

ESL

A Subsidiary of TRW

TRW

**Design Review for Requirements
FBIS Modernization Program**

13 August 1984

Contract No. 84X-927700-000

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Moore

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**DESIGN REVIEW FOR REQUIREMENTS
FBIS MODERNIZATION PROGRAM**

CONTRACT NO. 84X*927700*000

13 AUGUST 1984

**ESL INCORPORATED
A SUBSIDIARY OF TRW
SUNNYVALE, CALIFORNIA**

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FBIS CDP REQUIREMENTS REVIEW

1. INTRODUCTION AND AGENDA

FBIS CDP REQUIREMENTS REVIEW AGENDA

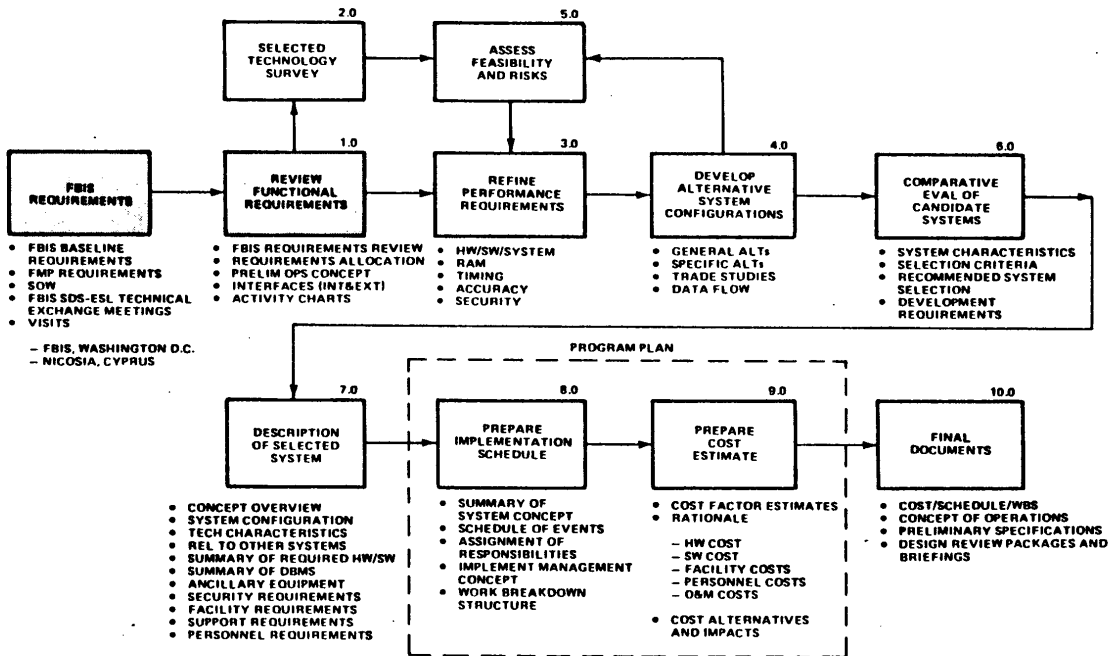
<u>BRIEFER</u>	<u>TIME</u>	<u>ITEM</u>
DAY 1		
DAHLBERG	5	1. INTRODUCTION AND AGENDA
DAHLBERG	5	2. PHASE I SUMMARY
		3. SYSTEM REQUIREMENTS ANALYSIS
DAHLBERG	15	- INTRODUCTION
MITOOKA	75	- SYSTEM WIDE CONSIDERATIONS
FRISBIE	80	- BUREAU
LUNCH		
BEST	60	- HEADQUARTERS OPERATIONS GROUP
MITOOKA	45	- HQ ANALYSIS AND PRODUCTION GROUPS
DAHLBERG	20	4. REQUIREMENTS ISSUES SUMMARY
DAHLBERG	30	5. RFC's
DAHLBERG	10	6. PLANS FOR PHASE II
DAY 2		
MORNING		-VISIT TO OPS DAILY REPORT -DISCUSSIONS
AFTERNOON		-WRAP-UP SESSION -ACTION ITEMS

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FBIS CDP REQUIREMENTS REVIEW

