ADP-

SES-098-88
1 June 1988

MEMORANDUM FOR: Distribution

THROUGH: [redacted] STAT

FROM: [redacted]

SUBJECT: Change Pages to FBIS Documents

REFERENCE: ESG Memo dated 8 April 1988
Subject - Results of 7 April 1988 CCB

1. The Reference memo reported the CCB approval of CO-RFC-C-001-88, CO-RFC-C-002-88, HU-RFC-C-004-88, HU-RFC-C-006-88, and HC-RFC-C-001-88, as modified by the CCB. The SI (SES) was instructed (Reference) to update the AFS System Specification (MPD-900-001C), the FBIS [redacted] ICD (MPD-900-208), and the FBIS/Agency Classified Systems ICD (MPD-900-207A) in accordance with the changes produced by these RFCs and provide change pages to holders of these documents. STAT

2. The attached change pages to the AFS System Specification are the current versions of the pages affected and should be inserted into the document, replacing the corresponding pages. The other attachments are the new FBIS [redacted] ICD, and the new version of the FBIS/Agency Classified Systems ICD. STAT

3. This action completes the formal distribution of the documentation changes resulting from the 7 April 1988 CCB.

4. For more information or additional copies of the attachments, please contact [redacted] STAT

STAT

for [redacted]

Attachments:
Change Pages to the AFS System Specification (MPD-900-001C)
First issue of the FBIS [redacted] ICD (MPD-900-208) STAT
Revision A of the FBIS/Agency Classified Systems ICD (MPD-900-207A)

SES-098-88

SUBJECT: Change Pages to FBIS Documents

DS&T/FBIS/ESG/ADD/SES: [redacted] (1JUN88) STAT

Distribution:
Original - C/ESG
1 - DC/ESG
1 - CCB Secretariat (ESG/PEO)
1 - C/E&PS
1 - C/OPS
1 - C/DRD
1 - C/WSS
1 - C/PROD
1 - C/AG
1 - SAM/AG, [redacted] STAT
1 - SAM/PROD
1 - SA/OPS
1 - C/FED
3 - C/HED
1 - C/ADD
1 - DC/ADD
6 - ADD Staff
1 - [redacted] COTR STAT
1 - FBIS/CO
1 - LEC
1 - GE/SES Staff
1 - GE/SES Chrono
1 - GE/SES CCB Chrono
1 - FBIS Registry
1 - Originator

CHANGE LOG

TITLE: FBIS SYSTEM SPECIFICATION DOCUMENT MPD-900-001C

REV	DATE	PAGES AFFECTED	RFC NO.
C	2/6/87	vii, 6, 22, 34, 35	GE-012-86
	2/6/87	ii, vii, 5, 11, 20, 21, 22, 23, 24, 25, 33, 36, 41	GE-018-86
	2/6/87	i, ii, vi, viii, 6, 7, 37, 38, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53	GE-019-86
	6/29/87	24, 26, 27, 28, 29, 30, 31, 32, 33, 34	GE-020-86R1
	11/23/87	40	CO-RFC-C-001-87
	11/23/87	17	HU-RFC-C-001-87
	11/23/87	21	HC-RFC-C-001-87
	11/23/87	vi, 21, 23	HC-RFC-C-002-87
	11/23/87	i, ii, iii, iv, v, vii, 1, 3, 7, 42, 43, 44, 45, 46, 47, 48, 49, 50, 58	FS-RFC-C-001-87
	3/1/88	iii, vii, 6, 8, 12, 13, 37, 38, 40, 50	CO-RFC-C-002-87
	4/7/88	iii, vii, 2, 6, 7, 37, 38, 39, 41, 42, 45, 50	CO-RFC-C-002-88

TBD/TBR/TBS LIST

Paragraph(s)	Description
3.2.4.1.1.2.2	The Field Communications Function ... receive ... Telex at 50 to 4800 (TBR) Baud.
3.2.4.1.1.2.5	The Field Communications Function ... from the BBC (Interface and Format TBD)
3.2.4.1.1.6	The Field Communications Function ...30 (TBR) seconds of receipt.
3.2.4.1.2.6.3	The Field Communications Function ... send ... Telex at 50 to 4800 (TBR) Baud.
3.2.4.1.2.6.6	The Field Communications Function ... to the BBC (Interface and Format TBD)
3.2.4.1.3.2	The Field Communications Function ...ten (TBR) mailboxes per entries ...
3.2.4.1.4.2	The Field Communications Function ... collecting defined (TBD) statistics...
3.2.4.1.4.3	The Field Communications Function ...outgoing message automatically within 10 (TBR) seconds ...., ...new packages of addresses within 120 (TBR) seconds.
3.2.4.2.6	The Press Agency Collection Function shall be capable of handling the load of 16 (TBR) distinct lines.
3.2.4.3.7	Field Segment ...versions shall be stored for 60 (TBR) days.
3.2.4.5.1	The Field Configuration shall support up to 50 (TBR) concurrent users.
3.3.8	Selected Press Agency "TBS"
5.2	Field Locations - Facility Requirements (TBD)

2.0 APPLICABLE DOCUMENTS

2.1 Compliance Documents

2.1.1 Statement of Work for Automated FBIS System

2.1.2 Automated FBIS System External Interface Control Documents

MPD-900-200 - FBIS/AUTODIN
MPD-900-201 - FBIS/TELEX
MPD-900-202 - FBIS/Dedicated Line
MPD-900-203 - FBIS/Electronic Subscribers
MPD-900-205 - FBIS/P&PD
MPD-900-206 - FBIS/Independent Contractors
MPD-900-207 - FBIS/Agency Classified Systems
MPD-900-208 - FBIS [redacted] STAT
MPD-900-209 - FBIS/Direct Dial Up Service

2.2 Other Documents

2.2.1 FBIS Automation Requirements

MPD-000-002

2.2.2 FBIS Baseline Description

MPD-000-001

2.2.3 Automated FBIS System Concept of Operations

MPD-900-100

2.2.4 FBIS Editorial Handbook dated January 1986

2.2.5 Facilities Baseline Document

MPD-100-701

2.2.6 Facilities Requirements Document

MPD-100-702

2.2.7 Human Engineering Design Criteria for Military Systems, Equipment and Facilities

MIL-STD-1472C

3.1.2.4 Composition Function

The Headquarters Classified Segment shall have the capability to perform automated composition of text and graphics for "local" hardcopy printing and reproduction by P&PD.

3.1.3 Communications Segment Functional Description

The Communications Segment shall handle all communications and message traffic as it enters or leaves the Automated FBIS System. The Communications Segment shall be divided into the following major functions: Headquarters Unclassified Communications Function, and Headquarters Classified Communications Function.

3.1.3.1 Headquarters Unclassified Communications Function

The Headquarters Unclassified Communications Function shall process unclassified communications and message traffic for FBIS Headquarters. Headquarters Unclassified Communications shall:

a) provide automated support to receive, verify, log, store, and route incoming message traffic from [redacted] AUTODIN, Telex, Direct Dial Up Service and Dedicated Line, STAT

b) provide automated support to retrieve, format, log, store, transmit, and verify outgoing message traffic via [redacted] AUTODIN, Telex, Direct Dial Up Service and Dedicated Line, STAT

c) accept Wire Service output from the Headquarters Unclassified Segment and transmit this data to 32 Wire Service consumers, with a capability to expand to 128 consumers,

d) accept simultaneous electronic inputs of word processing documents via modem and commercial dial up telephone circuits.

3.1.3.2 Headquarters Classified Communications Function

The Headquarters Classified Communications Function shall process classified communications and message traffic for FBIS Headquarters. This function shall provide automated support to receive, verify, log, store, and route incoming message traffic.

3.1.4 Field Segment Functional Description

The Field Segment shall provide automated support to handle all unclassified message traffic, the collection of selected Press Agencies, the selection, translation, editing, and review of all items selected for processing, the preparation of messages for transmittal to headquarters and to lateral consumers, and bureau database and file maintenance support.

3.1.4.1 Field Communications Function

The Field Communications Function shall handle all unclassified communications and automated message traffic to and from the field locations. These functions shall:

a) provide automated support to receive, verify, log, store, and route incoming message traffic from [redacted] INTERNET, Direct Dial Up Service, Telex or Dedicated Lines, and STAT

b) provide automated support to retrieve, format, log, store, transmit, and verify outgoing message traffic via [redacted] INTERNET, Direct Dial Up Service, Telex and Dedicated Lines. STAT

3.1.4.2 Press Agency Collection Function

The Field Segment shall automatically collect, print, and store selected Press Agency material.

3.1.4.3 Monitor and Editor Processing Function

The Field Segment shall enable monitors to create and store documents (e.g., summaries, FYI's, or translations of selected items), and release them to editors for further processing. The editors shall have the capability to create, access, and edit files, send files back to monitors, and prepare messages for transmission.

3.1.4.4 General Support Function

The Field Segment shall provide a generalized capability to maintain files, and to support preparation of correspondence and reports.

3.1.4.5 Field Configuration

The Field Segment shall provide workstations, file servers, and printers that are capable of Local Area Network and Stand-alone "local" operations.

3.2.3 Communications Segment

The Communications Segment shall consist of the Headquarters Unclassified Communications Function, and the Headquarters Classified Communications Function. The functions and interfaces supported by the Communications Segment are depicted in Figure 3.2.3-1.

3.2.3.1 Headquarters Unclassified Communications Function

The Headquarters Unclassified Communications Function shall be that portion of the Communications Segment that shall handle unclassified communications. The following paragraphs describe the requirements for the Headquarters Unclassified Communications Function.

3.2.3.1.1 Field Traffic

The Headquarters Unclassified Communications Function shall support two-way communications with bureaus via [redacted] AUTODIN, Telex, and Dedicated Line (London only) in accordance with the respective Interface Control Documents for these interfaces. STAT

Telex shall be used as a backup to [redacted] and AUTODIN. There shall be a Dedicated Line between FBIS Headquarters and the London Bureau to provide backup to AUTODIN for this bureau. STAT

The Headquarters Unclassified Communications Function shall support two dedicated interfaces to AUTODIN switching centers at Andrews AFB and Ft. Detrick via standard Telecommunications Line Controllers and modems within Headquarters Unclassified Communications (see FBIS/AUTODIN Interface Control Document, MPD-900-200).

The Headquarters Unclassified Communications Function shall support a dedicated interface to the [redacted] switching center at [redacted] via existing connectivity installed between [redacted] Headquarters, and Reston, Va. Refer to the FBIS [redacted] Interface Control Document, MPD-900-208. STAT STAT STAT

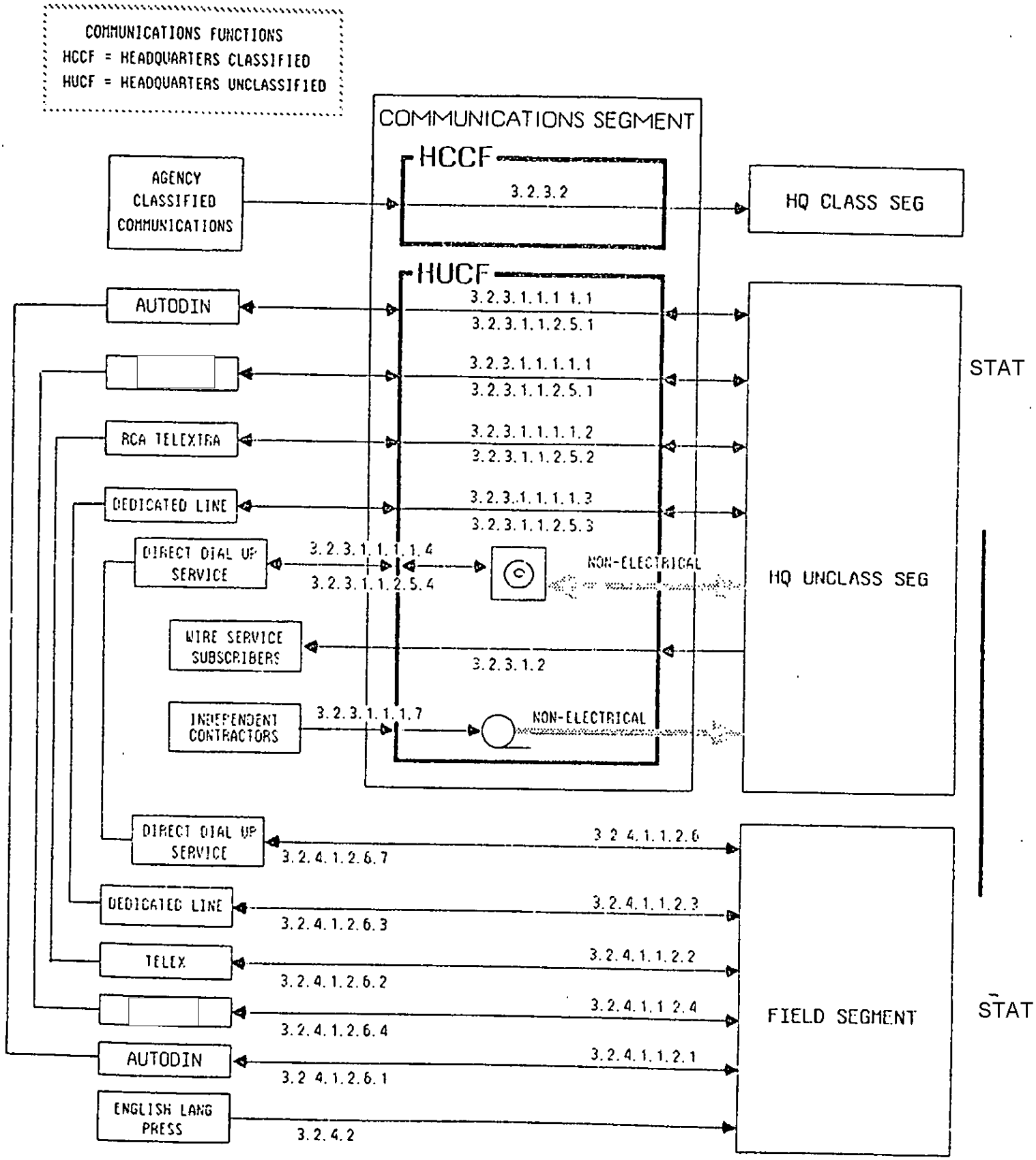
The Headquarters Unclassified Communications Function shall support a dedicated interface from the Field Segment (including S&T Units) via Direct Dial Up Service, modem, PC workstation, and a separate PC workstation connected to the Communications Segment computer.

