

ELISTdbutil.8100.Final.SOL7.SVD

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

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

26 February 2002

Prepared for:

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1. Scope

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

1.1 Identification

The ELIST Database Utility 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 1. Segments of the ELIST Mission Application

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

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.

³To 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 ELIST Database Utility Segment contains scripts that allow administrative ELIST users to perform normal maintenance on ELIST database user accounts. These scripts, which represent the executable features of the segment, are launched in the standard way for software segments, *i.e.*, from a desktop icon. The administrative functions supported by the segment correspond to the following feature names:

- **Create User Account**
- **Remove User Account**
- **List User Accounts**
- **Lock User Account**
- **Unlock User Account**
- **Change User Password**

The scripts, which can be executed at any time after the installation and initialization of the segment, prompt the administrative ELIST user for the `SYSTEM` password of the ELIST database instance. When creating an ELIST database user account, an administrative ELIST user selects a password for the account.⁴

Instructions for using these features can be found in the *User's Manual (UM) for the Enhanced Logistics Intratheater Support Tool (ELIST) Database Utility 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 MTMC/TEA and Argonne National Laboratory (ANL). For administrative and program management support,

⁴ Each general ELIST user is prompted for his/her own database account password when the **Run ELIST** or **Run ETEdit** features of the ELIST Software Segment are invoked.

including the permission that DISA Configuration Management (CM) requires to release the distribution media for the ELIST mission application to prospective users, contact

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For technical support of a segment-specific (*i.e.*, DII COE-related) nature, contact

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

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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:** ORACLE RDBMS (ORAS) 2.1.0.0/8.1.6.1 or later
Database Administrator Server (DBAdmS) 3.0.2.0 or later
ELIST Global Data Segment (ELIST) 8.1.0.0 or later
ELIST Database Instance Segment (ELIST) 8.1.0.0 or later
ELIST Database Segment (ELIST) 8.1.0.0 or later

2. Referenced Documents

The following other documents are referenced in this document.

2.1 Government Documents

2.1.1 DII COE ELIST Documents

Introduction to the Enhanced Logistics Intratheater Support Tool (ELIST) Mission Application and its Segments: Global Data Segment Version 8.1.0.0, Database Instance Segment Version 8.1.0.0, Database Fill Segment Version 8.1.0.0, Database Segment Version 8.1.0.0, Database Utility Segment Version 8.1.0.0, Software Segment Version 8.1.0.0, and Reference Data Segment Version 8.1.0.0 for Solaris 7, ELIST.8100.Final.SOL7.Intro, Argonne National Laboratory, 26 February 2002

User's Manual (UM) for the Enhanced Logistics Intratheater Support Tool (ELIST) Database Utility Segment Version 8.1.0.0 for Solaris 7, ELISTdbutil.8100.Final.SOL7.UM, Argonne National Laboratory, 26 February 2002

Installation Procedures (IP) for the Enhanced Logistics Intratheater Support Tool (ELIST) Global Data Segment Version 8.1.0.0, Database Instance Segment Version 8.1.0.0, Database Fill Segment Version 8.1.0.0, Database Segment Version 8.1.0.0, Database Utility Segment Version 8.1.0.0, Software Segment Version 8.1.0.0, and Reference Data Segment Version 8.1.0.0 for Solaris 7, ELIST.8100.Final.SOL7.IP, Argonne National Laboratory, 26 February 2002

Software Test Plan/Description/Report (STP_STD_STR) for the Enhanced Logistics Intratheater Support Tool (ELIST) Global Data Segment Version 8.1.0.0, Database Instance Segment Version 8.1.0.0, Database Fill Segment Version 8.1.0.0, Database Segment Version 8.1.0.0, Database Utility Segment Version 8.1.0.0, Software Segment Version 8.1.0.0, and Reference Data Segment Version 8.1.0.0 for Solaris 7, ELIST.8100.Final.SOL7.STP_STD_STR, Argonne National Laboratory, 26 February 2002

2.1.2 Other DII COE Documents

N/A.

2.1.3 Other ELIST Documents

N/A.

