

# StorageTek Enterprise Library Software

## Release Notes



Release 7.2 For MVS

F27734-01

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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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StorageTek Enterprise Library Software Release Notes, Release 7.2 For MVS

F27734-01

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# Preface

This publication provides release guidelines and requirements for StorageTek Enterprise Library Software (ELS) Release 7.2 for MVS. It also provides updates and enhancements to the original product documentation.

When applicable, use the procedures and information in this guide in place of the original documentation. Any applicable references to the original documentation are provided.

## Documentation Accessibility

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# 1

## Product Guidelines and Installation Requirements

This section provides product guidelines and installation requirements for Enterprise Library Software (ELS) release 7.2 for MVS.

- [Product Highlights](#)
- [Product Documentation](#)
- [Installation Notes](#)
- [Coexistence with Previous Releases](#)

### Product Highlights

This section highlights key features introduced in ELS 7.2.

#### Note:

- For a complete list of ELS 7.2 features, refer to the publication *Introducing ELS 7.2*.
- ELS 7.1 Software Product Enhancements (SPEs) are included as base features in ELS 7.2. For a list of these enhancements, refer to the latest version of the publication *Introducing ELS 7.1*.
- Complete instructions for installing the various ELS components is provided in the publication *Installing ELS*. Refer to the latest version of this publication.

#### Report Flat File Support

ELS 7.2 no longer provides the ability to produce flat file output from the volume, VTV, MVC or VTSS reports. Refer to ELS commands, utilities, and control statements for information about requesting Comma Separated Values (CSV) to produce file output from these report programs. The ELS Programming Reference also contains details of the CSV specification. Also see ELS `SAMPLIB` members `MVCRPT`, `VOLRPT`, and `VTVRPT` for sample jobs that request all possible data in the CSV output.

#### Journaling Support

ELS 7.2 no longer supports journaling. If you are currently using the journaling option, please review the CDS logging feature and other CDS recovery procedures to ensure that you can recover your CDS if necessary.

## SMC Command and Utility Support

SMC 7.2 no longer accepts any commands or parameters that were previously associated with the following message:

```
SMC0048  Support ending for CCCCCC1, change to CCCCCC2
```

This includes SMC `LIBRARY` commands, SMC commands with the `LIBRARY` parameter, and SMC `TCPIP` commands with the `MONITOR` parameter.

## Product Documentation

ELS product documentation for Oracle's StorageTek SMC, HSC, VTCS, and CDRT software is organized in a single documentation set:

- *Introducing ELS*
- *Installing ELS*
- *ELS Command, Control Statement, and Utility Reference*
- *ELS Syntax Quick Reference*
- *ELS Messages and Codes*
- *ELS Programming Reference*
- *ELS Legacy Interfaces Reference*
- *Configuring HSC and VTCS*
- *Managing HSC and VTCS*
- *Configuring and Managing SMC*
- *ELS Disaster Recovery and Offsite Data Management Guide*

These publications are available for download via the [Oracle Help Center](#).

## Installation Notes

This section provides pre-installation considerations and installation requirements.

### Pre-Installation Considerations

Before installing ELS 7.2, consider the following:

- SMC, HSC, VTCS, and CDRT share a common load library, `SEALINK`.
- The ELS installation tape, CD-ROM, and zip file include a `CHGIT REXX` exec used to simplify customization of ELS installation sample members according to your requirements.
- Complete instructions for installing the various ELS components is provided in the publication *Installing ELS*. Please refer to the latest version of this publication.
- Upon completion of the `APPLY/ACCEPT` of the FMIDs, ensure that you receive the latest `HOLDDATA` and `RECEIVE` and `APPLY` the latest PTFs. Follow your own internal guidelines regarding the `SMP/E ACCEPT` of the PTFs.



- It is strongly recommended to use GROUPEXTEND on all SMP/E APPLY steps.

### Installation Materials

This package includes installation media or a downloaded zip file containing the ELS 7.2 base software.

As part of installation, you must obtain the latest cumulative maintenance (PTFs and HOLDDATA) for the ELS 7.2 product set and for any release of Oracle StorageTek software that will coexist with ELS 7.2. Download cumulative maintenance from the [My Oracle Support \(MOS\)](#) site.

Visit this site frequently for HOLDDATA and PTF updates and install cumulative maintenance updates on a regular schedule.

