

# Exhibit X Part 4

REL 8/17/94

\* hardware for Space Station 2

\* Accomplishments / tasks for PDS Staff

\* Schematic for RedSage server

\* talk to POW re: Systems Liaison responsibilities

\* generate ~~list~~ for remote RedSage site @ UC

LIN, REL 8/17/94.

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EOLASTX-000000133

REL 8/24/94

- produce emergency phone #'s (LIN)

- TULIP kiosk interface next week

- Recruitment

- ⇒ Search center meet w/ candidate (60-90)

- ⇒ separate w/ technical people (LIN, BLP, DCU)

- ⇒ tour of Library, DLC, LRS.

- ⇒ personnel for benefits

- ⇒ produce finalist recommendation to REL

MEL/ML

\* Paul, Marc, DCU discuss CALL SYSTEM liason

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CALREN Witz Genentech 8/25/94

Brad Freeman, Genentech

Bill Peck, UCSF

Conrad Colimquin, Genentech

DCM, UCSF

Bob Moran, Genentech x 1696

Joan Santa Maria, PACBELL. jlsanta@pacbell.com.

- ATM Checklist from Joan Santa Maria  
- describe physical interface.

- Equipment necessary

1. Newbridge switch \$16,000

DS3 + TAXI card.

2. Kentrox CSU/DSU SMDS for DS3

Digital Link CSU for DS3 \$10-\$12k

\$30,000

- Genentech need to pull fibre from switch to desktop.

- Newbridge support from PACBELL for start-up, not for on-going support.

- SNMP management from Sun Net Manager.

⇒ Lead time for Newbridge switch (8 weeks!)  
\$4850/month on-going fee!

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REL 8/31/94

- Barb Messer Cal REN title
- Relay to redsage re. S2000 upgrade information
  - ⇒ not for school!
- Room 115 outside assignment to PCM: MAX:HOME

Crawl 9/23

S690 4.1.3 to S2000 w/ 2.4  
/usr/filesysdb/journal

backup /usr/filesysdb  
/etc/dmfs

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Mike, Steve Horen 9/29.

# I. Questions and Answers for KIP

KIP

→ not interested in royalty/licensing only

→ looking for:

a. ideas about business that we  
can build w/ clear advantages and  
w/ defensible niches.