2.1.4 Other Government Documents

Army Regulation 5-11, *Management of Army Models and Simulations*, Army HQ, Washington DC, 10 July 1997. Available on the World Wide Web at <http://www.amso.army.mil/ar5-11>. POC: Debra Ridgeway, Army Model Simulation Office, DSN 329-0012 ext. 24, comm. (703) 601-0012 ext. 24, email debra.ridgeway@hqda.army.mil

2.2 Non-Government Documents

N/A.

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3. Version Description

3.1 Inventory of Materials Released

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

The ELIST Database Utility Segment for Solaris 7, Version 8.1.0.0, CM Number 10456, 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 Utility 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 Utility Segment can be found in the following directories:

- ELIST directory
 - *Introduction to the Enhanced Logistics Intratheater Support Tool (ELIST) Mission Application and its Segments: Global Data Segment Version 8.1.0.0, Database Instance Segment Version 8.1.0.0, Database Fill Segment Version 8.1.0.0, Database Segment Version 8.1.0.0, Database Utility Segment Version 8.1.0.0, Software Segment Version 8.1.0.0, and Reference Data Segment Version 8.1.0.0 for Solaris 7*, ELIST.8100.Final.SOL7.Intro, Argonne National Laboratory, 26 February 2002
 - *Installation Procedures (IP) for the Enhanced Logistics Intratheater Support Tool (ELIST) Global Data Segment Version 8.1.0.0, Database Instance Segment Version 8.1.0.0, Database Fill Segment Version 8.1.0.0, Database Segment Version 8.1.0.0, Database Utility Segment Version 8.1.0.0, Software Segment Version 8.1.0.0, and Reference Data Segment Version 8.1.0.0 for Solaris 7*, ELIST.8100.Final.SOL7.IP, Argonne National Laboratory, 26 February 2002
 - *Software Test Plan/Description/Report (STP_STD_STR) for the Enhanced Logistics Intratheater Support Tool (ELIST) Global Data Segment Version 8.1.0.0, Database Instance Segment Version 8.1.0.0, Database Fill Segment Version 8.1.0.0, Database Segment Version 8.1.0.0, Database Utility Segment Version 8.1.0.0, Software Segment Version 8.1.0.0, and Reference Data Segment Version 8.1.0.0 for Solaris 7*, ELIST.8100.Final.SOL7.STP_STD_STR, Argonne National Laboratory, 26 February 2002
- ELISTdbutil directory
 - *Software Version Description (SVD) for the Enhanced Logistics Intratheater Support Tool (ELIST) Database Utility Segment Version*

8.1.0.0 for Solaris 7, ELISTdbutil.8100.Final.SOL7.SVD, Argonne National Laboratory, 26 February 2002

- *User's Manual (UM) for the Enhanced Logistics Intratheater Support Tool (ELIST) Database Utility Segment Version 8.1.0.0 for Solaris 7, ELISTdbutil.8100.Final.SOL7.UM, Argonne National Laboratory, 26 February 2002*

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 Utility Segment, as distributed, can be inferred from the listing of the `FileAttribs` descriptor file in Appendix A.7.

The segment is a software segment. Besides the installation and deinstallation scripts, it contains scripts for the six administrative functions listed in Section 1.2, which are the executable features of the segment. It also contains the SQL scripts necessary to support those features.

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 Utility Segment are as follows:

- RAM required: 20 MB⁵
- Disk space required: 67 KB

3.8 Possible Problems and Known Errors

There were no known errors when this document was prepared.

⁵ Nominal requirement for the kernel and RDBMS tools invoked by the scripts of this segment.

The following possible problem is known to exist:

- The lack of a mechanism in the ELIST Database Utility Segment for resetting the `data/Logs/ELISTdbutil/Maintenance_Log` file of the ELIST Global Data Segment when it grows to a large size, together with the protection against unauthorized alteration or deletion of files or directories in the ELIST mission application, means that extraordinary measures are currently required to reset this log file should its growth cause the `/h/data/global` partition to fill up.

This problem will be solved in a future release by providing a new feature in the ELIST Database Utility Segment to reset the log file that it writes. Until then, an administrator must log in as `root`, edit the log file, delete its contents, and then save it in place. (Do *not* simply delete and reallocate the file, or it will acquire the wrong ownership.) Fortunately, the probability that the `/h/data/global` partition will fill up is low, especially in view of the fact that the `$DISK` descriptor of the ELIST Global Data Segment ensures that a reasonable amount of space for expansion is present in that partition when the segment is installed.

