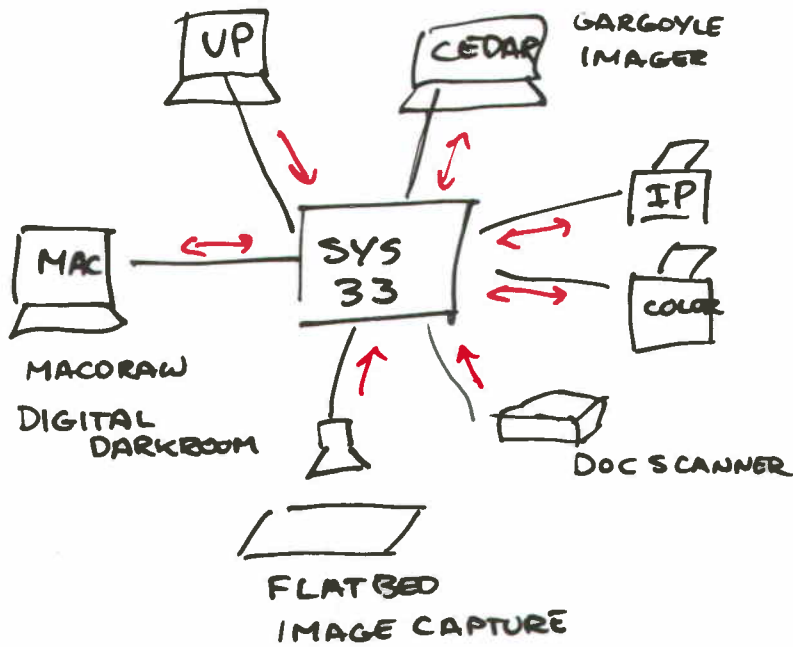


## PERSONAL IR



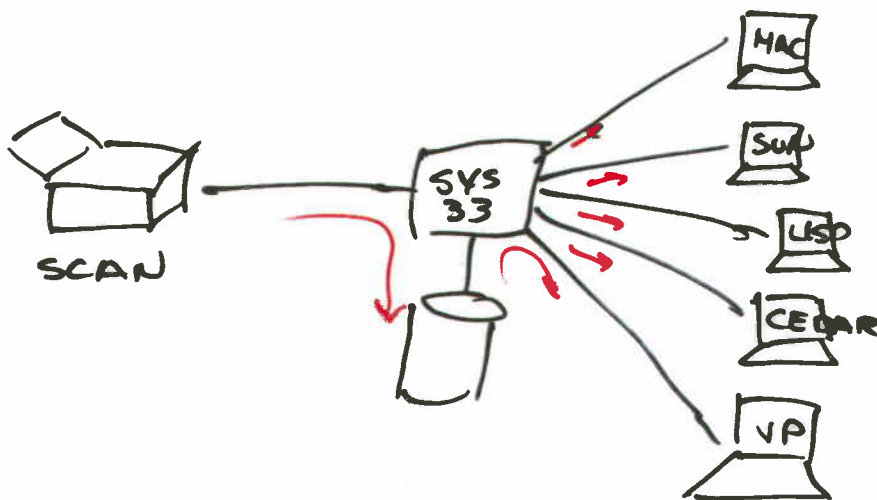


# GRAPHICS SERVICES



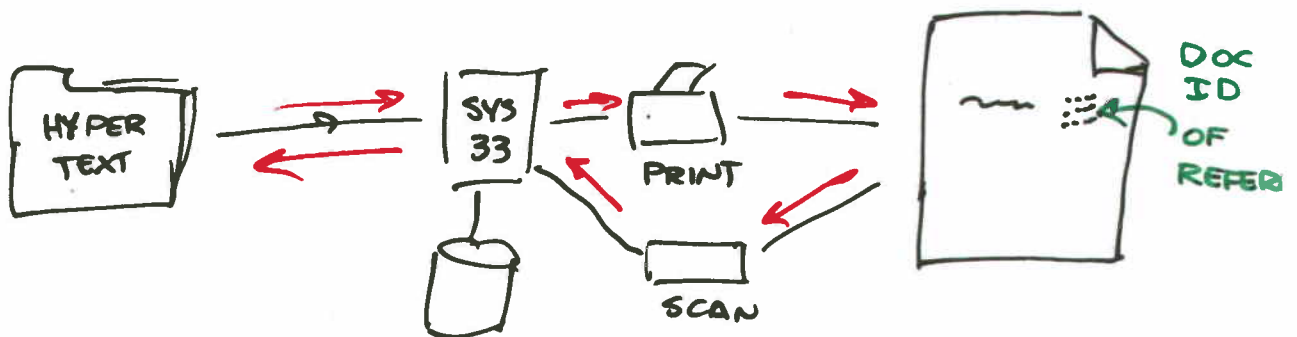
