Extended High Performance Data Mover

Messages and Codes

Version 7.0

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About this Guide

Scope

This book describes messages and codes for the operation of Oracle's StorageTek Extended High Performance Data Mover (ExHPDM), a client-and-server-based solution that manages the I/O from application programs and interleaves it, at the block level, onto the media. ExHPDM addresses issues associated with disk backup and recovery.

Intended Audience

This manual is intended primarily for data center operators and system programmers responsible for operating and maintaining ExHPDM software. Computer system administrators may also find information contained in this guide to be useful for reviewing and understanding ExHPDM concepts.

Users responsible for installation and maintenance of ExHPDM software involving the technical details should be familiar with the following software topics:

- MVS operating system
- System Modification Program (SMP/E).

About the Software

This manual supports ExHPDM Version 7.0.

Organization of This Book

This book is divided into two chapters.

- **Chapter 1, "Introduction"** provides information about general message, multiple style message format, and substitutable message fields.
- **Chapter 2, "Individual Message Descriptions"** lists ExHPDM messages in numerical order.

Contents

Chapter 1. Introduction

All ExHPDM messages are presented in this document. Each message is numbered in the format:

SOV*nnnnns*

where SOV is the message prefix assigned by the PREFIX MESSAGE keyword of the ExHPDM startup parameter file. SOV is the default prefix, which is used for all messages in this document.

nnnnn is the actual message number, which is always exactly 5 decimal digits.

s is a single letter which indicates the severity of the message according to the following:

I

Informational. This is the lowest severity, and is used for general information which usually requires no further action.

W

Warning. A warning message indicates that there may or may not be an error. You should determine the cause of the warning and take corrective action if necessary.

E

Error. Error messages indicate that ExHPDM has detected an abnormal situation, and processing cannot continue for the work in progress. Corrective action will generally be necessary.

F

Fatal. An abend has been detected. This is the highest severity. Action is the same as for error messages.

The following sections show the format and how to interpret each message description documented by this manual.

If the ACTIVATE SUBSYSNAMEINMESSAGE parameter is used, the sub-system name is inserted into messages - between the message number and the message text. If the option is not turned on, all message appear as they do now. If the option is turned on, the message format is: SOVnnnnx (subsysname) and the text message.

General Message Format

Each message is documented in the format described in the following example. This example is not a real message; it is used only to demonstrate the general format.

SOV99999I

Example message with substitutable parts: *%-8.8s %7d*

Description

Detailed description of this message.

Action

Action to be taken if this message is issued.

Fields

- Description of the first substitutable part (*%-8.8s*)
- Description of the second substitutable part (*%7d*)

See also

List of related messages.

Multiple Style Message Format

The following example shows the format used for message which may be issued in more than one style. Each different style is referred to as a **form** of the message.

SOV99998I

Text form 1

Table header

%s %d %d

Text form 2

Table header variation

%-12.12s %08X%08X

Description

Detailed description of this message. References may be made to the different forms of the message.

Action

Action to be taken if this message is issued.

Fields

- Description of fields which are common to all forms (if any).

Fields form 1 only

- Description of fields which are specific to form 1.

Fields form 2 only

- Description of fields which are specific to form 2 etc.

See also

List of related messages.

Substitutable Message Fields

The message text documented for each message may contain substitutable fields. These fields are shown in *italics*. Each field starts with a percent sign, followed by optional digits and punctuation, and is terminated with a letter. The interpretation of these field descriptions is the same as the C language “printf” format. A summary of these field descriptions is presented here as an aid to those who are not familiar with printf formats.

Note: Where specific numbers are given in the following table, it should be understood that other numbers may also be used with similar results.

%c
A single character.

%s* or **.*%s
A variable length string.

%8s
A variable length string, padded with blanks to a minimum field length of 8 characters. If less than 8 characters, the string is right justified.

%8.8s
A fixed length string of 8 characters maximum. If less than 8 characters, the string is blank padded and right justified.

%-8.8s
A fixed length string of 8 characters maximum. If less than 8 characters, the string is blank padded and left justified.

%d
A signed decimal number, variable length. The negative sign, if any, will be shown preceding the digits.

%u
An unsigned decimal number, variable length. Unsigned means that a negative sign will never be shown.

%5d
A signed decimal number, blank padded and right justified to a minimum length of 5 characters.

%05d

A signed decimal number, padded on the left with leading zeros, to a minimum length of 5 digits.

%04X

A hexadecimal number, padded with leading zeros to a minimum length of 4 hexadecimal digits. The digits greater than 9 are encoded as A,B,C,D,E,F. Hexadecimal numbers are considered to be unsigned.

%g* or *%f

A floating-point number.

%12.3f

A fixed point number in a minimum field width of 12 characters. 3 (fractional) digits are printed after the decimal point.

Chapter 2. Individual Message Descriptions

SOV00000E

Message *%05d* does not exist.

Description

A request to print a message has been made, but the message number is not defined in the message table.

Action

Contact StorageTek Software Support.

Fields

- Message number.

SOV00001E

ExHPDM *%s* internal error detected in *%s (%d %08X %08X)*

Description

An internal error has occurred during ExHPDM processing. A trace back will be produced following this message.

Action

Contact StorageTek Software Support.

Fields

- Service name.
- Module name where error detected.
- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV00002I

(%s) %s

Description

Log image of message sent to ExHPDM requester. Used if the request processor has LOG(YES) specified in the parameter file.

Fields

- Unique request identifier.
- Image of message sent to requester.

SOV01001E

***%s* for '*%s*' failed *%d*.**

Description

ExHPDM allocation routines have received an error from MVS dynamic allocation services. The error information is returned from MVS DAIRFAIL (IKJEFF18) and is indicative of the error.

Action

If the error message is not helpful, Contact StorageTek Software Support.

Fields

- Type of dynamic allocation request.
- Data set name.
- Return code.

See also

SOV01002E

SOV01002E

%s

Description

Action

Contact StorageTek Software Support.

Fields

- Image of DAIRFAIL message.

See also

SOV01001E

SOV01003I

Allocate *%s '%s'* successful.

Description

Informational message from ExHPDM allocation services indicating that the requested resource has been allocated.

Fields

- DD name.
- Data set name or subsystem name of ExHPDM.

SOV01004I

Installation security software messages follow:

Description

The installation access control software denied access to a resource requested by a client, or did not recognize the client's user ID or password. Messages following this echo the product's output into the ExHPDM log.

See also

SOV01005I

SOV01005I

%*.*s

Description

The installation access control software denied access to a resource requested by a client, or did not recognize the client's user ID or password. This message is an echo in the ExHPDM log of the message issued by the access control product. The message may also appear on the console depending on the security software.

Fields

- Image of the access control software message.

See also

SOV01004I

SOV01006W

Security message: Userid *%s* Class *%s* Resource *%s; %s*

Description

The installation access control software denied access to a resource requested by a client, or did not recognize the client's user ID or password. This message is a short indication of the type of access violation.

Fields

- User ID.
- Class name.
- Resource name.
- Short message for access error or warning.

See also

SOV01004I, SOV01005I

SOV01007E

%s* ABEND*%03X-%03X* in *%s.%s.%s+%03X
%s* called by *%s+%03X*. Retrying at *%s
FMID: *%s* APAR: *%s*
%s* owner: *%s* FMID: *%s* APAR: *%s

Description

ExHPDM internal error diagnostic services has detected an abend in an ExHPDM service. The abend type and its location is described.

ExHPDM formats and records this event as a software error record in the SYS1.LOGREC data set.

ExHPDM requests a dump for SYSTEM abend types. No symptom dump is requested for USER abends.

ExHPDM may indicate that the error was detected outside of ExHPDM services.

Action

Contact StorageTek Software Support.

Fields

- abend type: **SYSTEM** or **USER**.
- abend code.

- abend reason code.
- ExHPDM load module name.
- ExHPDM CSECT name.
- ExHPDM CSECT internal label name.
- offset from the start of the ExHPDM CSECT internal label where the abend has occured.
- abending service name.
- name of caller.
- offset within caller.
- address or label of retry routine.
- FMID of abending routine.
- APAR of abending routine.
- Indicates the type of recovery : **ARR** or **ESTAE**
- The name of the owner of the recovery routine.
- FMID of recovery owner.
- APAR of recovery owner.

SOV02000E

Cannot start ExHPDM. Server module does not reside in APF library.

Description

The ExHPDM server cannot be started as the server load module has not been APF authorized.

Action

Ensure that the library containing the ExHPDM server modules is APF authorized. If a JOBLIB/STEPLIB concatenation has been specified in the ExHPDM startup procedure then ensure that all of the libraries are also APF authorized.

Refer to ExHPDM installation instructions for further details.

SOV02001E

Could not register parse tables *(%d %08X %08X)*.

Description

Error when registering the parse tables. Information code is return code from parser.

Action

Contact StorageTek Software Support.

Fields

- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV02002E

Default SSI parm parse failure.

Description

Internal error. The default SSI parameters failed to parse.

Action

Contact StorageTek Software Support.

SOV02003W

Reenter startup parameters reply CONT to continue, END to terminate.

Description

If the ExHPDM startup parameters contained an error this message will appear on the console to prompt the operator to reenter them.

Message SOV02004W is issued prior to this message to indicate what errors were detected.