The following improvement is planned for a future release:

- The implementation of the **Change User Password** feature will be changed to allow a general ELIST user to change his/her own ELIST database account password. Currently, an administrative ELIST user must make the change for the general ELIST user. The current capability will also be retained.

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4. Notes

The ELIST Database Utility 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 Utility Segment requires the Database Administrator Server (DBAdmS) segment, the ORACLE RDBMS (ORAS) segment, the ELIST Global Data Segment (ELIST), the ELIST Database Instance Segment (ELIST), and the ELIST Database Segment (ELIST) to 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.

Acronym	Definition
ANL	Argonne National Laboratory
CD	Compact Disk
CENTCOM	Central Command
CINC	Combined Intelligence Center (as used in this document)
CM	Configuration Management
COE	Common Operating Environment
DB	Database
DBA	Database Administrator
DBAdmS	Database Administrator Server (DII COE segment prefix)
DII	Defense Information Infrastructure
DISA	Defense Information Systems Agency
DSN	Defense Switched Network
ELIST	Enhanced Logistics Intratheater Support Tool (DII COE segment prefix)
ETEdit	ETPFDD Editor
ETPFDD	Expanded Time Phased Force Deployment Data
EUCOM	European Command
GB	Gigabyte(s)
HQ	Headquarters
IP	Installation Procedures
I&RTS	Integration and Runtime Specification
LAN	Local Area Network
KB	Kilobyte(s)
MB	Megabyte(s)
MTMC	Military Traffic Management Command
N/A	Not Applicable
NFS	Network File System
NT	New Technology (an Operating System for Microsoft Windows)
ORAS	ORACLE RDBMS (DII COE segment prefix)
OSD	Office of the Secretary of Defense
PC	Personal Computer
POC	Point of Contact

RDBMS	Relational Database Management System
RAM	Random Access Memory
SQL	Structured Query Language
STD	Software Test Description
STP	Software Test Plan
STR	Software Test Report
SVD	Software Version Description
TEA	Transportation Engineering Agency
UM	User's Manual

5. Acknowledgements

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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:

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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 Utility Segment
# Segment Prefix: ELIST
# Segment Directory: ELISTdbutil
#####

$TYPE:SOFTWARE
$NAME:ELIST Database Utility Segment
$PREFIX:ELIST

# END OF FILE
```

A.2 SegInfo File

```
# This is the SegInfo file for the ELIST Database Utility Segment.

[Security]
UNCLASS

[Hardware]
$CPU:SPARC
$DISK:67:1
$OPSYS:SOL
$MEMORY:20000

[Requires]
ELIST Global Data Segment:ELIST:/h/ELISTglob:8.1.0.0
ELIST Database Instance Segment:ELIST:/h/ELISTdbinst:8.1.0.0
ELIST Database Segment:ELIST:/h/ELISTdb:8.1.0.0
ORACLE RDBMS:ORAS:/h/COTS/ORAS:2.1.0.0/8.1.6.1
Database Administrator Server:DBAdmS:/h/DBAdmS:3.0.2.0

[Direct]
$ROOT:PostInstall

# The above is needed only to add SUID to particular scripts (see comment in
# FileAttribs). They comply with Rqmt. 5-14 because the UID of the scripts is
# not root; furthermore, they are secure because the UID is a non-login account
# (elistown) and nobody has write permission on them.

