Defense Information Infrastructure (DII)
Common Operating Environment (COE)

Software Version Description (SVD)
for the
Enhanced Logistics Intratheater Support Tool (ELIST)
Database Fill Segment Version 8.1.0.0
for Solaris 7

26 February 2002

Prepared for:
Military Traffic Management Command
Transportation Engineering Agency
720 Thimble Shoals Boulevard
Newport News, VA 23606

Prepared by:
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9700 South Cass Avenue
Argonne, IL 60439
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1. Scope

This document is the Software Version Description (SVD) for the Enhanced Logistics Intratheater Support Tool (ELIST) Database Fill Segment. It contains basic information about the segment.

1.1 Identification

The ELIST Database Fill Segment is one of seven segments that make up the DII COE ELIST mission application. The distributed segment software, data, and documentation are Unclassified.

Table 1 identifies all the segments of the ELIST mission application. In the table, each segment is given a number by which it may be referenced in this document. The table also gives the name, the segment type (and, if a data segment, the segment scope), the current version number, and the directory name assigned to each segment.

<table>
<thead>
<tr>
<th>Segment Number</th>
<th>Segment Name</th>
<th>Segment Type / Scope</th>
<th>Version Number</th>
<th>Directory Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ELIST Global Data Segment</td>
<td>Data / Global</td>
<td>8.1.0.0</td>
<td>ELISTglob</td>
</tr>
<tr>
<td>2</td>
<td>ELIST Database Instance Segment</td>
<td>Data / Segment</td>
<td>8.1.0.0</td>
<td>ELISTdbinst</td>
</tr>
<tr>
<td>3</td>
<td>ELIST Database Fill Segment</td>
<td>Data / Local</td>
<td>8.1.0.0</td>
<td>ELISTdbfill</td>
</tr>
<tr>
<td>4</td>
<td>ELIST Database Segment</td>
<td>Database</td>
<td>8.1.0.0</td>
<td>ELISTdb</td>
</tr>
<tr>
<td>5</td>
<td>ELIST Database Utility Segment</td>
<td>Software</td>
<td>8.1.0.0</td>
<td>ELISTdbutil</td>
</tr>
<tr>
<td>6</td>
<td>ELIST Software Segment</td>
<td>Software</td>
<td>8.1.0.0</td>
<td>ELISTexec</td>
</tr>
<tr>
<td>7</td>
<td>ELIST Reference Data Segment</td>
<td>Data / Local</td>
<td>8.1.0.0</td>
<td>ELISTrefdata</td>
</tr>
</tbody>
</table>

All seven segments have the following identification properties in common:

Segment Prefix¹: ELIST

Platform(s)²: Sun/Solaris 7

DII COE Versions: 4.2.0.0P4 or later

All seven of the ELIST segments must be installed before you can use the ELIST mission application.³

Refer to the Introduction to the Enhanced Logistics Intratheater Support Tool (ELIST) Mission Application and its Segments: Global Data Segment, Database Instance Segment, Database Fill Segment, Database Segment, Database Utility Segment, Software Segment, and Reference Data Segment for the following:

¹ Note carefully that all segments have the same prefix. This is not typical of multisegment DII COE mission applications.
² Implementation of the ELIST segments for PC/Windows NT 4.0 will follow shortly. This documentation covers only the Sun/Solaris 7 platform but will be supplemented or replaced when an implementation becomes available for NT.
³ To save space, however, the ELIST Database Fill Segment can be removed after successfully installing the ELIST Database Segment.
an overview of the mission application and all of its segments in the context of the application;

- considerations applicable to the use of ELIST with classified data;
- the definitions of key concepts and terms used throughout the ELIST documentation;
- a complete list of the available ELIST documentation;
- a brief history of ELIST; and
- basic information pertinent to the client/server configuration and installation of the ELIST segments.

### 1.2 Segment Overview

The purpose of the ELIST Database Fill Segment is to provide data for an initial load of the ELIST database. Because it does not perform segment-specific actions during its installation or removal and provides no scripts or programs to be used at other times, this segment is completely passive. The data are used during the subsequent installation of the ELIST Database Segment. After the successful installation of the latter segment, the ELIST Database Fill Segment can be removed. Removal of this segment frees approximately 25 MB of disk storage.