2. PHASE I SUMMARY

FBIS CONCEPT DEFINITION TECHNICAL APPROACH



FBIS REQUIREMENTS ANALYSIS RESULTS

O BRIEFING

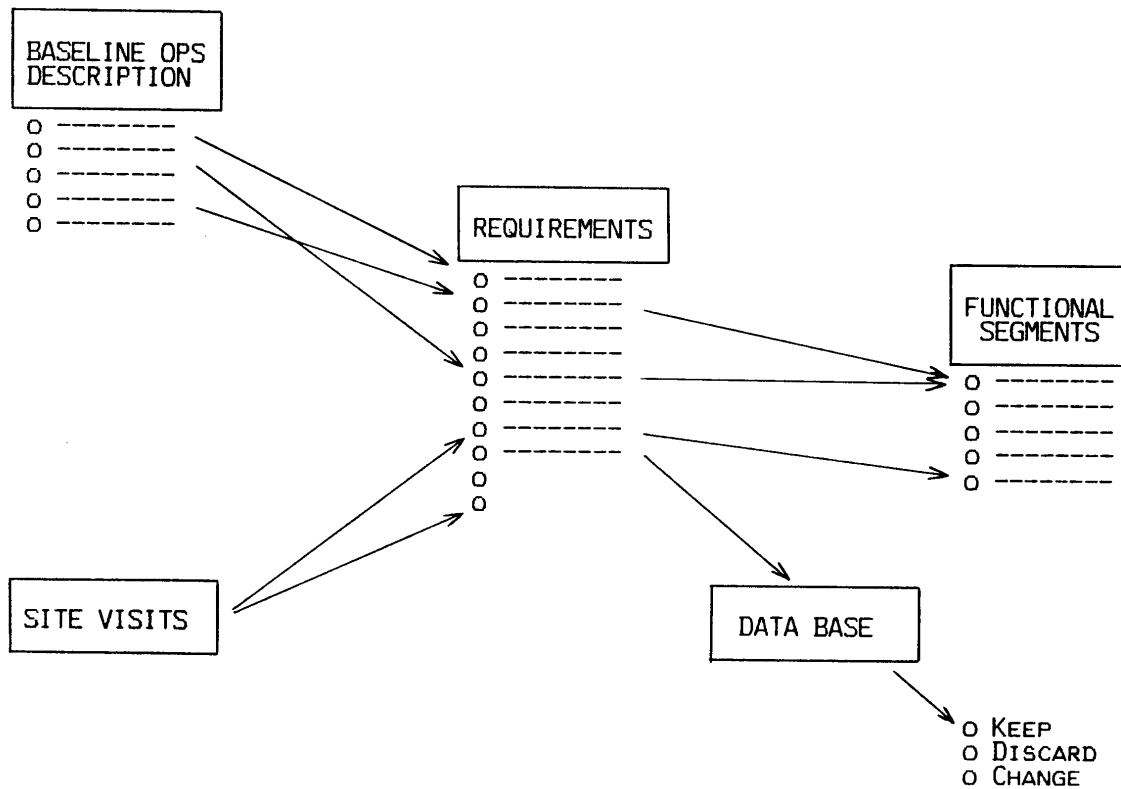
O NEW/MISSING REQUIREMENTS

35 O RFC'S TO SDS-002

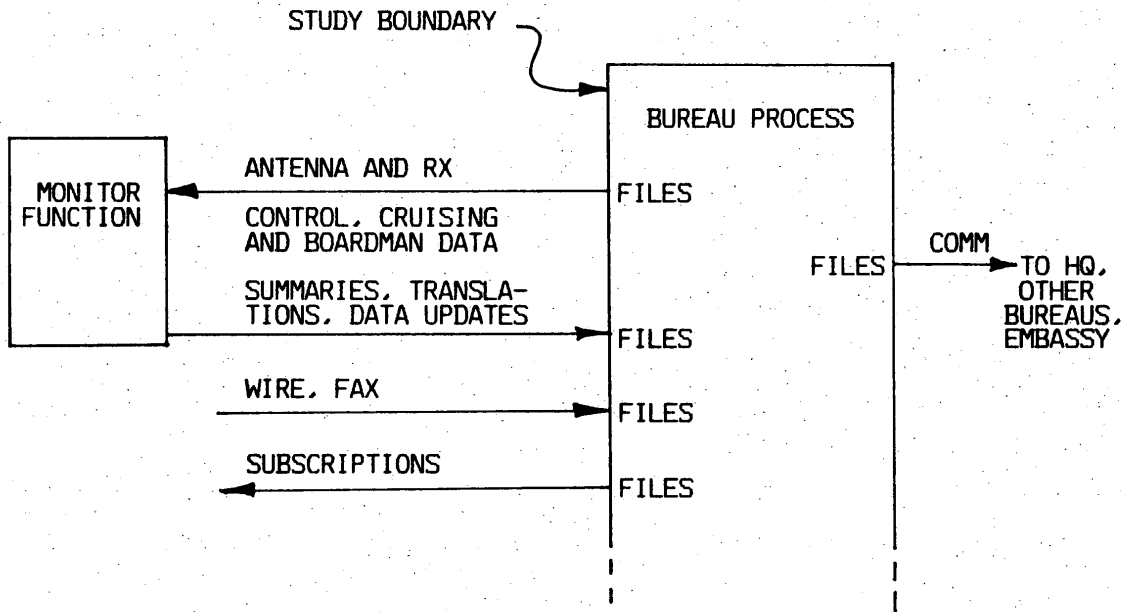
O RECOMMENDATION TO REWRITE SDS-002

O UNDERSTANDING FOR DESIGN PHASE

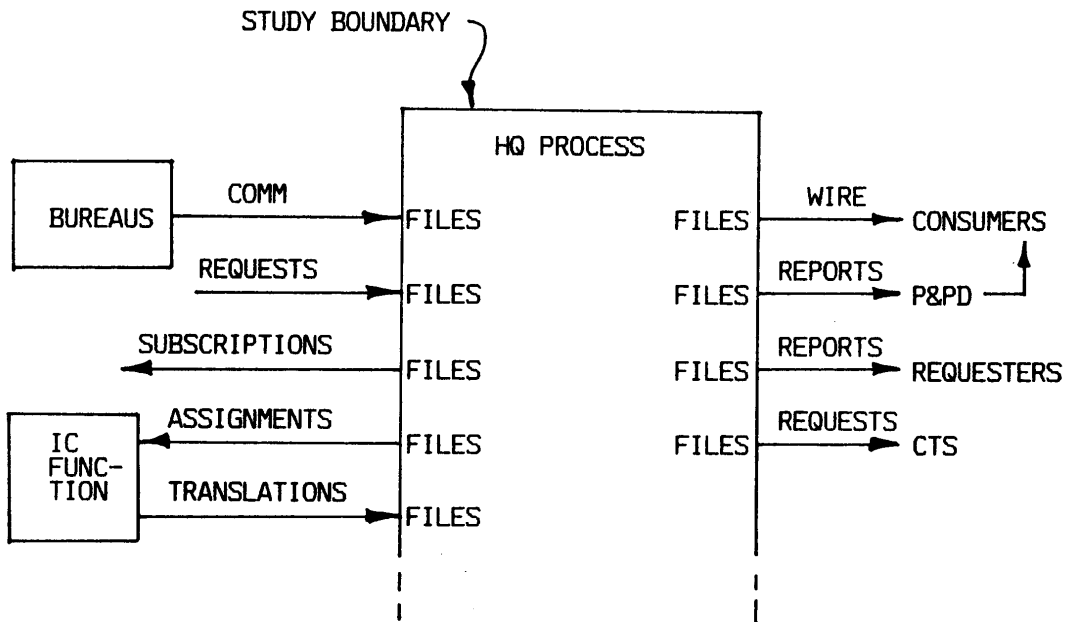
FBIS REQUIREMENTS ANALYSIS



FBIS MODERNIZATION STUDY BOUNDARIES--BUREAU



FBIS MODERNIZATION STUDY BOUNDARIES--HEADQUARTERS



FBIS CDP REQUIREMENTS REVIEW

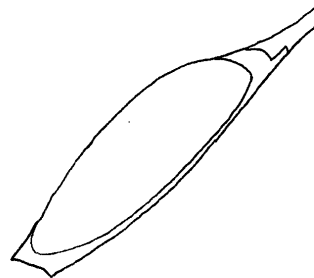
3. SYSTEM REQUIREMENTS ANALYSIS

- INTRODUCTION
 - SYSTEM WIDE CONSIDERATIONS
 - BUREAU
 - HQ OPERATIONS GROUP
 - HQ ANALYSIS AND PRODUCTION GROUPS

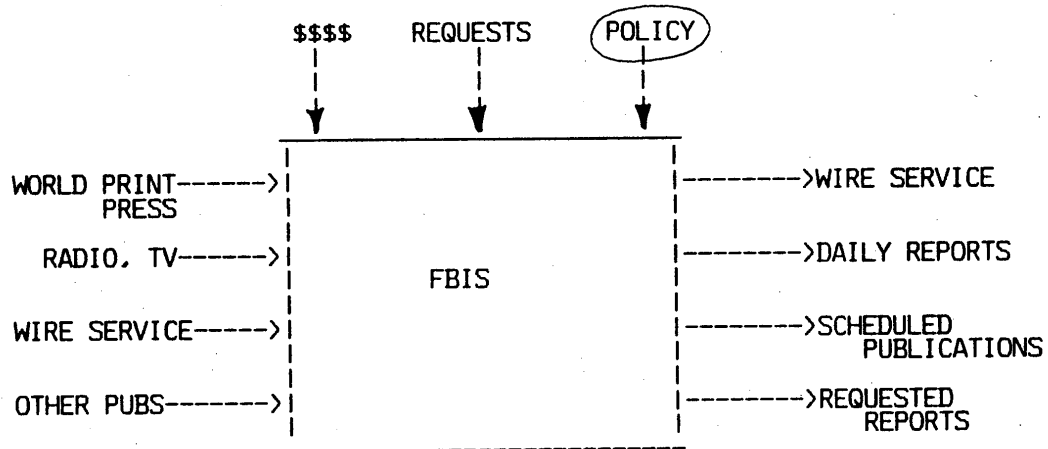
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FBIS REQUIREMENTS ANALYSIS ORDER OF PRESENTATION

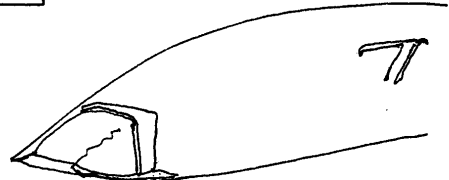
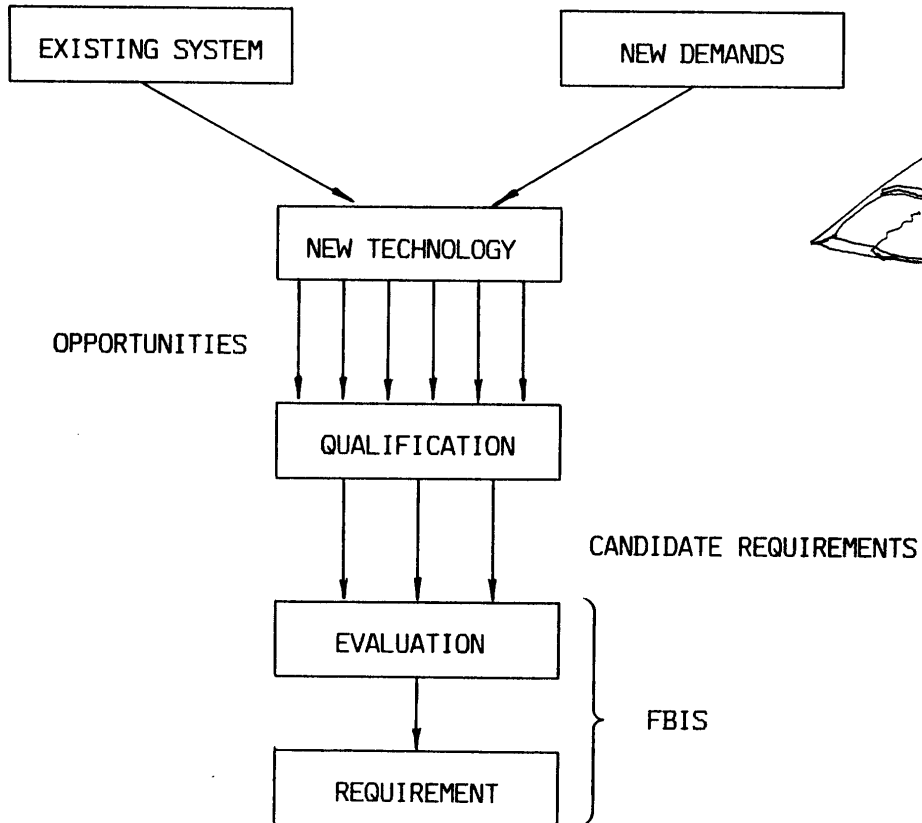
- 0 PROCESS FLOW
- 0 MAJOR MODERNIZATION OPPORTUNITIES
- 0 LEVEL OF IMPORTANCE
- 0 SUMMARY OF NEW/MISSING REQUIREMENTS



FBIS PROCESS FLOW



FBIS MODERNIZATION OPPORTUNITIES



**FBIS REQUIREMENTS
LEVEL OF IMPORTANCE**

I: LIKELY TO IMPROVE PRODUCT AND PERFORMANCE, SAVE
LABOR, OR IMPROVE EFFICIENCY

II: "NICE" TO HAVE, IMPROVES ENVIRONMENT, RESOURCE
UTILIZATION, OR COMMUNICATIONS

III: OPTIONAL OR SPECIAL, FUNCTION UNIQUE, NOT
OBVIOUSLY BENEFICIAL

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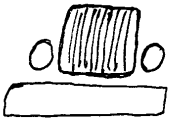
3. SYSTEM REQUIREMENTS ANALYSIS

- INTRODUCTION

- SYSTEM WIDE CONSIDERATIONS
 - BUREAU
 - HQ OPERATIONS GROUP
 - HQ ANALYSIS AND PRODUCTION GROUPS

SYSTEM WIDE CONSIDERATIONS

- 0 MODERNIZATION (DATA FLOW) *who generates the numbers?*
- 0 INITIALIZATION / TRANSITION
- 0 TRAINING *dropping the system into place? Not necessarily.*
- 0 SECURITY
- 0 "...ILITIES" *maintenance more important because foreign environment*



- consumers moving toward electronics vs paper files.
- TV will become more important as source. Broad-band

FBIS

A CONSUMER SERVICE ORGANIZATION

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- data capture 7-Dx cost of software development

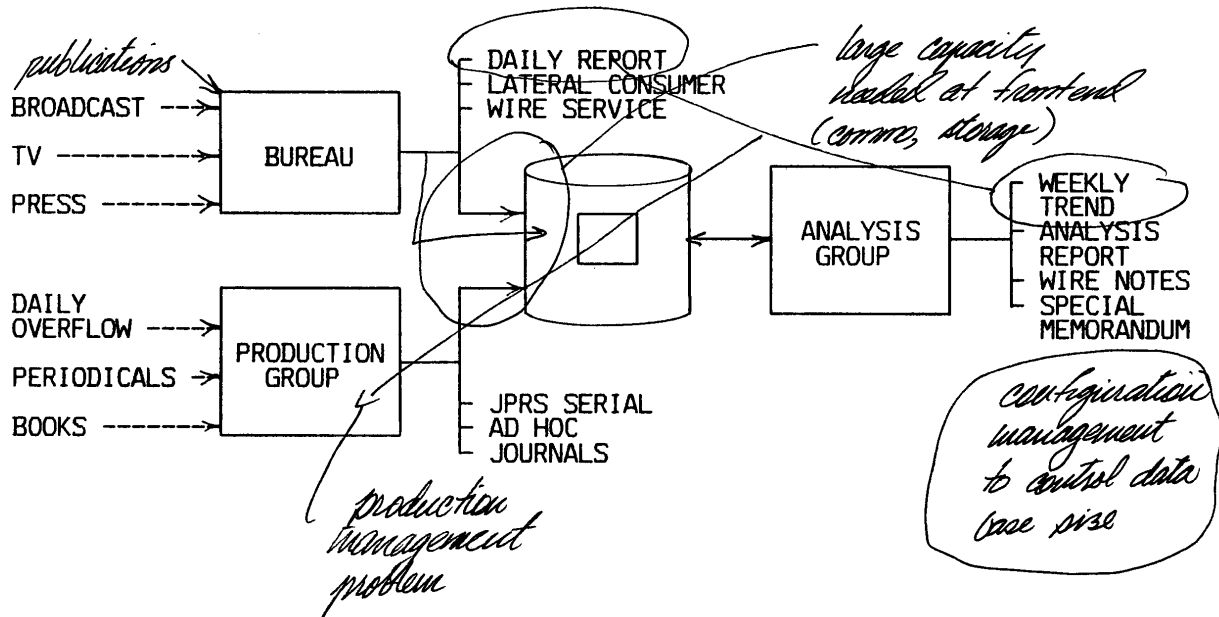
MODERNIZATION DATA FLOW

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SYSTEM DATA TYPES

- 0 PRODUCT SOURCE MATERIAL FILE
 - DIRECTORIES } *derived from above?*
 - INDICES }
- 0 PRODUCTION MANAGEMENT AND CONTROL *< apply to field also?*
- 0 REFERENCE SUPPORT

PRODUCT SOURCE MATERIAL DATA FLOW



PRODUCTION MANAGEMENT AND CONTROL

LRB ----- CONSUMER REQUIREMENTS
SELECTION CRITERIA

BUREAU ----- CRUISING FILE
COVERAGE SCHEDULE
LATERAL SERVICES LIST
REFERENCE MATERIAL

↳ obtain functions?