Action

Reenter the startup parameters or reply CONT to continue the startup with default parameters or reply END to terminate ExHPDM.

See also

SOV02004W

SOV02004W

%s : %s

Description

Error message issued when parsing the ExHPDM SSI or startup parameters. The SSI parameters are those that are specified in the MVS IEFSSNxx parameter member or on the MVS SETSSI ADD operator command.

The startup parameters are those specified in the PARM= on the ExHPDM server started task PROC.

Action

Review and correct any syntax or other errors in the SSI or startup parameters.

If the errors were detected on the MVS IEFSSNxx parameter member or on the MVS SETSSI ADD operator command then the ExHPDM server will not be started and message SOV02007E will be issued.

If the errors were detected on the ExHPDM started task PROC then message SOV02003W will be issued to allow the parameters to be re-entered.

Fields

- Context: SSI parms.
- Image of parser error or warning message.

See also

SOV02003W, SOV02007E

SOV02005W

SSNAME should not be specified.

Description

SSNAME is not a valid ExHPDM parameter in IEFSSNxx for processing at MVS IPL (MSI) time or during SETSSI ADD processing.

Action

Reenter the SSI startup parameters without the SSNAME parameter.

See also

SOV02004W, SOV02007E

SOV02006W

Key *%d* not allowed, changed to key *%d*.

Description

The key that was supplied in the SSI startup parameters or on the ExHPDM server PROC KEY parameter was not allowed and was changed to the allowable key.

A RENEW startup is forced if this key is different from the previous startup KEY.

See also

SOV03064W, SOV03066W

SOV02007E

ExHPDM will not be started.

Description

ExHPDM will not be started due to an error or operator response in the startup processing.

A previous message will have been issued to indicate what error was detected.

See also

SOV02004W, SOV02005W

SOV02008E

Parser services module *%s* not loaded: *%s*

Description

The parser services module could not be loaded.

Action

Check that ExHPDM has been correctly installed. Refer to other errors issued for any indication of an installation error.

If the reason for the failure cannot be determined then consolidate other ExHPDM messages from the MVS Master trace and Contact StorageTek Software Support.

Fields

- Parser services module name.
- Explanatory text.

See also

SOV02009E

SOV02009E

Module *%s* not loaded: *%d %08X %08X*

Description

The parser services module could not be loaded.

Action

Check that ExHPDM has been correctly installed. Refer to other errors issued for any indication of an installation error.

If the reason for the failure cannot be determined then consolidate other ExHPDM messages from the MVS Master trace and Contact StorageTek Software Support.

Fields

- Parser services module name.
- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

See also

SOV02008E

SOV02010E

ExHPDM could not be started: *%08X %08X*

Description

ExHPDM was to be started at IPL time using the parameters specified in IEFSSNxx or on the SETSSI command. However the address space creation of ExHPDM failed with the indicated return and reason code.

Action

Check that ExHPDM has been correctly installed.

If the reason for the failure cannot be determined then consolidate other ExHPDM messages from the MVS Master trace and contact StorageTek Software Support.

Fields

- Return code from ASCRE.
- Reason code from ASCRE.

SOVO2011E

ExHPDM *%s* License key expired, server shutting down.

Description

ExHPDM's license key has expired. The product will shutdown on the customer's system. All currently active work will complete, but no new work connections will be allowed.

Action

Request a new license key from StorageTek.

Fields

- License key type: Permanent, Temporary, Emergency, or Default.

SOV02012W

ExHPDM *%s* License key expires in *%d* day*%s*.

Description

ExHPDM's license key will expire in the number of days indicated.

Action

Request a new license key from StorageTek.

Fields

- License key type: Permanent, Temporary, Emergency, or Default.
- Number of days until the license key expires.

SOV02013W

ExHPDM *%s* License key expired, functionally has been reduced.

Description

ExHPDM's license key has now expired. ExHPDM will provide read access enabling restores to be performed, and will allow ADMIN functions to be performed as well.

This reduced functionally will be in place until a new license key is supplied. In addition, if the license is a temporary license, ExHPDM will only remain active for 30 days after the license key expiration date.

Action

Request a new license key from StorageTek.

Fields

- License key type: Permanent, Temporary, Emergency, or Default.

SOV02100E

Request cannot be processed. ExHPDM is not currently active.

Description

The request to ExHPDM cannot be processed because ExHPDM has not been started.

Action

Start ExHPDM

SOV02101E

Request cannot be processed. ExHPDM operator interface unavailable.

Description

The entered operator command cannot be processed because ExHPDM is starting or terminating.

Action

If ExHPDM is currently starting then reissue the command once ExHPDM startup has completed. Message SOV03069I is issued once the operator interface is available.

See also

SOV03069I

SOV02102E

Too many requests in progress. Try again later.

Description

The request to ExHPDM cannot be processed because too many requests are currently in progress.

Action

Reissue the request. If this happens often then the ExHPDM REQUEST MAXLIMIT specified in the startup parameters may need to be increased.

SOV02103I

ExHPDM command issued.

Description

An ExHPDM operator command has been issued to be processed by ExHPDM.

SOV02104E

One or more ExHPDM DD SUBSYS requests not satisfied.

Description

One or more DD errors have been detected for the DD SUBSYS allocation request. See previous messages for details of errors.

Action

See other messages.

SOV02105E

DD SUBSYS command string too long.

Description

The specified DD SUBSYS parameters exceed the length that may be handled by ExHPDM.

Action

Review the parameters specified on the DD SUBSYS and rerun the job.

SOV02106E

Connection terminated at End Of Task.

Description

The client connection was terminated with the ExHPDM server by the end of task client resource manager. This could indicate that the client connection has abended.

Action

Review the client job to resolve any errors and rerun the job.

SOV02107E

An error has occured during the DD SUBSYS allocation request.

Description

An error has occurred during the DD SUBSYS allocation request. This message is issued when the reason for the DD SUBSYS allocation failure cannot be determined.

Action

Review the ExHPDM LOGFILE to determine the reason for the failure and rerun the job.

If the reason for the failure cannot be determined then consolidate other ExHPDM messages from the MVS Master trace and Contact StorageTek Software Support.

SOV02108E

Request cannot be completed. ExHPDM has been restarted.

Description

The request to ExHPDM could not be completed. This is because the server to which the request was made is not the currently active server.

This would indicate that ExHPDM has been restarted since the request has been made.

Action

Retry the request.

SOV02200I

SOVDSSU DFSMSdss interface version *%d.%d.%d*.

Description

Message to indicate the version of the ExHPDM DFSMSdss interface.

Fields

- ExHPDM DFSMSdss interface version.release.modification.

SOV02201I

SOVDSSU is utilizing ExHPDM subsystem *%-4.4s*.

Description

The SOVDSSU program will be using the indicated ExHPDM subsystem as a default to process the DUMP, RESTORE and COPYDUMP processing where no DD SUBSYS specifications are provided.

Fields

- ExHPDM subsystem name.

SOV02202W

Cannot use subsystem specification : *%s*

Description

The specified SNAMxxxx DD DUMMY subsystem specification could not be used for the indicated reason.

Fields

- Subsystem name and the reason for not using the SNAMxxxx DD specification.

SOV02203E

Cannot locate the DFSMSdss module ADRDSSU (*%d*).

Description

The DFSMSdss module ADRDSSU could not be located for usage by the SOVDSSU interface.

Action

Ensure that the DFSMSdss module ADRDSSU is installed and available for usage by the ExHPDM SOVDSSU interface.

Fields

- BLDL return code.

SOV02204W

%s connection with client DD *%s* has been terminated by ExHPDM.

Description

The connection that was established between the current client job and the ExHPDM server has been terminated.

Action

Examine other messages in the ExHPDM log and the Client JESYSMSG data set for the reason for this termination. Possible reasons are ExHPDM has terminated; an ExHPDM CANCEL command was entered; or an internal error has occurred.

Fields

- Indicates a Read or Write connection.
- DD name that has had the connection terminated.

SOV02205E

DD *%s* subsystem *%-4.4s* not a compatible version *%d.%d.%d*.

Description

SOVDSSU could not use the ExHPDM server as specified on the DD SUBSYS as SOVDSSU is at an incompatible version level.

Action

Review the installation of the SOVDSSU load module to make sure that the correct version of this load module is available for the indicate ExHPDM server subsystem.

Fields

- DD name.
- Subsystem name associated with the DD SUBSYS specification.
- ExHPDM server version.release.modification.

See also

SOV02200I

SOV02206W

DD *%s* is DUMMY. Will not be processed by ExHPDM.

Description

The indicated DD will not be connected (processed) by ExHPDM as it has been defined as a DD DUMMY.

Action

If the DD is to be processed by ExHPDM then do not use a DD DUMMY specification.

Fields

- DD name.

SOV02207W

DD *%s* is not DD SUBSYS and no active SNAM DD DUMMY specified.

Description

The indicated DD will not be connected (processed) by ExHPDM as it was not specified as a DD SUBSYS and there is no current SNAMxxxx DD DUMMY (where xxxx is an ExHPDM subsystem name) specification for the job. DFSMSdss will process the indicated DD without ExHPDM intervention.

Action

If the DD is to be processed by ExHPDM then either change the DD specification to DD SUBSYS or add a SNAMxxxx DD DUMMY (where xxxx is an ExHPDM subsystem) for an active ExHPDM subsystem.