[Icons]
ELISTdbutilIcons

[FilesList]
$PATH:/h/data/global/ELISTglob/data
$FILES
# This segment reads the following file to determine the SID of the ELIST
# database instance:
Instance_Info
# This segment writes into the following log file during the execution of its
# features:
Logs/ELISTdbutil/Maintenance_Log
$PATH:$DATA_DIR/global/DBAdmS
$FILES
# This segment reads the following file to find Oracle's bin directory:
etc/DBAServerStatus
$PATH:/h/DBAdmS
$FILES
```

```

# This segment directly invokes the following public APIs of DBAdmS:
bin/DBAdmSStartServer
bin/DBAdmSPromptPassword
# The following Oracle files and directories are those used or modified during
# the execution of this segment's features:
$PATH:/var/opt/oracle
$FILES
  oratab
  listener.ora
  tnsnames.ora
$PATH:/etc
$FILES
  init.d/dbora
  rc2.d/S99dbora
  rc0.d/K01dbora
$PATH:/
$DIRS
  ora01
  ora02
  ora03
  ora04
  ora01/oradata
  ora02/oradata
  ora03/oradata
  ora04/oradata
  ora01/app/oracle/admin
  ora01/app/oracle/oradba
  ora01/app/oracle/product/8.1.6/dbs
  ora01/app/oracle/product/8.1.6/rdbms/log
$PATH:/ora01/app/oracle/product/8.1.6
$FILES
# This segment directly invokes the following ORACLE vendor tools:
  bin/sqlplus

# END OF FILE

```

A.3 VERSION File

```

# This is the VERSION descriptor for the ELIST Database Utility 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 Utility Segment.

The purpose of this segment is to provide executable features for use by a DBA for the purpose of administering ELIST database user accounts. The available features are:

```

  Create User Account
  Remove User Account
  Lock User Account
  Unlock User Account
  Change User Password, and
  List User Accounts.

```

In Unix, all of the executable features are launched by double-clicking on the associated icon in this segment's folder underneath the DII_APPS folder of the CDE desktop Application Manager.

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

The features of this segment are only executable by members of the elistadm group. The person executing those features must be prepared to reply to a prompt for the password that was previously assigned to the SYSTEM user of the

ELIST database instance. Communication with the sysadmin user (who is not a member of the elistadm group) might be necessary to ascertain that password, since it was assigned by that user.

Each executable feature of this segment spools its results to a cumulative log, which is the file Logs/ELISTdbutil/Maintenance_Log in the data subdirectory of the ELIST Global Data Segment. The home directory of that segment is normally /h/ELISTglob. There is currently no way to reset that file to an empty state, which might be needed if it grows too big, but that capability will be added in the near future.

END OF FILE

A.5 PostInstall File

```
#!/bin/sh

# This is the PostInstall script for the ELIST Database Utility Segment.

# It must run as root, and it is needed only to add the SUID bit to the
# scripts named below.

chmod 4550 $INSTALL_DIR/install/Change_User
chmod 4550 $INSTALL_DIR/install/Create_User
chmod 4550 $INSTALL_DIR/install/List_User
chmod 4550 $INSTALL_DIR/install/Lock_User
chmod 4550 $INSTALL_DIR/install/Remove_User
chmod 4550 $INSTALL_DIR/install/Unlock_User

exit 0

# END OF FILE
```

A.6 DEINSTALL File

```
#!/bin/sh

# This is the DEINSTALL script for the ELIST Database Utility Segment. It has
# nothing to do.

exit 0

# END OF FILE
```

A.7 FileAttribs File

```
# This is the FileAttribs descriptor for the ELIST Database Utility Segment.

$SegDir:750:418:419
750:418:419:SegDescrip
750:418:419:SegDescrip/DEINSTALL
640:418:419:SegDescrip/FileAttribs
750:418:419:SegDescrip/PostInstall
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:Integ
640:418:419:Integ/IntgNotes
640:418:419:Integ/VSOutput
750:418:419:install
# PostInstall turns on the SUID bit for the following six scripts.
550:418:420:install/Create_User
550:418:420:install/Remove_User
550:418:420:install/Lock_User
550:418:420:install/Unlock_User
550:418:420:install/Change_User
550:418:420:install/List_User
```