Individual users can import additional data into the ELIST database after the initial database load when required for particular uses of ELIST. Other users provide the data to be imported by exporting them from the ELIST database (at the same site or a different site). Menu items for performing such imports and exports are provided by the Run ELIST feature of the ELIST Software Segment.

### 1.3 Points of Contact

The development of ELIST was sponsored by the Military Traffic Management Command (MTMC) Transportation Engineering Agency (TEA). ELIST was implemented by MTMCTEA and Argonne National Laboratory (ANL). For administrative and program management support, including the permission that DISA Configuration Management (CM) requires to release the distribution media for the ELIST mission application to prospective users, contact

Doug Barbour, ELIST Project Officer  
MTMCTEA  
720 Thimble Shoals Blvd.  
Suite 130  
Newport News, VA  
23606-0276  
Tel. (757) 599-1663  
Fax (757) 599-1564  
barbourd@tea-emh1.army.mil
For technical support of a segment-specific (i.e., DII COE-related) nature, contact

Kenneth Dritz, DII COE Integrator
Decision and Information Sciences Division
Argonne National Laboratory
9700 S. Cass Ave.
Argonne, IL 60439-4844
Tel. (630) 252-7217
Fax (630) 252-5128
dritz@anl.gov

For technical support of a more general nature (i.e., related to issues of functionality), contact

Charles VanGroningen, ELIST Project Manager
Decision and Information Sciences Division
Argonne National Laboratory
9700 S. Cass Ave.
Argonne, IL 60439-4844
Tel. (630) 252-5308
Fax (630) 252-6073
vang@anl.gov

1.4 Product Information

Product Qualification: Completed in-house testing

Product Restrictions: Releasable to military organizations (like OSD; Joint Staff; EUCOM, CENTCOM, and other CINCs) and perhaps other government organizations with approval of MTMCTEA. Consult Chapter 8 of Army Regulation 5-11 (see citation in Section 2.1.4, below), then contact the ELIST Project Officer at the address given in Section 1.3

Product Dependencies: ELIST Global Data Segment (ELIST) 8.1.0.0 or later
ELIST Database Instance Segment (ELIST) 8.1.0.0 or later
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2. Referenced Documents

The following other documents are referenced in this document.

2.1 Government Documents

2.1.1 DII COE ELIST Documents


2.1.2 Other DII COE Documents

N/A.

2.1.3 Other ELIST Documents

N/A.

2.1.4 Other Government Documents


2.2 Non-Government Documents

N/A.
This page intentionally left blank.
3. **Version Description**

3.1 **Inventory of Materials Released**

**NOTE:** See Section 1.4 for Product (i.e., Releasability) Restrictions.

The ELIST Database Fill Segment for Solaris 7, Version 8.1.0.0, CM Number 10107, 26 February 2002, is distributed in MakeInstall format on two CDs, one externally labeled “Master” and the other “Backup,” and both externally labeled “ELIST Mission Application Software.” The other segments of the ELIST mission application are distributed on the same CDs.

Documentation for the ELIST Database Fill Segment is also distributed on two CDs, one externally labeled “Master” and the other “Backup,” and both externally labeled “ELIST Mission Application Documentation.” Documentation for the other segments of the ELIST mission application is distributed on the same CDs. On these CDs, the documentation pertinent to the ELIST Database Fill Segment can be found in the following directories:

- **ELIST directory**


- **ELISTdbfill directory**
  - *Software Version Description (SVD) for the Enhanced Logistics Intratheater Support Tool (ELIST)* Database Fill Segment Version 8.1.0.0
3.2 Pertinent Documentation

All pertinent documentation is delivered with the segment (see Section 3.1).

3.3 Inventory of Software Contents

The directory structure of the ELIST Database Fill Segment, as distributed, can be inferred from the listing of the FileAttribs descriptor file in Appendix A.7.