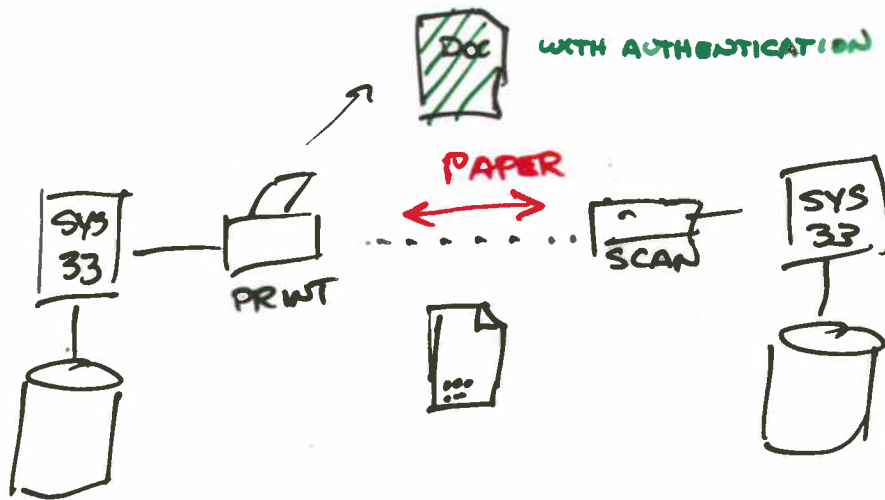
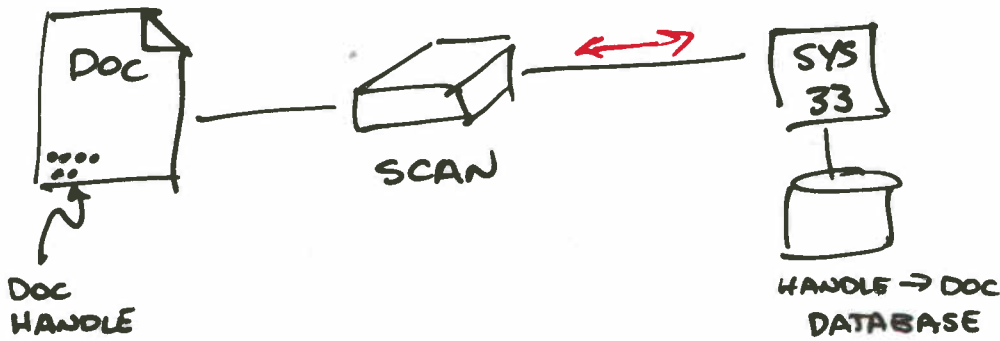
# TICTOC

(TECHNICAL INFORMATION CENTER  
TABLE OF CONTENTS)

