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SOFTWARE DOCUMENTATION ON THE URDB MODIFICATIONS TO
INCORPORATE INFORMATION. (U) N/A-COM LINKABIT INC VIENNA
VA S KEYSER ET AL. 15 OCT 85 159 DCA/H50-85-129
DCA100-84-C-0009

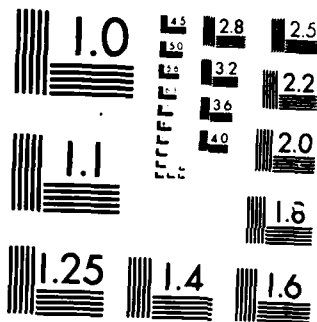
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MICROCOPY RESOLUTION TEST CHART
1963 - NATIONAL BUREAU OF STANDARDS - 1963 - A

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GOVERNMENT SYSTEMS GROUP

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VIENNA, VA 22180

M/A-COM LINKABIT, Inc.
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**SOFTWARE DOCUMENTATION ON THE
URDB MODIFICATIONS TO INCORPORATE
INFORMATION COLLECTED IN POST-DSCS
AND UHF STUDIES**

**Final Report 159
Task MSO85-7**

October 1985

**Prepared by M/A-COM LINKABIT, Inc.
Under Contract DCA100-84-C-0009**

**Submitted to
Defense Communications Agency
Center for Command and Control,
and Communications Systems, Code A800
8th & S. Courthouse Road
Arlington, VA 22204**

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MILSATCOM SYSTEMS OFFICE

SOFTWARE DOCUMENTATION ON THE URDB MODIFICATIONS TO INCORPORATE INFORMATION COLLECTED IN POST-DSCS AND UHF STUDIES

Approved For Release	<input checked="" type="checkbox"/>
<i>form 50 per</i>	
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DCA Control No. _____
DCS MSO Code A800
October 1985

CHAPTER 1
INTRODUCTION

In 1984, much information was collected by the MSO for Post-DSCS, UHF, and Milstar studies. As a result of these collections, two items were identified by the MSO to be added to the User Requirements Data Base (URDB) files that would be helpful in building future architectures. Femme Comp, Inc., subcontracting to M/A-COM LINKABIT, was tasked with this effort.

CHAPTER 2 URDB CHANGES

The first step in adding data elements to a data base at DCA is to request a DBGEN change through Code N331. A copy of DCA form 319, which was sent requesting this action, is shown in Figure 2-1. Work has been completed on this modification.

The new data elements being added to the URDB are "Service Outages Tolerable" and "Duration of Survivability of Supported Mission." These two single-character elements are identified in the "TOTAL" data base NVUQ A1 record as "NVUQSOTO" and "NVUQDSSV," respectively. The filler data element "NVUQFAIR" was reduced to 8 characters to make room for these new elements.

Concurrent with Code N331's modifications to the DBGEN, Femme Comp, Inc., programmers completed changes to the URDB software. The following URDB programs have been modified to accept new data elements in the system:

- o ZRDBUPDT (URDB update program)
- o ZRDBTRAN (URDB transaction report generation program)
- o ZRDBINPT (URDB data input program).

Simple modifications to identify the new data elements were made to the ZRDBUPDT and ZRDBTRAN programs. Extensive coding was added to the URDB data input program ZRDBINPT to add two new display screens. These two new screens can be used for both the entry of new requirements and for the editing of requirements already in the data base.

The screen for the "Service Outages Tolerable" data element will carry number 7A and will follow screen 7 in the display series. The "Duration of Survivability of Supported