The segment is a data segment of local scope. It contains directories and data files used by other segments of the ELIST mission application. There are no executables and no scripts except for the installation and deinstallation scripts.

3.4 Changes Installed

N/A.

3.5 Waivers

See Appendix C.

3.6 Adaptation Data

N/A.

3.7 Installation Instructions

Installation instructions for all the segments of the ELIST mission application can be found in the Installation Procedures (IP) for the Enhanced Logistics Intratheater Support Tool (ELIST) Global Data Segment, Database Instance Segment, Database Fill Segment, Database Segment, Database Utility Segment, Software Segment, and Reference Data Segment.

The computer system resources required by the ELIST Database Fill Segment are as follows:

- RAM required: (none)
- Disk space required: 25184 KB

The figure given above for disk space is for storing the segment directories and files. Data contained in this segment are loaded into the ELIST database during the installation of the ELIST Database Segment, where they occupy part of the approximately 5.125 GB of RDBMS disk space needed by that segment. (See the Installation Procedures (IP) for the Enhanced Logistics Intratheater Support Tool (ELIST) Global Data Segment, Database Instance Segment, Database Fill Segment, Database Segment, Database Utility Segment, Software Segment, and Reference Data Segment for further information.) After successful installation of the ELIST Database Segment, the ELIST Database Fill Segment may be deinstalled, after which it will no longer require the disk space given above.
There are no “features” of the ELIST Database Segment that can be executed after installation; all the processing involved in the creation of a database takes place during installation, under the control of the PostInstall script. Scripts for creating and managing ELIST database user accounts are provided as features of the ELIST Database Utility Segment.

### 3.8 Possible Problems and Known Errors

There were no known problems or errors when this document was prepared.
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4. Notes

The ELIST Database Fill Segment must be installed on a platform configured as a database server. In the current implementation, that platform must be a Sun workstation. Installation of the ELIST Database Fill Segment requires that both the ELIST Global Data Segment (ELIST) and ELIST Database Instance Segment (ELIST) be resident on the same platform. The prerequisites for those segments, in turn, are documented in their SVDs. Further information on system configuration can be found in the Installation Procedures (IP) for the Enhanced Logistics Intratheater Support Tool (ELIST) Global Data Segment, Database Instance Segment, Database Fill Segment, Database Segment, Database Utility Segment, Software Segment, and Reference Data Segment.

The following acronyms are (or may be) used in this document.

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANL</td>
<td>Argonne National Laboratory</td>
</tr>
<tr>
<td>CD</td>
<td>Compact Disk</td>
</tr>
<tr>
<td>CENTCOM</td>
<td>Central Command</td>
</tr>
<tr>
<td>CINC</td>
<td>Combined Intelligence Center (as used in this document)</td>
</tr>
<tr>
<td>CM</td>
<td>Configuration Management</td>
</tr>
<tr>
<td>COE</td>
<td>Common Operating Environment</td>
</tr>
<tr>
<td>DB</td>
<td>Database</td>
</tr>
<tr>
<td>DBA</td>
<td>Database Administrator</td>
</tr>
<tr>
<td>DII</td>
<td>Defense Information Infrastructure</td>
</tr>
<tr>
<td>DISA</td>
<td>Defense Information Systems Agency</td>
</tr>
<tr>
<td>DSN</td>
<td>Defense Switched Network</td>
</tr>
<tr>
<td>ELIST</td>
<td>Enhanced Logistics Intratheater Support Tool (DII COE segment prefix)</td>
</tr>
<tr>
<td>ETEdit</td>
<td>ETPFDD Editor</td>
</tr>
<tr>
<td>ETPFDD</td>
<td>Expanded Time Phased Force Deployment Data</td>
</tr>
<tr>
<td>EUCOM</td>
<td>European Command</td>
</tr>
<tr>
<td>GB</td>
<td>Gigabyte(s)</td>
</tr>
<tr>
<td>HQ</td>
<td>Headquarters</td>
</tr>
<tr>
<td>IP</td>
<td>Installation Procedures</td>
</tr>
<tr>
<td>I&amp;RTS</td>
<td>Integration and Runtime Specification</td>
</tr>
<tr>
<td>LAN</td>
<td>Local Area Network</td>
</tr>
<tr>
<td>KB</td>
<td>Kilobyte(s)</td>
</tr>
<tr>
<td>MB</td>
<td>Megabyte(s)</td>
</tr>
<tr>
<td>MTMC</td>
<td>Military Traffic Management Command</td>
</tr>
<tr>
<td>N/A</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>NFS</td>
<td>Network File System</td>
</tr>
<tr>
<td>NT</td>
<td>New Technology (an Operating System for Microsoft Windows)</td>
</tr>
<tr>
<td>OSD</td>
<td>Office of the Secretary of Defense</td>
</tr>
<tr>
<td>PC</td>
<td>Personal Computer</td>
</tr>
<tr>
<td>POC</td>
<td>Point of Contact</td>
</tr>
<tr>
<td>RDBMS</td>
<td>Relational Database Management System</td>
</tr>
<tr>
<td>RAM</td>
<td>Random Access Memory</td>
</tr>
<tr>
<td>STD</td>
<td>Software Test Description</td>
</tr>
</tbody>
</table>
STP  Software Test Plan
STR  Software Test Report
SVD  Software Version Description
TEA  Transportation Engineering Agency
5. **Acknowledgements**