PRODUCTION ----- "CSO" FILE
GROUP
INDEPENDENT CONTRACTOR FILE
SERIALIZATION RECORDS
DISTRIBUTION LISTS

*lists
"Area"
of
control*

what about DR? Wire?

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PRODUCTION MANAGEMENT (CONT'D)

ANALYSIS ----- SPECIAL REQUESTS
GROUP
INQUIRES LOG
DISTRIBUTION LISTS

MANAGEMENT ----- STATUS
ADMINISTRATIVE SUPPORT
QUALITY ASSESSMENT FILES
PERFORMANCE EVALUATION

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REFERENCE SUPPORT

*evaluate
which ones
should be
stored*

- 0 GLOSSARIES
- 0 DICTIONARIES
- 0 SPELLING CHECKER
- 0 CABINET AND DIPLOMATIC LISTS

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TRANSITION

TRANSITION REQUIREMENTS

- acceptance*
- 0 NO IMPACT ON PRODUCTION
 - 0 FULLY FACTORY TESTED AND VERIFIED
 - 0 ASSIMILATED THROUGH SHADOWED OPERATIONS

*requires extra
staff for
parallel operations*

HEADQUARTERS TRANSITION

FACTORY TEST AND VERIFICATION

- PHASE I:
- 0 ESTABLISH DAILY REPORT DATA FLOW THROUGH SHADOWED OPERATIONS
 - 0 ESTABLISH PRODUCTION MANAGEMENT SYSTEM FOR PRODUCTION GROUP
- PHASE II:
- 0 ESTABLISH PRODUCTION SOURCE MATERIAL DATA BASE
 - 0 PROTOTYPE AG "FILING" FUNCTION
- PHASE III:
- 0 INSTALL FULL PRODUCTION MANAGEMENT AND CONTROL
 - 0 DEVELOP TRANSLATION SUPPORT
 - 0 INSTALL AG TOOLS

software is not now available for "user profiling"

BUREAU TRANSITION

- 0 FACTORY TEST AND VERIFICATION *monitors, etc. only on site.*
- 0 TEST, DEMONSTRATION, TRAINING CENTER *separate. "supermarket" to serve flexible needs of each bureau.*
- 0 ALPHA SITE *(key asset)*
- 0 BETA1 SITES
- 0 BETA2 SITES *"flagship" sites*
- 0 FULL INSTALLATION

determined by tech support available

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- full page screen possible for monitors
- all functions same for editors

TRAINING

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MAJOR INTENSIVE TRAINING AREAS

- supplied by residents.

0 PUBLICATIONS SUBSYSTEM *incl DR.*

0 SYSTEM MANAGEMENT

0 SYSTEM MAINTENANCE

*press train key people for future.
wouldn't poss. for first 3-110
for procedures, not tech*

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SECURITY

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SECURITY REQUIREMENTS

- 0 FBIS SHALL OPERATE IN A SYSTEM HIGH ENVIRONMENT
- 0 CLASSIFICATION SHALL RANGE FROM UNCLASSIFIED TO SECRET (TBR)
- 0 DATA AND FILES EXTRACTED FROM THE SYSTEM SHALL CONTAIN THE SECURITY CLASSIFICATION

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*reliability
maintain
service*

“...ILITIES” AND OTHERS

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RELIABILITY

- O DESIGN PRACTICES (TBD)
- O SIMPLICITY OF CONSTRUCTION (TBD)
- O REDUNDANCY (TBD)

AVAILABILITY

DEFINITION: THE PROBABILITY THAT THOSE FBIS FUNCTIONS
REQUIRED TO ACCESS AND OUTPUT PRODUCTS AND
SERVICES ARE IN OPERATING CONDITION AND
ARE OPERABLE AT ANY INSTANT OF TIME WITH
THE EXCEPTION OF PLANNED DOWNTIMES.

REQUIREMENT: STEADY STATE AVAILABILITY SHALL BE AT
LEAST .98 (TBR)

SINGLE POINT FAILURE

DEFINITION: ANY MALFUNCTION IN EQUIPMENT OR OPERATIONAL
ERROR THAT WOULD PRECLUDE THE CAPABILITY TO
MEET THE REQUIREMENTS OF FBIS

REQUIREMENT: NO SINGLE POINT FAILURE IN FBIS SHALL CAUSE
IRRETRIEVABLE LOSS OR CONTAMINATION OF
DATA

cost driver

MAINTAINABILITY

THE FBIS DESIGN SHALL PERMIT TESTING OF SYSTEM EQUIPMENT TO ESTABLISH OPERATIONAL CAPABILITIES WITHOUT DISRUPTING FBIS OPERATIONAL TIMELINES

ADDITIONAL AREAS (TBD):

DIAGNOSTIC AIDS
REPAIR VALIDATION
INTERCHANGEABILITY
ACCESSIBILITY
MEAN TIME TO RESTORE

*vendor selection
criteria*

SOFTWARE

THE FBIS SOFTWARE AND DOCUMENTATION SHALL BE DESIGNED AND IMPLEMENTED
IN ACCORDANCE WITH THE PROGRAMMING PRACTICES, STANDARDS, AND
CONVENTIONS OF THE MODERNIZATION PROGRAM.

*probably a
subscription service
for off-the-shelf
software.*

ENVIRONMENTAL

*put this in
equipment
requirements*

THE SYSTEM SHALL OPERATE IN THE ENVIRONMENT SPECIFIED IN THE FBIS FACILITY REQUIREMENTS DOCUMENT FOR BOTH HEADQUARTERS AND THE INDIVIDUAL BUREAUS

THE SYSTEM SHALL BE DESIGNED AND CONSTRUCTED TO WITHSTAND SERVICE OUTAGE WITHOUT MECHANICAL OR ELECTRICAL DAMAGE OR DEGRADATION OF OVERALL PERFORMANCE

LIFETIME

THE ELECTRICAL AND MECHANICAL DESIGN SHALL PROVIDE AN
EXPECTED USEFUL LIFETIME OF 10 (TBR) YEARS AFTER TURNOVER

*requires strong, established
vendor who can
support changes for
new technology*

*strong ?
TPS 6000 S
2
FAS = MIDAS*

FBIS CDP REQUIREMENTS REVIEW

Rich Friskie

3. SYSTEM REQUIREMENTS ANALYSIS

- INTRODUCTION
- SYSTEM WIDE CONSIDERATIONS

- BUREAU
 - HQ OPERATIONS GROUP
 - HQ ANALYSIS AND PRODUCTION GROUPS

BRIEFING OVERVIEW

- 0 BUREAU OVERVIEW: DEFINITION OF (4) REQUIREMENT AREAS
- 0 COLLECTION REQUIREMENT AREA
- 0 *Monitoring/*
TRANSLATION AND EDITING REQUIREMENTS AREA
- 0 COMMUNICATIONS REQUIREMENT AREA
- 0 ADMINISTRATIVE AND TECHNICAL SUPPORT REQUIREMENTS AREA
- 0 MODERNIZATION PHASING
- 0 BUREAUS' SYSTEM-LEVEL REQUIREMENTS
- 0 DERIVED REQUIREMENTS SUMMARY
- 0 RECOMMENDED REQUIREMENTS CHANGES

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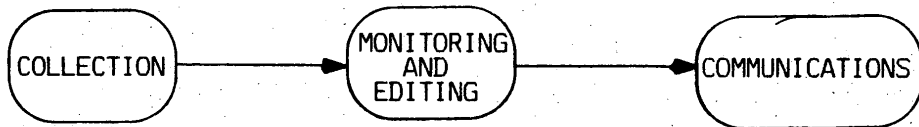
BUREAU OVERVIEW

0 BUREAU BLOCK DIAGRAM

0 DEFINITION OF REQUIREMENT AREAS

- COLLECTION
- TRANSLATION AND EDITING
- COMMUNICATIONS
- ADMINISTRATIVE AND TECHNICAL SUPPORT

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- 1.2 COLLECTION
- 1.3 INTERNAL DISTRIBUTION
- 1.12 CRUISING

- 1.4 MONITORING
- 1.5 SELECT
- 1.6 TRANSLATION
- 1.7 EDIT
- 1.8 DISSEMINATION ASSIGNMENT
- 1.9 PROOFING
- 1.11 TRAINING

- 1.9 MESSAGE PROCESSING

SUPPORT

- 1.13 ADMINISTRATIVE OPERATIONS
- (1.14) MAINTAINENCE

← added

↑ maintenance

0 COLLECTION

- INCLUDES:

- o COLLECTION PERFORMED BY MONITOR OR BOARDMAN
- o CRUISING PERFORMED BY CRUISER

- EQUIPMENT CURRENTLY CONSISTS OF:

- | | |
|--------------------|-----------------------|
| o ANTENNAS | o SWITCHING EQUIPMENT |
| o RECEIVERS | o RECORDERS |
| o DEMODULATORS | o TELEPRINTERS |
| o LEASED LINES | o FAX |
| o REMOTE SITE KITS | o ETC. |

0 TRANSLATION AND EDITING

- INCLUDES:

- o MONITORING, [SELECTION], AND TRANSLATION PERFORMED BY A MONITOR
- o [SELECTION], EDITING, MESSAGE PREP., ETC PERFORMED BY AN EDITOR

- EQUIPMENT CURRENTLY CONSISTS OF:

- | | |
|----------------|--------------------|
| o TAPE PLAYERS | o HEADPHONES |
| o TYPEWRITERS | o OFFICE FURNITURE |

DEFINITION OF REQUIREMENT AREAS (CONT.)

O COMMUNICATIONS

- INCLUDES:

O COMMO PROCESSING PERFORMED BY A TELETYPEPIST

- EQUIPMENT CURRENTLY CONSISTS OF:

O TELETYPEWRITERS O COMMO EQUIPMENT
O PAPER TAPE READERS O ETC.