If a SNAMxxxx DD DUMMY was specified but ExHPDM is not active then start ExHPDM.

Fields

- DD name.

See also

SOV02202W

SOV02208E

DD *%s* wrong length record. Record=*%d*, Buffer size=*%d*

Description

A record read was attempted for the current DFSMSdss functional task RESTORE or COPYDUMP INDDNAME. The record size returned by ExHPDM was too large for the provided buffer size by DFSMSdss.

Action

This could indicate a blocksize error. Review the SOVDSSU job statements including the specified blocksize. If the error cannot be resolved then Contact StorageTek Software Support.

Fields

- DD name.
- Actual record length.
- Provided buffer size.

SOV02209W

DFSMSdss TASKID *%d*. Only ExHPDM connected DDs will contain valid data.

Description

DFSMSdss DUMP or COPYDUMP processing is being performed for multiple output DDs using OUTDDNAME where at least one but not all DDs are connected to ExHPDM. The DDs that are not connected to ExHPDM will not contain any DUMP output data. Only those DDs that are connected to an ExHPDM server will contain valid data.

Action

When specifying multiple output DDs for DUMP or COPYDUMP OUTDDNAME processing then either none or all of the DDs should be connected to an ExHPDM server. Examine other ExHPDM messages in the client JESYSMSG log to determine why some of the DDs did not connect to ExHPDM.

Fields

- DFSMSdss task id.

SOV02210E

DFSMSdss TASKID *%d* DD *%s* is already connected for TASKID *%d*.

Description

DFSMSdss processing is being performed for the indicated DFSMSdss taskid and DD. However the specified DD (INDDNAME or OUTDDNAME) has already been specified and connected for a previous taskid. SOVDSSU can only connect to a single occurrence of a DD in any DFSMSdss job step. The taskid will be ended and DFSMSdss message ADR356E will be issued.

Action

If multiple DFSMSdss statements refer to the same INDDNAME or OUTDDNAME then these must be changed to refer to unique DDs.

If multiple RESTORE or COPYDUMP steps need to access the same dumped data set then these can be processed through multiple job steps.

Fields

- DFSMSdss task id.
- DD name specified in INDDNAME or OUTDDNAME.
- DFSMSdss task id that has already connected DD.

SOV02211E

Cannot use SOVDSSU. Module does not reside in APF library.

Description

The ExHPDM SOVDSSU module (DFSMSdss interface) cannot be used as it is not in an APF authorized library.

Action

Ensure that the library containing the ExHPDM SOVDSSU module is APF authorized. If a JOBLIB/STEPLIB concatenation has been specified in the job then ensure that all of the libraries are also APF authorized.

Refer to ExHPDM installation instructions for further details.

SOV02212E

DFSMSdss TASKID *%d*, user ABEND *%d* generated due error detected in function termination processing.

Description

An error was detected by SOVDSSU during DFSMSdss termination processing for the indicated taskid. In order to externalize the error the indicated user ABEND will be issued for this task. The taskid will be ended and DFSMSdss message ADR049E might be issued.

This message, and the associated user ABEND, is only generated if SOVDSSU has detected an error and the indicated taskid was otherwise going to end with a return code 0. Normally SOVDSSU can communicate that a non-zero return code is required in DFSMSdss. However, in some circumstances this is not possible.

Action

Examine the SOVDSSU JESYSMSG log and ExHPDM server log for other messages to determine the reason for the failure.

Fields

- DFSMSdss task id.
- User ABEND code. This is a internal diagnostic code associated with other errors detected for the task. Other messages generated by ExHPDM to explain the reason for this ABEND code may be found in the SOVDSSU JESYSMSG and the ExHPDM server log file.

SOV02300E

Client *%s*, DSN *%s* connection terminated by stream task termination.

Description

The specified client connection was terminated due to the unexpected termination of a ExHPDM server stream task. This will occur, for example, if the ExHPDM server is cancelled by the MVS operator CANCEL command while there are active connections.

Action

If this occurs other than due to the server being cancelled then an error has probably occurred in the ExHPDM server then Contact StorageTek Software Support.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Data set name.

SOV02301E

Client *%s* request ID *%s* terminated by ExHPDM server resource cleanup processing.

Description

The specified client request was terminated due to the unexpected termination of the ExHPDM server. This will occur, for example, if the ExHPDM server is cancelled by the MVS operator CANCEL command while there are active requests.

Action

If this occurs other than due to the server being cancelled then an error has probably occurred in the ExHPDM server then Contact StorageTek Software Support.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Unique request identifier

SOV03001I

ExHPDM *%s* is starting.

Description

ExHPDM startup processing has read the parameter file and is progressing.

Fields

- ExHPDM version.release.modification.

SOV03002E

Queue Manager init failed *%d %08X %08X*.

Description

Initialization of the ExHPDM queue manager failed.

Action

Contact StorageTek Software Support.

Fields

- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV03003E

License key information invalid - *%s*.

Description

The entered license key is invalid. The license key number is not in the format expected by ExHPDM, or the information is missing. A valid license had previously been entered.

Action

Check the license key information entered to ensure is matches exactly the one supplied. If it does not, re-enter the license key information and re-start ExHPDM. If it does, contact StorageTek to obtain another license key.

Fields

- The reason the license key is invalid.

SOV03004E

Log Message Manager init failed (*%d %08X %08X*).

Description

Initialization of the ExHPDM log message manager failed.

Action

Contact StorageTek Software Support.

Fields

- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV03005W

***%s* component is still shutting down.**
Reply 'CANCEL' if you wish to cancel this component.

Description

ExHPDM is currently shutting down. However the indicated component has not yet completed its shutdown. This WTOR will remain until the component has completed its shutdown processing or optionally the operator can reply CANCEL to force its termination.

Action

Wait for the component to shutdown or reply CANCEL to terminate the component. CANCEL will terminate any processing being performed by the component.

If the component is Database then careful consideration should be given to replying CANCEL as it may be completing database related processing.

Fields

- Component name that is still shutting down.

SOV03006E

ExHPDM is terminating as no license key information was entered and the trial period has expired.

Description

ExHPDM was started with no license key information entered in the parameter file and the product has exceeded the period it can run without a license key.

Action

None.

SOV03007I

License Key information ignored..

Description

ExHPDM was started with license key information, but this information has been ignored.

Action

Contact StorageTek to obtain a license key.

SOV03016E

Bad request processor *%s* specified by *%s*.

Description

An ExHPDM request specified an invalid request processor name.

Action

Contact StorageTek Software Support.

Fields

- Request processor name.
- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

SOV03017E

Request from *%s* not processed because *%s* processor is not active.

Description

The request could not be processed because the required request processor is not active. This is probably because it failed to initialize.

Action

Review the ExHPDM log file for relevant warning or error messages issued at initialization. If necessary, correct the ExHPDM startup parameter file and restart ExHPDM.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Request processor name.

See also

SOV03049E

SOV03020I

%s* request from *%s* has been accepted with ID *%s

Description

An ExHPDM request has been accepted and has the specified unique identifier. Information about the request may be obtained or the request may be cancelled by referring to it by this identifier in operator commands.

Fields

- Request processor name.
- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Unique identifier.

SOV03021E

An ExHPDM request could not be serviced (*%d %08X %08X*).

Description

An attempt to schedule an ExHPDM request for processing failed.

Action

Refer to any preceding message in the log for further information on the cause of the failure.

Fields

- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

See also

SOV03016E, SOV03023E, SOV03055E, SOV06036E

SOV03023E

Request *%s* from *%s* exceeded *%s* processor MAXLIMIT.

Description

Too many requests for the specified request processor caused a temporary queue overflow.

Action

Retry the same request. If the problem persists, increase the MAXLIMIT value in the ExHPDM startup parameter file for this request type.

Fields

- Unique identifier.
- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Command processor name.

SOV03024E

***%s* too long.**

Description

The parameter member was too long.

Action

Check the specified member, or ensure that the PRM(xx) startup parameter indicated a valid ExHPDM parm member suffix. Restart ExHPDM.

Fields

- Data set name or DD name.

SOV03025I

***%s* parsed successfully.**

Description

Startup parameters were parsed without error.

Fields

- SSI startup parameters or data set name

SOV03026E

Could not open ExHPDM parm file: *%s* (*%d %08X %08X*).

Description

ExHPDM was unable to perform an OPEN using the indicated SYS1.PARMLIB member name.

Action

Verify that the parameter file member exists and can be read and accessed using conventional editing methods and restart ExHPDM.

Fields

- Data set name.
- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

See also

SOV03032I

SOV03027I

Parameter text changed by symbolic substitution :
Original: *%s*
Modified: *%s*

Description

The parameter file text was modified to include system and ExHPDM defined symbols.

The parameter text is truncated where the text is greater than 61 characters. Additionally, the output will be truncated to 60 characters in SYSLOG where HARDCOPY

HCFORMAT(CENTURY) has been specified in the CONSOLxx operating system parameter library member. Refer to the IBM *MVS Initialization and Tuning Reference.*

Fields

- Original parameter text.
- Modified parameter text.

SOV03028E

Command processor initialization failed (*%d %08X %08X*).

Description

Initialization of the ExHPDM command processors failed.

Action

Contact StorageTek Software Support.