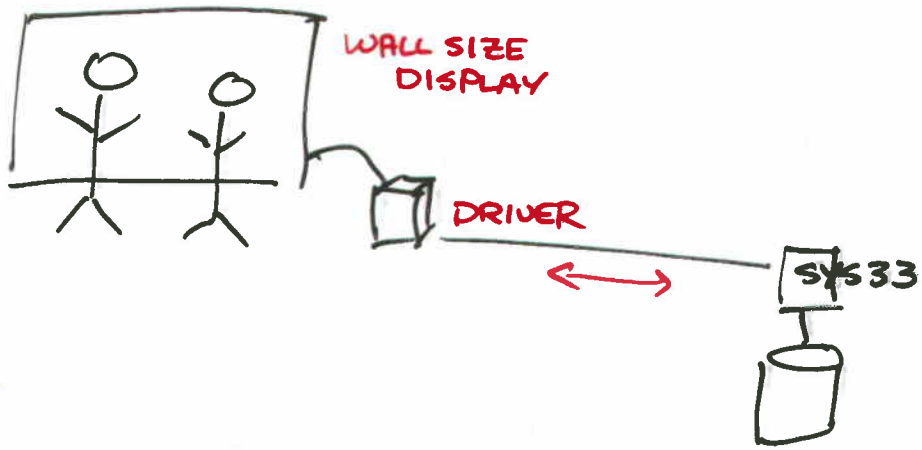




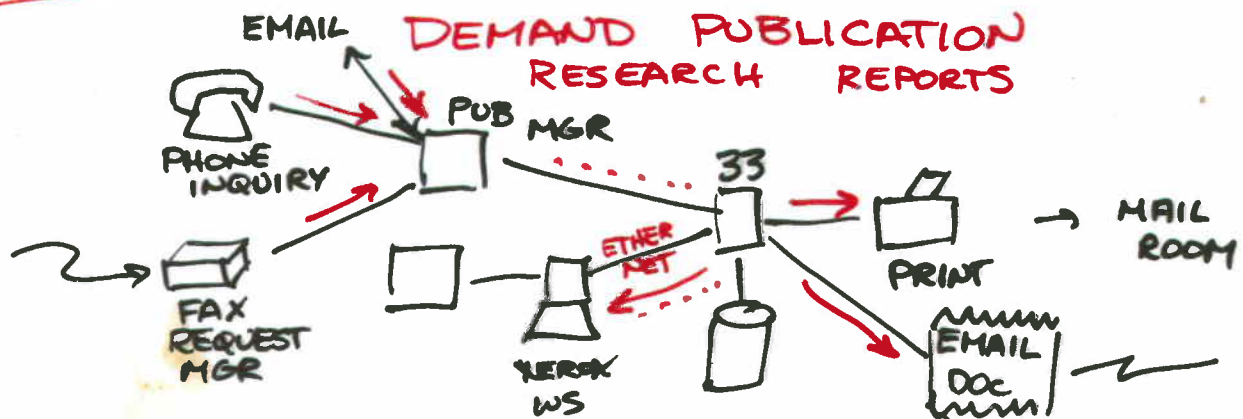
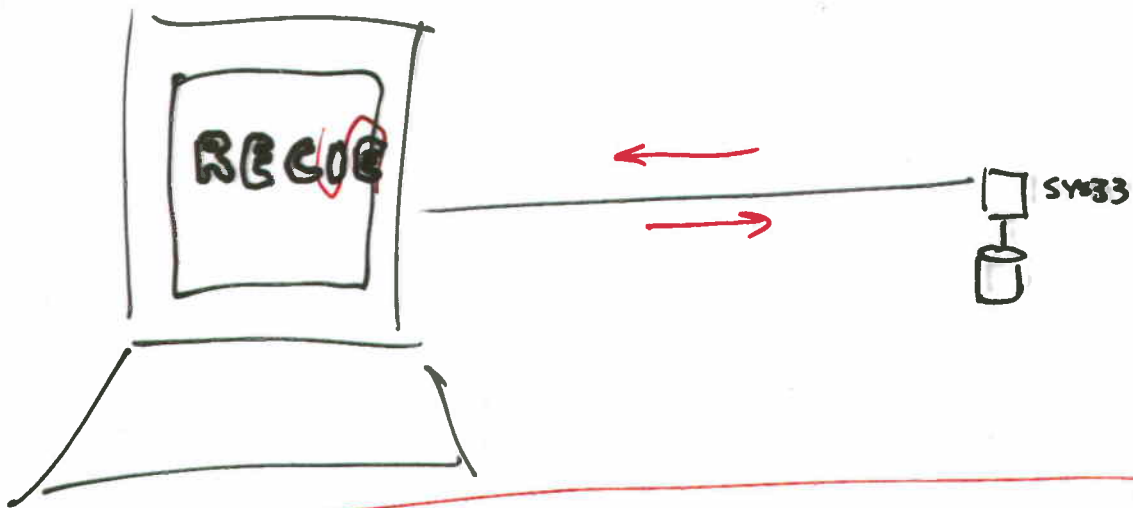
# "DIGITAL PAPER" "HYPERPAPER" ...