O ADMINISTRATIVE AND TECHNICAL SUPPORT

- INCLUDES:

O ADMINISTRATIVE FUNCTIONS PERFORMED BY BUREAU AND
DEPUTY CHIEF, ADMIN. ASSTS., AND SECRETARIES
O BUREAU MAINTAINENACE PERFORMED BY ENGINEERS AND
TECHNICIANS

- EQUIPMENT CURRENTLY CONSISTS OF:

O TYPEWRITERS O OFFICE FURNITURE
O ELECTRONIC REPAIR EQUIPMENT (SCOPES, ETC.)

- 0 ASSUMPTIONS
- 0 RADIO COLLECTION
 - OPERATION AND REQUIREMENTS
 - 0 MAPPING TO SDS-002
 - 0 KEY REQUIREMENTS
 - MODERNIZATION OPPORTUNITIES
- 0 TV COLLECTION
 - ...
- 0 PRESS AGENCY WIRE COLLECTION
 - ...
- 0 PUBLICATION COLLECTION
 - ...
- 0 CRUISING
 - ...

*more beneficial
in this area.*

O MODERNIZATION OF EXISTING COLLECTION EQUIPMENT IS OUTSIDE THE SCOPE OF THIS PROGRAM -- I.E., THE FOLLOWING ARE GFE:

- RADIO: ANTENNAS, MULTICOUPLERS, RECEIVERS, HEADSETS, RECORDERS
- TV: ANTENNAS, RECEIVERS, RECORDERS
- PRESS AGENCY: ANTENNAS, RECEIVERS, DEMODULATORS, TELEPRINTERS, LEASED LINES, FAX
- REMOTE SITES: REMOTELY-CONTROLLED RECEIVERS, REMOTE KITS
- FACILITIES: DESKS, CHAIRS, SHELVES, OFFICE SPACE, ETC.

O SOME COLLECTION EQUIPMENT WILL BE/IS BEING UPGRADED BY THE GOV.N.:

O ANY COMPUTERIZED CONTROL OF THESE DEVICES DOES FALL WITHIN THE SCOPE OF THIS PROGRAM

INTERNET

0 REQUIREMENTS ARE FROM SECTION 2.2.1 OF SDS-002

0 KEY REQUIREMENTS

- MEET COVERAGE SCHEDULE
- MEET EXPANDED COVERAGE SCHEDULE IN TIMES OF CRISIS
- SELECT ANTENNA
- TUNE RECEIVER *how will this be done without tunable receiver*
- MAINTAIN TUNING THROUGHOUT BROADCAST IN RESPONSE TO DRIFT (OR PERHAPS TUNE TO AN ALTERNATE STATION)
- RECORD BROADCAST
- LOG RECORDINGS
- [DISTRIBUTE RECORDINGS TO MONITORS]

0 MODERNIZATION OPPORTUNITIES

- AUTOMATED ANTENNA SELECTION/TUNING/SIGNAL TRACKING ACCORDING TO COV. SCHEDULE
- AUTOMATED PROGRAM RECORDING ACCORDING TO COVERAGE SCHEDULE
- LOGGING OF RECORDED PROGRAMS AUTOMATICALLY OR MAINTAINING SOFTCOPY LOG RECORDS

good improve "voice to base" message
CAT.: II/III

CAT.: II/III

CAT.: II

*future consideration:
digital voice (in 5-10 yrs)
use generic recording
in making specs.*

TV COLLECTION REQUIREMENTS

0 REQUIREMENTS ARE FROM SECTION 2.2.3 OF SDS-002

0 KEY REQUIREMENTS

- MEET COVERAGE SCHEDULE
- MEET EXPANDED COVERAGE SCHEDULE IN TIMES OF CRISIS
- SELECT ANTENNA
- SELECT CHANNEL
- RECORD BROADCAST
- LOG RECORDINGS
- [DISTRIBUTE RECORDINGS TO MONITORS]

0 MODERNIZATION OPPORTUNITIES

- AUTOMATED ANTENNA SELECTION/RECEPTION ACCORDING TO COVERAGE SCHEDULE CAT.: II/III
- AUTOMATED PROGRAM RECORDING ACCORDING TO COVERAGE SCHEDULE CAT.: II/III
- LOGGING OF RECORDED PROGRAMS AUTOMATICALLY OR MAINTAINING SOFTCOPY LOG RECORDS CAT.: II

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PRESS AGENCY COLLECTION REQUIREMENTS

0 REQUIREMENTS ARE FROM SECTION 2.2.2 OF SDS-002

0 KEY REQUIREMENTS

- RECEIVE PRESS AGENCY TRANSMISSIONS
- RECORD TRANSMISSIONS (CURRENTLY VIA TELEPRINTER)
- MAKE TRANSMISSIONS AVAILABLE FOR SELECTION
[AND TRANSLATION, IF IN A FOREIGN LANGUAGE]

ignores other modernization efforts

*is this material
tech.?*

- | | CAT. |
|---|------|
| 0 STAND-ALONE SOFTCOPY TELEPRINTER (ENGLISH OR NON-ENGLISH) | |
| > - RECORD TRANSMISSIONS ON <u>DISK</u> | I |
| - <u>LOG TRANSMISSIONS IN A PREVIEW FILE</u> <i>how?</i> | I |
| - MARK TRANSMISSIONS OF INTEREST | I |
| - ALERT OPERATOR OF RELEVANT OR HIGH PRIORITY TRANSMISSIONS | I |
| - PROVIDE SOFTCOPY READING AND SELECTION OF ITEMS | I |
| - PRINT SELECTED ITEMS | I |
| - OPTIONALLY, PRINT ALL TRANSMITTED ITEMS | I |
|
0 ENGLISH TELEPRINTER | |
| - INDICATE DISSEMINATION LIST FOR SELECTED ITEMS | I |
| - DIRECTLY ROUTE SELECTED ITEMS <u>DIGITALLY</u> TO COMM. | I |

*} possibly full text
everything at first*

*at special
"teleprinter" CRT*

CAT.

- 0 REGARDLESS OF ALPHABET, NEED ONE OF THE FOLLOWING:
 - SELECT IN SOFTCOPY AND THEN PRINT FOR TRANSLATION I
 - OR, DIRECTLY ROUTE SELECTED ITEMS DIGITALLY TO MONITORS FOR TRANSLATION I
 - OR, PERMIT DIGITAL RETRIEVAL OF THE TRANSMISSION I/IILOG OR TRANSMITTED ITEMS FROM ANY MONITOR'S TERMINAL
- 0 PERHAPS USE DIGITAL TRANSMISSION FOR ROMAN ALPHABET,
BUT JUST PRINT ON PAPER ITEMS IN OTHER ALPHABETS

*means more info
flow in local
network*

0 REQUIREMENTS ARE FROM SECTION 2.2.4 OF SDS-002

0 KEY REQUIREMENTS

- LOG RECEIPT OF ISSUES
- RUN DOWN LATE/MISSING ISSUES
- DISTRIBUTE TO MONITORS
- MAINTAIN SUBSCRIPTIONS

0 MODERNIZATION OPPORTUNITIES

- LOG RECEIPT/NOTIFY OF LATE ISSUES
- MAINTAIN SUBSCRIPTIONS

CAT.: II
CAT.: II/III

0 REQUIREMENTS ARE FROM SECTION 2.2.4(B) OF SDS-002

0 KEY REQUIREMENTS

- TUNE AND RECEIVE RADIO STATIONS
- IDENTIFY STATION AND BROADCAST PARTICULARS
- RECORD BROADCASTS [FOR EVALUATION BY SOMEONE ELSE WITH REQUIRED LANGUAGE CAPABILITY]
- KEEP RECORDS OF RECEPTIONS AND BROADCAST CONDITIONS
- SUPPLY COPIES OF RECORDS TO M.O.D.

*periodic revisiting
allow this*

*most likely to
improve*

0 MODERNIZATION OPPORTUNITIES

CAT.

- AUTOMATED SUPPORT FOR KEEPING OF OBSERVATION RECORDS

II

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MONITORING AND EDITING ROOMS. AREA

0 MONITORING & TRANSLATION

- OPERATION AND REQUIREMENTS
- MODERNIZATION OPPORTUNITIES

0 EDITING

- OPERATION AND REQUIREMENTS
- MODERNIZATION OPPORTUNITIES

- O REQUIREMENTS MAPPED TO SECTION 2.3 "PROCESSING" OF SDS-002

- O BOTH MONITORING AND TRANSLATION REQUIRE THE SAME CAPABILITIES TO BE PROVIDED FOR A MONITOR:
 - INITIALIZATION OF AN ITEM
 - O SOURCE OF ITEM
 - O MONITOR'S NAME
 - O TIME OF TRANSLATION
 - TYPING OF TRANSLATED TEXT
 - PROOFING OF TYPED TEXT
 - CORRECTIVE EDIT OF TYPED TEXT
 - TRANSMISSION OF ITEM TO EDITOR
 - ACCESS TO REFERENCE MATERIALS

MODERNIZATION OPPORTUNITIES FOR MONITORS

0	MONITORING AND TRANSLATION WORD PROCESSING	CAT.
	(FOR PROGRAM SUMMARIES OR TRANSLATIONS)	
-	ITEM INITIALIZATION	I/II
-	TYPING OF TRANSLATED TEXT	I/II
-	PROOFING OF TYPED TEXT	I/II
-	CORRECTIVE EDIT OF TYPED TEXT	I/II
-	TRANSMISSION OF ITEM TO EDITOR	I/II
o	DIGITALLY	
o	PRINTING OF TYPED ITEM	
0	SELECTION	
-	ACCESS TO TRANSMISSION LOGS AND ITEMS	I/II
0	Misc.	
-	ACCESS TO REFERENCE MATERIALS	II/III

0 REQUIREMENTS MAPPED TO SECTION 2.3 "PROCESSING" OF SDS-002

0 KEY REQUIREMENTS

- SELECTION OF NEXT ITEM TO EDIT
- READING OF TRANSLATED ITEM
- EDITS/REWRITES OF TRANSLATED ITEMS
- TRACKING OF ALL EDITORIAL REVISIONS
- IDENTIFY DISTRIBUTION LIST FOR ITEM
- IDENTIFY MESSAGE PRIORITY
- TRANSMISSION OF EDITED ITEMS TO COMM.