→ Educational publishing

- medical

- anatomy

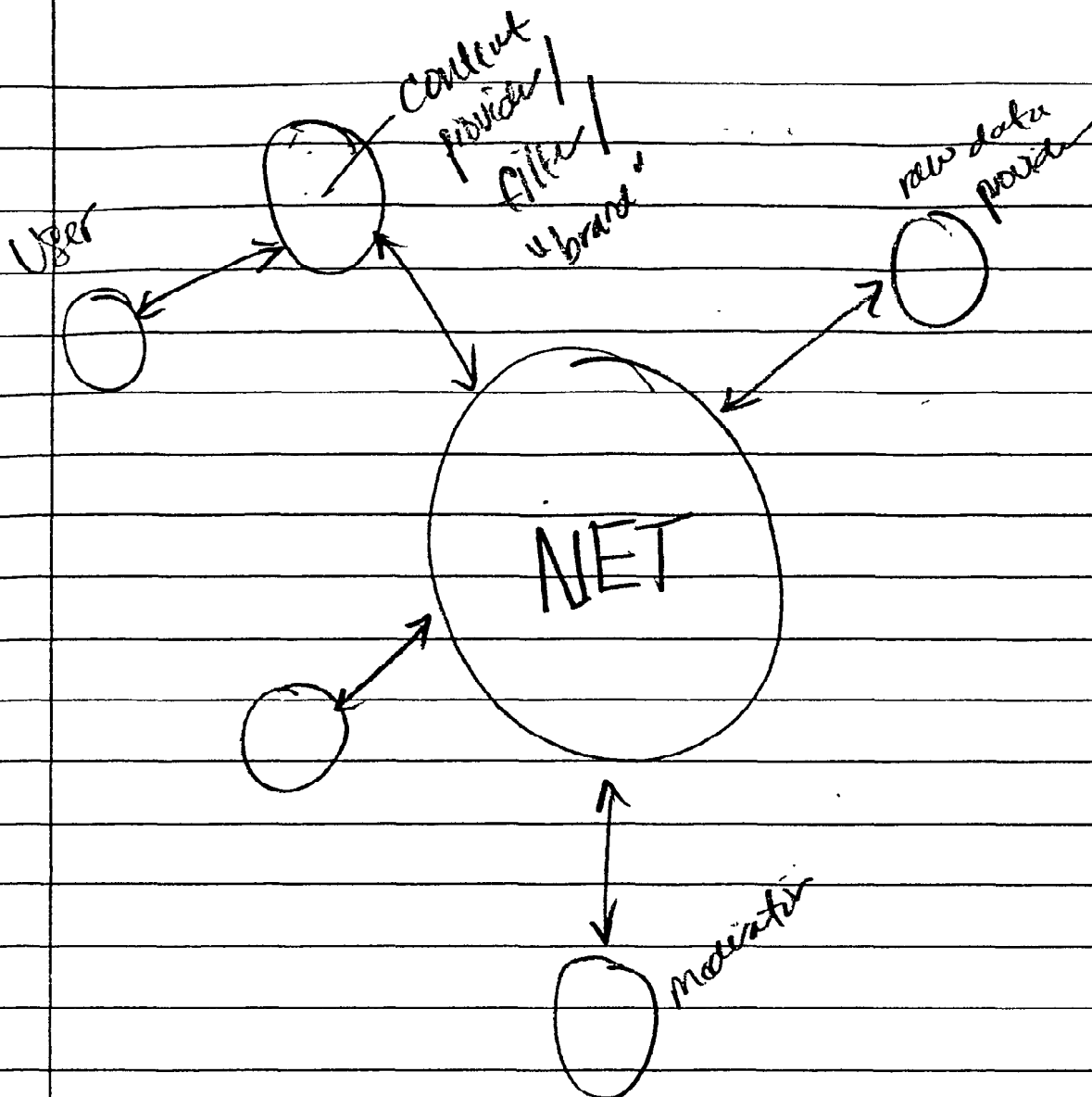
- surgical simulation

→ Catalog publishing

→

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## Explain Technology

- Why not "snake-oil"
- Why not circumvent?

Q: What's novel?

A: Integrated, open, hypermedia

Q: Explain technology and what it is doing?

Q: What alternatives exist to this technology?  
Monolithic

Q: What are the incentives to use ext. tech. rather than circumvent?

Q: Why does it apply to commercial online services  
Open comm.

Q:

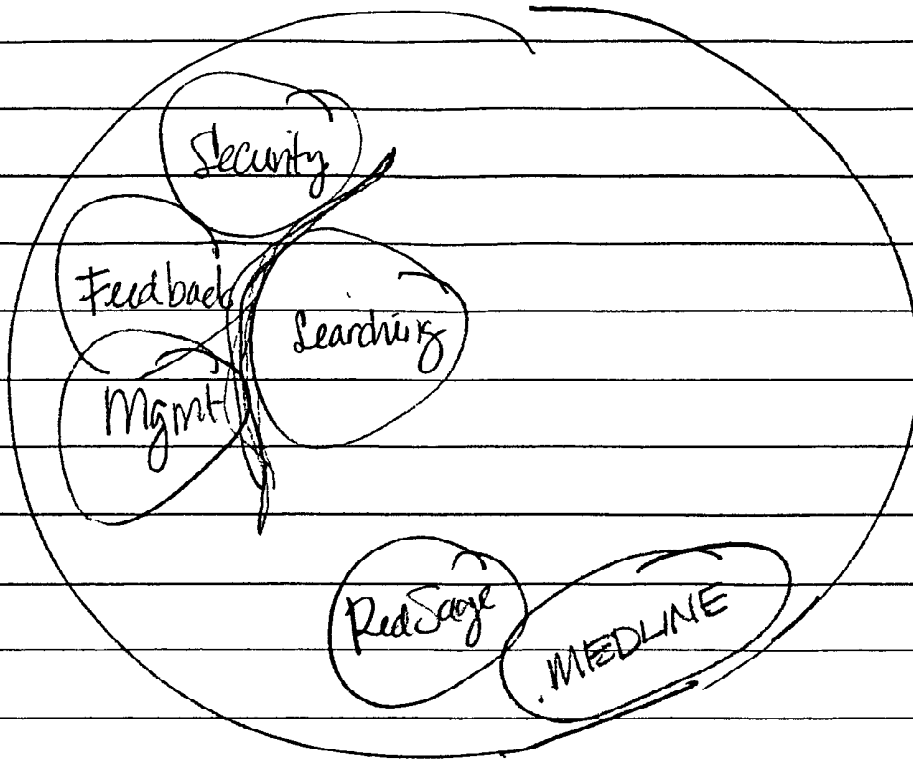


GALEN II

MES, BNW

9/28/94.

## 1. Project



- user authentication w/ home page
- sysm side include
- automatic report generation
- Denst.
- feed back.