3.2.3.1.1.1 Incoming Communications

3.2.3.1.1.1.1 Receiving

3.2.3.1.1.1.1.1 AUTODIN

The Headquarters Unclassified Communications Function shall be capable of automatically receiving an average of 2100 messages (840,000 words) per 24 hour day, 7 days a week from [redacted] - AUTODIN. The peak input rate per hour shall be 300 messages with an average of 133 words per message. STAT



FBIS COMMUNICATIONS SEGMENT INTERFACES
(LOGICAL FLOW)
FIGURE 3.2.3-1

3.2.3.1.1.1.1.2 Telex

The Headquarters Unclassified Communications Function shall be capable of receiving Telex messages at 1200 baud from the RCA Global store and forward system TELEXTRA/DATABANK. Incoming messages shall be stored in the RCA Global DataBank until AFS software dials the access number for RCA and provides the proper password.

3.2.3.1.1.1.1.3 Dedicated Line

The Headquarters Unclassified Communications Function shall be capable of automatically receiving messages from the London Bureau over the Dedicated Line in accordance with MPD-900-202.

3.2.3.1.1.1.1.4 Direct Dial Up Service

The Headquarters Unclassified Communications Function shall be capable of receiving messages from the Field Segment and S&T Units via the Direct Dial Up Service in accordance with MPD-900-209.

3.2.3.1.1.1.2 Verifying

The Headquarters Unclassified Communications Function shall be capable of automatically verifying that all messages received via AUTODIN, the selected Commercial Communications Network and the Dedicated Line are free of transmission errors; this shall be accomplished in accordance with AUTODIN Mode I or Mode V (with commercial communications and Dedicated Line only) protocol procedures. Detected errors shall be routed to a communication operator's workstation for resolution.

3.2.3.1.1.1.3 Capitalization

The Headquarters Unclassified Communications Function shall inspect that part of the input data stream received in 5 level Baudot and capitalize characters according to the rules stated in the FBIS Editorial Handbook, Section 14.21, page 124.

3.2.3.1.1.1.4 Logging

The Headquarters Unclassified Communications Function shall automatically log (softcopy) each incoming message and retain this log for a period of 30 days.

3.2.3.1.1.1.5 Storing

The Headquarters Unclassified Communications Function shall have the capability to automatically store each incoming message on-line for a period of 30 days.

3.2.3.1.1.1.6 Daily Report and Wire Service Function Interface

The Headquarters Unclassified Communications Function shall forward each received message to the Daily Report and Wire Service Function.

3.2.3.1.1.2.5.2 Telex

The Headquarters Unclassified Communications Function shall be capable of transmitting outgoing message traffic through the RCA Global store and forward system TELEXTRA/DATABANK at 1200 baud.

3.2.3.1.1.2.5.3 Dedicated Line

The Headquarters Unclassified Communications Function shall be capable of transmitting outgoing message traffic via the Dedicated Line in accordance with MPD-900-202.

3.2.3.1.1.2.5.4 Direct Dial Up Service

The Headquarters Unclassified Communications Function shall be capable of transmitting outgoing message traffic via the Direct Dial Up Service in accordance with MPD-900-209.

3.2.3.1.1.2.6 Verifying

The Headquarters Unclassified Communications Function shall verify that each outgoing message shall have been sent without format or transmission errors. This shall be accomplished in accordance with AUTODIN Mode I/V protocols.

3.2.3.1.2 WSS Output

The Headquarters Unclassified Communications Function shall accept Wire Service output from the Daily Report and Wire Service Function and transmit this data to the Wire Service subscribers. The capability shall exist to route the data to any number or all subscribers based on a routing indicator added to the text. The capability shall exist to handle the 32 subscribers. The design of this function shall not preclude expansion to support up to 128 subscribers. The Headquarters Unclassified Communications Function shall provide backup circuits in the event of failure of the prime circuits. The Headquarters Unclassified Communications Function shall provide a data transmission rate of 1200 baud.

3.2.3.2 Headquarters Classified Communications Function

The Headquarters Classified Communications Function shall be that portion of the Communications Segment that shall handle classified message traffic. The Headquarters Classified Communications Function shall support a classified two-way link via the Agency Classified Communications System to Agency Headquarters in accordance with MPD-900-207.

3.2.4 Field Segment

The functional elements of the Field Segment are depicted in Figure 3.2.4-1.

3.2.4.1 Field Communications Function

3.2.4.1.1 Incoming Messages

3.2.4.1.1.1 (Excluding London) This capability shall handle the message traffic load of 500 messages per operational day.

3.2.4.1.1.2 Receiving

3.2.4.1.1.2.1 The Field Communications Function shall be capable of receiving all incoming messages in JANAP 128 or ACP 127 formats. Optional communications flow control shall be provided.

3.2.4.1.1.2.2 The Field Communications Function shall be capable of receiving all incoming Telex Messages at 50 to 4800 (TBR) baud.

3.2.4.1.1.2.3 The Field Communications Function shall be capable of receiving all incoming messages and communications via each communication line in accordance with its defined interface.

3.2.4.1.1.2.4 The Field Communications Function shall be capable of receiving all incoming messages and communications via the [redacted] network using the Communication Instructions Tape Relay Procedures, ACP 127 format, including US SUPP-1 and via the INTERNET network. STAT

3.2.4.1.1.2.5 (London Only) The Field Communications Function shall be capable of receiving incoming messages and communications from the BBC (Interface and format TBD).

3.2.4.1.1.2.6 The Field Communications Function shall be capable of receiving all incoming messages and communications via Direct Dial Up Service system and local GFE modems.

3.2.4.1.1.3 The Field Communications Function shall automatically print and log each incoming message.

3.2.4.1.1.4 The Field Communications Function shall automatically store each incoming message for a period of 7 days on-line.

3.2.4.1.1.5 The Field Communications Function shall make available each incoming message to the Incoming Message Support function.

3.2.4.1.1.6 The Field Communications Function shall provide the capability to automatically alert the communication operator and Slot Editor of the receipt of Immediate and Flash precedence messages with both a visual and an audible alert within 30 (TBR) seconds of receipt. Flash notification shall require manual action to deactivate.

3.2.4.1.2.6.7 The Field Communications Function shall be capable of transmitting all outgoing messages and communications via Direct Dial Up Service system and local GFE modems.

3.2.4.1.3 Incoming Message Support

3.2.4.1.3.1 The Field Communications Function shall provide the capability to receive, process, store and disseminate to the appropriate addressees within the bureau all message traffic received under continuous and non-continuous operations including those associated with scheduled and unscheduled circuit signoffs.

3.2.4.1.3.2 The Field Communications Function shall have the capability to disseminate incoming message traffic to four precedence mailboxes and ten (TBR) mailboxes per entries on the PASS field, or as defined by the user. A designated position shall have the capability to further disseminate message traffic manually to 50 (TBR) definable "clipboards".

3.2.4.1.3.3 The Field Communications Function shall provide the local capability to respond to the creation of new mailboxes/clipboards and the deletion of mailboxes/clipboards.

3.2.4.1.3.4 The Field Communications Function shall be capable of collecting defined statistics from the incoming message traffic.

3.2.4.1.3.5 The Field Communications Function shall be capable of detecting the check numbers on Administrative messages and comparing them with the corresponding table. Non-sequential entries shall be reported to the operator for resolution.

3.2.4.1.4 Outgoing Message Support

3.2.4.1.4.1 The Field Communications Function shall provide the capability to process outgoing messages and forward them for transmission whenever the bureau is open, up to 24 hours a day, 7 days a week.

3.2.4.1.4.2 The Field Communications Function shall be capable of collecting defined statistics (TBD) from the outgoing message traffic.

3.2.4.1.4.3 The Field Communications Function shall provide the capability to append the appropriate precedence and provide routing instructions to a document within 10 (TBR) seconds for all compiled packages of addressees. The system shall also have the capability to generate routing instructions for new packages of addressees within 120 (TBR) seconds.

3.3 System Interface Definition

The following interfaces shall be supported by the Automated FBIS System.

3.3.1 AUTODIN

This interface shall be as specified in the FBIS/AUTODIN Interface Control Document, MPD-900-200.

3.3.2 Telex

This interface shall be as specified in the FBIS/Telex Interface Control Document, MPD-900-201.

3.3.3 Dedicated Line

This interface shall be as specified in the FBIS/Dedicated Line Interface Control Document, MPD-900-202.

3.3.4 Wire Service Subscribers

This interface shall be as specified in the FBIS/Electronic Subscribers Interface Control Document, MPD-900-203.

3.3.5 Independent Contractors

This interface shall be as specified in the FBIS/Independent Contractors Interface Control Document, MPD-900-206.

3.3.6 P&PD

This interface shall be as specified in the FBIS/P&PD Interface Control Document, MPD-900-205.

3.3.7 Agency Classified Communications System

This interface shall be as specified in the FBIS/Agency Classified Systems Interface Control Document, MPD-900-207.

3.3.8 Selected Press Agency

(TBS)

3.3.9 [redacted] STAT

3.3.10 Direct Dial Up Service

This interface shall be as specified in the FBIS/Direct Dial Up Service Interface Control Document, MPD-900-209.

AFS/AGENCY CLASSIFIED SYSTEMS

INTERFACE CONTROL DOCUMENT

MPD-900-207A

7 April 1988

CHANGE LOG

TITLE: FBIS/AGENCY CLASSIFIED SYSTEMS INTERFACE CONTROL DOCUMENT MPD-900-207A

REV	DATE	PAGES AFFECTED	RFC NO.
A	4/7/88	ALL	HC-RFC-C-001-88

TABLE OF CONTENTS

TABLE OF CONTENTS (Continued)

LIST OF FIGURES

1.0 INTRODUCTION

This Interface Control Document (ICD) defines the interface between the Automated FBIS System (AFS) and Agency Classified Systems residing at Agency Headquarters. These shall include the Agency's Message Handling Facility (MHF), SAFE and VM/AIM systems.

The interface shall provide a two-way electronic link to support the:

Transmission of cables from MHF to the AFS via an Agency IBM MVS system, and
Transmission of FBIS Products from the AFS to SAFE via an Agency IBM MVS system, and
Two-way transfer of (electronic mail) messages between users of the AFS system and users of the VM/AIM electronic mail system via an Agency IBM MVS system.

This ICD shall address only the interface between the AFS and an Agency IBM MVS system via a GFE communication link that includes encryption devices and modems. The interface between the Agency IBM MVS system and the MHF, SAFE and VM/AIM systems shall be the responsibility of the Sponsor.

The hardware and software prerequisites for the AFS and Agency IBM MVS systems, that are required to support the interface, are included in Appendices G and H, respectively.

1.1 Functional Interface Description

1.1.1 Cables from MHF to AFS

MHF shall transmit cables, via an Agency IBM MVS system, to the AFS for dissemination to AFS users based on user-defined interest profiles resident on the AFS VAX 8700 computer system. Dissemination of cables to the AFS by MHF shall be based on previously submitted FBIS-level reading requirements.

1.1.2 FBIS Products from AFS to SAFE

AFS shall transmit certain FBIS products to SAFE via an Agency IBM MVS system. These products, shall include text-only portions of the JPRS Reports and TRENDS Reports.