Fields

- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV03029E

Parameter symbolic substitution error (*%d %08X %08X*) :
Original: *%s*
Modified: *%s*

Description

An error was encountered in parameter library processing symbolic substitution. The original parameter text will be used.

The parameter text is truncated where the text is greater than 61 characters. Additionally, the output will be truncated to 60 characters in SYSLOG where HARDCOPY HCFORMAT(CENTURY) has been specified in the CONSOLxx operating system parameter library member. Refer to the IBM *MVS Initialization and Tuning Reference*.

Action

The original parameter text will be used as the parameter file input. The modified parameter text is ignored. Contact StorageTek Software Support.

Fields

- Internal diagnostic return code.

- Internal diagnostic reason code.
- Internal diagnostic information code.
- Original parameter text.
- Modified parameter text.

SOV03030I

TMS SCRVOLRTN has been re-enabled.

Description

The scratch volume routine that was previously disabled due program abend has now been re-enabled. This message will occur as a result of an ExHPDM SET PRM operator command.

See also

SOV06954E

SOV03031W

TMS SCRVOLRTN *%s* ignored for TMS NONE. Changed to DISABLED

Description

TMS(NONE SCRVOLRTN(xxx)) was specified in the ExHPDM startup parameter file. However a scratch volume routine is not valid when NONE is specified. The scratch volume routine is ignored i.e it is treated as if SCRVOLRTN(DISABLED) was specified.

Action

If a scratch volume routine is required then change the TMS type to USER or one of the supported TMS names.

Fields

- Specified scratch volume routine name.

SOV03032I

Could not open ExHPDM parm file *%s*.

Description

ExHPDM was unable to perform an OPEN using the ExHPDM parameter file DD name STKPARMS. The SYS1.PARMLIB member specified with the MEMBER and PRM options will be used instead.

Action

If it was intended to use the ExHPDM STKPARMS DD to obtain the startup parameters then ensure that the DD name is correctly defined and that the sequential data set or PDS that it points to can be read and accessed using conventional editing methods and restart ExHPDM.

If it was intended that a SYS1.PARMLIB member be used as the ExHPDM configuration file, then this message can be ignored.

Fields

- DD name.

See also

SOV03026E

SOV03033W

TMS SCRVOLRTN *%s* could not be located (*%d*).

Description

The indicated scratch volume routine could not be located in the normal system search sequence by BLDL.

Action

Make the specified scratch routine available to ExHPDM in the normal MVS search sequence. ExHPDM will attempt to load this module for each scratch request. ExHPDM does not need to be restarted once the module is made available.

If a scratch routine is not required then change the TMS parameter value in SOVPRMxx to SCRVOLRTN(DISABLE).

Fields

- Specified scratch volume routine name.
- BLDL return code.

SOV03034W

TMS SCRVOLRTN *%s* is non-standard for TMS type *%s*

Description

A scratch volume routine was specified for a TMS which is not the default scratch volume routine for that TMS. This message is only a warning. The specified scratch volume routine will still be used.

Fields

- Specified scratch volume routine name.
- Specified TMS.

SOV03035E

Mismatch C(*%d*) to ASM(%d): *%s*.

Description

A mismatch in the sizes of ExHPDM internal data structures has been detected.

Action

Check that ExHPDM has been correctly installed. Refer to other errors issued for any indication of an installation error.

If the reason for the failure cannot be determined then consolidate other ExHPDM messages from the MVS Master trace and Contact StorageTek Software Support.

Fields

- Size of C struct.
- Size of DSECT.
- Data area name.

SOV03036W

TMS SSNAME *%s* is not defined as an MVS subsystem.

Description

The SSNAME that was specified, or defaulted, in the TMS parameter is not defined as an MVS subsystem.

Action

Verify that the SSNAME that has been specified is correct for the TMS. If the SSNAME is a default value then ensure that this is correct for the TMS. The SSNAME is passed to the TMS SCRVOLRTN as a parameter. If this value is not really being used as a MVS subsystem name or the subsystem will be added dynamically then this message may be ignored. The SSNAME value will still be passed to the SCRatchVOLumeRouTiNe.

Fields

- Specified TMS subsystem name.

SOV03037W

TMS *%s %s* ignored for TMS NONE.

Description

TMS(NONE) was specified in the ExHPDM startup parameter file in addition to the indicated keyword and value. However the indicated keyword is not valid when NONE is specified. The indicated keyword value is ignored.

Action

If a TMS is required to be specified then change TMS(NONE) to USER or a valid TMS name.

Fields

- Specified TMS keyword.
- Specified TMS keyword value.

SOV03047E

VCVT initialization failed (*%d %08X %08X*).

Description

The ExHPDM VCVT initialization has failed.

Action

Check that ExHPDM has been correctly installed. Refer to other errors issued for any indication of an installation error.

If the reason for the failure cannot be determined then consolidate other ExHPDM messages from the MVS Master trace and Contact StorageTek Software Support.

Fields

- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV03048E

VGVT initialization failed (*%d %08X %08X*).

Description

The ExHPDM VGVT initialization has failed.

Action

Check that ExHPDM has been correctly installed. Refer to other errors issued for any indication of an installation error.

If the reason for the failure cannot be determined then consolidate other ExHPDM messages from the MVS Master trace and Contact StorageTek Software Support.

Fields

- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV03049E

***%s* request processor initialization failed (*%d %08X %08X*).**

Description

Initialization of the specified request processor failed. Requests of that type will not be able to be processed.

Action

Contact StorageTek Software Support.

Fields

- Request processor name.
- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

See also

SOV03017E

SOV03050W

MAXLIMIT *%d* for REQUEST type *%s* too large. MAXLIMIT reduced to *%d*.

Description

The specified MAXLIMIT value for the REQUEST type exceeds the maximum allowable value. The MAXLIMIT value has been reduced to the indicated maximum allowable value.

Action

Reduce the MAXLIMIT value specified for the REQUEST type in the ExHPDM startup parameter file.

Fields

- Specified MAXLIMIT value.
- REQUEST type.
- New MAXLIMIT value.

SOV03053I

ExHPDM is waiting for work.

Description

ExHPDM has finished initializing and is now ready to accept requests.

SOV03054E

Request from *%s* not serviced due database quiesce.

Description

A request could not be serviced owing to the ExHPDM database being quiesced.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

See also

SOV03055E, SOV06036E

SOV03055E

Request from *%s* not serviced due shutdown.

Description

A request could not be serviced owing to ExHPDM shutdown in progress.

Fields

- Client requester displayed as follows:

CN:*console name or id*
TSO:*TSO user name*
STC:*proc name.job identifier.job step name*
JOB:*job name.job step name.proc step name*

See also

SOV03054E, SOV06036E

SOV03056E

Could not assign a new request identifier.

Description

A request could not be processed because an attempt to assign a new request identifier for the request did not succeed. This may be due to too many concurrent requests currently active in ExHPDM.

Action

Retry the job or operator command that failed. It may be necessary to wait for some requests to finish. If this problem occurs frequently then Contact StorageTek Software Support.

SOV03058E

Verification failed for module SOVSERV1.

Description

The global module SOVSERV1 has failed verification. This can indicate that a non ExHPDM load module with the name SOVSERV1 has been loaded.

Action

Check that ExHPDM has been correctly installed. Refer to other errors issued for any indication of an installation error.

If the reason for the failure cannot be determined then consolidate other ExHPDM messages from the MVS Master trace and Contact StorageTek Software Support.

SOV03059E

Global module SOVSERV1 is *%s %s;* should be *%s*.

Description

The global module SOVSERV1 is of an incompatible version or maintenance level for the ExHPDM server. The SOVSERV1 module loaded from the standard load library search

sequence does not match the level expected by the ExHPDM server. This can indicate an error in compatibility in the ExHPDM load modules.

Action

Check that ExHPDM has been correctly installed. Refer to other errors issued for any indication of an installation error.

If the reason for the failure cannot be determined then consolidate other ExHPDM messages from the MVS Master trace and Contact StorageTek Software Support.

In particular, ensure that the SOVSERV1 and SOVMAIN load modules are being obtained from the same level load libraries.

Fields

- Indicates if the incompatability is for **version** or **maintenance leve**l.
- Global module *version.release.modification* or maintenance level.
- Expected module *version.release.modification* or maintenance level.

See also

SOV03061W, SOV03062W, SOV03064W, SOV03066W

SOV03060E

Subsystem *%4.4s* is invalid for use by ExHPDM.

Description

The indicated subsystem name is currently in use by another non-ExHPDM subsystem.

Action

Restart ExHPDM with a different subsystem name.

Fields

- Specified subsystem name.

SOV03061W

Global module SOVSERV1 is version *%s;* should be *%s*.

Description

The global module is of an incompatible version. The operator will be prompted for continuing in RENEW(NOFREE) processing mode.

Fields

- Global module version.release.modification.
- ExHPDM module version.release.modification.

See also

SOV03064W

SOV03062W

Global module SOVSERV1 incorrect maintenance level.
RENEW(FREE) will be performed.
Current maintenance level : *%s*.
Required maintenance level : *%s*.

Description

The global module is at an incompatible maintenance level with that expected by the ExHPDM server. This would indicate that maintenance has been applied which requires the globally loaded module SOVSERV1 to be reloaded. A RENEW startup will automatically performed in order to reload the ExHPDM global module.