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## Networking in Library

- Switched in Hub 1 to other floors (min. 1 EMSIX)
- Additional new hubs w/ switched ethernet / FDDI dual-attach

## Formats

- RedSage
- WWW
- Scientific information

## WITS

1. date/time export problem. → 11/18/94
2. annotated changes to forms (by Friday)
3. double entry; explicit defn of reports required. (1/18/94)  
(9+11 done)

REL 10/12/94

1. GALEN2 ✓
2. JAIMS group ✓
3. Pete Brantley / Ale Chan ✓
4. DBSU ✓
5. Library network ✓
6. WITS ✓
7. Heffels ✓
8. CalREN. (JQA, Brad Freeman)
  - title splitting
  - report descriptions
9. Mich Machine. (LIN)
10. Macintosh client to Ren Aronson.
  - personal contact by DEM
11. White-board in room 119 (LIN)
12. Rack in machine room for servers (LIN)

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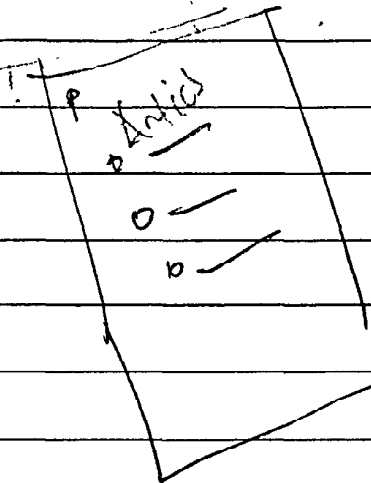
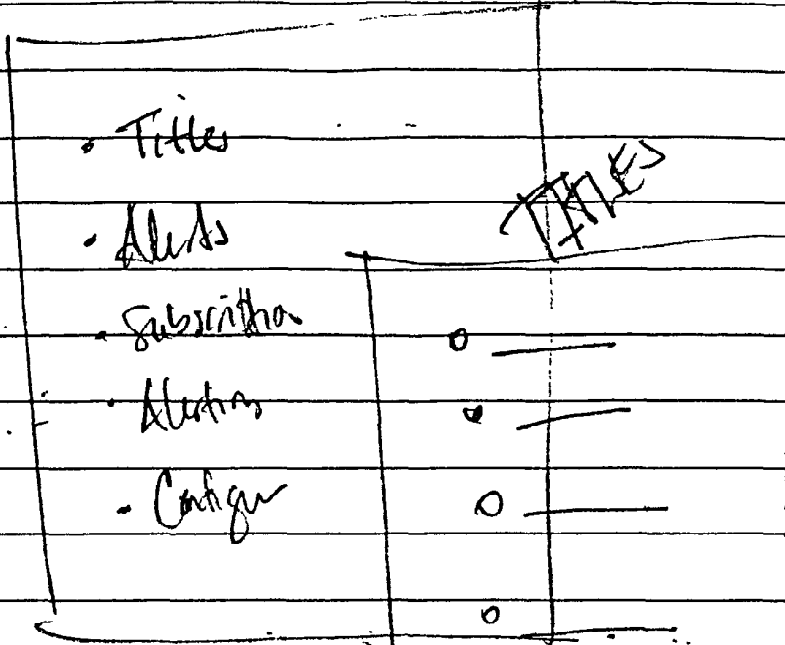
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EOLASTX-000000142

MES

- CDC Daily Summaries
- ATN (Aids Treatment News)
- Comment form      = context dependent
- Searching      ⇒ Action item: HTTP REFERER
- Logon
- Hypemail      ⇔
- Usage

Red Sox Mty (Bell Laboratories)