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```
550:418:419:install/sql
440:418:420:install/sql/alter_user.sql
440:418:420:install/sql/assign_user_grants.sql
440:418:420:install/sql/create_user.sql
440:418:420:install/sql/drop_user.sql
440:418:420:install/sql/lock_user.sql
440:418:420:install/sql/make_elist_synonyms.sql
440:418:420:install/sql/make_etpfdd_synonyms.sql
440:418:420:install/sql/make_target_synonyms.sql
440:418:420:install/sql/revoke_user_grants.sql
440:418:420:install/sql/unlock_user.sql
440:418:420:install/sql/list_users1.sql
440:418:420:install/sql/list_users2.sql
550:418:419:install/User_DB_Defn_Scripts
550:418:420:install/User_DB_Defn_Scripts/Owner_Scripts
550:418:420:install/User_DB_Defn_Scripts/Role_Scripts
550:418:420:install/User_DB_Defn_Scripts/User_Scripts
750:418:419:data
750:418:419:data/Icons
640:418:419:data/Icons/ELISTdbutilIcons
640:418:419:data/Icons/createuser.xpm
640:418:419:data/Icons/removeuser.xpm
640:418:419:data/Icons/disableuser.xpm
640:418:419:data/Icons/reenableuser.xpm
640:418:419:data/Icons/changepassword.xpm
640:418:419:data/Icons/listusers.xpm
750:418:419:bin
750:418:419:bin/ELIST_Launch_DB_User_Maint

# 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 Utility Segment.

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

The ELIST Database Utility 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 six "features" for creating and managing user accounts in the ELIST database. They are executable by administrative ELIST users.

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

```
(W)-----|
Directory './ELISTdbutil/Scripts' was expected but not found.
This may be an error or indicate a violation of the COE.
```

***** Explanation:

This segment does not need a Scripts directory. The I&RTS indicates it is being deprecated.

```
Results of verification:
"./ELISTdbutil":
Totals
-----
Errors:    0
Warnings:  1
```

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Appendix C. Chief Engineer Permissions and Waivers Requested

Chief Engineer Permission Request

SEGMENT DESIGNATION: ELIST Database Utility Segment (ELIST)
CM Number: 10456
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

APPROVAL REQUESTED FROM: GCSS Chief Engineer
CHECKLIST ITEM: 5-7, Security Services section, “(UNIX) If privileged user permissions are required during segment installation or removal, the Chief Engineer has granted prior approval.”

APPROVAL REQUESTED: To use the \$ROOT keyword for this segment’s PostInstall script.

RATIONALE: See the Rationale for the Permission Request associated with checklist item 6-53 for this segment.

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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.

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APPROVAL REQUESTED FROM: GCSS Chief Engineer
CHECKLIST ITEM: 6-53, Segment Descriptors section, "If any files need special permission/ownership settings, they are established through the `FileAttribs` descriptor if the descriptor supports the required setting. Exceptions to this are documented and approved by the Chief Engineer."
APPROVAL REQUESTED: To use a mechanism other than `FileAttribs` to establish a permission setting, because `FileAttribs` does not support setting of the required permission. The setting is established in `PostInstall`.
RATIONALE: During the execution of the scripts representing the run-time features of this segment, spool output from SQL*Plus (in the ORACLE RDBMS (ORAS) segment) is written into files of the ELIST Global Data Segment. These files are owned by the `elistown(418)` file owner account registered by the ELIST segments, and they are writeable only by the owner. (Those two provisions are essential elements in the strategy for implementing Requirement 7-2.) The preferred mechanism for obtaining write access to such files is for the writing to be performed by SUID scripts owned by the file owner account and executable by the appropriate group (which does not, itself, have permission to write into the files). The scripts representing the run-time features of this segment use SUID in exactly this way. As is well known and well documented, the `FileAttribs` descriptor is not able to support the establishment of SUID permissions, which must therefore be set in `PostInstall`; furthermore, `PostInstall` must run as `root` because the UID under which it otherwise would run is not that of the script files whose permission it has to change, i.e., that of the file owner account. If the Segment Installer were to

be changed to do a `setuid` to the UID of `PostInstall` (which in the case of this segment is already that of the file owner account), it would be possible to drop both this Permission Request and the one associated with checklist item 5-7 for this segment.

Documentation Waiver Request

SEGMENT DESIGNATION: ELIST Global Data Segment (ELIST)
CM Number: 10455
OPERATING SYSTEM: Solaris 7
MISSION APPLICATION NAME: Enhanced Logistics Intratheater Support Tool
TECHNICAL POC: Kenneth W. Dritz
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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

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DOCUMENTATION AFFECTED: 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.