Argonne National Laboratory is a Federally Funded Research and Development Center operated by The University of Chicago under contract W-31-109-ENG for the United States Department of Energy.

The development of ELIST and the preparation of this document were supported by funding from the Military Traffic Management Command Transportation Engineering Agency of the United States Army.
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6. Documentation Improvement and Feedback

Comments and other feedback on this document should be directed to:

Phone: (630) 252-7217
Fax: (630) 252-5128
Email: dritz@anl.gov
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Appendix A. Contents of the Descriptor Files in the SegDescrip Directory

The contents of the descriptor files in the SegDescrip directory are reproduced in this appendix.

A.1 SegName File

# SegName descriptor file for the ELIST Database Fill Segment
# Segment Prefix: ELIST
# Segment Directory: ELISTdbfill

$TYPE:DATA
$NAME:ELIST Database Fill Segment
$PREFIX:ELIST
$SEGMENT:COE Component Parent:COE:/h/COE

# Note: The preceding line is needed ONLY to satisfy VerifySeg. It will be
# removed when VerifySeg no longer requires Data segments to name an affected
# segment. The installation of this segment does not change COE in any way.

# END OF FILE

A.2 SegInfo File

# This is the SegInfo file for the ELIST Database Fill Segment.

[Data]
$LOCAL:COE Component Parent:COE:/h/COE

# Note: The information after the $LOCAL keyword in the previous line is
# gratuitous. It is needed only to satisfy VerifySeg and does not provide any
# essential information. COE is not changed in any way by the installation
# of this segment. If the need for this information is dropped in the future,
# this descriptor will be simplified.

[Security]
UNCLASS

[Hardware]
$CPU:SPARC
$DISK:25184:1
$OPSYS:SOL
$MEMORY:0

[Requires]
ELIST Global Data Segment:ELIST:/h/ELISTglob:8.1.0.0
ELIST Database Instance Segment:ELIST:/h/ELISTdbinst:8.1.0.0

# Note: The dependencies on the ELIST Global Data Segment and the ELIST
# Database Instance Segment are made explicit above only for documentation
# purposes. This segment does not directly reference anything in those two
# segments. The dependency does impose a useful installation order, however.

# END OF FILE

A.3 VERSION File

# This is the VERSION descriptor for the ELIST Database Fill Segment.
8.1.0.0 : 01/07/2002 : 10:41

# END OF FILE
**A.4 ReleaseNotes File**

This is the ReleaseNotes file for the ELIST Database Fill Segment.