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Author    And, Or, Not

Title

Keyword

Source

Site

#

### Revision 2 of Red Sage client software

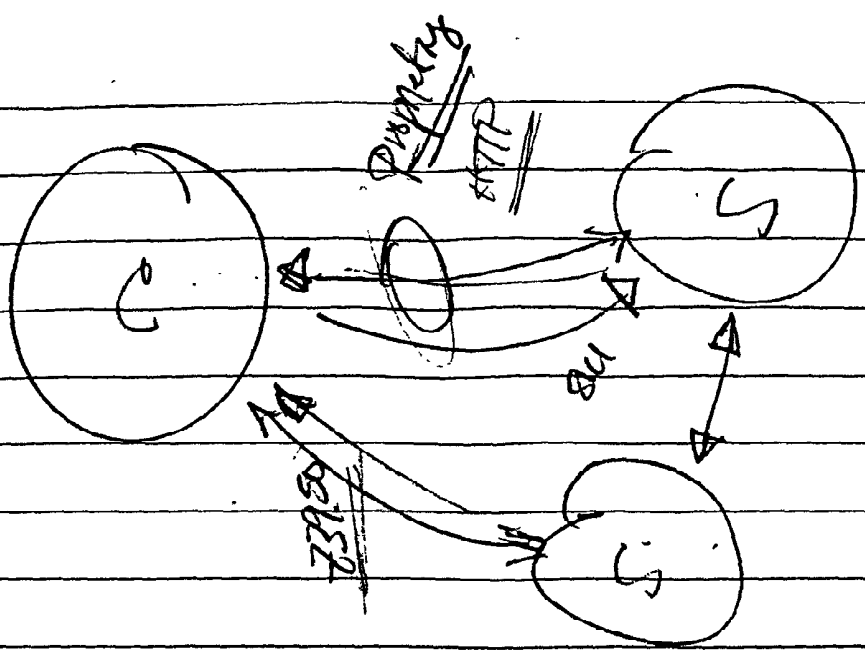
- searching (firm based interface, auto alert)
- personalization (title limitation, personal library)
- bibliographic info / navigation
- alerting w/ extra info (abstract)

### Web/Internet Issues

- World-wide-web
- cooperative / collaborative review / annotation
- security / encryption
- naming
- content support (TIFF, JPEG)
- PDF

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# Cache Control for RS/G2

## I. Desired Functionality

### A. Configurable space mgmt:

i high and low water marks.

ii dynamic or periodic "cleanup" of old cache files

### B. ~~iii~~ reporting on generation and cache hits (Reporting)

~~ii response time to pages like GET to SET~~

iii locations for reporting (IP#, site specification)

```
# int cache_open (char* phi phi_tester, void* args,
                 phi_generator, void* args);
```

```
cache_stat (char* phi, void* args);
```

```
cache_generate (char* phi, void* args);
```

```
cache_stat (); cache_stat structure to
```

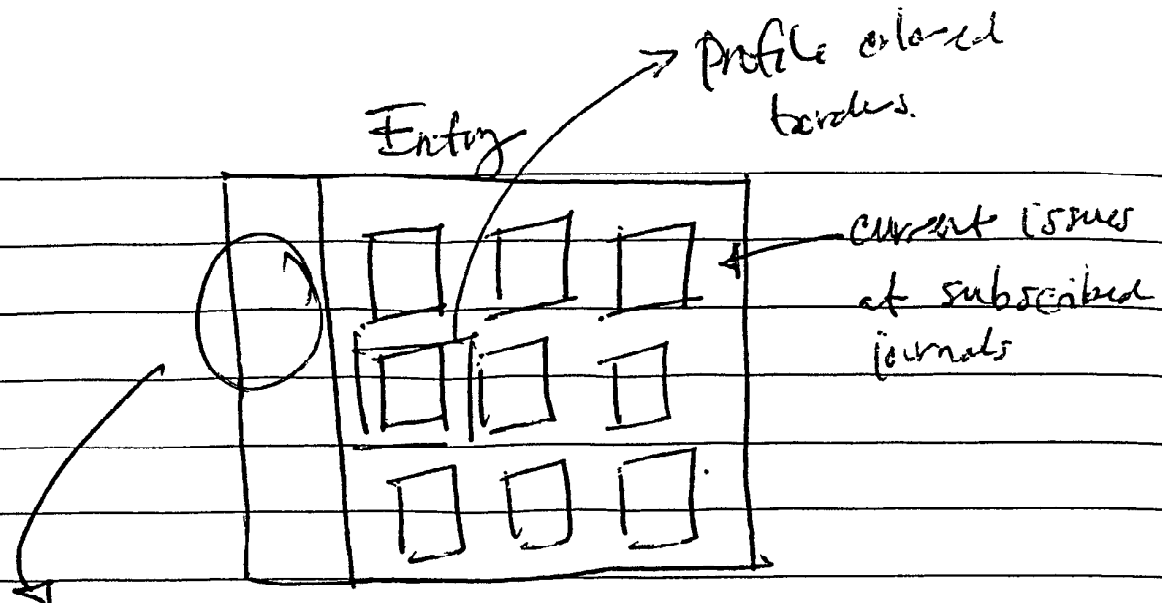
↑ force

```
# cache low low_mark () set to low mark
```

```
cache_set_lowmark (float float);
```

```
cache_set_highmark (float)
```





Open Stacks / Library ⇒ takes to traditional model

Index ⇒ to current issues at subscribed.

Profiles ⇒ < Profile Name >

\*TOZ for Profile "lectations"

- o Title, Author, Journal, Vol/Issue (Abstract)
- o
- o

UCLA 11/18/94.