### ELS 7.2 SMP/E FMIDs

Select the FMIDs that are required to support your configuration. The following SMP/E FMIDs are distributed with ELS 7.2:

**Table 1-1 ELS 7.2 SMP/E FMIDs**

| FMID    | Description  |
|---------|--|
| SSEA720 | HSC, SMC, VTCS and CDRT load modules, distributed macros, and samples. This is a base FMID.  |
| SMZ7200 | SMC JES3 support load modules, distributed macros, and samples for MVS systems running JES3 Release 5.2.1, JES3 OS/390 Release 1.1 and higher, or JES3 z/OS Release 1.0 and higher. This is a dependent FMID of SSEA720. |
| SLM7200 | LCM 7.2 load modules, distributed macros, and samples. This is a base FMID.  |
| SOC7200 | LibraryStation 7.2 load modules and samples. This is a dependent FMID of SSEA720.  |
| SCS7200 | MVS/CSC 7.2 load modules, distributed macros, and samples. This is a base FMID.  |
| SSCR70C | SAS/C 7.0 selected components required for LibraryStation and MVS/CSC. This is a base FMID.  |
| SSCR70D | SAS/C 7.0 selected components required for LibraryStation and MVS/CSC. This is a base FMID.  |

 **Note:**

- If you are running at an SMP/E level lower than 2.5, ensure that the base FMID(s) and all PTF maintenance for the base FMID(s) is accepted before installing any dependent FMIDs. For certain levels of SMP/E, the restriction applies that a dependent FMID cannot be installed if the base FMID and service have not been ACCEPTED.
- When installing ELS 7.2 in an SMP/E CSI containing earlier NCS versions, the SMP/E installation deletes the FMIDs of all earlier NCS versions; it is therefore recommended that you back up the ELS SMP/E CSI prior to installing the ELS 7.2 product components.

### CD Installation

Refer to the publication *Installing ELS* for the most current installation instructions and examples. The instructions and examples found in that publication always supersede instructions and examples packaged on the CDs.

85 megabytes of mainframe storage space in a z/OS Unix file system is required to FTP and unpack the SEA72.pax file.

### JES3 Installation

In the setup for JES3 there is an opportunity to specify a volume serial for the JES3 macro library for the target zone; however, the same option does not exist for the distribution zone. If you need to specify a volume serial number in the installation job I40ZON, you must manually edit the generated JCL.

### Installation Step I50LIB Creates Two Output Files

To prevent the I50LIB job from creating two output files, add the following line of JCL to the SYSLIB step (in addition to the existing SMPOUT DD):

```
//SMPRPT DD SYSOUT=( , )
```

### Installation of ELS Product Suite Results in Three SMP/E CSIs Being Created

Please be aware that the SMP/E JCL samples provided create three CSIs, one for each zone. If a different CSI management strategy is required in your SMP/E environment, you must supply your own installation JCL or modify the samples provided.

### Installation Step I20TST Generates Error Message

The SYSTSPRT from the NTSTEST step of the I20TST job may contain the message:

```
IKJ56228I PATH /U/USERID/.netrc NOT IN CATALOG
```

If any of the following are true, then ignore this message:

- You intend to use RECEIVE FROMNTS.
- You supply an FTP password in the data set userid.NETRC.

- You supply an FTP password in NETRC DD.
- You supply an FTP password in the data set SMPSRV R.

The SMPSRV R data set is described in the IBM publication *SMP/E V3R5.0 for z/OS V1R10.0 Commands*.

Techniques for supplying an FTP password are included in the IBM publication *z/OS V1R10.0 Comm Svr: IP User's Guide and Commands*.

## Coexistence with Previous Releases

This section describes ELS 7.2 software coexistence and compatibility.

### SMC 7.2 Coexistence

SMC 7.2 is compatible with the following software releases:

- HSC/VTCS 7.2 on same host
- HSC/VTCS 6.2, 7.0, 7.1, and 7.2 on different host
- MVS/CSC 7.2 only

### HSC/VTCS Coexistence

HSC/VTCS 7.2 is compatible with the following software releases:

- SMC 7.2 on same host
- SMC 6.2, 7.0, 7.1 and 7.2 on different host
- LibraryStation 7.2 only
- ExPR 6.1 only

### ELS Compatibility PTFs

With proper compatibility PTFs, ELS 7.2 can share a CDS with any previous ELS or HSC release beginning with HSC 6.2.

Before attempting to start ELS 7.2, ensure that the following compatibility PTFs are installed on the down level releases that share the CDS.

**Table 1-2 ELS Compatibility PTFs**

| Product (FMID)          | Compatibility PTF |
|-------------------------|-------------------|
| HSC (VM) 6.2 (SMS6200)  | L1H16N6           |
| HSC (MVS) 6.2 (SOS6200) | L1H16N7           |
| ELS 7.0 (SSEA700)       | L1H16N8           |
| ELS 7.1 (SSEA710)       | L1H16N9, L1H172A  |

 **Note:**

- All ELS software running on the same host must be at the same release level.
- SMC 7.2 is completely compatible with HSC 6.2, 7.0, or 7.1 (with compatibility PTFs listed below) running on a different host.
- SMC 6.2, 7.0, and 7.1 are completely compatible with HSC 7.2 running on a different host.