The purpose of this segment is to provide two .dmp files (created by an Oracle "export") for another segment, the ELIST Database Segment, to use when that segment is installed. (The ELIST Database Segment creates the ELIST database during its installation; one of the steps of that process is to load the database with initial data.) These two .dmp files are contained here, in a separate segment, rather than being part of the ELIST Database Segment, so that the storage they occupy, approximately 25 MB, can be freed up (by deinstalling this segment) after the initial data load.

This segment has no PostInstall script and has only an empty DEINSTALL script. It is a completely "passive" segment.

This segment must be installed on the Database Server platform on which the ELIST Global Data Segment and the ELIST Database Instance Segment have already been installed and on which the ELIST Database Segment and the ELIST Database Utility Segment will subsequently be installed. That machine is the one on which the Oracle RDBMS (ORAS) is also installed.

After the ELIST Database Segment is installed, this segment may be deinstalled. A subsequent reinstallation of the ELIST Database Segment will require this segment to be reinstalled first.

END OF FILE

**A.5 PostInstall File**

N/A.

**A.6 DEINSTALL File**

#!/bin/sh

# This is the DEINSTALL script for the ELIST Database Fill Segment.
# It has nothing to do and is provided only to make this segment removable.

exit 0

# END OF FILE

**A.7 FileAttribs File**

# This is the FileAttribs descriptor for the ELIST Database Fill Segment.

$SegDir:750:418:419
$ExternalData:750:418:419
750:418:419:SegDescrip
750:418:419:SegDescrip/DEINSTALL
640:418:419:SegDescrip/FileAttribs
640:418:419:SegDescrip/ReleaseNotes
640:418:419:SegDescrip/SegInfo
640:418:419:SegDescrip/SegName
640:418:419:SegDescrip/VERSION
640:418:419:SegDescrip/Validated
750:418:419:data
data/elist.dmp
data/etpfdd.dmp
750:418:419:Integ
Integ/IntgNotes
Integ/VSOutput

# END OF FILE
Appendix B. Contents of the Files in the Integ Directory

The contents of the files in the Integ directory are reproduced in this appendix.

B.1 IntgNotes File

This is the IntgNotes file for the ELIST Database Fill Segment.

This submission Version 8.1.0.0 is the initial submission of the segment.

The ELIST Database Fill Segment is part of the ELIST mission application. There are six other segments. All seven segments have the same segment prefix (ELIST).

This segment provides data for an initial database load, which is performed when the ELIST Database Segment is installed. After the installation of that latter segment, this segment may be deinstalled to save space.

Refer to the "Introduction to the Enhanced Logistics Intratheater Support Tool (ELIST) Mission Application and its Segments: Global Data Segment, Database Instance Segment, Database Fill Segment, Database Segment, Database Utility Segment, Software Segment, and Reference Data Segment" for the following:

+ an overview of the mission application and all of its segments in the context of the application;
+ the definitions of key concepts and terms used throughout the ELIST documentation;
+ a complete list of the available ELIST documentation;
+ a brief history of ELIST; and
+ basic information pertinent to the client/server configuration and installation of the ELIST segments.

END OF FILE

B.2 Annotated VSOutput File

Results of verification:
"./ELISTdbfill":
  Totals
  ------
   Errors:  0
   Warnings:  0
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### Appendix C. Chief Engineer Permissions and Waivers Requested

#### Chief Engineer Permission Request

<table>
<thead>
<tr>
<th>SEGMENT DESIGNATION:</th>
<th>ELIST Database Fill Segment (ELIST)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM Number:</td>
<td>10107</td>
</tr>
<tr>
<td>OPERATING SYSTEM:</td>
<td>Solaris 7</td>
</tr>
<tr>
<td>MISSION APPLICATION NAME:</td>
<td>Enhanced Logistics Intratheater Support Tool</td>
</tr>
<tr>
<td>TECHNICAL POC:</td>
<td>Kenneth W. Dritz</td>
</tr>
<tr>
<td></td>
<td>Decision and Information Sciences Division</td>
</tr>
<tr>
<td></td>
<td>Argonne National Laboratory</td>
</tr>
<tr>
<td></td>
<td>9700 S. Cass Ave.</td>
</tr>
<tr>
<td></td>
<td>Argonne, IL 60439</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:dritz@anl.gov">dritz@anl.gov</a></td>
</tr>
</tbody>
</table>

**APPROVAL REQUESTED FROM:** GCSS Chief Engineer

**CHECKLIST ITEM:** 6-8, Standards Compliance section, “The segment is available on all COE-supported platforms unless otherwise approved by the Chief Engineer.”