Mike, (Sylvia) Betty (DBW), Jeff (DBUCLA)

JB

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## \* GALEN II

- ⇒ build on existing GALEN
- \* USECAT, MELVYL, information library
- ⇒ Client-server
  - \* available in office lab, at home (via TSPN)
  - \* own computer
- ⇒ expanded information
  - \* source material. Red Sage, CMOI
  - \* non-USE resources
- ⇒ \* locally developed services & services (USE = whole)
- ⇒ publishing environment

## \* REL up/99

- \* updates of RS mailing lists to OAV.
- \* postpone ISO → 2000 upgrade due to jubilee errors
- \* reviewing DSSW consultant reviews
- \* Interphase tomorrow @ 3:30PM JAMES group
  - ⇒ create ATM cards to USE/Genetech GALEN

To REL = list of steps taken, what achieved, } at end of  
 steps to take tomorrow, what to achieve } day.

Maurice Morris @ Epidemiology

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# Library Network

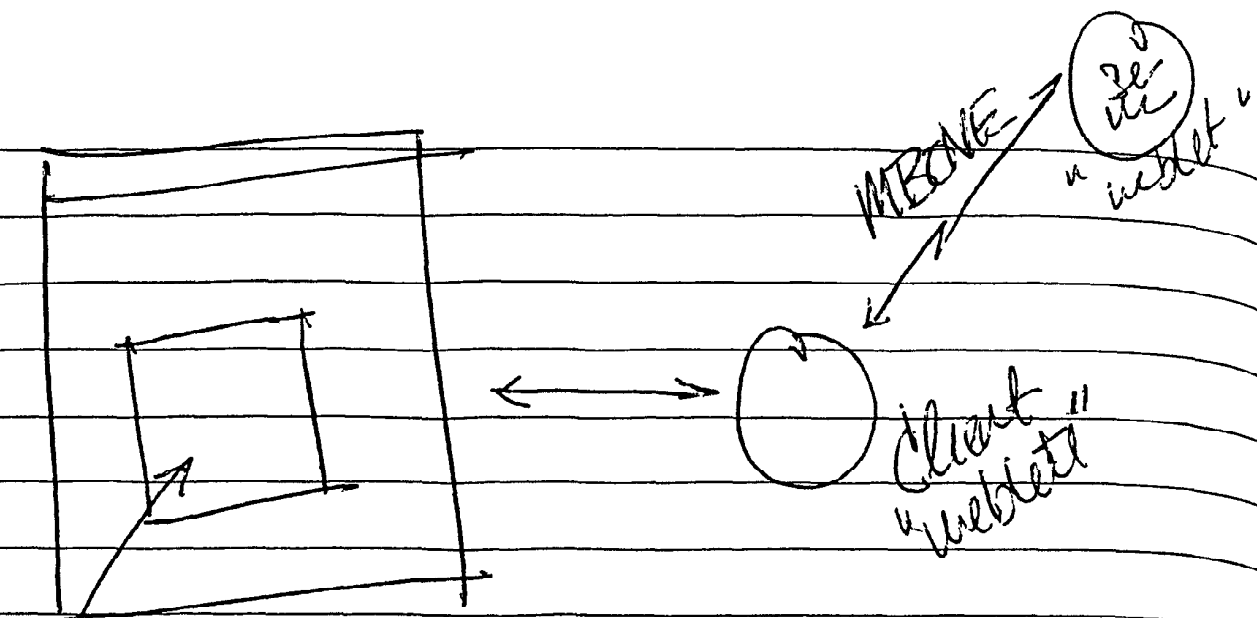
1. Segment network, high bandwidth to RS
  - a. Data to backbone (7.5k)
  - b. SEC2000 to backbone (5k)
  - c. segment network (.15 .B3 30) \$15k
  - d. Appletalk routing for PLC

2. Managed network (non-switched)
  - a. cost for existing hub minimum mgmt.  
Pg. #4 option 2 ITS. \$40

## 3. Switched FDDI ring

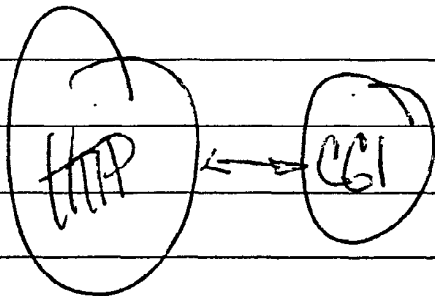
a. new ckm hub

chassis	\$1026	
power (2x)	977.50	2000
EMME	4800	
ESXMIM	3400	
PRIM-FO	1700	
3 x TP(R)MIM	<del>2400</del> 7200	
	2400	
		21,000
+ SUN DAS		<u>5,000</u>
		26,000