PROVIDE COMMENTS/FEEDBACK ON TRANSLATION QUALITY

- ACCESS REFERENCE MATERIALS

*classified
require.*

MODERNIZATION OPPORTUNITIES FOR EDITORS

	CAT.
0 EDITING WORD PROCESSING	
- SELECTION OF NEXT ITEM TO EDIT	I/II
- READING OF TRANSLATED ITEM	I/II
- EDITS/REWRITES OF TRANSLATED ITEMS	I/II
- TRACKING OF ALL EDITORIAL REVISIONS	I/II
0 MESSAGE DISTRIBUTION	
- IDENTIFY DISTRIBUTION LIST FOR ITEM	I/II
- IDENTIFY MESSAGE PRIORITY	I/II
- TRANSMISSION OF EDITED ITEMS TO COMM.	I/II
o DIGITAL, OR	
o PRINTED	
0 Misc.	
- PROVIDE COMMENTS/FEEDBACK ON TRANSLATION QUALITY	II
- ACCESS REFERENCE MATERIALS	II

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COMMUNICATIONS REQUIREMENT AREA

0 ASSUMPTIONS

0 OPERATION AND REQUIREMENTS

- TRANSMISSION

- RECEPTION

0 MODERNIZATION OPPORTUNITIES

- 0 STUDY OF THE COMMUNICATIONS FACILITIES PROPER (E.G., CAPACITY, RELIABILITY, LIFETIME, ETC.) AND THEIR MODERNIZATION IS OUTSIDE THE SCOPE OF THIS PROGRAM

- 0 THIS MODERNIZATION EFFORT IS RESPONSIBLE FOR:
 - UPGRADING OR MODIFICATION OF COMMUNICATIONS FACILITIES NECESSARY TO SUPPORT OTHER BUREAU MODERNIZATION OBJECTIVES
 - ANY COMPUTERIZED CONTROL OF COMMUNICATION EQUIPMENT
 - MODERNIZATION OF OPERATOR-RELATED EQUIPMENT

- 0 MODERNIZATION OF HEADQUARTERS COMM. FUNCTION IS DISCUSSED LATER BY DAVE BEST

0 REQUIREMENTS ARE FROM SECTIONS 2.4 AND 2.6 OF SDS-002

0 TRANSMISSION

- RECEIVE EDITED ITEMS FROM EDITORS
- PREPARE AND FORMAT ITEMS FOR TRANSMISSION
- TRANSMIT MESSAGE

0 RECEPTION

- RECEIVE TRANSMITTED ITEMS FROM COMM. NETWORK
- DELIVER ITEMS TO PROPER USERS

	CAT.
0 TRANSMISSION	
- RECEIVE EDITED ITEMS DIGITALLY	I
- PREPARE ROUTING INFORMATION FROM EDITOR'S CODE	I
- PREPARE PRECEDENCE INSTRUCTIONS FROM EDITOR'S NOTES	I
2. - FORMAT ITEM BY NETWORK PROTOCOLS <i>shipping instructions for any various comm. network.</i>	I
- TRANSMIT ITEM OVER SELECTED COMM. NETWORK	I
- RETAIN COPY OF TRANSMITTED MESSAGE	II
0 RECEPTION	
- ALERT OPERATOR TO INCOMING MESSAGE	II
- RETAIN COPY OF RECEIVED MESSAGE	II
- AUTOMATED ROUTING OF MESSAGES	II/III

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SUPPORT REQUIREMENTS AREA

O ADMINISTRATION

- OPERATION AND REQUIREMENTS
- MODERNIZATION OPPORTUNITIES

O TECHNICAL

- OPERATION AND REQUIREMENTS
- MODERNIZATION OPPORTUNITIES

*not in ref
FBI's
no need for spec.
software.*

O ALL DERIVED REQUIREMENTS

O KEY REQUIREMENTS

- PAYROLL
- CAPITAL EQUIPMENT MANAGEMENT
- PURCHASING

O MODERNIZATION OPPORTUNITIES

- | | |
|-----------------------------|------|
| - SPREADSHEET | CAT. |
| - WORD PROCESSOR | I/II |
| - ELECTRONIC RECORD KEEPING | I/II |

- 0 ALL DERIVED REQUIREMENTS
- 0 KEY REQUIREMENTS *Equipment*
 - EQUIPMENT MAINTAINENCE
 - PARTS INVENTORY MANAGEMENT
 - 2 - ANTENNA DESIGN
- 0 MODERNIZATION OPPORTUNITIES CAT.
 - ELECTRONIC RECORD KEEPING I/II
 - WORD PROCESSING II
 - PREVENTIVE MAINTENANCE SCHEDULING II/III

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MODERNIZATION PHASING: MINIMAL STEPS

INCREMENTAL MODERNIZATION OF BUREAUS SHOULD PROCEED IN LOGICAL ORDER:

1. UPGRADE COMMUNICATIONS TELETYPES/PAPER TAPE TO COMPUTER TERMINALS AND INTERFACE TERMINALS TO COMM. NETWORKS
2. CONVERT ~~WIRE SERVICE~~ ^{Press agency} (ENGLISH LANGUAGE) TELEPRINTERS TO (STAND ALONE) TERMINALS WITH ONLINE STORAGE AND PRINTERS
3. INTEGRATE WIRE SERVICE TERMINALS TO COMM. TERMINALS AND PERMIT SELECTION/DISSEMINATION TO BE DONE IN SOFTCOPY
4. REPLACE MONITORS' TYPEWRITERS WITH COMPUTER TERMINALS WITH PRINTERS AND INTEGRATE WITH COMM. TERMINALS
5. PROVIDE EDITORS WITH EDITING TERMINALS AND INTEGRATE TO MONITORS' AND COMM. TERMINALS; {STAND ALONE INTERMEDIATE UPGRADE POSSIBLE}
6. CONVERT WIRE SERVICE (FOREIGN LANGUAGE) TELEPRINTERS TO COMPUTER TERMINALS WITH ONLINE STORAGE AND PRINTERS [DISPLAY ONLY CAPABILITY; NOT INTEGRATED WITH OTHER TERMINALS]
7. INTEGRATE FOREIGN LANGUAGE WIRE SERVICE TO MONITOR'S TERMINALS
8. PROVIDE COMPUTER TERMINALS (STAND ALONE) WITH OFF-THE-SHELF OFFICE SOFTWARE TO ADMINISTRATIVE PERSONNEL
9. PROVIDE COMPUTER TERMINALS (STAND ALONE) WITH OFF-THE-SHELF OFFICE SOFTWARE TO ENGINEERS/TECHNICIANS
10. INTEGRATE ADMINISTRATIVE TERMINALS WITH REST OF NETWORK
11. INTEGRATE TECHNICIANS TERMINALS WITH REST OF NETWORK

customize each bureau

*note: this puts any common slot reductions pretty far into the shed, so slot requests must be over existing +/o.
dump stand alones*

INCREMENTAL PHASING

- O THE PHASING POSSIBILITIES HELP DEFINE POSSIBLE DESIGN MODULES
- O MODULAR DESIGN ALLOWS EACH BUREAU TO MODERNIZE JUST ITS NEEDS
- O SOME VARIATIONS IN ORDER ARE POSSIBLE: CONVERT WIRE SERVICE TELETYPES TO SOFTCOPY AFTER MONITORS & EDITORS HAVE TERMINALS
- O SUBSTANTIAL INCREMENTAL CHANGES ARE PREFERABLE; PERHAPS COMBINE INCREMENTAL MODERNIZATIONS INTO THREE INSTALLMENTS:
 - REPLACE COMM. + WIRE SERVICE TELETYPES WITH TERMINALS
 - INSTALL & INTEGRATE MONITOR AND EDITOR TERMINALS
 - INSTALL & INTEGRATE ADMIN. & TECHNICIANS TERMINALS
- O TIMING OF INCREMENTS DEPENDS ON EXTERNAL FACTORS:
 - NETWORK DESIGN
 - RATE AT WHICH BUREAUS CAN ACCOMODATE CHANGES
 - FUNDING PROFILE

0 DESIGN REQS.

- AVAILABILITY

- POWER, SPACE, AC CONSTRAINTS

0 SYSTEM MANAGEMENT REQS.

- EQUIPMENT MANAGEMENT

*we have to
add up total
bureau req's.*

AVAILABILITY

-
- 0 SINGLE POINT OF FAILURE: FAILURE OF ANY SINGLE PIECE OF EQUIPMENT SHOULD NOT PROHIBIT THE CONTINUED OPERATION OF ALL OTHER EQUIPMENT IN A BUREAU'S NETWORK
 - 0 REDUNDANT CAPABILITY: FAILURE OF A SINGLE PIECE OF EQUIPMENT SHOULD NOT RESULT IN THE LOSS OF AN OPERATIONALLY-REQUIRED SOFTCOPY CAPABILITY
 - 0 HARDCOPY BACKUP: IN THE EVENT OF MULTIPLE EQUIPMENT FAILURES, THE NETWORK MUST PROVIDE THE HARDCOPY SUPPORT NEEDED TO REPLACE LOST CAPABILITIES OR CAPACITY (I.E., PRINT OUT MONITOR'S TYPED COPY FOR EDITORS)
 - 0 NETWORK AVAILABILITY: ALL CAPABILITIES NEEDED TO PERFORM MAINLINE BUREAU OPERATIONS MUST BE AVAILABLE IN SOFTCOPY 98% (TBR) OF THE BUREAU'S SCHEDULED COVERAGE HOURS
 - 0 RELIABILITY, MAINTAINABILITY: COVERED EARLIER BY RON

*parallels
existing
figures*

FACILITIES DESIGN REQUIREMENTS

0 POWER

- NETWORK DESIGN MUST OPERATE USING LOCALLY-AVAILABLE POWER
[CONVERSION TO A STANDARD OR MULTI-VOLTAGE EQUIPMENT IS
ALLOWABLE; DESIGNS MUST NOT REQUIRE NEW POWER SOURCES]

+

0 SPACE

- NETWORK DESIGN MUST NOT REQUIRE USE OF LARGE AMOUNTS OF
FLOOR SPACE [BUREAUS HAVE SPACE CONSTRAINTS]

0 AIR CONDITIONING

- NETWORK DESIGN MUST NOT REQUIRE EXCESSIVE COOLING

0 SYSTEM ACCESS

- ACCESS TO THE NETWORK SHOULD BE RESTRICTED TO AUTHORIZED USERS ONLY
- IT SHOULD BE POSSIBLE TO CONTROL ACCESS TO INDIVIDUAL FILES TO AUTHORIZED USERS

0 RESOURCE MANAGEMENT

- THE CAPABILITY TO CREATE BACKUP COPIES OF THE SYSTEM MUST BE PROVIDED
- IT MUST BE POSSIBLE FOR THE SYSTEM MANAGER TO MANAGE ONLINE DATA STORAGE -- ARCHIVE OR PURGE OLD ITEMS
- THE SYSTEM MANAGER MUST BE ABLE TO MAINTAIN THE CONTENT AND CURRENCY OF ONLINE REFERENCE MATERIALS