Fields

- Current SOVSERV1 maintenance level as loaded. Set to **base** if no maintenance had been applied.
- Required SOVSERV1 maintenance level to be loaded. Set to **base** if no maintenance had been applied.

SOV03064W

RENEW(*%s*) *%s*. Reply END to terminate or CONTINUE to perform renew.

Description

The RENEW option was specified in the startup parameters or ExHPDM has determined that RENEW processing is required.

RENEW processing will result in new ExHPDM global data structures and the global load module being loaded into MVS ECSA. Either a FREE or NOFREE renew is being requested:

FREE
FREE results in most of the ExHPDM global structures being removed.

NOFREE
NOFREE allows new global structures and the global load module to be loaded but the old versions of these will remain allocated in the MVS ECSA.

If the renew is required, a previous message will have been issued to indicate the reason.

Action

Reply one of the following:

END or E
to terminate ExHPDM.

CONTINUE or CONT
to continue RENEW processing.

Fields

- Indicates FREE or NOFREE renew option.
- required or specified.

See also

SOV03066W, SOV03061W

SOV03065E

Cannot start ExHPDM. Subsystem *%s* does not exist.

Description

The subsystem name defaulted or specified on the ExHPDM startup PROC does not exist.

Action

Ensure that the specified subsystem name exists in the IEFSSNxx MVS parameter library. If an alternate subsystem name is to be used then this may be specified on the ExHPDM startup PROC as the SSNAME parameter.

Fields

- Subsystem name.

SOV03066W

Global module SOVSERV1 is in key *%d* should be key *%d*.

Description

The global module is of an incompatible execution and storage key. The operator will be prompted for continuing in RENEW(NOFREE) processing mode. This message will be issued when a different KEY specification has been supplied on the ExHPDM startup PROC to the previous ExHPDM startup.

Fields

- Global module execution and storage key.
- ExHPDM module execution and storage key.

See also

SOV03064W

SOV03069I

Operator interface active. ExHPDM command recognition string is *%s*.

Description

ExHPDM operator commands can now be entered using the indicated command recognition character string. This string must prefix each ExHPDM entered operator command.

Fields

- Command recognition string.

See also

SOV03053I

SOV03070E

ExHPDM cannot start: already running.

Description

ExHPDM startup has detected the presence of another ExHPDM on this MVS system with the same subsystem name as defined in IEFSSNxx. This checking stops multiple instances of the same ExHPDM subsystem on the same MVS.

Action

Either shutdown the active ExHPDM system and restart the new ExHPDM or use another MVS subsystem name as defined in IEFSSNxx.

SOV03071I

ExHPDM command recognition string is now *%s*.

Description

The ExHPDM operator command recognition string has changed. Commands can now be entered using the indicated command recognition character string. This string must prefix each ExHPDM entered operator command.

Fields

- New command recognition string.

SOV03090E

%s: %s

Description

Error message issued when parsing SSI startup parameters. Review and correct any syntax or other errors in the SSI startup parameters.

Fields

- Context: SSI parms
- Image of parser error message

SOV03091E

Could not register parse tables (*%d %08X %08X*).

Description

Error when registering parse tables. Information code is return code from parser.

Action

Check that ExHPDM has been correctly installed. Refer to other errors issued for any indication of an installation error.

If the reason for the failure cannot be determined then consolidate other ExHPDM messages from the MVS Master trace and Contact StorageTek Software Support.

Fields

- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV03093E

%s* error detected at line:*%d*, column:*%d
%s

Description

Error message issued when parsing the ExHPDM startup parameter file.

Note: The ExHPDM startup parameter file is not supported in ISPF PACK format. Parsing errors will occur when the ISPF PACK format is used. When editing the startup parameter file ensure that PACK OFF is specified in the ISPF edit profile.

Action

Review and correct any syntax or other errors in the specified ExHPDM startup parameter file.

Fields

- Context: **PARMLIB**.
- Line at which the error was detected.
- Column at which the error was detected.
- Image of parser error message.

SOV03094W

ExHPDM subsystem *%-4.4s* is operating in disaster recovery mode.

Description

The DR keyword was specified on the ExHPDM startup parameters, causing ExHPDM to operate in disaster recovery mode. In disaster recovery mode, no data can be written via ExHPDM. Instead, only read streams can be started. The SCANSTREAMFILE ADMIN command may be used to build an internal database which will allow data to be read via the normal means of reading ExHPDM managed data. ExHPDM operates without its database in disaster recovery mode but uses an internal volatile copy that is created using the SCANSTREAMFILE ADMIN command. Neither does it attempt to open the startup parameter data set.

Fields

- ExHPDM subsystem name.

See also

SOV06071E, SOV06953E

SOV03100E

***%s* request processor terminated unexpectedly with completion code *%08X*.**

Description

A permanent request processor has terminated unexpectedly with the given completion code. The request processor will be reattached when a new request of that type is received by ExHPDM.

Action

Contact StorageTek Software Support.

Fields

- Name of request processor.
- Task completion code.

See also

SOV06009I, SOV03101E

SOV03101E

Request id *%s* terminated due to termination of *%s* request processor.

Description

The specified request has been terminated due to the termination of the request processor which was processing it.

Action

Contact StorageTek Software Support.

Fields

- Request identifier.
- Name of request processor.

See also

SOV03100E

SOV03102E

Request id *%s* terminated due to client termination.

Description

The specified request has been terminated due to indication from the client that the client is terminating, has terminated, or otherwise requires that the request is removed.

Fields

- Request identifier.

SOV03103E

SET PRM command failed, continuing with previous parameters.

Description

Re-reading the parameter file due to the ExHPDM SET PRM command failed. ExHPDM will continue to use the parameters in effect before the SET PRM command was issued.

Action

Correct any errors in the parameter file and re-issue the SET PRM command.

See also

SOV03026E, SOV03093E, SOV06103I

SOV03104W

There are active streams or requests.

Description

A SHUTDOWN command was issued but there are still active streams or requests. ExHPDM will not shut down until all streams and requests have completed. Messages displaying the active streams or requests follow.

Action

If an immediate shutdown is desired, enter the ExHPDM SHUTDOWN IMMEDIATE command or individually terminate streams or requests with the ExHPDM CANCEL command.

See also

SOV06050I, SOV06052I, SOV06053I, SOV06054I

SOV03200I

ExHPDM has shut down.

Description

ExHPDM has shut down.

See also

SOV05005I

SOV05001W

Failed to write to log file *%s* (*%d %08X %08X*).

Description

Log message manager detected a log file error.

Action

The log file is specified in the ExHPDM startup parameter file using the LOGFILE keyword. Analyze this file and the MVS master trace to determine what happened. The log file may have run out of space. Once the reason for the error has been identified the ExHPDM SET LOGFILE command may be used to change the destination of the log file.

Fields

- Name and type of log file.
- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

See also

SOV05003W

SOV05002E

Log file *%s* could not be opened (*%d %08X % 08X*).

Description

Log message manager could not open log file.

Action

The log file is specified in the ExHPDM startup parameter file and the ExHPDM SET command using the LOGFILE keyword. Ensure this is specified correctly and restart ExHPDM or reissue the ExHPDM SET LOGFILE command.

Fields

- Name and type of log file.
- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV05003W

Log Messages will be redirected to the MVS System Log.

Description

Log message manager could not open the specified log file destination. Output will be redirected to the MVS master trace and will appear on the MVS System Log.

Action

Refer to other messages issued to determine why messages are being redirected to the MVS master trace.

See also

SOV05001W

SOV05005I

ExHPDM Log Message Manager has shut down.

Description

Log message manager has terminated.

Action

If this message is output when the ExHPDM SHUTDOWN command has not been issued then this could indicate an error in ExHPDM processing. Refer to other messages issued to determine if an error has occurred.

See also

SOV03200I

SOV05006W

Invalid route code *%s* specified for LOGFILE WTO.

Description

Invalid route code specified for LOGFILE(WTO(x)) where x must be numeric between 0 and 128.

Action

Fix route code to be a numeric value between 0 and 128. Specify LOGFILE(WTO(0)) to ignore the routing code.

Fields

- Value specified for routing code.

SOV05007I

Log Messages are being directed to the MVS console with routing code *%d*.

Description

Log message manager output has been directed to output the ExHPDM log file messages to consoles with the specified routing code.

Fields

- Value specified for routing code.

SOV05008W

Missing from log: *%s*

Description

Log message manager overflow occurred. A large number of messages were produced and the Log Message Manager could not keep up.

Action

If this occurs often then Contact StorageTek Software Support.

Fields

- Message which could not be printed to log.

See also

SOV05010E

SOV05010E

LMM Cell pool shortage writing to log. VLVT=*%08X* CPID=*%08X* ECPS=*%08X* Msg(1st 60)=*%1.60s* LongMsg(1st 60)=*%1.60s*

Description

ExHPDM Internal error indicating message manager processing overflow. May occur intermittently when ExHPDM is very busy. Messages may be omitted from the ExHPDM log.

Action

If this occurs often then Contact StorageTek Software Support.

Fields

- Log Vector Table processes at time of error.

- LMEC at time of error.
- Info code.
- Short message text at time of error.
- Long message text at time of error.