output window

- o Collage (distributed whiteboard)
- o CUSEME (teleconferencing)
- o 3D output



mtg w/ MES 11/30/94 11AM

1. Campus WWW technology / content
2. HTTP server.
3. Admin tools.
- 4.

mtg w/ FEB, ALCO 11/30/94 2PM

1. jukbox
  - a. ALC cleanup stub files to eliminate error msgs
  - b. investigate w/ AAP error msgs for ~~pre~~ existing files
  - c. upgrade jukbox on 12/5, inform people
  - d. preparation to upgrade
  - e. sendmail delivery on fatman.
2. telnet fail blaze
  - a. switch a couple from lines
  - b. Contact PS re: dial. out.
3. attena. (NIS, DNS, POP, Mail)
  - a. SSZ to email / home dirs
  - b. integrate src via local to mailman
4. legato

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PVC 12/1/94 10:30 AM.

\* WAIS

\* GLIMPSE

1. What do we want to index/store?

A. Easy

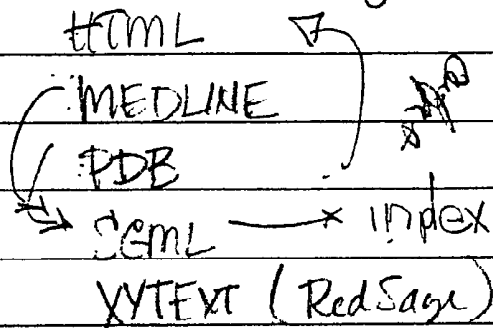
i. find() database for filename.

ii find() technology for fields (WAIS)

B. Harder

i. full-text (proximity, weighting, ...)

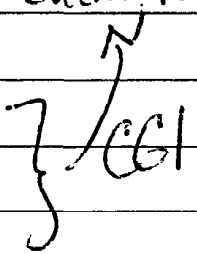
ii fielded searching



- ✓ 1. Jukebox (R<sup>2</sup> today @ 4PM; REN wants to do #)
- 2. PaaS (update 4.3 ASAP due to bug)
- 3. CALREN (Interphase calling; Soc ATM cert testing etc)
- \* 4. Library Network (✓)
- \* 5. Deal-0p
- 6. G2 (mtg tomorrow @ 8AM)

G2

1. move HTTP server to S2000 Solaris J.X.  
 MES prepare site for CICS  
 ALC install on S2000
2. split w/ network into cdm (33) library (15) ile (B9)  
 ALC lead to work w/ MES, DCM, CAL
3. Security and reporting
  - a. no access for non-DNS hosts (MES) returns error page
  - b. reporting, review w/ MES; ALC implement
    - where
      - a. hosts that are allowed (breakdown by DNS domain)
      - b. non-DNS hosts
    - what
      - a. pages (individually)
      - b. track help requests
    - how
      - a. usage stats for page requests
      - b. missing files



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## G2 v.1 (IDEAS)

1. Collection development / Catalog Asst. tool
  - \* based on W<sup>3</sup> index and search terminology.
  - \* automation of identification of "interesting" resources
- ✓ 2. \$39.50 access to UCSFCAT, MELVYL (CAT, TEN, PE)
- ✓ 3. NetNews reading w/ Newscip alerting / profile
4. Automatic UPDATE from MELVYL / MEDLINE
5. LISTSERV subscription / hypermail archives
6. Archie / Veronica / CUI - Unified search at net
7. Collaborative white board / meeting / document / conferencing
8. Class registration for JLC / UCSF
9. Interlibrary Loan. / Reserve request
- 10.