1.1.3 Electronic Mail Between AFS and VM/AIM Users

AFS users shall have the capability to send mail to and receive mail from VM/AIM users electronically via an Agency IBM MVS system.

2.0 APPLICABLE DOCUMENTS

2.1 Compliance Documents

2.1.1 Automated FBIS System Specification, MPD-900-001

2.2 Reference Documents

2.2.1 MHF External ICD, November 18, 1985
2.2.2 MHF Draft Specification May 25, 1984
2.2.1 MHF Cable Description Document, November, 1985

3.0 INTERFACE REQUIREMENTS

3.1 Physical Layer Description

The physical interface between the AFS and the Agency IBM MVS system shall be provided by a DMB32 interface board. The DMB32 is a host-based, intelligent communications controller that supports eight asynchronous lines, one synchronous line and one printer port. This interface shall utilize the synchronous line. The DMB32 shall provide the remote interconnection between the AFS Classified System VAX 8700 and the Agency IBM MVS system via an encrypted circuit. Modems, encryption devices and an IBM 370X (at the IBM MVS end) shall be furnished as GFE. The (GFE) modem (at the AFS end) shall provide the DMB32 with both the send and receive clocks. The data transmission speed shall be at least 9600 bits per second over a full-duplex line. The electrical interface shall be in accordance with EIA RS-232C. The physical interface is shown in Figure 3.1-1.

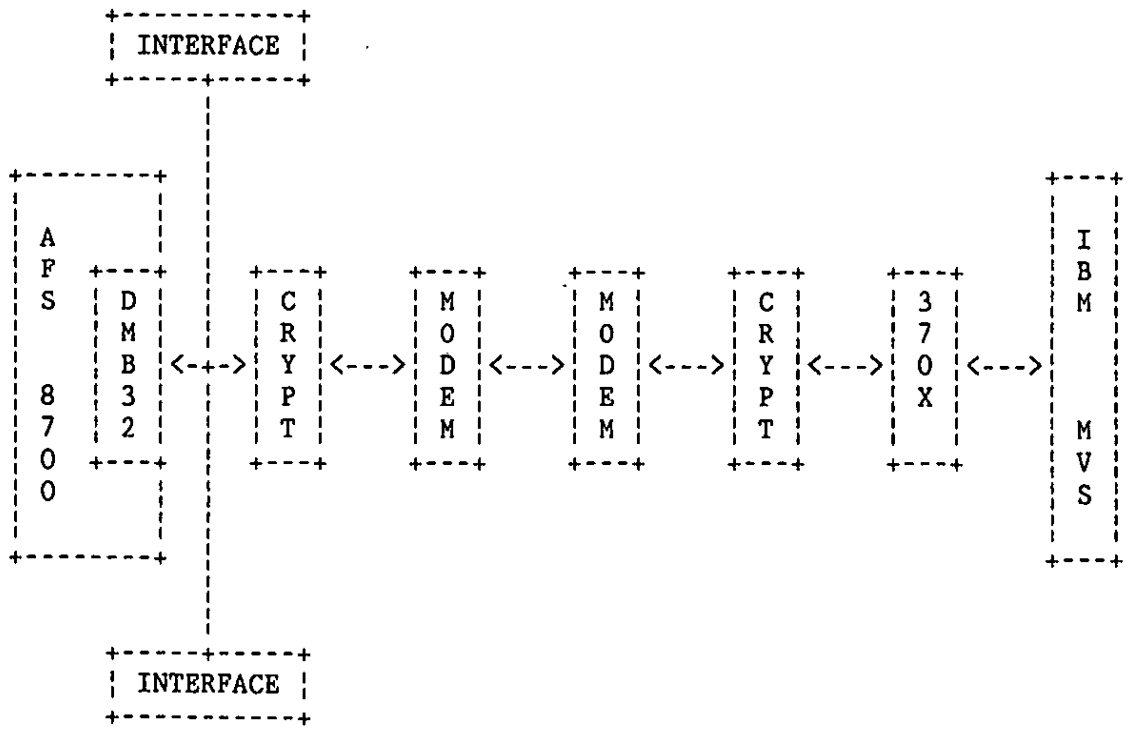


Figure 3.1-1 AFS to Agency Classified Systems Interface

3.2 Data Link Layer Description

The AFS to Agency IBM MVS system interface shall be implemented using the Soft-Switch MAILbridge Server/DEC package. The interface shall support the Synchronous Data Link Control (SDLC) protocol at the link level.

3.3 Message Layer Description

3.3.1 Cables from MHF to AFS

3.3.1.1 Cable File Transmission

For each cable to be transmitted to the AFS, MHF shall create an ASCII file (with no embedded non-printing characters) formed by the concatenation of the CDS dissemination envelope and the cable text. The file shall then be transferred from MHF to the AFS via MPS (which shall be resident on the Agency IBM MVS system). MPS shall create a new file which is formed by appending a one-up number (described in section 3.3.1.2) to the file received from MHF. The resultant file shall then be transferred from the Agency IBM MVS system to the AFS, where it shall be received as a VMSmail message. Each line in this file shall be terminated with <CR><LF>. The TO: line of the mail message shall include nodename::username where:

nodename = AFSCABLE
username = MHFCABLE

3.3.1.2 Cable File Format

Cables, to be disseminated by MHF to the AFS, shall be included in a file having the following four sections:

Section	Provided By
MPS header	MPS
CDS dissemination envelope header	MHF (CDS)
Cable text	MHF (CDS)
CDS dissemination envelope ender	MHF (CDS)

The MPS header shall be in the following format:

MSGNO nnnnn/mmmmm

nnnnn is a five-digit one-up number which shall be incremented by one for each cable transmitted to the AFS. The numbering sequence shall run from 00001 to 99999 and then wrap to 00001. Provision shall be made by MPS to set the one-up number nnnnn to a specific five-digit number agreed to by AFS and MPS operational personnel (e.g. to reset to 00001 at the first of the month). Upon request by AFS operational personnel, cables shall be retransmitted by MPS with the original one-up number. In this case, the original one-up number shall be included as the sequence mmmmm as shown above. The format of the cable file is shown in Appendix A. A number (referred to as the AFS_NUMBER) shall be built from the cable file as follows:

If the prosign SERIAL: appears in the cable text, the associated alpha-numeric sequence (up to 12 characters) shall be used. Otherwise, the message identifier and message reference number, which are included in the CDS dissemination envelope header, shall be used.

The AFS_NUMBER shall be used for logging purposes and also to populate the AFS_NUMBER field of the Message Database.

3.3.1.3 Cable Types

The AFS shall be capable of receiving and processing the following five cable types in the format specified below:

Cable Type	Cable Format	Category	
[redacted]	Originating ACP	M (Military)	
State	ACP	S (State)	STAT
Military/Cable	ACP	M (Military)	
Military/IR (DAO)	ACP	M (Military)	
[redacted]	DOI-103 Special	N (Non-Agency)	STAT

Format line usage and formats of the above cable types are described in Backus Naur Format (BNF) in Appendix B. Examples of each cable type are shown in Appendix C. Except for military cables, MHF shall assemble multi-take (or multi-section) cables into a single-take (or single-section) message prior to transmission to the AFS.

3.3.2 FBIS Products from AFS to SAFE

3.3.2.1 Product File Transmission

A transmit file, which includes the AFS one-up number and the JANAP 128 message (which includes the text file), shall then be transferred from the AFS to an Agency IBM MVS system as a VMSmail message. Each line in this file shall be terminated with <CR><LF>. The TO: line of the VMSmail message shall include nodename::username where:

nodename = SAFE
username = SAFE

The maximum size of the text file transmitted shall be 5,000,000 bytes. Based on nodename::username, the Agency IBM MVS system will route the file to the SAFE System for further handling.

3.3.2.2 Product File Format

FBIS products shall be transmitted from the AFS to SAFE as the text of a JANAP 128 message. Each message shall be included in a transmit file the format of which is shown in Appendix D. The required message fields are also indicated in Appendix D. All messages shall be transmitted with a precedence of routine. FBIS products shall be transmitted as a complete report or as a series of individual articles. JPRS reports shall be transmitted on an article by article basis. All other reports shall be transmitted in the same format that it is stored in the AFS product database, i.e. either as individual articles or as an entire report. For each article (or report) to be transmitted to SAFE, the AFS shall create an ASCII file (with no embedded non-printing characters) which shall be in BRS/Search database load format.

Specifically, the file shall include the data fields described in Appendix E. Those fields that are mandatory are also indicated in Appendix E. All other fields may or may not have an entry depending on the content of the report or article itself. An example of an article in BRS/Search database load format is shown in Appendix F.

The AFS shall append a header to each transmitted message. The AFS header shall be in the following format:

MSGNO nnnnn/mmmmm

nnnnn is a five-digit one-up number which shall be incremented by one for each message transmitted by the AFS. The numbering sequence shall run from 00001 to 99999 and then wrap to 00001. Provision shall be made by the AFS to set the one-up number nnnnn to a specific five-digit number agreed to by AFS and MPS operational personnel (e.g. to reset to 00001 at the first of the month). Upon request by MPS operational personnel, messages shall be retransmitted by the AFS with the original one-up number. In this case, the original one-up number shall be included as the sequence mmmmm as shown above.

3.3.3 Electronic Mail Between AFS and VM/AIM Users

Electronic mail shall be implemented using VMSmail on the AFS and AIM on the Agency VM system. The AFS user shall be provided with the full functionality of VMSmail. AFS users shall be able to send mail to and receive mail from VM/AIM users using appropriate facilities of VMSmail. The VM/AIM user will be able to send mail to and receive mail from AFS users using appropriate facilities of AIM. When mail is received by the AFS, the AFS user shall receive the VMSmail alert:

New mail on node AFSn from vm/aimusername (hh:mm:ss)

The received mail may then be handled by the appropriate VMSmail facility, e.g. READ, EXTRACT, etc. The TO: line of the VMSmail message shall include nodename::username where:

Mail from AFS to VM/AIM -

nodename = AIM
username = AIMusername (8 characters maximum)

Mail from VM/AIM to AFS -

nodename = AFS
username = AFSusername (8 characters maximum)

Note: The 8 character (maximum) AFS username specified by the VM/AIM user shall be mapped to the 8 character (maximum) AFS username on the AFS system via the Soft-Switch MAILbridge server.

3.4 Data Volume

3.4.1 Cables from MHF to AFS

The maximum volume supported by this interface shall be 2400 cables per day each consisting of an average of 5,000 characters.

3.4.2 FBIS Products from AFS to SAFE

The interface shall support an average of 20 FBIS reports per day consisting, in total, of a maximum of 12 Megabytes.

3.4.3 Electronic Mail Between AFS and VM/AIM Users

The maximum volume supported by this interface shall be 800 messages per day each consisting of an average of 2,000 characters.

3.5 Redundancy

Redundant DMB32 communications controllers (one in each of three VAX 8700s) shall be provided to support switchover in the case of failure of the primary communications VAX 8700. In the event of failure of the primary VAX 8700, switchover shall be accomplished as follows:

[1] The encryption device shall be reconnected manually to the secondary VAX 8700 via an external patch panel (contractor-supplied),

[2] The communications software shall then be restarted in the secondary VAX 8700.

4.0 INTERFACE VERIFICATION REQUIREMENTS

4.1 Description

All requirements defined in Section 3.0 shall be verified. Verification shall be accomplished by either Inspection, Analysis, Test, or Demonstration as defined in 4.2.1 through 4.2.4 below. The Verification Traceability Matrix (VTM) is shown in figure 4.1-1. Regardless of which category of verification is exercised, appropriate documentation shall be generated to record the process or event and any conclusive results.

4.2 Verification Categories

4.2.1 Inspection

Verification of a requirement through inspection shall be accomplished by examination of a configuration or a functional result, i.e., a physical or visual review.

4.2.2 Analysis

Verification of a requirement by analysis shall be accomplished by:

a) conducting comparative evaluations, and/or
b) executing numerical or statistical algorithmic calculations.

4.2.3 Test

Verification of a requirement through testing shall be accomplished by performing trial procedures internal to the development system, and achieving results which meet or exceed the specification in question. Tests conducted on specific segments of the design below the "system" level, shall be assessed against values derived from the system specifications or ICD's. Simulation software or special hardware may be required to emulate/simulate external interfaces or data from an internal function. Analysis of test results where necessary to verify compliance is implied.

4.2.4 Demonstration

Verification of requirements by demonstration shall be accomplished through the execution of formally documented test procedures which exercise all or part of the system including operational external interfaces. The verification shall be deemed satisfactory when the resultant data meets or exceeds the specifications documented (as pass/fail indicators) in the test procedures.