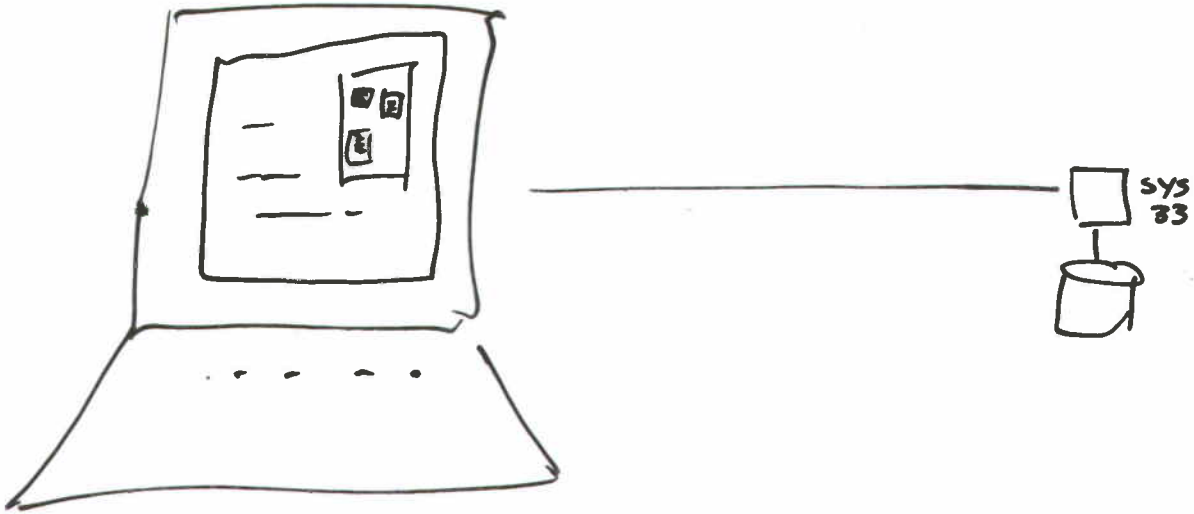
# LIVE BOARD



# IMAGE EDITOR

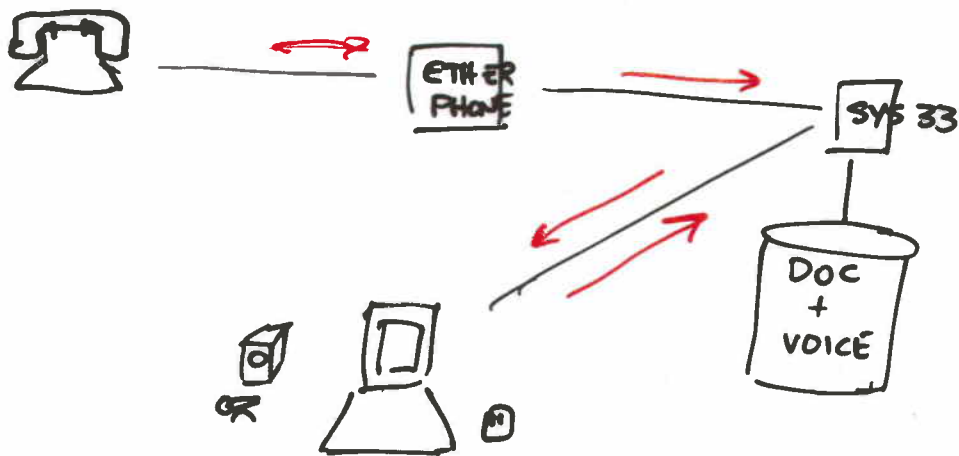


# INFORMATION ACCESS



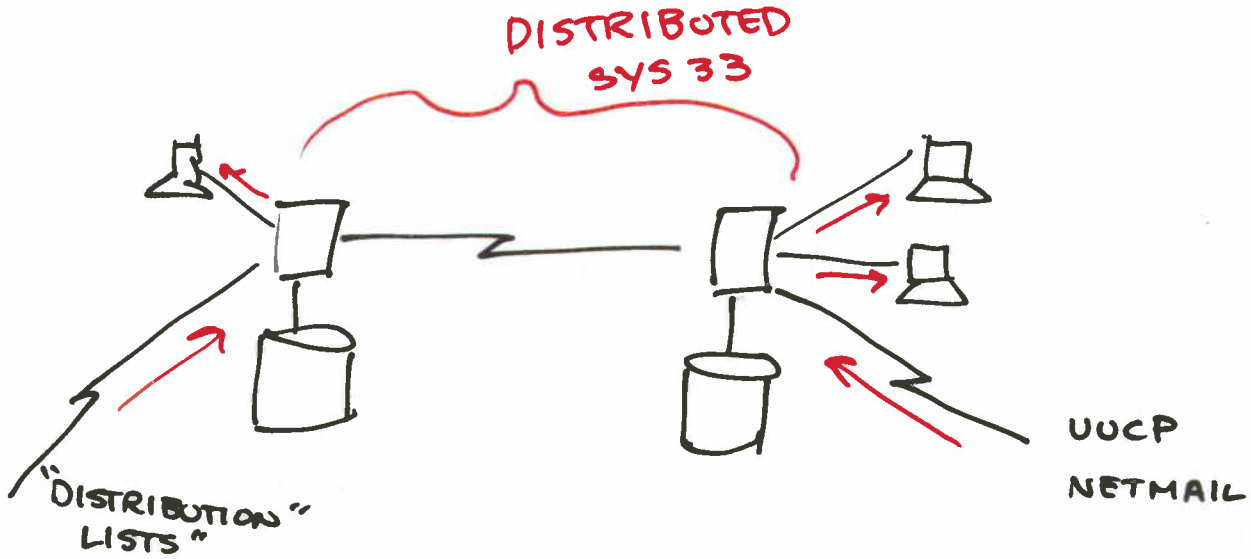
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# VOICE DOCUMENTS VOICE ANNOTATION



VOICE MAIL?

# DISTRIBUTED DOCUMENT BASE



REPLACE MAIL AS MEDIUM FOR  
DISCUSSION GROUPS  
SHARED WORK  
DISTRIBUTION LISTS

## DOCUMENT MANAGEMENT