0 CONFIGURATION MANAGEMENT

- THE SYSTEM MANAGER MUST BE ABLE TO MANAGE THE NETWORK CONFIGURATION

*why have
a manager?*

*allows stable
system*

- 0 NEED ABILITY TO PRINT OUT DATA AT ANY POINT IN PROCESSING
- 0 IT SHOULD BE A DESIGN DECISION HOW TO HANDLE THE PRESS
AGENCY WIRE SERVICES -- JUST SPECIFY FUNCTIONAL REQUIREMENTS
- 0 A REDUNDANT DESIGN IS NEEDED (BOTH DIGITAL AND HARDCOPY
BACKUP PLANS) TO ENSURE BUREAUS CAN DO THEIR JOBS
- 0 NEED TO ADD SYSTEM MANAGEMENT FUNCTIONS
- 0 NEED TO ADD DESIGN REQUIREMENTS
- 0 OTHERS, AS NOTED EARLIER

- 0 BOLSTER STATEMENTS OF FUNCTIONAL REQUIREMENTS
- 0 REPLACE AUTOMATED RADIO/TV RECEPTION/RECORDING WITH
A GENERAL REQUIREMENT TO PROVIDE A FLEXIBLE DESIGN
THAT CAN ACCOMODATE SPECIAL MODERNIZATION REQUIREMENTS
OF INDIVIDUAL BUREAUS; OR FURTHER, FUTURE MODERNIZATION

TV stills

FBIS CDP REQUIREMENTS REVIEW

3. SYSTEM REQUIREMENTS ANALYSIS

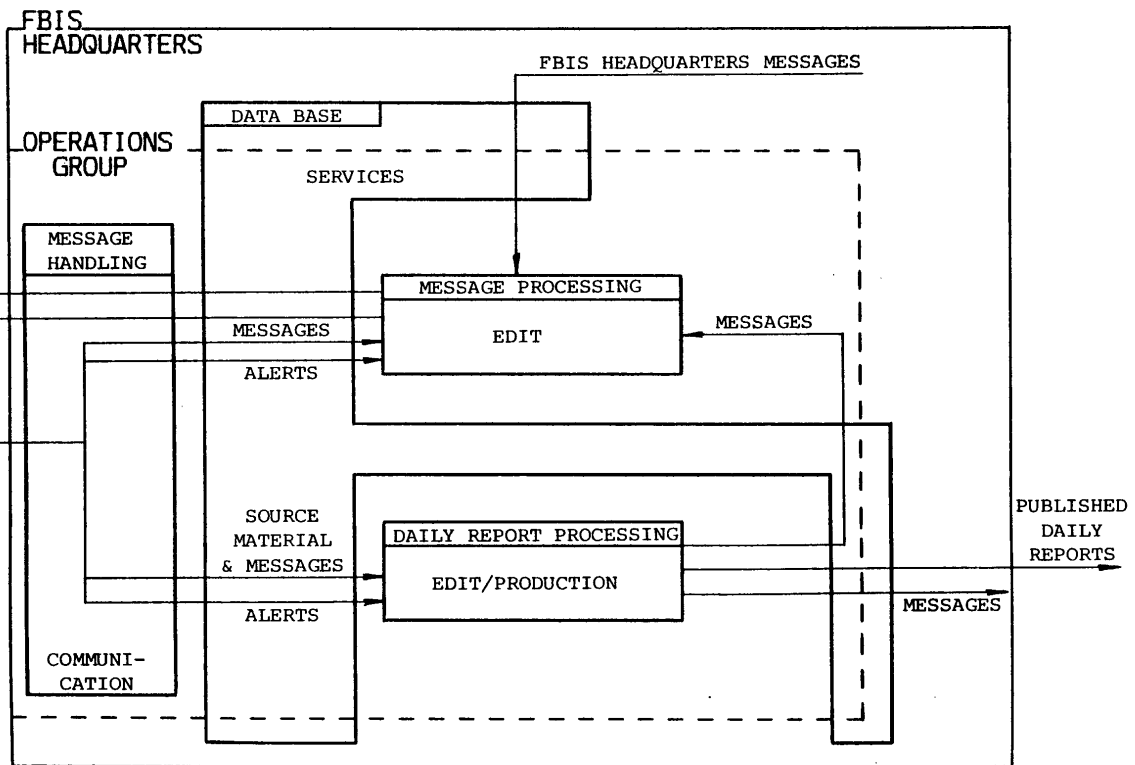
- INTRODUCTION
- SYSTEM WIDE CONSIDERATIONS
- BUREAU

- HQ OPERATIONS GROUP

- HQ ANALYSIS AND PRODUCTION GROUPS

SIMPLIFIED FLOW FOR FBIS OPERATIONS GROUP


*these guys
correctly have all
the wire
messages going*



FUNCTIONAL SEGMENTS

- O COMMUNICATION
 - WIRE SERVICE MESSAGE HANDLING INPUT/OUTPUT
- O DATA BASE SERVICES
- O EDIT
 - WIRE SERVICE MESSAGE PROCESSING
 - DAILY REPORT EDITING
- O PRODUCTION
 - DAILY REPORT COMPOSITION

*not necessarily
centralized or
monolithic*



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WIRE SERVICE
MESSAGE HANDLING
INPUT/OUTPUT

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WIRE SERVICE MESSAGE HANDLING I/O

MODERNIZATION REQUIREMENTS

O CAPACITY

- CURRENT VOLUME (*including crisis peaks*)
- REQUIRED GROWTH MARGIN

O RELIABILITY

- REDUNDANT/FAULT-TOLERANT
- STANDARD AND PROVEN

O AUTOMATED INPUT PROCESSING

- VALIDATION
- RETRANSMISSION REQUESTS *< option*
- DISSEMINATION
- ALERTS
- STORAGE

O AUTOMATED OUTPUT PROCESSING

- QUEUE-DRIVEN
- QUEUE REVISION
- FORMATTING
- LOGGING
- INTERRUPTS

*std, proven
w. good support*

WIRE SERVICE MESSAGE HANDLING I/O

REQUIREMENTS LEVEL OF IMPORTANCE

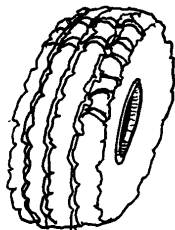
<u>MODERNIZATION REQUIREMENT</u>	<u>LEVEL OF IMPORTANCE</u>
O CAPACITY	I
O RELIABILITY	I
O AUTOMATED INPUT PROCESSING	I
O AUTOMATED OUTPUT PROCESSING	I

WIRE SERVICE MESSAGE HANDLING I/O

SUMMARY OF NEW/MISSING REQUIREMENTS

- O CAPACITY
 - REQUIRED GROWTH MARGIN

- O RELIABILITY
 - REDUNDANT/FAULT-TOLERANT
 - STANDARD AND PROVEN



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DATA BASE SERVICES

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DATA BASE SERVICES

MODERNIZATION REQUIREMENTS

- 0 FILE GENERATION/UPDATE
 - PRODUCT FILES
 - : ENGLISH TEXT
 - : GRAPHICS
 - : NUMERIC DATA
 - RELATIONS
 - CONDITIONAL UPDATE
 - EDIT TRACE
 - OPERATIONAL SUPPORT FILES
 - : QUERIES
 - : FORMATS
 - : MENUS
 - : FORMS

File type

- 0 FILE SEARCH/RETRIEVAL
 - SELECTIVE
 - PREDEFINED QUERIES
 - SORT

allows batch processing

- 0 FILE DISPLAY
 - SIMULTANEOUS
 - FORMATS
 - HARDCOPY

DATA BASE SERVICES

MODERNIZATION REQUIREMENTS


- 
- 0 CAPACITY *< large*
 - ON-LINE
 - ARCHIVE
 - REQUIRED GROWTH MARGIN

- 0 EASE OF USE
 - HELP
 - MENUS
 - FORMS
 - REFERENCES

- 0 ELECTRONIC MAIL
 - HEADQUARTERS COMMUNICATIONS

- 0 REPORT GENERATION
 - CALCULATIONS

- 0 FILE PURGE
 - IDENTIFICATION
 - APPROVAL



non-cleared access? non-FBIS?
II → *incorporating all prior data boxes.*

DATA BASE SERVICES

REQUIREMENTS LEVEL OF IMPORTANCE

<u>MODERNIZATION REQUIREMENT</u>	<u>LEVEL OF IMPORTANCE</u>
O FILE GENERATION/UPDATE	I
O FILE SEARCH/RETRIEVAL	I
O FILE DISPLAY	I
O CAPACITY	I
O EASE OF USE	I
O ELECTRONIC MAIL	II
O REPORT GENERATION	I
O FILE PURGE	II

DATA BASE SERVICES

SUMMARY OF NEW/MISSING REQUIREMENTS

0 FILE GENERATION/UPDATE
- OPERATIONAL SUPPORT FILES
: MENUS
: FORMS

0 CAPACITY
- REQUIRED GROWTH MARGIN

0 EASE OF USE
- MENUS
- FORMS

0 FILE PURGE
- IDENTIFICATION
- APPROVAL

*requirement?
or software design?*

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WIRE SERVICE
MESSAGE PROCESSING

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WIRE SERVICE MESSAGE PROCESSING