VERIFICATION MATRIX (TBD)

	FUNCTIONAL REQUIREMENTS	N/A	I	A	T	D
3.0	Interface Requirements					
3.1	Physical Layer Description					
3.2	Data Link Layer Description					
3.3.1	Cables from MHF to AFS					
3.4.1	Data Volume					
3.3.2	FBIS Products from AFS to SAFE					
3.4.2	Data Volumes					
3.3.3	Electronic Mail between AFS and VM/AIM Users					
3.4.3	Data Volume					

FIGURE 4.1-1

APPENDIX A

CABLE FILE FORMAT

CABLE FILE FORMAT

{start MPS header}
MSGNO nnnnn/mmmmm
{end MPS header}
{start CDS dissemination envelope header}
{CDS line 1}
{CDS line 2}
{CDS line 3}
{CDS line 4}
{CDS line 5}
{CDS line 6}
{CDS line 7}
{CDS line 8}
{CDS line 9}
{CDS line 10}
{end CDS dissemination envelope header}

{cable text}

{start CDS dissemination envelope ender}
{CDS last line}
{end CDS dissemination envelope ender}

CDS LINE FORMAT

Line	Columns	Description
1	1 - 2	2 character ID number or blank
	3	"/" slash character
	4 - 5	2 character ID number or blank
	6	"/" slash character
	7 - 8	2 character ID number or blank
	9	Blank
	10 - 29	Character string (Field "A") or blanks
	30 - 33	Blanks
	34 - 46	Classification (Field "B") or blanks
	47 - 56	Blanks
	57 - 60	"FRP"
	61	Blank
	62	"1" or blank
	63	"," comma
	64	"2" or blank
	65	"," comma
	66	"3" or blank
	67	"," comma
	68	"4" or blank
	69	"," comma
	70	"5" or blank
	71	"," comma
	72	"6" or blank
	73	"," comma
	74	"7" or blank
	75	"," comma
	76	"8" or blank
	77 - 80	Blanks
2	1 - 80	Blanks
3	1 - 56	String of alphanumerics or blank characters
	57 - 80	Message Handling Indicator (MHI) - Field "C"
		Note: AFS will receive only STATE MILITARY NON-AGENCY
4	1 - 80	Blanks

CDS LINE FORMAT

Line	Columns	Description
5	1 - 7	"ACTION:" (Field "D")
	8	Blank
	9	ACTION Office Unit Symbol (OUS) and AOCN The action OUS and AOCN in column 9 and continues for a maximum of 19 characters NOTE: for originating traffic this field is used for CONFIRMATION OUS
	23	"INFO:" begins in column 23 or one blank character after the end of the action OUS field if the action OUS field extends beyond column 21
	29	OUS's (see definition) followed by (nnn/p or w) e.g., (122/w). The OUS's can continue as necessary up to 600 OUS's. The continuation lines for OUS's always begin with a blank in column 1.
5 - 1 thru 5 - 59	1	Blank
	2 - 80	OUS's (If dissemination ends on this line, Field "G" will also appear).
6	1 - 80	"-" Dash character
7	1 - 80	Blanks
8	1 - 2	Calendar year, e.g., "80" or "TS" if message classification is Top Secret.
	3	Blank
	4 - 10	7 character CDS number
	11	Alpha suffix or blank
	12 - 14	Blanks
	15 - 17	Category class precedence trigraph 1st character - Message category (AYIJSMN) Note: AFS will receive only S = State M = Military N = Non-Agency 2nd character - Classification (TSCEU) 3rd character - Precedence (YZOPR)
	18 - 35	Blanks
	36 - 39	"PAGE"
	40	Blank
	41 - 43	Page number composed of 3 numeric characters 001-999
	44 - 56	Blanks

CDS LINE FORMAT

Line	Columns	Description
8	57 - 59	CDS number prefix "IN", "NC", or blank
	60	Blank
	61 - 67	7 character CDS number (same as columns 4-10) or blank
	68	Alpha suffix or blank
	69 - 80	Blank
9	1 - 30	Blanks or character string
	31 - 34	"TOR:"
	35	Blank
	36 - 41	Date Time Group
	42	"Z"
	43	Blank
	44 - 46	3 character month abbreviation
	47	Blank
	48 - 49	2 character calendar year
	50 - 56	Blanks
	57 - 60	4 character cable address designator (ACAD) [for State the ACAD is 6 characters] [for DOI and ACP the RI is used here]
	61	Blank
	62 - 64 (66)	3, 4 or 5 digit message reference number (MRN) starting in column 62 [for DOI and ACP the SSN is used here]
	65 (67) - 80	Blanks
10	1 - 80	"-" Dash character
Last	1 - 14	"END OF MESSAGE" (if last page)
	15 - 33	Blanks
	34 - 45	Classification
	46 - 80	Blanks

APPENDIX B

CABLE FORMATS

APPENDIX B.1

FORMAT LINE USAGE

LINE	DOI	ACP	REMARKS
1	x	x	Point-to-point accountability line
2	x	x	Routing indicator line
3	x	x	DE [redacted] routing indicator line STAT
4	1	2	Security protect line
4a	x	-	Director line
5	x	x	Date time group line
6	x	x	From line
7	x	x	Action addressee line
8			Information addressee line
9			Exempt addressee line
11	3	x	Break-begin text line
12	x	x	Non-Sponsor text lines
13	-	x	Break-end text line
14	x	x	[redacted] serial number line STAT
15	x	x	End-of-message (NNNN) line

LEGEND:

- "x" means used and mandatory
- "-" means not used
- Numbers refer to numbered notes listed below that explain the difference between the use of the particular line between formats.

NOTES:

1. The constant ZNY is used on this required line, followed by the prosign MM and the Transmission Control Code (TCC) Trigraph.

2. ZNR UUUUU is used for unclassified messages. Classified messages consist of ZNY followed by one space and five 'E's (unclasefto), five 'C's (confidential), five 'S's (secret), or five 'T's (top secret). In transmissions for foreign nationals the last two (2) characters will be replaced by the second character of the addressee's Routing Indicator. For messages with the Message Handling Indicator (MHI) of SXSXSX, the classification is followed by a slash (/) and five 'B's. (e.g., TTTTT/BBBBB). This is a required line.

3. The break-begin line consists of only ZEM. This line is required.

APPENDIX B.2

BACKUS NAUR FORMAT

B.2.1 Backus Naur Terms

The following section defines the terms and syntax used in the Backus Naur form of notation in this paper. This syntax is used to describe the content of the format lines on terminating/originating messages.

Symbol	Definition
::=	"is defined as"
< >	"open symbol" adjacent symbols denote concatenation
!	denotes alternation
( )	replication factor
___	the underscore denotes required key words.

Note: A recursive operation is denoted as:
<itself> ::= <itself><field>!<field>
<itself> can be the occurrence of <field> one or more times

B.2.2 BNF PRIMITIVES

<CR>	::= Carriage Return
<SP>	::= A single blank
<SL>	::= A slash (/)
<line>	::= 72 or fewer alphanumeric characters, except when used to refer to one of the standard message format lines. A line can extend over multiple 72 character lines.
<LF>	::= Line Feed
<EOL> End of Line	::= a sequence of <CR(2)><LF>
<EOL2>	a sequence of <CR(2)><LF(2)>
<EOL4>	a sequence of <CR(2)><LF(4)>
<EOL5>	a sequence of <SP(5)><CR(2)><LF>
<EOL8>	a sequence of <CR(2)><LF(8)>
<EOL25>	a sequence of <CR(2)><LF(25)>
<EOL30>	a sequence of <CR(2)><LF><SP(3)><LF(30)>
<Alpha Characters>	::= A!B!C!D!E!F!G!H!I!J!K!L!M!N!O!P!Q!R! S!T!U!V!W!X!Y!Z! *!#!$!'!"!:!;!,!.!/!?!(!)!-!@!+!%!&!
<Numeric Characters>	::= 1!2!3!4!5!6!7!8!9!0!
<Alphanumeric Characters> A combination of Alpha Numeric, and Special characters	::= A!B!C!D!E!F!G!H!I!J!K!L!M!N!O!P!Q!R! S!T!U!V!W!X!Y!Z!1!2!3!4!5!6!7!8!9!0! *!#!$!'!"!:!;!,!.!/!?!(!)!-!@!+!%!&!

APPENDIX B.3

DOI-100 FORMAT

B.3.1 DOI-100 FORMAT LINES

<LINE1> ::=<SOM><CDCSN><EOL5>

<LINE2> ::=<PI><SP><RISEQ><EOL>

<LINE3> ::=<DE><SP><OSRI><SP><SSN><SP><FILETIME><EOL>

<LINE4> ::=<ZNY><SP><PROSIGN><TCC><EOL>

<LINE4a> ::=<DDISEQ><EOL>

<LINE5> ::=<DUAL><SP><DTG><SP><OPSIGS><EOL>

<LINE6> ::=<FM><SP><OCAD><EOL>

<LINE7> ::=<TO><SP><CADLINE><EOL>

<LINE8> ::=<INFO><SP><CADLINE><EOL>

<LINE10> ::=<GR><NUM><EOL>

<LINE11> ::=<ZEM><EOL>

<LINE12> ::=<TEXT><EOL>

<LINE14> ::=<EOMVAL><EOL8!EOL>

<LINE15> ::=<EOM>

B.3.2 Transmission Identifier Line

<LINE1> ::=<SOM><CD><CSN><EOL5>

<SOM> ::=VZCZC

<CD> ::=<ALPHA(3)> the source of the transmission

<CSN> ::=A three-digit sequence number incremented each time a message is transmitted

<EOL5> ::=SP(5)CRCRLF five spaces followed by two carriage returns and one line feed.

Line 1 is used to maintain point-to-point accountability. CD is used to identify a circuit on which the transmission originated. The CSN is a number which is incremented by one for each transmission. There will be no characters preceding the SOM constant "VZCZC."

B.3.3 Routing Line

<LINE2> ::=<PI><SP><RISEQ><EOL>

<PI> ::=ZZ!OO!PP!RR

ZZ = FLASH
OO = IMMEDIATE
PP = PRIORITY
RR = ROUTINE

<RISEQ> ::=<RISEQ><RILINE>!<RILINE>

<RILINE> ::=<RILINE><RILIST><EOL>!<RILIST><EOL>

<RILIST> ::=<RILIST><RI>!<RI>

<RI> ::=<SP>R<A5>

<A5> ::=<ALPHA(5)>

<EOL> ::=CRCRLF two carriage returns and one line feed.

Line 2 can consist of multiple printer lines and is comprised of the precedence and a list of routing indicators (RIs). A maximum number of nine (9) RIs are used on one line. Sixty-five (65) RIs can be assigned to one transmission.

B.3.4 Originating Station Identification Line

<LINE3> ::=<DE><SP><OSRI><SP><SSN><SP><FILETIME><EOL>

<DE> ::=DE

<OSRI> ::=Originating Station RI prefixed with "Y"

<SSN> ::=#0001 - #9999 ! (SEE **NOTE BELOW)

<FILETIME> ::=<ddd><hh><mm>

<ddd> ::=Julian day of the year (001 - 366)

<hh> ::=Hour of the day (00 - 23)

<mm> ::=Minute of the hour (00 - 59)

<EOL> ::-CRCRLF two carriage returns followed by one line feed.

Line 3 is the originating station identification line and is required. It is never more than one printer line in length.

NOTE: The SSN may or may not be present. If the field begins with a pound sign (#), the following 4 numerics are the SSN. It may be suffixed with up to six alphanumerics (e.g., #1234a, #1234/9876, #1234a/9876). However, if the field does not begin with the pound sign, it is the originator's SSN, unless it is composed of 7 numerics. In this case, it is the originating station's file time.

B.3.5 Classification Line

<LINE4> ::=<ZNY><SP><PROSIGN><TCC><EOL>

<ZNY> ::=ZNY

<PROSIGN> ::=MM

<TCC> ::=<ALPHA(3)>

<EOL> ::=CRCRLF two carriage returns and one line feed.

Line 4 is the ZNY security protect sequence. The constant "ZNY" is followed by the special intelligence community prosign "MM" and the transmission control code (TCC) trigraph. Line 4 is never composed of more than one printer line in length.

B.3.6 Director Line

<LINE4a> ::=<DDISEQ><EOL>

<DDISEQ> ::=ZKZK<SP><PREC><SP><DDI><SP>DE

<DDI> ::=<DDI><ALPHA(3)><SP>!
<ALPHA(3)><SP>

<EOL> ::=CRCRLF two carriage returns and one line feed.

The Director line has the elements necessary to accomplish the switching of message traffic at communication centers equipped with an automated message distribution system. The Delivery Distribution Indicators (DDI) are identified as a line 4 parenthetical remark beginning with the trigraph USE (e.g., USE ABC DEF GHI). If no DDIs are specified, DSH or SOA will be inserted, the former if MHI=SERVICE. Line 4a will not exceed one printer line.