See also

SOV05008W

SOV05011E

Unable to initiate Log Message Manager (*%d %08X %08X*).

Description

During Log Message Manager startup, the ExHPDM mainline task failed to attach the Log Message Manager.

Action

Check that ExHPDM has been correctly installed. Refer to other errors issued for any indication of an installation error.

If the reason for the failure cannot be determined then consolidate other ExHPDM messages from the MVS Master trace and Contact StorageTek Software Support.

Fields

- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV05012I

Log Messages are being directed to *%s*.

Description

A request to change log files has been received and the old log file will be closed. A new log file will be opened or appended to.

Fields

- Name and type of new log file.

SOV05013I

Switched log file from *%s* to *%s*.

Description

A request to change log files has been processed and all log messages will now be directed to the new log file. The old log file has been closed.

Fields

- Name and type of old log file.
- Name and type of new log file.

SOV05014E

Unexpected raw message.

Description

Internal error: A raw message was encountered where only text was expected.

SOV05015E

Memory allocation error during raw message receive.

Description

Unable to allocate enough memory for the received raw message.

Action

- Free system resources or rerun ADMIN request with less streams / clients selected.

SOV06001W

Another SET LOGFILE command is already in progress.

Description

The specified SET LOGFILE request was not executed because a similar request is already in progress. Only one SET LOGFILE command can be processed at any one time.

Action

The ExHPDM DISPLAY OPTIONS PRM command may be issued to determined the current ’in progress’ destination for the SET LOGFILE command. While the LOGFILE shows an ’in progress’ status, as indicated by a C value, then another SET LOGFILE command cannot be entered. See SOV06900I for details on the format of this command output.

There could be an outstanding WTOR which is delaying the ’in progress’ SET LOGFILE command. Issue the MVS DISPLAY R,R,CN=(ALL) command to determine if there are any associated outstanding WTORs.

In addition, the ’in progress’ SET LOGFILE command could be delayed, for DSN destinations, due to a DFSMShsm recall being performed for the log file data set.

Reissue the SET LOGFILE command once the current ’in progress’ one completes.

SOV06002I

SET LOGFILE command from *%s* accepted.

Description

A SET LOGFILE command has been accepted by the specified user or console.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

SOV06007I

Shutdown command from *%s* accepted.

Description

An ExHPDM Shutdown command has been issued by the specified user or console.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

SOV06008W

MAXLIMIT *%d* change for REQUEST type *%s* ignored. Using startup MAXLIMIT *%d*.

Description

A SET PRM command was entered for a startup parameter file member that has indicated a change to the original chosen REQUEST MAXLIMIT value. This value can only be changed on a restart of the ExHPDM server. The original startup MAXLIMIT value will remain in use until the ExHPDM server is restarted.

Action

Restart the ExHPDM server to activate the new value.

Fields

- New MAXLIMIT value.
- Name of request processor type.
- Actual value being used.

SOV06009I

***%s* request processor reattached.**

Description

The specified permanent request processor has been reattached to process a new request, having previously terminated unexpectedly.

Fields

- Name of request processor.

See also

SOV03100E

SOV06011W

Last *%d* units in *%s* device definition ignored (max is *%d*).

Description

Units in a stream device definition unit list have been discarded because the number of units in the list is greater than the internal maximum limit.

This error is detected during ExHPDM server startup or during ExHPDM SET PRM operator command processing.

Action

Contact StorageTek Software Support.

Fields

- Number of units ignored.
- Stream device definition name.
- Maximum number of units possible for a device definition.

SOV06012E

Duplicate stream device definition name *%s*.

Description

There is more than one stream DEVICE definition with the specified name in the ExHPDM startup parameter file. Stream device definition names must be unique.

This error is detected during ExHPDM server startup or during ExHPDM SET PRM operator command processing.

Action

Edit the ExHPDM startup parameter file to ensure that stream device definition names are unique and restart ExHPDM or reissue the ExHPDM SET PRM command.

Fields

- Stream device definition name.

SOV06013W

***%d* device definitions were defined as DEFAULT.**

Description

More than one stream DEVICE definition had the DEFAULT keyword specified in the ExHPDM startup parameter file. Only the first one will be used as the default stream device.

This condition is detected during ExHPDM server startup or during ExHPDM SET PRM operator command processing.

Action

Review the ExHPDM startup parameter file to ensure that the desired stream device definition is being used as the default. To bring the change into effect, enter the SET PRM operator command or shutdown and restart ExHPDM.

Fields

- Number of device definitions with DEFAULT keyword.

See also

SOV06034I

SOV06014E

Duplicate stream definition name *%s*.

Description

There is more than one STREAM definition with the specified name in the ExHPDM startup parameter file. Stream definition names must be unique.

This error is detected during ExHPDM server startup or during ExHPDM SET PRM operator command processing.

Action

Edit the ExHPDM startup parameter file to ensure that stream definition names are unique and restart ExHPDM or reissue the ExHPDM SET PRM command.

Fields

- Stream definition name.

SOV06015W

Last *%d* devices in *%s* stream definition ignored (max is *%d*).

Description

Devices in a stream definition device list, in the ExHPDM startup parameter file, have been discarded because the number of devices in the list is greater than the internal maximum limit.

This condition is detected during ExHPDM server startup or during ExHPDM SET PRM operator command processing.

Action

Contact StorageTek Software Support.

Fields

- Number of devices ignored.
- Stream definition name.
- Maximum number of devices possible for a stream definition.

SOV06016W

Last *%d* streams in *%s* class definition ignored (max is *%d*).

Description

Streams in a stream class definition stream list, in the ExHPDM startup parameter file, have been discarded because the number of streams in the list is greater than the internal maximum limit.

This condition is detected during ExHPDM server startup or during ExHPDM SET PRM operator command processing.

Action

Contact StorageTek Software Support.

Fields

- Number of streams ignored.
- Stream class definition name.
- Maximum number of streams possible for a class definition.

SOV06017E

Duplicate class definition name *%s*.

Description

There is more than one CLASS definition with the specified name in the ExHPDM startup parameter file. Class definition names must be unique.

This error is detected during ExHPDM server startup or during ExHPDM SET PRM operator command processing.

Action

Edit the ExHPDM startup parameter file to ensure that class definition names are unique and restart the ExHPDM server or reissue the ExHPDM SET PRM operator command.

Fields

- Class definition name.

SOV06018W

Stream *%s* refers to nonexistent device *%s*.

Description

The specified STREAM definition contains a device name in the device list which does not have a DEVICE definition. The device is ignored.

This condition is detected during ExHPDM server startup or during ExHPDM SET PRM operator command processing.

Action

Edit the ExHPDM startup parameter file and either remove the device from the list or create a DEVICE definition for the device. To bring the change into effect, restart the ExHPDM server or reissue the SET PRM operator command.

Fields

- Stream definition name.
- Device name.

SOV06019W

Class *%s* refers to nonexistent stream *%s*.

Description

The specified CLASS definition contains a stream name in the stream list which does not have a STREAM definition. The stream is ignored.

This condition is detected during ExHPDM server startup or during ExHPDM SET PRM operator command processing.

Action

Edit the ExHPDM startup parameter file and either remove the stream from the list or create a STREAM definition for the stream. To bring the change into effect, enter the SET PRM operator command or shutdown and restart ExHPDM.

Fields

- Class definition name.
- Stream name.

See also

SOV06022E

SOV06020E

%s: %s

Description

Error message issued when parsing DD SUBSYS parameters.

Action

Review and correct any syntax or other errors in the DD SUBSYS parameters.

Fields

- Context: DD SUBSYS parms.
- Image of parser error message.

SOV06021E

Client *%s* DD *%s* DSN *%s*,
stream class *%s* is not defined.

Description

The stream class specified by the DD SUBSYS CLASS parameter or selected by the SELECT rules is not defined in the currently active parameter settings. The connection is rejected.

Action

Either change the DD SUBSYS CLASS parameter to a currently defined stream class, or edit the ExHPDM startup parameter file to define the CLASS and enter the SET PRM command to re-read the parameter file or shutdown and restart ExHPDM. Resubmit the job.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- DD name.
- Data set name.
- Stream class name.

SOV06022E

Nonexistent stream *%s* ignored for class *%s*
from connect request ID *%s*.

Description

A stream name in the class stream name list for the specified CONNECT request is not a currently defined ExHPDM stream name. The stream is not selected and ExHPDM stream selection processing continues searching for a stream to which the request can be connected.

Action

Edit the ExHPDM startup parameter file and either remove the stream from the list or create a STREAM definition for the stream. To bring the change into effect, enter the SET PRM operator command or shutdown and restart ExHPDM.

Fields

- Stream name.
- Class name.
- Request identifier.

See also

SOV06019W

SOV06023I

Selected class *%s* for connect request ID *%s* by matching rule *%s*.

Description

The connection request has been assigned to the indicated stream class because it matched the specified stream SELECT rule in the ExHPDM startup parameter file.

Fields

- Stream class name.
- Connect request identifier.
- SELECT rule name.

See also

SOV06024I, SOV06025I, SOV06031I

SOV06024I

Connect request ID *%s* matched EXCLUDE rule *%s*.

Description

The connection request will not be serviced by ExHPDM because it matched the specified EXCLUDE selection rule in the ExHPDM startup parameter file.

Fields

- Connect request identifier.
- SELECT rule name.