MODERNIZATION REQUIREMENTS

0 EDIT

- TEXT
- FUNCTIONAL CAPABILITIES
- EASE OF USE

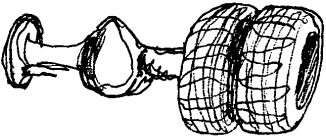
*single key command
user programmable*

0 MESSAGE PRODUCTION

- USER INTERFACE
- HELP
- ERROR PROCESSING
- ADDRESSING
- FORMATTING
- ANNOUNCEMENTS
- CORRELATION

header addition

coding not needed



WIRE SERVICE MESSAGE PROCESSING

REQUIREMENTS LEVEL OF IMPORTANCE

MODERNIZATION REQUIREMENT

LEVEL OF IMPORTANCE

O EDIT

I

O MESSAGE PRODUCTION

I

WIRE SERVICE MESSAGE PROCESSING

SUMMARY OF NEW/MISSING REQUIREMENTS

0 EDIT

- EASE OF USE

0 MESSAGE PRODUCTION

- USER INTERFACE
- ANNOUNCEMENTS
- CORRELATION

forms
automatic (60-min periodic notices) - II
auto composition of multi-take

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DAILY REPORT EDITING

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DAILY REPORT EDITING

MODERNIZATION REQUIREMENTS

O FUNCTIONALITY

- ~~WORD PROCESSING~~
- ~~GRAPHICS~~
- EASE OF USE

*look at it, but its a II
future growth*

O EDIT SUPPORT

- SPELLING CHECKING
- SYNTACTICAL CHECKING
- ON-LINE REFERENCES

*also to
wire*

O QUALITY

- EDIT TRACE

DAILY REPORT EDITING

REQUIREMENTS LEVEL OF IMPORTANCE

<u>MODERNIZATION REQUIREMENT</u>	<u>LEVEL OF IMPORTANCE</u>
O FUNCTIONALITY	I
O EDIT SUPPORT	II
O QUALITY	I

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DAILY REPORT EDITING

SUMMARY OF NEW/MISSING REQUIREMENTS

0 FUNCTIONALITY
- EASE OF USE

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DAILY REPORT COMPOSITION

DAILY REPORT COMPOSITION

MODERNIZATION REQUIREMENTS

- O REPORT CONTENT
 - TEXT
 - GRAPHICS
- O TYPOGRAPHY
 - CODING
 - QUALITY
- O HYPHENATION
 - RULES
 - DICTIONARY (CUSTOMIZE)
- O JUSTIFICATION
- O PAGINATION
 - FUNCTIONAL CAPABILITIES
 - INTERACTIVE
- O PROOF
 - DISPLAY
- O OUTPUT
 - FORMAT

*software must
be accommodated
beginning and
experienced
operator.*

before photo preparation

DAILY REPORT COMPOSITION

REQUIREMENTS LEVEL OF IMPORTANCE

MODERNIZATION REQUIREMENT

LEVEL OF IMPORTANCE

O REPORT CONTENT	I
O TYPOGRAPHY	I
O HYPHENATION	II
O JUSTIFICATION	I
O PAGINATION	I
O PROOF	I
O OUTPUT	I

DAILY REPORT COMPOSITION

SUMMARY OF NEW/MISSING REQUIREMENTS

0 HYPHENATION
- DICTIONARY (CUSTOMIZE)

0 PROOF
- DISPLAY

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ENGINEERING DIVISION
AND
MONITORING OPERATIONS DIVISION

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ENGINEERING DIVISION ACTIVITIES

- O PLANNING FOR FACILITIES/INSTALLATIONS
- O SURVEYS/EVALUATIONS OF MONITORING SITES
- O ENGINEERING AND TECHNICAL SUPPORT
- O COORDINATION OF EQUIPMENT PROCUREMENT
- O TEST/EVALUATION OF EQUIPMENT

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MONITORING OPS DIVISION ACTIVITIES

- O COORDINATE ALLOCATION OF COVERAGE RESPONSIBILITIES
- O PLANNING OF FIELD RECEPTION SURVEYS
- O ANALYSIS OF MONITORING ACTIVITY
- O DIRECTION OF CRUISING
- O RESEARCH/DISSEMINATION OF BROADCAST MEDIA DATA

ENGINEERING & MONITORING OPS DIVISIONS

SUMMARY OF MODERNIZATION REQUIREMENTS/LEVEL OF IMPORTANCE

<u>MODERNIZATION REQUIREMENT</u>	<u>LEVEL OF IMPORTANCE</u>
0 DATA BASE SERVICES	II
- FILE GENERATION/UPDATE	
- FILE SEARCH/RETRIEVAL	
- FILE DISPLAY	
- CAPACITY	
- EASE OF USE	
- ELECTRONIC MAIL	
- REPORT GENERATION	
- FILE PURGE	
0 EDIT	II
- FUNCTIONAL CAPABILITIES	
- EDIT SUPPORT	

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OPERATIONS GROUP REQUIREMENTS ISSUES

O DIRECT ACCESS TO SOFTCOPY VERSION OF DAILY REPORT
BY SELECTED WIRE CONSUMERS IN ADVANCE OF
HARDCOPY PUBLICATION

O COLLECTION AND DISSEMINATION OF VIDEO SOURCE MATERIAL

O WIRE SERVICE DISSEMINATION OF GRAPHICS MATERIAL TO
WIRE CONSUMERS

FBIS CDP REQUIREMENTS REVIEW

3. SYSTEM REQUIREMENTS ANALYSIS

- INTRODUCTION
- SYSTEM WIDE CONSIDERATIONS
- BUREAU
- HQ OPERATIONS GROUP
- HQ ANALYSIS AND PRODUCTION GROUPS

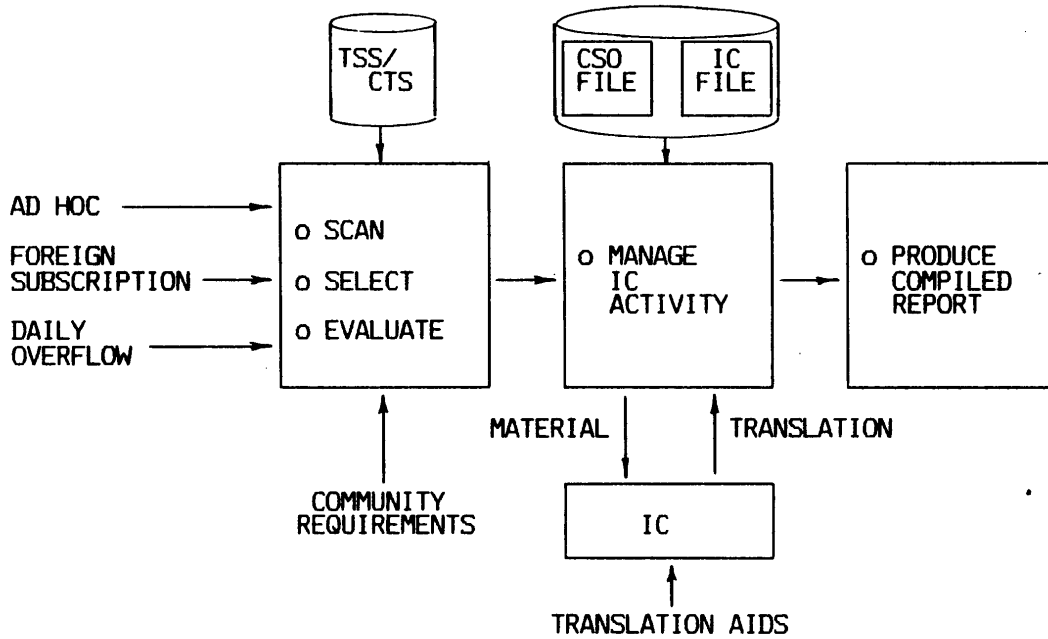
- *who is responsible for MIDAS Upgrade RFP's?*
 - *add CPU to Upgrade, which now incorporates only TPU.*
- *cost/benefits/risks: design to requirements, w. risk a factor and cost expressed.*
Less interest in cost than in risk, at this point.

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PRODUCTION GROUP

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SIMPLIFIED DATA FLOW: PRODUCTION GROUP



*this function
should stay
manual*

SCAN SELECT EVALUATE

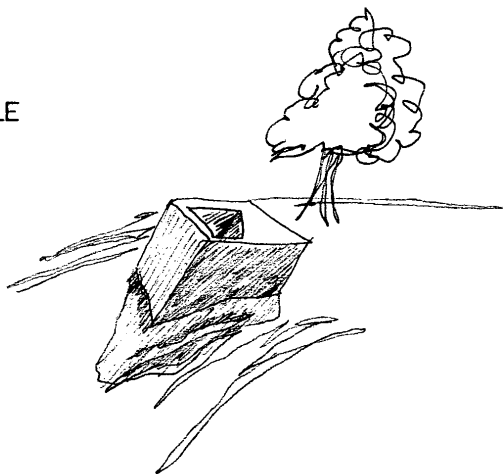
- 0 REVIEW AND ROUTE DAILY REPORT OVERFLOW
- 0 REFERENCE LRB REQUIREMENTS
- 0 ASSIGN AND FORWARD COPY

automated functions

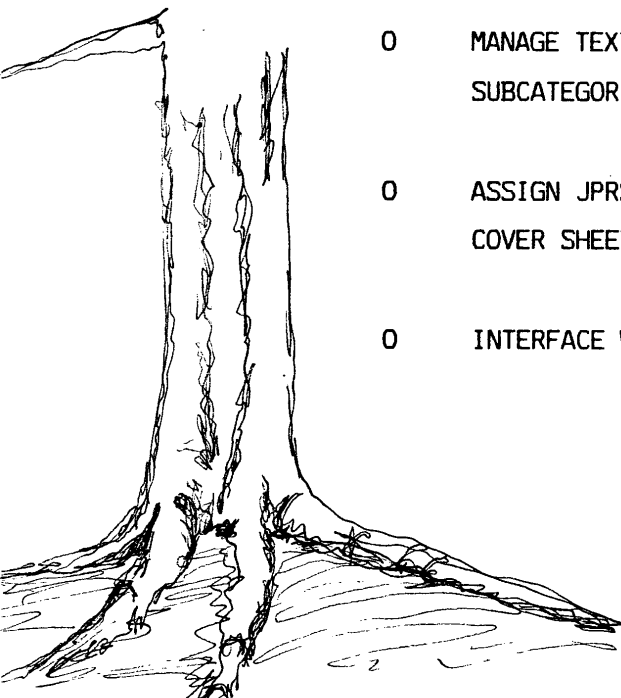
0 *translation support
- glossaries in foreign languages (1200)*

MANAGE INDEPENDENT CONTRACTORS

- 0 ENTER "CSO" FILE
- 0 MAINTAIN JOB STATUS IN CSO FILE
- 0 ENTER "IC" FILE
- 0 RELATE CSO FILE AND IC FILE
- 0 GENERATE APPROPRIATE REPORTS



PROCESS TEXT

- 
- 0 MANAGE TEXT FILE BY GEOGRAPHIC AREA AND OTHER
 SUBCATEGORIES (TBD)
 - 0 ASSIGN JPRS SERIALIZATION NUMBER AND OTHER
 COVER SHEET DATA
 - 0 INTERFACE WITH P&PD

MODERNIZATION OPPORTUNITIES

	LEVEL OF IMPORTANCE
ESTABLISH A "CSO" FILE AND SUPPORT STATUS UPDATE AND QUERY	I
ESTABLISH AND MAINTAIN "IC" FILE	I
ESTABLISH LRB REQUIREMENTS FILE	II
PROVIDE TRANSLATION AIDS	II

have same access to data base, create own files

storage is not the problem (10⁹ is small in Mbytes) - access and retrieval is.