In addition it is strongly recommended that you obtain the latest service (including HOLDATA) for the down-level hosts systems.

The suggested method of implementing 7.2 is:

1. Install the latest service on production hosts.
2. Install 7.2 on a test host(s).
3. Test and verify 7.2 on test host(s).
4. Schedule the roll out of 7.2 to production hosts.

# 2

## Documentation Updates

This section provides supplemental updates to the original documentation for Enterprise Library Software (ELS) release 7.2 for MVS. This information supersedes the information found in the existing ELS publication set.

- [New or Modified SMC Messages](#)
- [SMC COLlector Command](#)
- [HSC/VTCS DRCLEAN Command](#)

### New or Modified SMC Messages

**This update applies to:**

*ELS Messages and Codes*

Chapter 3, SMC Messages

SMC includes the following new or modified system messages:

#### **SMC0274**

```
SMC0274 COLLECTOR missing data reason = RRRRRRRR
```

**Level:** 0

**Explanation:** For reason storage area overflow starting at *yyyy.mm.dd hh.mm.ss* the available space in the SMC SMF data space has been exhausted.

**System Action:** Starting at *yyyy.mm.dd hh.mm.ss* the SMF data will not be written to the SMC SMF data space. The SMC SMF collector will not attempt to write any more SMF records to the SMC SMF data space until the number of minutes from *hh.mm.ss* specified in the `COLLECTOR MSGWAIT` parameter has passed. If the condition for the SMC0274 message no longer exists then message SMC0275 will be issued.

**User Response:** Determine the cause of SMC0274 and if the SMC SMF data space has been exhausted then the SMC SMF data space size may need to be increased. See the `COLLECTOR DSPSIZE` parameter in the *ELS Command, Control Statement, and Utility Reference* manual.

#### **SMC0275**

```
SMC0275 COLLECTOR missing data ending at yyyy.mm.dd hh.mm.ss
```

**Level:** 0

**Explanation:** The condition that caused message SMC0274 has ended.

**System Action:** None.

**User Response:** None.

### SMC0278

SMC0278 Unable to obtain the SMF data space lock

**Level:** 0

**Explanation:** The SMC `get_stats` processor failed to obtain the SMC SMF data space lock within 60 seconds.

**System Action:** The `get_stats` request is rejected.

**User Response:** Resubmit the request. If the lock is still not available then inspect the syslog for any related SMC messages. If unable to determine cause then issue a console dump for the SMC address space and contact StorageTek software support.

## SMC COLlector Command

**This update applies to:**

*ELS Command, Control Statement, and Utility Reference*

Chapter 2, SMC Commands, Utilities, and Control Statements

SMC adds the `COLlector` command.

**Description:**

The SMC `COLlector` command is used to start or stop the statistical gathering function. This function allows the Virtual Storage Manger GUI to retrieve z/OS SMF records in real time.

**Interfaces:**

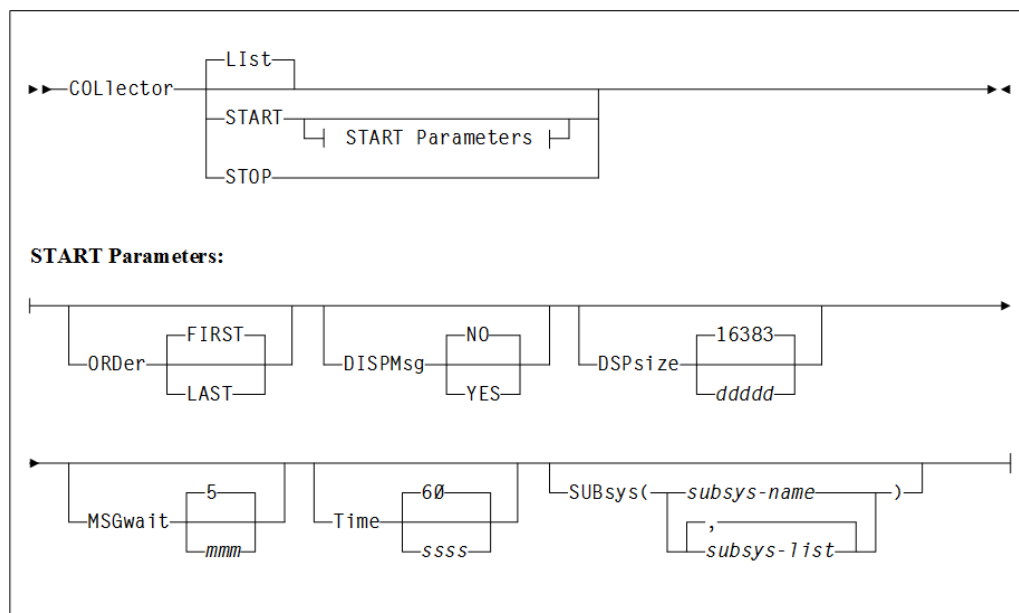
- Console, `SMCCMDS` data set, or `SMCPARMS` data set
- UUI Support: No