B.3.7 Date Time Group Line

<LINE5> ::=<DUAL><SP><DTG><SP><OPSIGS><EOL>

<DUAL> ::=<PREC>!<PREC><SP><PREC>

<PREC> ::=Z!O!P!R

Z = FLASH
O = IMMEDIATE
P = PRIORITY
R = ROUTINE

<DTG> ::=<dd><hh><mm>Z<SP><mmm><SP><yy>

<dd> ::=day of the month (01-31)

<hh> ::=hour of the day (00-23)

<mm> ::=minutes (00-59)

<mmm> ::=<ALPHA(3)>

<yy> ::=year (00-99)

<OPSIGS> ::=ZFF<N>!ZFF<SP><RIs>!other valid three-character OPSIGS/RIs

<N> ::=Action number
(1) or (2) or (3) = addressee of message
(4) = only Action Addees
(5) = only Info Addees
(6) = All Addees

<EOL> ::=CRCRLF two carriage returns and one line feed.

Line 5 indicates the time the message is received for processing by the originating station. Either single or double precedence may be specified. ZZF, ZZK, and ZZH are the only DOI OPSIGS specified for initial message transmission. ZZS is authorized for corrected copy transmission. The ZZK and each RI will be preceded by a single space. There is no automatic ZFF assignment in DOI traffic. The Opsig ZYH will be inserted if message precedence is Immediate or higher. Line 5 is never more than one printer line in length.

B.3.8 From Line

<LINE6> ::=<FM><SP><OCAD><EOL>

<FM> ::=FM

<OCAD> ::=ORIGINATOR'S CABLE ADDRESS DESIGNATOR (the originating station)

<EOL> ::=CRCRLF two carriage returns and one line feed.

Line 6 specifies the originator's address and is never more than one printer line in length.

B.3.9 Action Addressee Line

<LINE7> ::=<TO><SP><CADLINE><EOL>

<TO> ::=TO:

<CADLINE> ::=<CAD><EOL>!
<CAD><SL><OFC><EOL>!
<RI><SL><CAD><EOL>!
<RI><SL><CAD><SL><OFC><EOL>!
<RI><SL><CAD><SL><SL><OFC><EOL>!
<ZEN><SL><CAD><EOL>

<CAD> ::=CABLE ADDRESS DESIGNATOR (The TO or INFO station)

<SL> ::=Slash (/)

<OFC> ::=Specific Office or Section symbol (optional)

<EOL> ::=CRCRLF two carriage returns and one line feed.

Line 7 is the action addressee line and is required. Each CAD line is in the form of CADs, Admin titles or CAIs. Each Action Addee is on a separate printer line. If it is desired to address a specific office or section, an appropriate symbol is added after the Addressee, preceded by a slash(/). Each printer line contains only a single addees RI and CAD. The TO prosign will appear only on the first line of line 7. If the message is accompanied by an AFF and/or OMF, line 12g any action ZEN addressees, the trigraph "ZEN" will appear in the place of each excluded addees RI. If the message has only one addressee, the RI will not be inserted (e.g., TO: CADABCD/'CITY'). Line 7 can be comprised of more than one printer line.

B.3.10 Information Addressee Line

<LINE8> ::=<INFO><SP><CADLINE><EOL>

<INFO> ::=INFO

<CADLINE> ::=<CAD><EOL>!
<CAD><SL><OFC><EOL>!
<RI-C><SL><CAD><EOL>!
<RI-C><SL><CAD><SL><OFC><EOL>!
<RI-C><SL><CAD><SL><SL><OFC><EOL>!
<ZEN><SL><CAD><EOL>

<CAD> ::=CABLE ADDRESS DESIGNATOR (The INFO station)

<RI-C> ::=Routing Indicator ending in a "C".

<SL> ::=Slash (/)

<OFC> ::=Specific Office or Section symbol (optional)

<EOL> ::=CRCRLF two carriage returns and one line feed.

B.3.10 Information Addressee Line (cont'd)

Line 8 is the information addee line and is optional. The INFO Prosign is followed by the designated addressee(s). Each print line contains only one addee. The INFO prosign will appear only on the first line. For each addee whose RI ends with a "C," the RI and a slash(/) will precede the CAD. This line may extend over several printer lines.

B.3.11 Less Addressee Line

<LINE9> ::=<XMT><CADS><EOL>

<XMT> ::=XMT

<CADS> ::=<CADS><SP><CAD>!<SP><CAD>

<CAD> ::=CABLE ADDRESS DESIGNATOR (In this case, the CAD is the station(s) to be deleted.)

<EOL> ::=CRCRLF two carriage returns and one line feed.

Line 9 is used only when a CAI (Collective Address Designator) is used on line 7 or 8 and one or more CADs are to be deleted. Line 9 may be comprised of more than one printer line.

B.3.12 Accounting Information Line

<LINE10> ::=<GR><NUM><EOL>

<GR> ::=GR

<NUM> ::=The number of groups in the message

<EOL> ::=CRCRLF two carriage returns and one line feed.

Line 10 is the group count line and contains the number of groups in the message text. Group counts exist only when encryption results in five-letter cipher groups.

B.3.13 Break-Begin Text Line

<LINE11> ::=<ZEM><EOL>

<ZEM> ::=ZEM

<EOL> ::=CRCRLF two carriage returns and one line feed.

Line 11 denotes the end of the header information and the start of the text and is never more than one printer line in length.

B.3.14 Text Line Elements

Line 12 consists of one or more text lines. The elements listed below are a breakdown of line 12 by major subgroup.

Line 12a.	Required--Security Classification
12b.	Optional--Codewords
12.b.1	Required--QQQQ
12c.	If applicable--Sectionalization Information
12d.	Optional--Prosign "CITE"
12e.	Required--OCAD
12f.	Required--MRN
12g.	Required--Message text
12h.	Required--EOL/ETX Functions

The following is a further breakdown of each of the Line 12 elements.

<LINE12a-c> ::=<SECURITY><SP><CODEWORDS><SP><QQQQ><SP><SECTION><EOL>

<SECURITY> ::=UNCLAS !
UNCLAS E F T O !
C O N F I D E N T I A L !
S E C R E T !
T O P S E C R E T !

<CODEWORDS> ::=Optional and appear as specified in original message

<QQQQ> ::=QQQQ

<SECTION> ::=<FORM>!<FINAL FORM>

<FORM> ::=SECTION <X> OF <N>

<X> ::=Section number of a multi-section message
<N> ::=Total Number of Sections

<FINAL FORM> ::=FINAL SECTION OF <N>

<N> ::=Total Number of Sections

<EOL> ::=CRCRLF

B.3.14 Text Line Elements (cont'd)

Line 12 elements (a-c) combined will comprise one or more lines. No component will be split across printer lines with the exception of CODEWORDS; however, the words themselves will not be split. Section information will be included only when the message is longer than one section.

<LINE12d-f> ::=<CITE><SP(4)><OCAD><SP><MRN><EOL>

<CITE> ::=CITE

<OCAD> ::=ORIGINATOR'S CABLE ADDRESS DESIGNATOR (The originating station)

<MRN> ::=MESSAGE REFERENCE NUMBER (A four- to six-digit number that provides both the accounting for messages and a reference key.)

<SP> ::=Space

<EOL> ::=CRCRLF

Line 12 elements (d-f) always start a new line and will not be over one line in length.

<LINE12g-h> ::=<TEXT><EOL><ETX>

<TEXT> ::=Message Text

<EOL> ::=CRCRLF or other specified by originator

<ETX> ::=hexadecimal end-of-text representation.

Line 12 elements (g-h) are the actual text of the message and the end-of-text character. The ETX character will appear before the authentication information. The text EOL functions will be as specified in the originating message format.

B.3.15 Station Identification Confirmation Line

<LINE14> ::=<EOMVAL><EOL8>

<EOMVAL> ::=<CORRECT><SSN>!<SSN>

<CORRECT> ::=The prosign C followed by plain language corrections

<SSN> ::=Four numerics preceded by a pound sign

<EOL8>!<EOL> ::=CRCRLF(8) two carriage returns and eight line feeds !
CRCRLF two carriage returns and one line feed.

The end-of-message validation line verifies that the SSN from line 3 and the one on line 14 agree. Service messages use a single line feed.

B.3.16 End-of-Message Line

<LINE15> ::=<EOM>

<EOM> ::=NNNN

Line 15 is the End-Of-Message sequence and is never more than one printer line in length.

APPENDIX B.4

ACP FORMAT

B.4.1 ACP Format Lines

<LINE1> ::=<SOM><CDCSN><EOL5>

<LINE2> ::=<PI><SP><RISEQ><EOL>

<LINE3> ::=<DE><SP><OSRI><SP><SSN><SP><FILETIME><EOL>

<LINE4> ::=<ZNY><SP><CLASS><SP><OPSIGS><EOL>

<LINE5> ::=<DUAL><SP><DTG><SP><OPSIGS><EOL>

<LINE6> ::=<FM><SP><OCAD><EOL>

<LINE7> ::=<TO><SP><CADLINE><EOL>

<LINE8> ::=<INFO><SP><CADLINE><EOL>

<LINE9> ::=<XMT><CADS><EOL>

<LINE10> ::=<GR><NUM><EOL>

<LINE11> ::=<BT><EOL>

<LINE12> ::=<TEXT><EOL>

<LINE13> ::=<BT><EOL>

<LINE14> ::=<SSN><EOL8!EOL>

<LINE15> ::=<EOM>

B.4.2 Transmission Identifier Line

<LINE1> ::=<SOM><CD><CSN><EOL5>

<SOM> ::=VZCZC

<CD> ::=<ALPHA(3)> the source of the transmission

<CSN> ::=A three-digit sequence number incremented each time a message is transmitted

<EOL5> ::=SP(5)CRCRLF five spaces followed by two carriage returns and one line feed.

Line 1 is used to maintain point-to-point accountability. CD is used to identify a circuit on which the transmission originated. The CSN is a number which is incremented by one for each transmission. There will be no characters preceding the SOM constant "VZCZC."

B.4.3 Routing Line

<LINE2> ::=<PI><SP><RISEQ><EOL>

<PI> ::=YY!ZZ!OO!PP!RR

YY = Category M messages
ZZ = Flash
OO = Immediate
PP = Priority
RR = Routine

<RISEQ> ::=<RISEQ><RILINE>!<RILINE>

<RILINE> ::=<RILINE><RILIST><EOL>!<RILIST><EOL>

<RILIST> ::=<RILIST><RI>!<RI>

<RI> ::=<SP>R<A5>

<A5> ::=<ALPHA(3-7)>

<EOL> ::=CRCRLF two carriage returns and one line feed.

Line 2 can consist of multiple printer lines and is comprised of the precedence and a list of routing indicators (RIs). A maximum number of nine (9) RIs are used on one line. Sixty-five (65) RIs can be assigned to one transmission.

B.4.4 Originating [redacted] Identification Line STAT

<LINE3> ::=<DE><SP><OSRI><SP><SSN><SP><FILETIME><EOL>

<DE> ::=DE

<OSRI> ::=<RI>

<SSN> ::=#0001 - #9999 ! #0001/<n> - #9999/<n>

<n> ::=Section number of multi-section message

<FILETIME> ::=<ddd><hh><mm>

<ddd> ::=Julian day of the year (001 - 366)

<hh> ::=Hour of the day (00 - 23)

<mm> ::=Minute of the day (00 - 59)

<EOL> ::=CRCRLF two carriage returns and one line feed.

Line 3 is comprised of the originating [redacted] RI, serial number and filSTAT time. The SSN is a one-up number incremented for each message. Multiple sections are indicated with a slash(/) and the section number following the SSN. The SSN is preceded by a pound sign (#) on both lines 3 and 14.

B.4.5 ACP Classification Line

<LINE4> ::=<ZNY><SP><CLASS!CLASSFN><OPSIG><EOL>!
<ZNY><SP><CLASS!CLASSFN><SL><BBBBB><OPSIG><EOL>!

<ZNY> ::=ZNY!ZNR

<CLASS> ::=EEEEE!UUUUU!CCCCC!SSSSS!TTTTT

EEEEE = UNCLAS E F T O
UUUUU = UNCLASSIFIED
CCCCC = CONFIDENTIAL
SSSSS = SECRET
TTTTT = TOP SECRET

<CLASSFN> ::=Used for transmission to Foreign Nationals. Same as <CLASS> except last two characters of classification are replaced by the second character of the addressee's Routing Indicator (e.g., CCCXX). This is called the TRC (Transmission Release Code).

<OPSIG> ::=ZZK<SP><RIs> (Only OPSIG presently specified for initial message transmission.)

<RIs> ::=Routing Indicators (RIs are separated by a single space.)

<SL> ::=Slash (/)

<EOL> ::=CRCRLF two carriage returns and one line feed.

Line 4 is the Classification Line and is never composed of more than one printer line. For messages with the MHI of SXSXSX, the classification designator will be followed by a slash (/) and five "B"s (e.g., SSSSS/BBBBB).