See also

SOV06023I, SOV06025I

SOV06025I

Connect request ID *%s* from *%s* for data set *%s* did not match any selection rule.

Description

The connection request will not be serviced by ExHPDM because it did not match any of the SELECT rules specified in the ExHPDM startup parameter file.

Action

If the connection request is to be processed by ExHPDM then create an appropriate SELECT rule in the ExHPDM startup parameter file. To bring the change into effect, enter the SET PRM operator command or shutdown and restart ExHPDM.

Alternatively, a DD SUBSYS CLASS specification may be used on the client connection DD to override the need for a SELECT rule.

Fields

- Connect request identifier.
- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Client data set name.

See also

SOV06023I, SOV06024I

SOV06026E

Connect request ID *%s* could not be assigned to any stream.

Description

The connection request will not be serviced by ExHPDM because it could not be assigned to any stream.

Action

If it is desired that requests should wait rather than be rejected, use WAIT(YES) on the STREAM definition or in the client DD SUBSYS connection request parameters.

Fields

- Connect request identifier.

See also

SOV06031I, SOV06032E, SOV06033E

SOV06027E

Access to stream *%s* by user *%s* denied.

Description

The read connection request was rejected because the requesting user is not authorized for read access to the required stream.

Action

If the indicated user is to have read access to the stream then update the security profile to allow read access to the required stream resource SOV.STREAM.stream name. Other system security messages (for example, ICH408I for RACF) may be issued to indicate the resource name being verified.

Fields

- Stream name.
- User ID.

See also

SOV01004I, SOV01005I, SOV01006W

SOV06028W

CLASS parameter ignored for read request.

Description

The CLASS parameter was supplied in the connection request parameters for a read request. Class selection is not relevant to read requests, so the parameter is ignored.

SOV06029E

%s: %s

Description

Error message issued when parsing DD SUBSYS parameters.

Action

Review and correct any syntax or other errors in the DD SUBSYS parameters.

Fields

- Context: Request not valid.
- Image of parser error message.

SOV06030I

Connection from *%s* rejected (*%d %08X %08X*).

Description

A connection was rejected because it failed connection validation processing.

Action

Refer to preceding messages for more information.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

See also

SOV01004I, SOV01005I, SOV06020E, SOV06021E

SOV06031I

***%s* connection ID *%s* for client *%s*:**
data set *%s* using stream *%s*,
uniquifier *%08X%08X*,
RECFM=*%s* BLKSIZE=*%s* LRECL=*%s* BUFNO=*%d*.
NORMAL=*%s*, ABNORMAL=*%s*

Description

The connection request for the indicated client has been accepted for the indicated data set has been assigned to the indicated stream.

Fields

- Connection request type: **Read** or **Write**.

- Connect request identifier assigned for the client connection.
- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*
- Client data set name.
- Assigned stream name.
- Client uniquifier in ExHPDM database (high word).
- Client uniquifier in ExHPDM database (low word).
- Client data set record format: **U**, **F**, **V**, **FB**, **VB**.
- Client data set block size or **unknown**.
- Client data set logical record length or **unknown**.
- Number of buffers taken from the BUFNO DD (JCL) parameter up to a maximum of 5.
- Action that will be taken for Client DSN on normal exit.
- Action that will be taken for Client DSN on abnormal exit.

See also

SOV06023 , SOV06026 , SOV06032 , SOV06033 , SOV06041 , SOV06084

SOV06032E

Read connection ID *%s* could not be processed by stream *%s* due to CONCURRENT limit.

Description

The specified read connection request could not be processed because the CONCURRENT limit for read has been reached on the stream to which the client data set was written, and WAIT(NO) was specified for the stream or request.

Action

Retry the request after one or more of the stream tasks on that stream have become inactive.

If the connection is to wait then use the WAIT(YES) parameter on the STREAM or DD SUBSYS parameters.

Fields

- Connect request identifier.
- Stream name.

See also

SOV06026E, SOV06031I, SOV06033E

SOV06033E

Connection ID *%s* could not be processed by stream *%s* due to CONCURRENT limit.

Description

The specified connection request could not be processed because the CONCURRENT limit for write has been reached on the stream to which the client was assigned, and WAIT(NO) was specified for the stream or request.

Action

Retry the request after one or more of the stream tasks on that stream have become inactive.

If the connection is to wait then use the WAIT(YES) parameter on the STREAM or DD SUBSYS parameters.

Fields

- Connect request identifier.
- Stream name.

See also

SOV06026E, SOV06031I, SOV06032E

SOV06034I

Stream *%s* will use the *%s* default device definition %s.

Description

The specified stream definition has no stream device names specified. If a DEVICE definition was specified as the DEFAULT device, it will be used. Otherwise, the internal default device of UNIT(CART) DEVL(16) RETAIN(0) will be used.

Fields

- Stream name.

- Value displayed as specified or internal.
- Stream device name.

See also

SOV06013W, SOV06018W

SOV06035E

Connection ID *%s* not processed because stream task initialization failed (*%d %08X %08X*).

Description

The specified connection request could not be processed because a new stream task failed to initialize and WAIT(NO) was specified for the stream or request.

Action

Retry the request after one or more of the stream tasks for the stream have completed.

If the connection is to wait then use the WAIT(YES) parameter on the STREAM or DD SUBSYS parameters.

Fields

- Connect request identifier.
- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

See also

SOV06026E, SOV06031I, SOV06032E, SOV06033E

SOV06036E

Connection ID *%s* not processed due to *%s*.

Description

The specified connection request could not be processed for the given reason; either SHUTDOWN IMMEDIATE, CANCEL STREAM or QUIESCE FORCE.

Action

Retry the request when ExHPDM is again ready to process connections; after a new stream can start, or the database or server are restarted.

Fields

- Connect request identifier.
- Reason for the request not being processed:

  SHUTDOWN IMMEDIATE
  CANCEL STREAM
  QUIESCE FORCE

See also

SOV06026E, SOV06031I, SOV06032E, SOV06033E, SOV03055E, SOV03054E

SOV06037E

***%s* stream task could not be started due to CONCURRENT limit.**

Description

A new stream task of the specified stream could not be started by the START STREAM command because the CONCURRENT limit for write stream tasks of that stream has been reached.

Action

Retry the START STREAM command after a stream task of that stream has terminated. If necessary, increase the CONCURRENT values for the stream in the startup parameter file.

Fields

- Stream name.

See also

SOV06210E

SOV06038E

Read request ID *%s* for client *%s*
data set *%s* could not be processed
because the stream DSN could not be found in the database.

Description

A read connection could not be processed because the stream data set name for the requested client data set could not be found in the ExHPDM database. This may be due to a job trying to use ExHPDM to read a data set that was not written with ExHPDM.

Action

Ensure that the client job is reading a data set was written with ExHPDM, and more specifically, an ExHPDM instance that was using the same database as the present instance that is trying to perform the read.

Fields

- Request ID.
- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Client data set name.

SOV06039E

Read request ID *%s* for client *%s*
data set *%s* could not be processed
because the data set was not in the database.

Description

A read connection could not be processed because a client entry for the requested client data set could not be found in the ExHPDM database. This may be due to a job trying to use ExHPDM to read a data set that was not written with ExHPDM.

Action

Ensure that the client job is reading a data set was written with ExHPDM, and more specifically, an ExHPDM instance that was using the same database as the present instance that is trying to perform the read.

Fields

- Request ID.
- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Client data set name.

SOV06040E

Nonexistent stream *%s* for read data set *%s* request ID *%s*.

Description

The stream name in the database for the specified data set is not a currently defined ExHPDM stream name. The read request is not processed.

Action

Ensure that the specified stream name is defined in the ExHPDM startup parameter file. To bring the change into effect, enter the SET PRM operator command or shutdown and restart ExHPDM.

Fields

- Stream name.
- Data set name.
- Request identifier.

SOV06041I

**Stream file *%s*, created on *%s*, unit *%04X*,
generic device *%s*, esoteric *%-12.12s*.**

Description

Additional information for read clients, following message SOV06031I. This message provides information on the stream file which contains the client's data set.

Fields

- Stream file data set name.
- Creation date of stream file.
- Unit number on which originally written.
- Generic device name.
- Esoteric device name.

See also

SOV06031I

SOV06042E

**Connection ID *%s* for data set *%s* could not be
processed because required volume %s could not be allocated.**

Description

A volume containing the stream file required for the client data set could not be allocated. This is often because the volume is in use by a write stream task, and the failed request is a read request for a client data set that is stored in the same stream file.

Action

Retry the request when the stream task or other job using the required volume has terminated.

Fields

- Connection identifier.
- Client data set name.
- Volume serial.

SOV06043I

Stream *%s* task *%s* has been terminated.

Description

The specified stream task has been terminated due to a CANCEL STREAM request.

Fields

- Stream name.
- Unique stream task identifier.

SOV06044E

Connection ID *%s* for DD *%s* DSN *%s* could not be processed because no units for stream *%s* could be allocated.

Description

The specified connection could not be processed because allocation failed on all devices defined for the stream that needed to be started to process the connection.

Action

Examine the ExHPDM parameter file STREAM and DEVICE specifications to find out which devices should be available to the required stream. Retry the request when one or more such devices are online and available for use by ExHPDM.