**APPROVAL REQUESTED:** To provide this segment only for the Sun/Solaris 7 and PC/NT (or Win2K) platforms. At the present time, only the Solaris 7 version has been registered and implemented, but the Windows version will be registered and implemented in the near future.

**RATIONALE:** The sponsor, MTMC-TEA, only requires the ELIST mission application to operate on these platforms.

26 February 2002
Documentation Waiver Request

SEGMENT DESIGNATION: ELIST Database Fill Segment (ELIST)
CM Number: 10107
OPERATING SYSTEM: Solaris 7
MISSION APPLICATION NAME: Enhanced Logistics Intratheater Support Tool
TECHNICAL POC: Kenneth W. Dritz
Decision and Information Sciences Division
Argonne National Laboratory
9700 S. Cass Ave.
Argonne, IL 60439
dritz@anl.gov

DOCUMENTATION AFFECTED: Installation Procedures (IP)
REQUEST: To combine the Installation Procedures (IP) document for this segment with those of the other ELIST segments.

RATIONALE: The installation and deinstallation of this segment are intimately related to those of the other six segments of the ELIST mission application, and all seven segments must be installed to use the features of ELIST. Certain steps must be taken, and certain choices considered, to prepare for the installation of these segments, and certain special requirements come into play between the installation of individual segments or when segments are deinstalled and replaced with later versions. For all these reasons, as well as to allow installation guidelines common to all the segments to be expressed in one place and to allow for helpful cross-referencing between the installation (or deinstallation) instructions of one segment and those of another, the roles and functions of the IP documents normally associated with the seven segments individually have been combined into a single IP document. All the information that would have been provided in seven separate IP documents is available in this one document. There are clearly identified sections for each segment. This organization of the material is believed to be uncommonly helpful to the end user (the installer).

MITIGATION STRATEGY: Because much would be lost by conforming rigidly to the one-IP-per-segment expectation, there are no plans to do so.
Documentation Waiver Request

SEGMENT DESIGNATION: ELIST Database Fill Segment (ELIST)
CM Number: 10107
OPERATING SYSTEM: Solaris 7
MISSION APPLICATION NAME: Enhanced Logistics Intratheater Support Tool
TECHNICAL POC: Kenneth W. Dritz
Decision and Information Sciences Division
Argonne National Laboratory
9700 S. Cass Ave.
Argonne, IL 60439
dritz@anl.gov

DOCUMENTATION: Software Test Plan (STP), Software Test Description (STD), and Software Test Report (STR)

REQUEST: To combine the Software Test Plan (STP), Software Test Description (STD), and Software Test Report (STR) documents for this segment into a single combined Software Test Plan/Description/Report (STP/STD/STR) document, and furthermore to combine the STP/STD/STR document for this segment with those of the other ELIST segments.

RATIONALE: Several of the ELIST segments are passive (data) segments for which the only appropriate test is the verification that the segment appears in the Segment Installer’s list of currently installed segments after installation. The installation and deinstallation testing of other segments involves verification that PostInstall and DEINSTALL behave as anticipated when interacting with the system administrator. Functional testing of the two software segments benefits from a carefully orchestrated order of testing, so that verified features can be used to verify other features. For all these reasons, and because there is really only one Software Test Plan for the entire ELIST mission application, it makes eminent sense to combine several manuals as described in the Request. All the information that would have been presented in separate documents is available in the combined document, with a minimum of repetition. This organization recognizes the essential unity of the ELIST mission application and the uselessness of individual ELIST segments except in the context of the mission application as a whole.

MITIGATION STRATEGY: It is not practical or useful to conform to the rigid document guidelines concerning the STP/STD/STR documents, and there are no plans to do so.

26 February 2002
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