high risk, but could improve translation quality

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NEW REQUIREMENTS

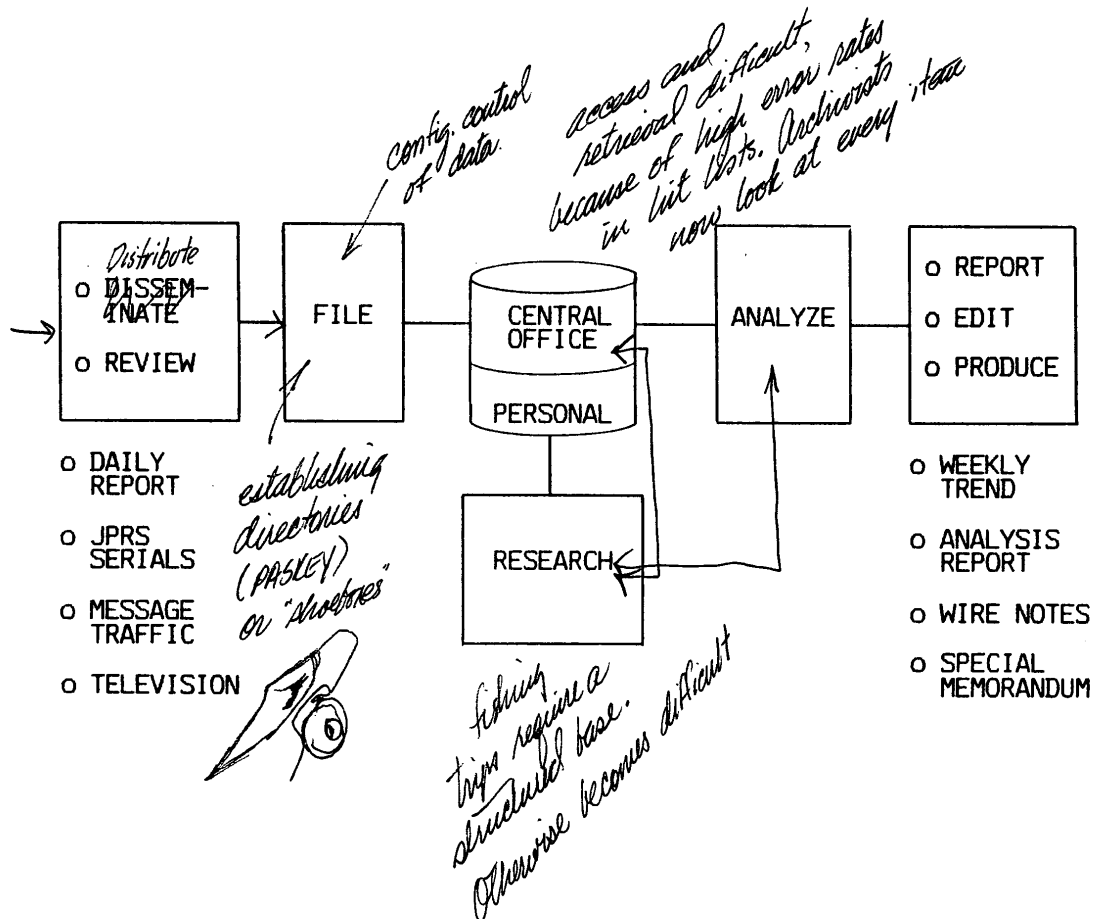
PROVIDE FORMS ENTRY INTO THE DATA BASE

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ANALYSIS GROUP

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SIMPLIFIED DATA FLOW: ANALYSIS GROUP



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DISSEMINATE REVIEW FILE

- 0 FORWARD MESSAGE TRAFFIC
- 0 RECEIVE MESSAGE TRAFFIC
- 0 REVIEW MESSAGE TRAFFIC
- 0 STORE PRODUCT SOURCE DATA
- 0 UPDATE AUTOMATICALLY USER DIRECTORIES AND INDICES

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RESEARCH DATA

- 0 SUPPORT FLEXIBLE DATA RETRIEVAL THROUGH MULTIPLE
SEARCH CAPABILITIES
- 0 CREATE TEMPORARY USER "HIT" FILES

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ANALYZE AND PRODUCE REPORTS

- O GENERATE REPORTS BASED ON USER "HIT" FILES
- O FORWARD REPORT FOR EDIT AND REVIEW
- O SUPPORT LOW VOLUME REPRODUCTION

MODERNIZATION OPPORTUNITIES

	LEVEL OF IMPORTANCE
ESTABLISH CENTRAL DATA BASE FOR PRODUCT SOURCE MATERIAL	I
PROVIDE SELECTIVE SEARCH CAPABILITIES	I
IMPLEMENT RESEARCH TOOLS	II

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NEW REQUIREMENTS

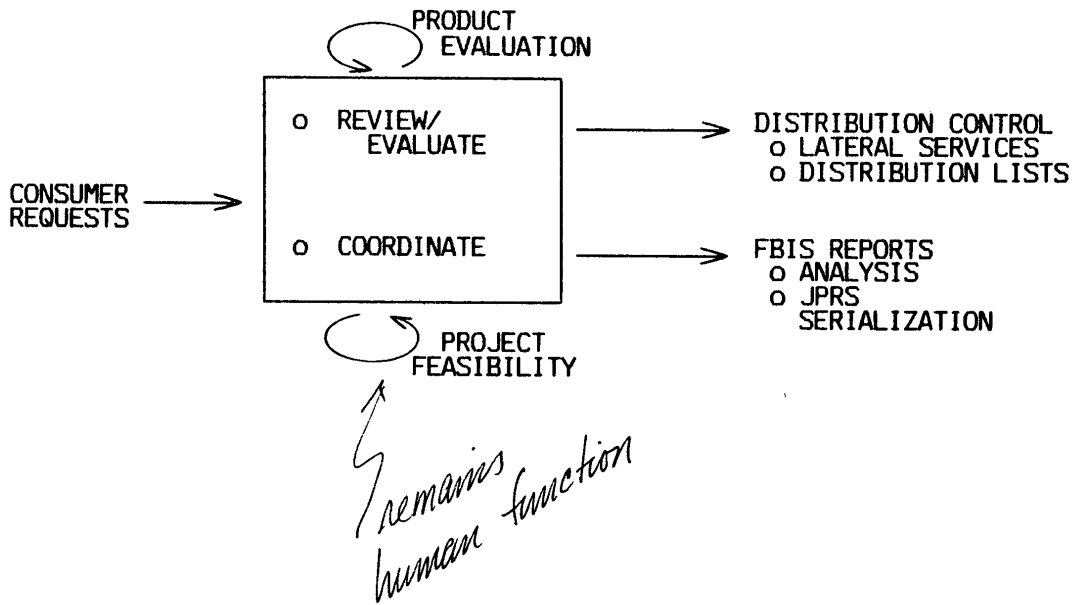
PROVIDE THE CAPABILITY TO *archive* PURGE FILES OR GROUPS OF FILES

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^o
/ **LAISON AND REQUIREMENTS BRANCH**
/

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SIMPLIFIED DATA FLOW: LRB



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REVIEW EVALUATE COORDINATE

- 0 COORDINATE FBIS COMPONENT ACTIVITY
- 0 COMMUNICATE REQUESTOR REQUIREMENTS
- 0 MAINTAIN DISTRIBUTION CONTROL

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MODERNIZATION OPPORTUNITIES

	LEVEL OF IMPORTANCE
ESTABLISH AND MAINTAIN DISTRIBUTION CONTROL LISTS	I
DISTRIBUTE CONSUMER REQUIREMENTS THROUGH SPECIFICATION FILES	II

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NEW REQUIREMENTS

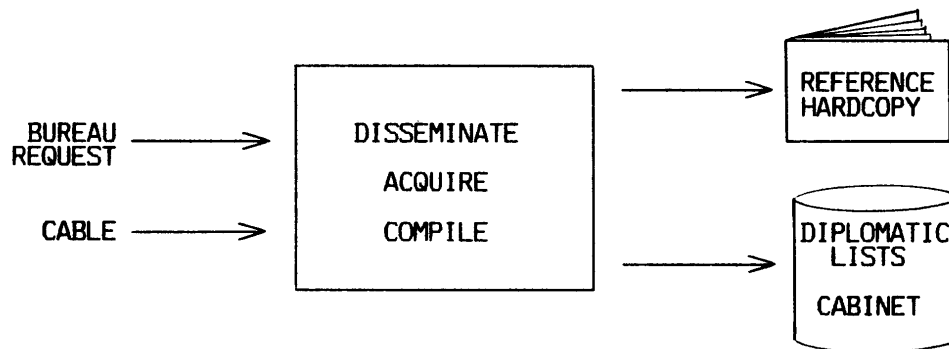
NONE

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REFERENCE SERVICE

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SIMPLIFIED DATA FLOW: REFERENCE SERVICE



DISSEMINATE ACQUIRE COMPILE

- 0 RECEIVE SUPPORT REQUESTS FROM FBIS COMPONENTS

- 0 PROVIDE SUPPORT MATERIAL TO THE FBIS COMPONENTS

- 0 MAINTAIN DIPLOMATIC AND OFFICIALS LIST

- 0 FORWARD LIST UPDATES TO THE BUREAU

MODERNIZATION OPPORTUNITIES

I	LEVEL OF IMPORTANCE
MAINTAIN DIPLOMATIC AND OFFICIALS LISTS	I
FORWARD LISTS TO THE BUREAU	II

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NEW REQUIREMENTS

- 0 PROVIDE FORMS ENTRY INTO THE DATA BASE

- 0 PROVIDE THE CAPABILITY TO PURGE FILES OR GROUPS
OF FILES

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FBIS CDP REQUIREMENTS REVIEW

4. REQUIREMENTS ISSUES SUMMARY

FBIS REQUIREMENTS ISSUES SUMMARY

O REWRITE OF SDS-002

- ONE REQUIREMENT PER NUMBERED PARAGRAPH

- ISOLATE BACKGROUND, COMMENTARY, SPECULATION, ASSUMPTIONS

in appendix?

- WRITE FUNCTIONAL REQUIREMENTS FROM USER'S VIEW

- DEFINE OR REMOVE TBD'S

rather than design

O SPECIFY STUDY BOUNDARIES

O USE RFC'S AND BRIEFINGS AS REWRITE GUIDE

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FBIS CDP REQUIREMENTS REVIEW

5. RFC'S

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FBIS CDP REQUIREMENTS REVIEW

6. PLANS FOR PHASE II

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FBIS CDP PHASE II SCHEDULE