**Subsystem Requirements:** Active SMC required

**Syntax:**

The following figure shows `COLlector` command syntax.

Figure 2-1 COLlector Command Syntax

**Parameters:**

The COLlector command includes the following parameters:

**List**

optionally, displays status information for the SMC collector. This is the default if no parameters are specified. It cannot be specified with any other parameter.

**START**

optionally, starts the SMC collector.

**STOP**

optionally, stops the SMC collector.

**Optional Parameters:****ORDER**

optionally, specifies the order of the SMCXU83 IEFU83/IEFU84 exit. The parameter is used to order the SMCXU83 exit when other exits are present.

Specify FIRST or LAST. The default is FIRST.

**DSPsize**

optionally, specifies the size (number of 4K blocks) of the collector data space used to accumulate SMF records. The data space is created on the first COLlector START. DSPsize cannot be changed after the first start. The default is a data space of 64M.

dddd indicates the number of 4K blocks.

**DISPMsg**

optionally, specifies whether SMC0274 and SMC0275 messages are displayed. Message SMC0274 messages indicates that the SMC collector data space is full.

Specify YES or NO. NO is the default.

**MSGwait**

optionally, specifies the time between SMC0274 messages. This message indicates that the SMC collector data space is full.

*mmm* indicates the number of minutes to wait.

**Time**

optionally, specifies the time to pause the data transmission to the requestor due to no data to send.

*ssss* indicates the number of seconds.

**SUBsys**

optionally, specifies one or more subsystem names if they are defined in the SMFPRMxx member. Up to 10 subsystem names can be entered.

*subsys-list* is a list of subsystem names.

## HSC/VTCS DRCLEAN Command

**This update applies to:**

*ELS Command, Control Statement, and Utility Reference*

Chapter 3, HSC Commands, Utilities, and Control Statements

HSC/VTCS adds the DRCLEAN command.

**Description**

The DRCLEAN utility command specifies a list of one or more VTSSs from which the DRTEST environment VTV copies will be deleted.

**Interfaces:**

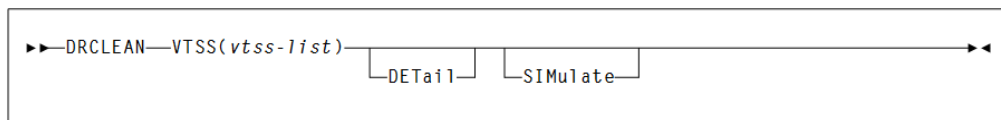
- SLUADMIN utility only
- UUI Support: No

**Subsystem Requirements:** Active HSC/VTCS at FULL service level

**Syntax**

The following figure shows the DRCLEAN command syntax:

**Figure 2-2 DRCLEAN Command Syntax**



**Parameters**

The DRCLEAN command includes the following parameters:



### **VTSS**

specifies a list of VTSSs from which the DR Test VTV copies will be deleted. Each VTSS listed is processed in parallel. Results are written to the report by VTSS in the order of completion, which may not match the order specified in the command. This is the only required parameter.

*vtss-list* indicates one or more VTSSs.

### **DETail**

optionally, provides a line of output in the report for every VTV successfully deleted. Any errors encountered in processing are reported. Totals for all VTVs successfully deleted and all error situations are produced at the end of the run. The default is not to report each successful VTV deletion, but to provide the summary of results at the end of the run.

### **SIMulate**

optionally, run the `DRCLEAN` utility in simulation mode. All processing continues as normal, however, the actual VTV deletion is not executed. This allows you to simulate operations, noting any coherency or query errors, without actually deleting any VTVs from the VTSS.

### **Additional DRCLEAN Changes**

- A VTV report run against a DR Test CDS indicates this fact in its report header. For example, `VTCS VTV Report (DR Test CDS)`.
- `Display VTV` command output includes `DR TEST VERSION`.