B.4.6 Date Time Group Line

<LINE5> ::=<DUAL><SP><DTG><SP><OPSIGS><EOL>

<DUAL> ::=<PREC>!<PREC><SP><PREC>

<PREC> ::=Z!O!P!R

Z = FLASH
O = IMMEDIATE
P = PRIORITY
R = ROUTINE

<DTG> ::=<dd><hh><mm>Z

<dd> ::=Day of the month (01 - 31)

<hh> ::=Hour of the day (00 - 23)

<mm> ::=Minute of the day (00 - 59)

<OPSIGS> ::=ZFF<N>!ZFF<SP><RIs>!Other valid three-character opsigs

<N> ::=ZFF Distribution Code

(1) or (2) or (3) = addressee of message
(4) = Only Action Addees
(5) = Only Info Addees
(6) = All Addees

<EOL> ::=CRCRLF two carriage returns and one line feed.

Line 5 indicates the time the message is processed by the originating [redacted] STAT
Precedence is the highest one and/or two precedences assigned to the addees. OPSIGS may be a trigraph, a trigraph with a numbered suffix, or a trigraph with one or more RIs. Line 5 is never more than one printer line.

B.4.7 From Line

<LINE6> ::=<FM><SP><OCAD><EOL>

<FM> ::=FM

<OCAD> ::=Originator's Cable Address Designator (The originating station.)

<EOL> ::=CRCRLF two carriage returns and one line feed.

This line specifies the originator's address and is never more than one printer line in length.

B.4.8 Action Addressee Line

<LINE7> ::=<TO><SP><CADLINE><EOL>

<TO> ::=TO:

<CADLINE> ::=<CAD><EOL>!
<CAD><SL><OFC><EOL>!
<RI><SL><CAD><EOL>!
<RI><SL><CAD><SL><OFC><EOL>!
<RI><SL><CAD><SL><SL><OFC><EOL>!
<ZEN><SL><CAD><EOL>

<CAD> ::=CABLE ADDRESS DESIGNATOR (The TO or INFO station)

<SL> ::=Slash (/)

<OFC> ::=Specific Office or Section symbol (optional)

<EOL> ::=CRCRLF two carriage returns and one line feed.

B.4.8 Action Addressee Line (cont'd)

Line 7 is the action addressee line and is required. Each CAD line is in the form of CADs, Admin titles or CAIs. Each Action Addee is a separate printer line. If it is desired to address a specific office or section, an appropriate symbol can be added after the Addressee, preceded by a slash(/). Each printer line contains only a single addees RI and CAD. The TO prosign will appear only on the first line of line 7. If the message is accompanied by an AFF and/or if OMF line 12g any action ZEN addressees, the trigraph "ZEN" will appear in the place of each excluded addees RI. If the message has only one addressee, the RI will not be inserted (e.g., TO: CADABCD/'CITY'). Line 7 can be comprised of more than one printer line.

B.4.9 Information Addressee Line

<LINE8> ::=<INFO><SP><CADLINE><EOL>

<INFO> ::=INFO

<CADLINE> ::=<CAD><EOL>!<RI-C><SL><CAD><EOL>!
<CAD><EOL>!<RI-C><SL><SL><CAD><EOL>

<CAD> ::=CABLE ADDRESS DESIGNATOR (The INFO [redacted] STAT

<RI-C> ::=Routing Indicator ending in a "C"

<SL> ::=Slash (/)

<EOL> ::=CRCRLF two carriage returns and one line feed.

Line 8 is the information addee line and is optional. The INFO Prosign is followed by the designated addressee(s). Each print line contains only one addee. The INFO prosign will appear only on the first line. For each addee whose RI ends with a "C," the RI and a slash(/) will precede the CAD. This line may extend over several printer lines.

B.4.10 Exempt Addressee Line

<LINE9> ::=<XMT><CADS><EOL>

<XMT> ::=XMT

<CADS> ::=<CADS><SP><CAD>!<SP><CAD>

<CAD> ::=CABLE ADDRESS DESIGNATOR (In this case, the CAD is the station(s) to be deleted.)

<EOL> ::=CRCRLF two carriage returns and one line feed.

Line 9 is used only when a CAI (Collective Address Designator) is used on line 7 or 8 and one or more CADs are to be deleted. Line 9 may be comprised of more than one printer line.

B.4.11 Accounting Information Line

<LINE10> ::=<GR><NUM><EOL>

<GR> ::=GR

<NUM> ::=The number of groups in the message

<EOL> ::=CRCRLF two carriage returns and one line feed.

Line 10 is the group count line and contains the number of groups in the message text. Group counts exist only when encryption results in five-letter cipher groups.

B.4.12 Break-Begin Text Line

<LINE11> ::=<BT><EOL>

<BT> ::=BT

<EOL> ::=CRCRLF two carriage returns and one line feed.

Line 11 denotes the end of the header information and the start of the message text.

B.4.13 Text Line Elements

Line 12 consists of one or more text lines. The elements listed below are a breakdown of line 12 by major subgroup.

Line 12a. Required--Security Classification
12b. Optional--Codewords
12c. If applicable--Sectionalization Information
12d. Optional--Prosign "CITE"
12e. Required--OCAD
12f. Required--MRN
12g. Required--Message Text
12h. Required--EOL/ETX Functions

The following is a further breakdown of each of the Line 12 elements.

<LINE12a-c> ::=<SECURITY><SP><CODEWORDS><SP><SECTION><EOL>

<SECURITY> ::=UNCLAS !
UNCLAS E F T O !
C O N F I D E N T I A L !
S E C R E T !
T O P S E C R E T !

<CODEWORDS> ::=Optional and appear as specified in original message

<SECTION> ::=<FORM>!<FINAL FORM>

<FORM> ::=SECTION <X> OF <N>

<X> ::=Section number of a multi-section message
<N> ::=Total Number of Sections

<FINAL FORM> ::=FINAL SECTION OF <N>

<N> ::=Total Number of Sections

<EOL> ::=CRCRLF

Line 12 elements (a-c) combined will comprise one or more lines. No component will be split across printer lines with the exception of CODEWORDS; however, the words themselves will not be split. Section information will be included only when the message is longer than one section.

B.4.13 Text Line Elements (cont'd)

<LINE12d-f> ::=<CITE><SP(4)><OCAD><SP><MRN><EOL>

<CITE> ::=CITE

<OCAD> ::=ORIGINATOR'S CABLE ADDRESS DESIGNATOR (The originating station)

<MRN> ::=MESSAGE REFERENCE NUMBER (A four- to six-digit number that provides both the accounting for messages and a reference key.)

<SP> ::=Space

<EOL> ::=CRCRLF

<LINE12g-h> ::=<TEXT><EOL><ETX>

<TEXT> ::=Message Text

<EOL> ::=CRCRLF or other specified by originator

<ETX> ::=hexadecimal end-of-text representation.

Line 12 elements (g-h) are the actual text of the message and the end-of-text character. The ETX character will appear before the authentication information. The text EOL functions will be as specified in the originating message format.

B.4.14 Break-End Text Line

<LINE13> ::=<BT><EOL>

<BT> ::=BT

<EOL> ::=CRCRLF two carriage returns and one line feed.

Line 13 denotes the end-of-text area of the message and is never more than one printer line in length.

B.4.15 Station Identification Confirmation Line

<LINE14> ::=<SSN><EOL8!EOL>

<SSN> ::=A pound sign (#) followed by four numeric characters

<EOL8>!<EOL> ::=CRCRLF(8) two carriage returns and eight line feeds !
CRCRLF two carriage returns and one line feed.

Line 14 contains the same [redacted] serial number line from line 3 preceded STAT by a pound sign (#). Service messages use a single LF.

B.4.16 End-of-Message Line

<LINE15> ::=<EOM>

<EOM> ::=NNNN

Line 15 is the End-Of-Message sequence and is never more than one printer line in length.

APPENDIX B.5

ORIGINATING ACP FORMAT

B.5.1 INTRODUCTION

Originating messages are received in the same basic format, regardless of network (Sponsor, Special, DOI or ACP).

<MESSAGE> ::=<LINE0><LINE1><LINE2><LINE3><LINE4><LINE5><LINE6><LINE7>

LINE4 and LINE6 can consist of multiple printer lines.

B.5.2 TRANSMISSION IDENTIFIER LINE

<LINE0> ::=<CD><CSN><EOL>

<CD> ::= Three alphanumeric characters supplied by the customer which identify the channel from which the message was received.

<CSN> ::= A one-up, four-digit sequence number ranging from 0001-9999 supplied by the customer and verified by E&V.

B.5.3 ROUTING LINE

<LINE1> ::=<FORMAT CODE> <SP> <NET CODE> <SP> <SOI CODES> <SP> <TRIGRAPH> <EOL>

<FORMAT CODE> ::= OMF!RHM!SCM!SDM (mandatory)

<NET CODE> ::= AGE!DOI!ACP (mandatory)

<SOI CODES> ::= TOG!VDU!SPA!DCI (these are optional)

<TRIGRAPH> ::=<ALPHA(3)> Required on DOI or Special messages.

B.5.4 CLASSIFICATION LINE

<LINE2> ::=<CLASSIFICATION><SP><CAVEATS><EOL>

<CLASSIFICATION>::= CONFIDENTIAL ! C O N F I D E N T I A L !
SECRET ! S E C R E T !
TOP SECRET ! T O P S E C R E T !
UNCLAS ! U N C L A S !
*UNCLASSIFIED ! U N C L A S S I F I E D !
*UNCLAS EFTO ! U N C L A S E F T O !
*UNCLASSIFIED EFTO ! U N C L A S S I F I E D E F T O !
*UNCLAS E F T O

*Forms of UNCLASSIFIED are used only on non-sponsor messages except for UNCLASSIFIED Sponsor SERVICES.

<CAVEATS> ::= Codewords and any other alphanumeric characters appearing between the end of the classification and the <EOL> whose length does not exceed the maximum line length will be treated as caveats.

The first field of format line 2 must contain a valid security classification.

The validation process will consider any characters following the security classification to be a caveat. The caveat may contain a number of codewords. No validation is performed on the caveat however, other than to ensure that the total line length, including the classification, is less than 70 characters.

B.5.5 ORIGINATING STATION IDENTIFICATION LINE

<LINE3> ::=<MHI><SP><OCAD><SP><MRN><EOL>

<MHI> ::= Message Handling Indicator. A security handling indicator that instructs the addressees regarding the handling of the cable.

<OCAD> ::= Originator's Cable Address Designator. The name of the originating station.

<MRN> ::= Message Reference Number. A four- to six-digit numeric field with a range of 0001-9999, 00001-99999 or 000001-999999. The size of this field depends on the cable originator.

OCADs may have office unit information appended in the form: (Sponsor/AA). Where AA can be defined as a valid Office Unit Symbol. A slash (/) always precedes the unit.

The Message Handling Indicator (MHI) field is required if the message is to be transmitted in the Sponsor format and optional if DOI or ACP. The MHI must be valid in conjunction with the Format Code used on input line 1. The MHI may be preceded by the digraph "NP" separated by a space character. The "NP" will cause an indicator to be set. This flag will indicate that this message will not require paging during conversion to the transmission format. The "NP" digraph will not, however, appear in the transmission format.

The Originators CAD (OCAD) is a mandatory field. Input destined to be transmitted in the DOI or ACP formats may have an OCAD which is followed by a single slash (/) and a string of characters (e.g., OCAD/MILAN). Only the OCAD is validated.

B.5.6 DISTRIBUTION LINE

<LINE4> ::<ADDRESS LINE><EOL>

<ADDRESS LINE> ::=TO:<SP><SP><PRECEDENCE><ACTION ADDEE LIST>!
TO:<SP><SP><PRECEDENCE><ACTION ADDEE LIST>
<INFO><PRECEDENCE><ADDEE LIST><PERIOD><EOL>

<PRECEDENCE> ::=ROUTINE!PRIORITY!IMMEDIATE!FLASH!CRITIC
Precedence is an optional field. ROUTINE is the default condition. Currently, all originating messages are sent to all addressees at the highest precedence found....except for 'FLASH'. The FLASH message is transmitted to the FLASH addee at that precedence; a separate transmission at the next highest precedence found is required for other addressees for that message.

<ACTION ADDEE LIST> ::=Any number of valid Cable Addresses(CADs) or Collective Address Indicators (CAIs) separated by a comma, <SP>, or precedence. CADs which are made up of two names (Station Alpha) can be split across two print lines. Total line length cannot exceed 69; however, multiple lines can be specified. Each Addee can be preceded by a different precedence; however, if a new precedence is not present, the default precedence for an addee is the precedence of the preceding addee.

<INFO ADDEE LIST> ::=INFO addees immediately follow the prosign "INFO" and the precedence if specified. Validation of Info addees is as described for Action Addees.

*<POUCH INSTRUCTIONS> ::=<POUCH><SP><ADDEE> Pouch instructions are optional. If specified this info must immediately follow the Action Addees and/or the Info Addees.

