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

Final Report 159
Task MS085-7

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

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:

- ZRDBUPDT (URDB update program)
- ZRDBTRAN (URDB transaction report generation program)
- 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
**REQUEST FOR ADF SERVICES**

| Code 4900 | Tel: 27920 |

**PRODUCT TITLE**

Addition of two data elements to the MSO User Requirements Data Base (URDB)

<table>
<thead>
<tr>
<th>FIELD NAME</th>
<th>LABEL</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Outages Tolerable</td>
<td>NVUQSO</td>
<td>One character code</td>
</tr>
<tr>
<td>Duration of Survivability</td>
<td>NVUQDSSM</td>
<td>One character code</td>
</tr>
</tbody>
</table>

1. Request the necessary action be taken to incorporate the following two fields into the MSO portion of the NGMRL DBGEN on all systems (X1 through X4, Headquarters and equivalent systems in field offices):

2. These items are to be located in the NVUQ variable file, AI 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)

**AUTHORIZATION**

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

2-2
(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:

<table>
<thead>
<tr>
<th>319 Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>330-4231</td>
<td>Size of files - expansion</td>
</tr>
<tr>
<td>330-5059</td>
<td>dissemination of software to area centers.</td>
</tr>
</tbody>
</table>

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.
Figure 2-2. Screen 7A Format

Figure 2-3. Screen 9A Format
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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