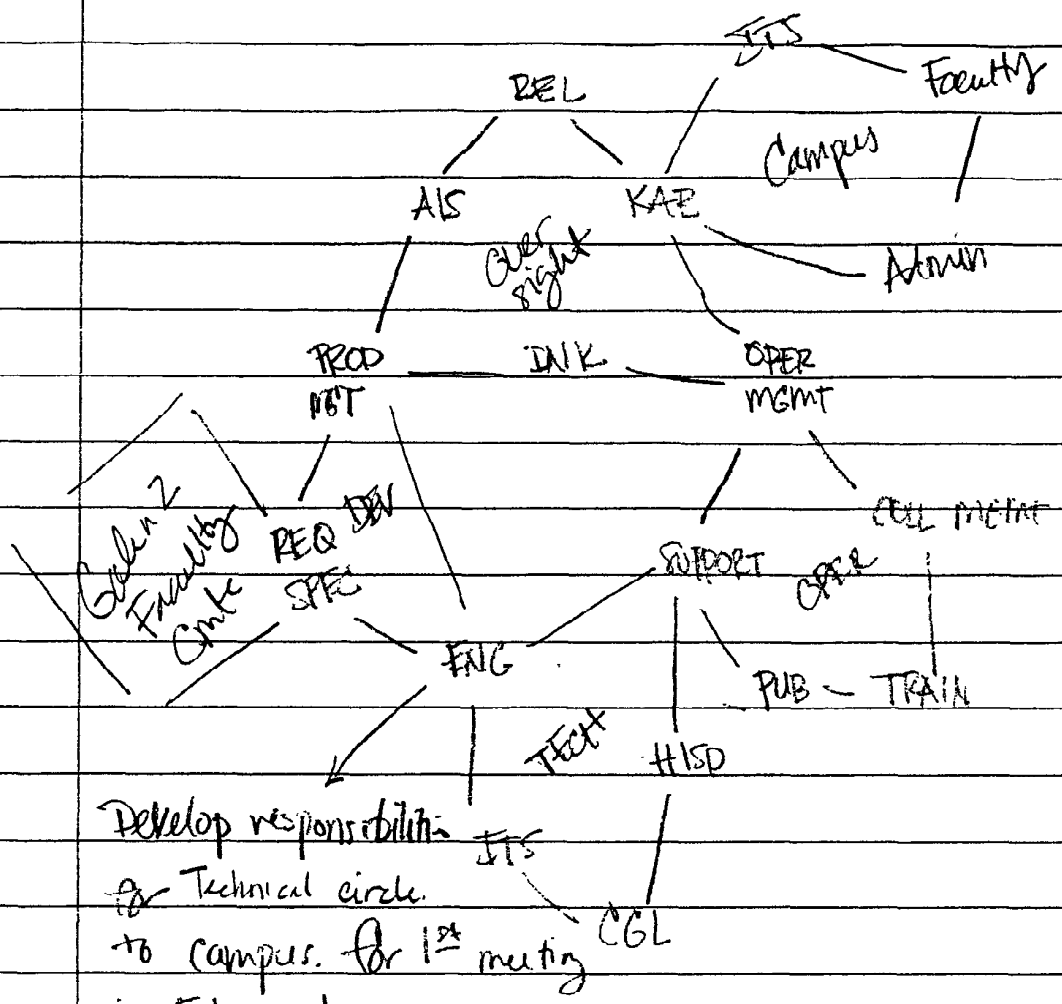
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REL, PDB 1/4/95

- o Contact JQA re: exact specifications for reports and when those reports can be generated via APTT.
- ⇒ network plan for next week.

GALEN II 12/6/95



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GALEN # / ITS / Public Affairs 1/5/95

Bill Gordon, Public Affairs

Jan Tuller, Libby McKrady, Joe deBartista (ITS)

Brian Weaving, Andrew McManis, KAB, DEM

REL, PSB 1/11/95 → to Bob Baden, REL (soon)

- \* Get data from JOA re. long-term usage data March 6, 1995
- \* Macintosh client (check w/ JBL, DSO) ✓
- \* UCLA collaboration (prior to Feb 30) ✓
- \* Copy of Windows version of RP, (JOA) April
- \* Mechanism to experiment w/ client-level subsampling w/o not skipping subsampled.

1. Diane Forgy (meet w/ REL, KAB, DNK, DEM; no staff position)
2. Cal REL Thursday 10:30 AM (timeline, operational)

Draft Technical Guide to campus WWW (next th 1/19)

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CUREN (Interphase) 1/12/95

- \* Synoptics agreed to provide switches (Bay Networks)
- \* Interphase SE install switch/adaptor
- \* Shipping address for USE General.
- \* Pull coax cable from our DEMARC to room 52200
- \* Switch co-located w/ server in machine room.

⇒ Ship work at January 30<sup>th</sup>.

1. Bill Peck, Brad Freeman, Pacific Bell. for setup

Michael W. Stewart, Exec Adv. Tech Team.

Bay Networks, Inc.

4401 Great America Pkwy

P.O. Box 58185

Santa Clara, CA 95052-8185

408. 986. 2400 408-764-7454 (direct)

mstewart@baynetworks.com.