<ADDEE> ::=A valid CAD(cable address). There are currently 600CADs. Supporting tables reflect a 5% to 10% annual growth rate.

*<EXEMPT LIST> ::=XMT<SP><ADDEE(S)><COMMA><SP> The Exempt list is also optional. It identifies the addressees to be exempted from the transmission. If used it immediately follows the CAI to which it refers.

<ADDEE(S)> ::=Any valid Cable Address (CAD) used as an Action or Info Addressee.

<COMMA> ::=Comma(,) used when more than one addee specified

*<DELIVERY DISTRIBUTION INDICATORS> ::=(USE ABC)<SP> Line 4 may contain an optional parenthetical string beginning with the word USE - e.g., (USE ABC DEF).

*<EYES ONLY> ::=(EYES ONLY) This is a valid statement which can also appear in line 4. Used in conjunction with specific MHI.

<ZEN ADDRESSEES> ::=Originating messages in the DOI and ACP formats may contain valid CADS preceded by "ZEN/" e.g., ZEN/CADABLE.

<ADDEE LOCATIONS> ::=In DOI and ACP originating formats, some valid addee CADS may be followed by two slashes and a character string e.g., CADABLE//CITY STATE. The character string may be anything other than a valid prosign or precedence and is termed location. Locations are included on Output Format lines 7 & 8.

<FOREIGN NATIONAL ADDEES> ::=ACP CADS which require no special processing other than validation via Table look-up. The presence of Foreign National addressees requires that special protect sequences be generated on output.

<PERIOD> ::= . (Indicates the end of Line 4).

** Only the above forms of parenthetical strings can be present in line 4.

B.5.6.1 Validation Rules

Rules covering the validation of mandatory and optional information which may appear on the Addressee Line require that the following terms be defined:

a) Parenthetical String - Any string of successive characters beginning with a left parenthesis and ending with a right parenthesis.

b) Delimiter Character - Any of the following characters not appearing in a parenthetical string: space(SP), comma(CO), period(PD), carriage return(CR), and line feed(LF).

c) Word Character - Any non-delimiter character not appearing in a parentheticaL string.

d) Delimiter String - Any string of one or more successive delimiter characters bounded on both ends by a word character.

B.5.6.2 Delimiter Strings

From the above definitions, it follows that the Addressee line is composed of alternating word strings and delimiter strings. Definitions of the delimiter string categories follow:

a) Space Delimiter String - (SP), (CRCRLF), or (SPCRCRLF).

b) Comma Delimiter String - (COSP), (COCRCRLF), or (COSPCRCRLF).

c) Period Delimiter String - (PDCRCRLFLF) or (PDSPCRCRLFLF).

d) Invalid Delimiter String - Any delimiter string which is not a space, comma, or period delimiter string, or is not the string (SPSP) following the prosign TO:. The prosign TO: may be followed by one or two spaces.

B.5.6.3 Word String

Word string definitions follow:

a) Prosign - TO: or INFO.

b) Precedence - CRITIC, FLASH, IMMEDIATE, PRIORITY, or ROUTINE.

c) Addressee component - Any word string which is not a prosign or precedence.

d) Addressee - Any sequence of one or more addressee components separated by space or comma delimiter strings.

e) Valid Addressees - Any addressee which is listed in the Cable Address (CAD) Table as an active CAD corresponding to the subject message's Format or, any Collective Address Indicator (CAI) listed in the CAI Table applicable to the message's Format.

f) Action Addressee - Any valid addressee which appears before the prosign INFO: or the period delimiter string, whichever appears first.

g) Info Addressee - Any valid addressee which appears after the INFO: prosign and before the period delimiter string.

B.5.6.3.1 The Addressee Line (Input format line 4)

The addressee line may be comprised of several printer lines. The validation process will consider this line to begin with the printer line immediately following input format line 3 and to end with the first ensuing period delimiter string which is not part of a parenthetical string. The validation process will scan line 4 alternating word strings and delimiter strings, validating the parenthetical strings as specified above. Error processing will be handled as follows:

B.5.6.3.2 Pouch Addressees (Optional entry Line 4)

The addressee line may contain a parenthetical string beginning with the word 'POUCH' - e.g.,(POUCH CADABLE, CADBAKER) - The string is scanned by the validation process to ensure that it contains nothing but valid addressees which are not identified outside the string and that they are authorized to receive the message.

B.5.6.3.3 Exempt Addressees

A parenthetical string beginning with the word "XMT" may immediately follow a Collective (CAI) - e.g., CAIA (XMT CADA, CADB). The string is scanned to ensure that it contains nothing but valid addressees which are members of the CAI group. Invalid CADs will cause the error code 00418 to be set and one added to the error count.

B.5.6.3.4 Delivery Distribution Indicators

In DOI destined messages, line 4 may include a parenthetical string beginning with the word 'USE' - e.g., (USE ABC DEF GHI JKL). This string will be scanned to ensure that it is composed of only three character alphabetic trigraphs. The maximum number of trigraphs which can follow the word USE is ten (10). If an illegal trigraph is detected, the error code 00419 is set and the count bumped. If more than ten trigraphs are input, then the error code 00420 is set and one is added to the error counter.

B.5.6.3.5 Eyes Only

The (EYES ONLY) parenthetical expression may also appear on the addressee line. No special validation is required other than to recognize that the statement is one of the four valid parenthetical strings.

B.5.6.3.6 ZEN Addressees

In ACP and DOI destined messages, some valid addressee CADS may be preceded by 'ZEN/' - e.g., ZEN/CADABLE.

B.5.6.3.7 Addressee Locations

On ACP or DOI destined messages, some valid addressee CADs can be followed by two slashes and a character string - e.g., CADABLE//CITY STATE. The maximum length cannot exceed one printer line. The character string may contain anything but a valid prosign or a precedence.

B.5.6.3.8 Foreign National Addressees

Foreign Cable addressees are validated against the CAD Table.

B.5.7 NIGHT ACTION LINE

<LINE5> ::=<NIACT LINE><EOL>

<NIACT LINE> ::=NIACT<ADDEE LIST><PERIOD>

<ADDEE LIST> ::=One or more valid Cable Addresses. See ADDEE descriptions for line 4. The precedence specified on line 4 must be IMMEDIATE.

The "night action" prosign "NIACT" if used, will always follow the addressee line. This prosign can only be used if the precedence is IMMEDIATE.

The prosign is usually followed by one or more CADS or CAIs - e.g., NIACT CADABLE, CADBAKER.... CADS are validated to ensure that they also appear on line 4 as an action or info addressee.

B.5.8 TEXT LINE

<LINE6> ::=<TEXT LINES><PERIOD><CHAIR><ETX>

<TEXT LINES> ::=There can be any number of text lines. Each cannot exceed 72 characters and will end with an <EOL>. The last text line will end with a period(.) followed by a "chair" symbol. While editing the text two other optional strings can be identified:

a) SUBJECT/SLUG line

b) REFERENCE line

The CAD, MRN length, and EOL are checked on the reference line. The Subject and Slug line is not validated. They are, however, set aside in appropriate variables for subsequent processes. Four consecutive N's placed in the text will cause an error condition.

<CHAIR> ::=Hexadecimal representation for the "chair" symbol

<ETX> ::=Hexadecimal representation for the "end of text" symbol

The validation process examines the structure of text lines. Provisions are made to scan for such identifiable literals as SUBJECT and REFERENCE and associated information. Subject information is saved. If SLUGS are present they are saved. Reference data is validated based on CAD(S) and their associated numbers, and then it is saved. The validation process examines the text for the following conditions:

a) Over long lines (over 72 characters in length excluding the end of line functions).

b) Invalid End Of Line (EOL) sequences. EOL is defined as at least one carriage return (CR) and at least one line feed (LF) where the last, or only, CR precedes the first, or only, LF.

c) Chair symbol errors. The message may contain only one "chair" symbol. The "chair" symbol must immediately follow a period.

B.5.9 AUTHENTICATION LINE

```
<LINE7>                  ::=<AUTHENTICATION LINES><EOM>

<AUTHENTICATION LINES>   ::=ORIG:<SP><SP><OFFICE UNIT SYMBOL>
                             <SP>(<NAME>)<SP>
                             COORD:<SP><SP><OFFICE UNIT SYMBOL>
                             <SP>(<NAME>)<SP>
                             AUTH:<SP><SP><OFFICE UNIT SYMBOL>
                             <SP>(<NAME>)<SP>
                             REL:<SP><SP><OFFICE UNIT SYMBOL>
                             <SP>(<NAME>)
                             <PERIOD>

<OFFICE UNIT SYMBOL>     ::=Character string representing a users office
<EOM>                    ::=<BUCKLE>

<BUCKLE>                 ::=Hexadecimal representation for a "buckle" symbol.
```

NOTE: "buckle" symbol will never be transmitted to AFS

This required line immediately follows the last text line.

APPENDIX C

CABLE EXAMPLES

APPENDIX C.1

STAT

ORIGINATING ACP FORMAT/CATEGORY M

/ / *** TDFIR REPORT *** UNCLASSIFIED FRP: , , ,4, , , ,

MILITARY

CONF: IID INFO: CRA, ODPB-B, ODPD-D, ODPN-N, ODPR-R, ODPS-S, ODPW-W, OPCTR/EALA, PRINT, RF, TDSORT, ZZA, FILE, CPAS/CDP, D/FBIS-3, ICS/HC/AS, NIO/EA, NIO/FDIA, NIO/ST, OOE/EI/MA, OSWR/C/TTC, OTE/ISO/LY, (13/P)

---

86 0865127 MUR PAGE 001
TOT: 140443Z MAY 86 HQS282828

U N C L A S S I F I E D
140443Z
TO: CDR/URDET//EG-A//,
CDR/MYDET//EG-B//
INFO CDR/HISDET//EG-EXAM//,

CDR/HERDET//EG-NONE//,
CDR/OURDET//BI-12/BI-18//.

SERIAL: HQS282828
PASS:

CODEWORD

WARNING:

DIST:
COUNTRY:

SUBJ:

DOI:

SOURCE:

TEXT:

THIS EXAMPLE SHOWS MULTIPLE ACTION AND INFO ADDRESSES AND HOW EACH ADDRESSEE LINE IS TERMINATED DEPENDENT ON POSITION IN ADDRESSEE LIST. A COMMA TERMINATES EACH ADDRESSEE EXCEPT IF IT PRECEDED THE "INFO" INDICATOR. A PERIOD TERMINATES THE ADDRESSEE LIST.

DISSEM:

ORIG/REL:

END OF MESSAGE UNCLASSIFIED

APPENDIX C.2

STATE
ACP FORMAT/CATEGORY S

/ / UNCLASSIFIED FRP: , ,3, , , , ,

STATE

ACTION: NONE INFO: DONOVA, ODPB-B, ODPD-D, ODPN-N, ODPS-S, OPCTR/EALA, PRINT, RF, SOV/EAD/P, SOV/PA/FO, SOV/SP/W/M, SOV/SP/W/N, SOV/SP/W/S, SOV/TW/RPE, FILE, DCEA/1, EA/ANZP, EA/RR, D/FBIS-2, NIO/USSR, (7/W)

---

86 1683449 SUO PAGE 001 NC 1683449
TOR: 310430Z JUL 86 WELLIN 03186

OO RUEAIIB
ZNR UUUUU ZOC STATE ZZH
STU7184
OO RUEHC
DE RUEHWL #3186/01 2120212
ZNR UUUUU ZZH
O 310211Z JUL 86
FM AMEMBASSY WELLINGTON
TO RUEHFO/USINFO WASHDC IMMEDIATE
INFO RUEHC/SECSTATE WASHDC 6706
RUEKJCS/SECDEF WASHDC
RUHQHQA/USCINCPAC HONOLULU HI
RUEHMO/AMEMBASSY MOSCOW 0804
RUEHBY/AMEMBASSY CANBERRA 6763
RUEHVA/AMEMBASSY SUVA 6405
RUEHKO/AMEMBASSY TOKYO 4667
RUEHPM/AMEMBASSY PORT MORESBY 4050
BT
UNCLAS WELLINGTON 03186
USIA
USINFO FOR P/RM, P/P, P/FW, P/FN, VOA NEWS/CA, EA, P/REA;
STATE FOR EAP/ANZ
SECDEF FOR ISA J. WILLIAMS
USCICCPAC FOR PAO AND USIA ADVISOR
EO 12356: N ZAEQWVIIYT: MEDIA REACTION
"BIG POWERS EYING PACIFIC, SAYS PM" ("THE DOMINION" 7/31)
HEADED PRIME MINISTER LANGE'S REACTION TO GORBACHEV'S
VLADIVOSTOCK SPEECH WHICH HE SAID "WAS PART OF A BIG-POWER
SPOTLIGHT ON THE REGION". GOULD