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REQUEST FOR AOP SERVICES (REF DCAI 630 230 16)		CONTROL NUMBER	
1 FROM (name, office code, telephone no) Code 4900 Tel: 20280		3 TO (see appropriate Enclosure or ref.) Code N331 T-PU: Code 632	
4 PRODUCT TITLE Addition of two data elements to the MSO User Requirements Data Base (URDB)			
5 TYPE OF SERVICE REQUIRED (check appropriate block)		6 SECURITY CLASSIFICATION UNCLASSIFIED	
<input type="checkbox"/> a ONE TIME RETRIEVAL/EXTRACT (see Enclosure 2) <input type="checkbox"/> b KEY PUNCH/COMPUTER TIME (see Enclosure 3) <input type="checkbox"/> c PROGRAM MODIFICATION (see Enclosure 4) <input type="checkbox"/> d FILE DEVELOPMENT/MODIFICATION (see Enclosure 5) <input checked="" type="checkbox"/> e NEW, RECURRING OR AS REQUIRED REPORT (see Enclosure 6)		7 AS OF DATE 26 July 1985	8 PERIOD COVERED
		9 DATE REQUIRED 9 Sept 85	10 FREQUENCY
		11 EXPIRATION DATE	12 NO OF COPIES
13 DISTRIBUTION			
14 STATEMENT OF REQUIREMENT 1. Request the necessary action be taken to incorporate the following two fields into the MSO portion of the NGMRCL DBGEN on all systems (X1 through X4, Headquarters and equivalent systems in field offices):			
<u>FIELD NAME</u>	<u>LABE</u>	<u>LENGTH</u>	
Service Outages Tolerable	NVUQSOTO	One character code	
Duration of Survivability	NVUQSSM	One character code	
2. These items are to be located in the NVUQ variable file, A1 record. There is presently a filler element of 10 characters, NVUQFAIR, which is to be used as room for expansion. The two additional elements should utilize the first two characters of this filler field, and NVUQFAIR should be changed to 8 characters, to eliminate the need for any unloading/reloading of TOTAL files. The data will be loaded with the MSO's update software by A800 personnel or contractors.			
(continue on next page)			
15 JUSTIFICATION PURPOSE The MSO URDB was established and is being maintained in accordance with DoD Directive 5105.44, dated 9 October 1973. Upgrade of the URDB from a flat file to TOTAL Data Set in the WWOLS was accomplished in June 1984. In addition to enhancing the automation capabilities and amount of information, this new format was designed to provide the flexibility TOTAL affords for change and growth. Subsequent to the implementation of the new URDB, the MSO initiated two major architectural efforts to define Post FLTSAT/LEASAT and Post DSCS III system concepts. These efforts have identified two additional elements needed in the data base.			
16 AUTHORIZED BY (name and title) EUGENE B. DAVIS, CAPT, USN Assistant Deputy Director MSO		17 SIGNATURE	18 DATE

FORM 318 JUN 72

5101170

Figure 2-1. Sample DBGEN Change Report (1 of 2)

(cont: Statement of Requirement)

Since this change affects all DBGENS both here and at the area centers as well as the software scheduled for dissemination, request you postpone the following 319's to coincide with the completion of this task:

<u>319 Number</u>	<u>Description</u>
330-4231	Size of files - expansion dissemination of software to area centers.
330-5059	

510118 0

Figure 2-1. Sample DBGEN Change Report (2 of 2)

Mission" screen will carry number 9A and will follow screen 9. After the user enters data, the data will be validated against appropriate tables.

These new screens--7A and 9A--will use the same format as the other 12 screens in helping the user enter the data as well as doing the same type of error checking shown in Figures 2-2 and 2-3.

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*** MILSATCOM URDB UPDATE SCREEN SEVENA ***
SERVICE OUTAGE TOLERABLE (PER DAY) (ENTER APPROPRIATE CODE): _

A - 5 MINUTES OR LESS
B - 5-10 MINUTES
C - 10-15 MINUTES
D - 15-30 MINUTES
E - 30-60 MINUTES
F - 60-120 MINUTES
G - 2-4 HOURS
H - 4-6 HOURS

PF3-QUIT          PF1-HELP          PF8-CANCEL

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Figure 2-2. Screen 7A Format

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*** MILSATCOM URDB UPDATE SCREEN NINEA ***
DURATION OF SURVIVIBILITY OF SUPPORTED MISSION
(SELECT ONE OF THE BELOW CODES) _

A - PEACETIME ONLY
B - CRISIS
C - CONVENTIONAL WAR
D - TRANS-ATTACK
E - POST-ATTACK/RECONSTITUTION

PF3-QUIT          PF1-HELP          PF8-CANCEL

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Figure 2-3. Screen 9A Format

5101190

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REPORT DOCUMENTATION PAGE

1a. REPORT SECURITY CLASSIFICATION UNCLASSIFIED		1b. RESTRICTIVE MARKINGS	
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2b. DECLASSIFICATION/DOWNGRADING SCHEDULE N/A			
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12. PERSONAL AUTHOR(S) S. Keyser, D. Eversmeyer (Femme Comp, Inc.)			
13a. TYPE OF REPORT Final	13b. TIME COVERED FROM 7/15/85 TO 10/14/85	14. DATE OF REPORT (Yr., Mo., Day) 1985 October 15	15. PAGE COUNT 6
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FIELD	GROUP SUB GR		
19. ABSTRACT (Continue on reverse if necessary and identify by block number) (U) This documentation has been produced to provide system managers and programmers with the information necessary to understand the URDB modifications to incorporate information collected in the Post-DSCS and UHF studies. This document is intended to be used as a supplement to the MILSATCOM User Requirements System (MURS) URDB Program Maintenance Manual (November 1984), which defines other MURS software that is used in this system.			
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22a. NAME OF RESPONSIBLE INDIVIDUAL Col. T. Thomas	22b. TELEPHONE NUMBER (Include Area Code) (202) 692-0280	22c. OFFICE SYMBOL A820	

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