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CSA/DEM 1/12/95

SELECT EVENT NONE (clear)

SELECT EVENT < BUTTON, MOUSE,  
BUTTON | MOUSE |

Red Sage Meeting 1/12/95

- \* Check w/ Ada on RightPages support from X-terminals.
- \* Days up in December for comparison.
- \* Distinction in guest usage through USEF, non-USEF

FSB/REL 1/18/94

- \* Contact Ada re: upgrade RightPages client.
- \* revamp network upgrade costs for 19900 vs Library
- \* room 119 workstation
- \* report strategy to Patrice, REL
- \* 2/3/95 meeting REL, Gloria UCA experience snapshot
- \* Followup w/ Bill Peck re: CalREN networking
- \* Write-up steps/reasoning for library network upgrade
- \* Follow-up w/ Bill Peck re: library network upgrade equipment and finalize timing and cost.
- \* Work-up technical issues for UCA collaboration.
- \* Tell Bill P. that billing for specific costs is better than padding costs of equipment

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GALENTI 1/19/95

\* Technical Cntr: authentication/authorization, HTML version/style,  
registry & technical administrative, usage monitoring,  
Security, naming

## Operations

REL, PSB 2/1/95

- \* develop plan for G2/W<sup>3</sup> access to RedSage content
- \* (bring to meeting w/ REL > 2/15/95)
- \* Goals and Objectives (Thursday = paper to REL)

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Elsevier Mtg, 2/1/95

REL, KAB, DEM

Alexandra L.L. Jankovich (a.jankovich@elsevier.com)

Roland D.J. Dietz (r.dietz@elsevier.com)

Elsevier (Paid Elsevier)

◦ Elsevier Inc (2000 employees)

◦ Merged/Bought World Data Central (Lexis/Nexis)

1100 journals/year (research, review, letters, trends) 1.9 million pages

6500 books/year (monograph, handbooks, reference, series)

Electronic products: databases (EMbase, CAPLAS)

Conferences.

ITO | Trends journal

SGML full text,

Stat 1/95

Immunology Today

hypertext links,

advanced search, retrieval

TULIP

43 journals

SGML bibliographic

review

bit-mapped pages, ascii text

CAPLAS

<1100 journals-

SGML/ASCII

Delivery both

abstracts

publication base

Elsevier DTD based on Major ITO.

1.9 million pages for 11,00 journals \* 500 Kbytes =

956,000 Mbyte/year = 927 Gbytes/year.

= 309 Gbytes/year } no subsampled.

= 237 platters/year.

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Elsevier Mtg 2/1/95 (cont) <http://www.elsevier.net>

→ based on TULIP and CAPECAS

- A) full page images (300 DPI CCITT Group IV)
- B) SGML header information
- C) dirty ASCII via OCR
- d) control information.

+ additional "value added" content types for specific primary data sources. (e.g. PDB).

### Distribution

- o delivery (CD-ROM, Tape)
- o storage requirements.

(14 megabytes) per 16 articles in 160 pages)  
35 gigabytes/year 200 titles, 2500 issues

- \* Security responsibility of licensing organization.
- \* Auditing and monitoring of system usage by licensing organization
- \* Provision of usage information during pilot.

	<u>Unlimited</u>	<u>Limited</u>
Paper	100%	-
Elec	125%	100%
Paper/Elec.	135%	110%
Inv. Art Fee	NA	\$2.50

Participate in commercial pilot

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Red Sage

- \* Review format for initial list
- \* selection criteria for review
- ⇒ limitation on search
- ⇒

SALENZ

\* Name, Dept, Email, Phone, Status (student, faculty, <sup>def: unspecified</sup>),  
 Location (Home, Office, Library) <sup>default: Unspecified</sup>  
 based on IP segment

\* Installation (platform, browser)  
 list of platforms ↑ list of browsers

\* Comment (subject, def. "this is a great system")  
 Message

To (exclusive choice list, def to app. " " = specified)

These reply Expect reply <sup>checkbox</sup> ~~data~~ button (yes, no)

Reference Questions, DIM Consulting, TIC Consulting

Ref ~~Box~~ ~~Phone~~ ~~fax~~

- \* Name, ~~Box~~, ~~Phone~~, ~~fax~~, ~~email~~, ~~status~~, Dept, Status
- \* Back to me by (Phone, fax, email, Campus mail) + type in
- \* Question

2/9/95

~~EEE~~ PIMName, Dept., ~~File~~ StatusBack-brnby + type in  
Message field

PVC

\* Canned Ph, HTML, FTP/Archive mock-ups

\* Teaching provide a

REL 2/10/95

; update Genetech, test connector.

CalRENs wiring being completed, (VCS installed)

waiting ATM adapters and installation of software

and hardware by Telephase PacBell is RTGs

ISDN = start-up \$199 monthly \$149

Island \$995

\$21 \$2/hr &gt; 30 hrs.

Red Sage = AAR, Raima (DB vendor)

- 10 min of history, slides

- presentation (update, technical problems, content  
macintosh)

UCLA, Genentech (2.5 minutes)

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