END OF MESSAGE UNCLASSIFIED

APPENDIX C.3

MILITARY/CABLE
ACP FORMAT/CATEGORY M

/ / UNCLASSIFIED FRP: , ,3, , , , ,

MILITARY

ACTION: NONE INFO: MILMON, ODPB-B, ODPN-N, ODPS-S, OGI/SRD/AA-2, PRINT, RF, FILE, (1/W)

---

86 1670146 MUR PAGE 001 NC 1670146
TOR: 300243Z JUL 86 RUEHDC 1476

RR RUEAIIA
DE RUEHDC #1476 2110241
ZNR UUUUU
R 300239Z JUL 86
FM USDOC WASHDC
TO CBI COLLECTIVE
INFO RUCHOGC/USDOC DISTDIR NEW ORLEANS LA
RUEVHOR/USDOC DISTDIR ATLANTA GA
RUCHOGJ/USDOC DISTDIR HOUSTON TX
BT
UNCLAS USDOC 11476
USDOC
EO 12356 N/A
TAGS: BEXP BIOP, CBI
SUBJECT: CARIBBEAN CONNECTIONS: SEAFOOD/PROCESSED FOOD MISSION
REF: USDOC 5356
ITINERARY OF SUBJECT MISSION WILL BE AS FOLLOWS:
MON., OCT. 27, ATLANTA: BUSINESS MEETINGS AND OTHER ACTIVITIES ALL DAY.
TUES., OCT.28: FOLLOW-UP MEETINGS AND/OR FREE TIME; DEPART 5:20 PM ON CONTINENTAL AIRLINES FLIGHT 135, ARRIVE HOUSTON 6:15 PM.
WED., OCT.29, HOUSTON: BUSINESS MEETINGS AND OTHER ACTIVITIES ALL DAY.
THURS., OCT. 30: FOLLOW-UP MEETINGS AND/OR FREE TIME; DEPART 2:55 PM ON CONTINENTAL FLIGHT 432, ARRIVE NEW ORLEANS 3:55 PM.
FRI., OCT. 31, NEW ORLEANS: BUSINESS MEETINGS AND OTHER ACTIVITIES ALL DAY.

END OF MESSAGE UNCLASSIFIED

APPENDIX C.4

MILITARY/IR
(DAO)
ACP FORMAT/CATEGORY M

/ / UNCLASSIFIED FRP: , ,3, , , , ,

MILITARY

ACTION: NONE INFO: DONOVA, IRL, ISORT, ODPB-B, ODPD-D, ODPS-S, OPCTR/EEWE, PRINT, RF, FILE, EUR/I, EUR/IB, INT/RR, NCPM, NIO/EUR, OOE/IT, (7/W)

---

86 1679314 MUR PAGE 001 NC 1679314
TOR: 301927Z JUL 86 RUEKJCS 8756

RR RUEAIIA
DE RUEKJCS #8756 2111925
ZNR UUUUU
R 301925Z JUL 86
FM JCS WASHINGTON DC
INFO RUENAAA/CNO WASHINGTON DC
RUEAHQA/CSAF WASHINGTON DC
R 301734Z JUL 86
FM USDAO MADRID SP
TO RUEKJCS/DIA WASHINGTON DC//DB-2B1/DB-3B2/DB-3B3//
RHFUMHE/BRFINK MHE BOERFINK GE
BT
UNCLAS MADRID SP 08756
SERIAL: IIR 6 889 0176 86
COUNTRY: SPAIN (SP)
SUBJ: IIR 6 889 0176 86/BIOGRAPHIC REPORT: SPAIN, JUAN
- ((ELETA)) SEQUERA, LTCOL, DEFENSE ATTACHE TO U.S. ARMY (U).
WARNING: THIS IS AN INFORMATION REPORT, NOT FINALLY EVALUATED INTELLIGENCE.
DOI: 860722
REQS: T-XXX-42015; Y-PART1-003.
SOURCE: USDAO MADRID FILES

SUMMARY: IIR PROVIDES BIOGRAPHIC INFORMATION KEYED TO DD FORM 1396-1 ON LTCOL JUAN ((ELETA)) SEQUERA, WHO HAS BEEN NAMED DEFENSE ATTACHE TO THE EMBASSY OF SPAIN IN THE U.S.

TEXT: FOLLOWING IS ALL INFORMATION CURRENTLY AVAILABLE ON LTCOL ELETA:

LTCOL WAS BORN IN SPAIN.

END OF MESSAGE UNCLASSIFIED

APPENDIX C.5

SI
(NSA)
DOI-103 SPECIAL (DOI-101)/CATEGORY N

APPENDIX D

FILE FORMAT FOR FBIS PRODUCTS

```
{start AFS header}
MSGNO nnnnn/mmmmm
{end AFS header}
{start JANAP 128 header}
RTTUZYUW RUWCAAG<SSN> <JDTG> MTMS-UUUU--RUEBHAA.
R <DTG>
FM FBIS RESTON VA
TO RUEBHAA/STORAGE CENTER FBIS WASHINGTON DC
BT
{end JANAP 128 header}
{start text file header}
<classification>
SERIAL: <REPORT_NUMBER>:<AFS_NUMBER>
SUBJ:   <REPORT_TYPE>
TEXT:
{end text file header}


         {text of article in BRS/Search database load format}


{start JANAP 128 ender}
DECL:    OADR
BT
{end JANAP 128 ender}


NOTES:   [1] SSN    = Station Serial Number
         [2] JDTG   = Julian Date Time Group
         [3] DTG    = Date Time Group
         [4] BOLD => Required field
         [5] DECL: => Required field for classified messages only
```

APPENDIX E

DATA FIELDS FOR FBIS PRODUCTS

FIELD NAME	DESCRIPTION (LONG FIELD NAME/EXAMPLE)	MANDATORY FIELD
REPORT_TYPE	Type of Report e.g. JPRS Report AG Trends Report	Yes
REPORT_NUMBER	Identification Number of Report e.g. JPRS-UMA-86-019-L	Yes
REPORT_DATE	Publication Date of Report	Yes
REPORT_VOLUME	Volume Number of Report e.g. Vol V no 110	
REPORT_SERIES	Region or Subject Series of Report e.g. East Asia USSR	
REPORT_NAME	Title or Name of Report e.g. China Economics Korean Affairs	
REPORT_TOC	Table of Contents of Report	
REPORT_DIVISION	Division of Report e.g. Arabian Peninsula Inter-African Affairs	
REPORT_SUBDIVISION	Sub-Division of Report. e.g. Gulf Affairs Kuwait Saudi Arabia	
HEADLINE	Headline of Article e.g. UN Asked to Help Stop Iranian 'Aggression'	
SUBHEADLINE	Sub-Headline of Article	
AFS_NUMBER	AFS Article Number e.g. CSO Number (JPRS)	Yes
SOURCE_LINE	Source Line Text of Article	
SUBSLUG	Subslug Text of Article	

FIELD NAME	DESCRIPTION (LONG FIELD NAME/EXAMPLE)	MANDATORY FIELD
DISSEMINATION	Dissemination Restrictions of Article e.g. FOUO	
TEXT	Full Text of Article	Yes
TABLE	Name and Number of Article Table e.g. Table 1 - Warsaw Pact Summit	
REFERENCE	Reference to Related Articles e.g. Database Name, Document ID to Indicate a Correction	
UDC_NUMBER	UDC Number of Article	
CLASSIFICATION	Classification Level of Article e.g. TOP SECRET SECRET CONFIDENTIAL EFTO UNCLASSIFIED	Yes
CITY_SOURCE	City and Source of Original Document	
LANGUAGE	Language of Original Document	
TARGET_OF_ BROADCAST	Target of Broadcast	
VOL_NO	Volume and Number of Original Document	
DOCUMENT_DATE	Publication Date of Original Document	Date Check
AUTHOR	Author(s) of Original Document	
AFFILIATION	Affiliation(s) of Author(s)	
AG_FILE_FLAG	AG Central File Flag	Table

APPENDIX F

EXAMPLE OF ARTICLE IN BRS/SEARCH DATABASE LOAD FORMAT

..Document-Number:
000000001
..REPORT_TYPE:
Daily Report
..REPORT_NUMBER:
FBIS-LAM-87-231
..REPORT_DATE:
871202
..REPORT_VOLUME:
Vol V No 111
..REPORT_SERIES:
Latin America
..REPORT_NAME:
..REPORT_TOC:
..REPORT_DIVISION:
Inter-American Affairs
..REPORT_SUBDIVISION:
..HEADLINE:
FEDAL Congress Issues Final Resolution
..SUBHEADLINE:
..AFS_NUMBER:
PY2715514887
..SOURCE_LINE:
PY2715514887 Asuncion PATRIA in Spanish 25 Nov 87 p 9
..SUBSLUG:
[Final resolution of the Second General Congress of the Latin American Federation of Democratic Organization; date not given]
..DISSEMINATION:
FOUO
..TEXT:
[Text] The Second General Congress of the Latin American Federation of democratic Organizations [FEDAL], gathered in Asuncion, Paraguay, on 22-24 November 1987, resolves:
..TEXT:
1. To thank his excellency, president of the Republic of Paraguay, General Alfredo Stroessner, for the Keynote message he sent to the Second Congress and to express once more the admiration and recognition of the members of this Federation of his intransigent defense of the Paraguayan people's freedom and his constant concern for the functioning and strengthening of democratic institutions, as well as for the hospitality he has always extended to the fighters for the ideals of democracy and freedom.
..TEXT:
2. To thank his excellency, the president of the Republic of Boliva, Dr Victor Paz Estenssoro, for his message of support to the Second Congress and to express to him the solidarity of the Fedal members with the efforts he is making to guarantee lasting peace for the Bolivian people, based on development and the principles of freedom and popular sovereignty.
..TEXT:

..TABLE:
..REFERENCE:
..UDC_NUMBER:
..CLASSIFICATION:
    UNCLASSIFIED
..CITY_SOURCE:
    Asuncion PATRIA
..LANGUAGE:
    Spanish
..TARGET_OF_BROADCAST:
..VOL_NO:
..DOCUMENT_DATE:
    871125
..AUTHOR:
..AFFILIATION:
..AG_FILE_FLAG:

APPENDIX G

AFS SYSTEM PREREQUISITES

G.1 Hardware

System:	VAX 8700 [DEC]
Memory:	Virtual - 200 KB per process (4 processes)
Disk:	1500 blocks program storage Space for data storage dependent on load
Communications:	DMB32 Communications Controller [DEC] Synchronous modem [Codex 2340 or equivalent]

G.2 Software

Operating System:	VAX/VMS (version 4.5 or higher) [DEC]
Network:	DECnet-VAX (version 4.0) [DEC] VMS Message Router Base (version 2.0) [DEC] VMS Message Router VMSmail gateway (version 2.1) [DEC]
Server:	MAILbridge Server/DEC, Gateway/Final Form (version V1L1) [Soft-Switch]
Communications:	VMS/SNA (version 1.1) [DEC] DECnet/SNA VMS Remote Job Entry [DEC] DMB32 Synchronous Device Driver (version 1.0) [DEC]

APPENDIX H

AGENCY IBM MVS SYSTEM PREREQUISITES

H.1 Hardware

System:	IBM
Communications:	370x Communications Controller [IBM] Synchronous modem or modem eliminator

H.2 Software

Operating System:	MVS [IBM]

FBIS [redacted] STAT

INTERFACE CONTROL DOCUMENT

MPD-900-208

7 April 1988

STAT

CHANGE LOG

TITLE: FBIS [redacted] INTERFACE CONTROL DOCUMENT MPD-900-208

STAT

REV	DATE	PAGES AFFECTED	RFC NO.

TABLE OF CONTENTS

STAT

TABLE OF CONTENTS

STAT

LIST OF FIGURES

1.0 INTRODUCTION

1.1 Purpose

This Interface Control Document (ICD) describes the electrical, mechanical and data interfaces for the Automated FBIS System (AFS) STAT It further identifies the functional and performance requirements to be satisfied by AFS in conjunction with STAT services in support of the communications between FBIS Headquarters and FBIS field bureaus. The message format for all STAT users will be described along with the communication equipment configuration and the signal/data paths for each FBIS bureau.

1.2 Overview

STAT

2.0 APPLICABLE DOCUMENTS

2.1 Compliance Documents

2.1.1 MPD-900-001 - Automated FBIS System Specification

2.1.2 MIL STD 188-100 - Common Long Haul and Tactical Communication System Technical Standards

2.1.3 ACP 127( ) - Communications Instructions Tape Relay Procedures

2.2 Other Documents

2.2.1 FBIS Editorial Handbook - January 1986

2.2.2 MPD-900-200 - FBIS/AUTODIN Interface Control Document

2.2.3 MPD-900-202 - FBIS/Dedicated Line Interface Control Document

2.2.4 JANAP 128( ) - Automatic Digital Network (AUTODIN) Operating Procedures

Next 45 Page(s) In Document Denied