Fields

- Connection identifier.
- Client DD name.

- Client data set name.
- Stream name.

SOV06045I

Connection ID *%s* for DD *%s* from *%s* is waiting.

Description

The specified connection is waiting for a stream task to become available because the connection has WAIT(YES) specified (or defaulted) and no stream task is currently able to process the connection.

Action

The connection waits for a stream task to become able to process the connection.

If waiting is no longer desired then the connection can be cancelled with the CANCEL CONNECTION command.

Fields

- Connection identifier.
- Client DD name.
- Client job identifier.

SOV06046E

Connection ID *%s* for DD *%s* DSN *%s*
could not be processed because the operator ended allocation
for stream task ID *%s*.

Description

The specified connection could not be processed because the operator replied END to message SOV06223W, causing the stream task to exit without trying to allocate another tape unit. This processing only occurs when ALLOC(WAIT) is used on the relevant DEVICE definition.

Action

Examine the ExHPDM parameter file STREAM and DEVICE specifications to find out which devices should be available to the required stream. Retry the request when one or more such devices are online and available for use by ExHPDM.

Fields

- Connection identifier.
- Client DD name.

- Client data set name.
- Unique stream task identifier.

See also

SOV06223W

SOV06047E

Connection ID *%s* for DD *%s* DSN *%s*
could not be processed because stream task ID *%s* was cancelled.

Description

The specified connection could not be processed because the operator cancelled the stream task while it was waiting for a reply to message SOV06223W. This processing only occurs when ALLOC(WAIT) is used on the relevant DEVICE definition.

Action

Examine the ExHPDM parameter file STREAM and DEVICE specifications to find out which devices should be available to the required stream. Retry the request when one or more such devices are online and available for use by ExHPDM.

Fields

- Connection identifier.
- Client DD name.
- Client data set name.
- Unique stream task identifier.

See also

SOV06223W

SOV06048E

Connection ID *%s* for DD *%s* DSN *%s*
could not be processed because stream task ID *%s* was cancelled.

Description

The specified connection could not be processed because the operator cancelled the stream task while it was starting up.

Fields

- Connection identifier.
- Client DD name.

- Client data set name.
- Unique stream task identifier.

SOV06049E

%s: %s

Description

Error message issued when parsing operator command parameters.

Action

Review and correct any syntax or other errors in the operator command parameters and reissue command.

Fields

- Context: Operator command parms.
- Image of parser error message.

SOV06050I

Total requests: Active *%d,* Waiting *%d*

Description

Total number of requests as a result of DISPLAY REQUESTS command.

Fields

- Total Active Requests.
- Total Waiting Requests.

See also

SOV06052I, SOV06051I

SOV06051I

%10s:
Req ID Status Request
------ ------ ----------
%-6.6s %-7.7s %-1.54s

Description

Output as a result of a DISPLAY REQUEST DETAIL command.

Fields

- Request type name:

  ADMIN
  Request is from SOVADMN.

  CONNECT
  Request is for access to an ExHPDM stream by a client job.

  OPERCMD
  Request is for an ExHPDM operator command.

  VALIDATE
  Request is for verification during client job data set allocation.

- Unique ExHPDM generated request ID.
- Client request status as follows:

  Active
  The client request has been accepted and is being processed by the ExHPDM server.

  Waiting
  The client request has been given to the ExHPDM server; however, it has not yet been accepted for processing.

  Term-C
  The client request has been completed by the ExHPDM server which is waiting for client acknowledgement.

  Term-S
  The client requester has terminated. The ExHPDM server is currently cleaning up the request resources.

  Delayed
  The client connection has been accepted; however, it is not currently being processed by a stream task. The delay might be caused because there are not enough stream tasks active or, for read connections, there are more than 200 connections to the same stream.

  MissBus
  The client connection is waiting because its first data block in the stream file has been passed. This value is valid only for read connections.

  PendAct
  The client connection is waiting for its first data block. This value is valid only for read connections.

Termd
The client connection has reached end-of-file and is waiting for the connection to be completed. This value is valid only for read connections.

Rewind
The client connection is active, but has been suspended because another client has caused the tape transport to be repositioned. This value is valid only for read connections.

SStream
The client connection is a result of a START STREAM request and is waiting for the stream to complete initialization. Once the stream completes initialization the client will terminate.

ReadBlk
The client connection has had a block read by its assigned stream. The stream is currently waiting for the client to take the block prior to reading the next stream file block.

WritBlk
The client connection is currently having a block written to the stream file.

Error
An internal error has been detected.

- Request command being processed for the client. Contains up to 3 sections of information regarding the request:

  Line 1
  Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name***.***job identifier***.***job step name*
  JOB:*job name***.***job step name***.***proc step name*

  Line 2 to Line n
  Up to 10 lines of command used to invoke this request.
  For CONNECT requests this is the DD SUBSYS parameters or the ExHPDM operator command used to perform a START STREAM request.
  If there is no command then this line is not displayed (for example, there are no DD SUBSYS parameters for a CONNECT request).
  If there are more than 10 lines of command output then the final (10th) line will contain the string **MORE...** to indicate that the output was truncated in this display.

  Line n+1
  Only displayed for CONNECT requests. This is the data set name used for the connection request.

See also

SOV06050

SOV06052I

Request Type Active Waiting
---------- ------ -------
%-10s %6d %6d

Description

Summary output for each request type as a result of a DISPLAY REQUEST SUMMARY command. Each request type indicates the number of active and waiting requests.

Fields

- Request type name:

  ADMIN
  Request is from SOVADMN.

  CONNECT
  Request is for access to an ExHPDM stream by a client job.

  OPERCMD
  Request is for an ExHPDM operator command.

  VALIDATE
  Request is for verification during client job data set allocation.

- Number of active requests. These are requests that have been accepted and are currently being processed by ExHPDM.
- Number of waiting requests. These are requests that have been given to the ExHPDM server that have not yet been accepted for processing.

SOV06053I

Total stream tasks : *%u* Connections : *%u*
Selected stream tasks : *%u* Connections : *%u*

Description

Summary result of a DISPLAY STREAM command.

Fields

- Total number of stream tasks.
- Total number of connections.

- Number of stream tasks selected by the command.
- Number of connections selected by the command.

See also

SOV06054I, SOV06055I

SOV06054I

```
Stream   Tasks   Connections
-------- ------- -----------
%-8.8s   %7u     %11u
```

Description

Result of the DISPLAY STREAM SUMMARY command.

Action

A detailed list of streams may be displayed with the DISPLAY STREAM DETAIL command.

Fields

- Stream name.
- Number of stream tasks active for the stream name.
- Number of connections active for the stream name.

See also

SOV06053I, SOV06055I

SOV06055I

Text form 1

Stream : *%s* ID : *%s* Device : *%04X* VOL : *%6s*
File : *%s*
%s* Flow Rate : *%u* KB/sec Blocks : *%u
Separation : [Jobname(*%s*)] [User()]
[Dsnlevel(*%u*:*%u* ...)]
Instantaneous Flow Rate : *%u* KB/sec
Status : *%s*
Volumes : Current *%u*, NNCA *%u*, Max *%u*
Elapse Time (HH:MM:SS) : *%8s*

Client ASID	Client Name	Client DD	Connection Class ID	Blocks HH:MM:SS	Elapse Time
%04X	*%-8.8s*	*%-8.8s*	*%10.10s*	*%-9.9s*	*%8u* *%s %s* S

Text form 2

Stream : *%s* ID : *%s* Device : *%04X* VOL : *%6s*
File : *%s*
%s* Flow Rate : *%u* KB/sec Blocks : *%u
Separation : [Jobname(*%s*)] [User()]
[Dsnlevel(*%u*:*%u* ...)]
Instantaneous Flow Rate : *%u* KB/sec
Status : *%s*
Volumes : Current *%u*, NNCA *%u*, Max *%u*
Elapse Time (HH:MM:SS) : *%8s*
Retain Time (HH:MM:SS) : *%8s* Remaining : *%8s*

Description

Result of the DISPLAY STREAM DETAIL command. The output format varies depending on whether or not the stream task is waiting. When the stream task status indicates that it is waiting then the retain period is in effect and the second message format is used.

Fields

- **Stream**
  Stream name for stream task.
- **ID**
  Unique stream IDentifier.
- **Device**
  Allocated device number. Where multiple devices have been allocated due to the DEVICE UNITCNT specification then the device currently being used is displayed. This field is left blank until the first volume has been mounted.

- **VOL**
  Currently mounted volume serial. This field is left blank until the first volume has been mounted.

- **File**
  Stream file name.

- **Read** or **Write** stream task indicator.

- **Flow Rate**
  Summation of all current connection Effective Flow Increase values as specified on each connection CLASS. Only set for Write streams.

- **Blocks**
  Total number of blocks read or written.

- **Separation**
  Optional stream task separation criteria. When streams are to be separated by jobname, user, or DSN level, the active criteria will be listed. When streams are to be separated but not yet allocated, “Not Allocated” will appear for the criteria value.

- **Instantaneous Flow Rate**
  The stream instantaneous flow rate.

- **Status**
  Stream task status. Indicates the processing status for the stream task. When the status is Waiting then the stream task is in RETAIN processing. The second format of the DISPLAY STREAM output shown above is displayed. Any other status will result in the first format of DISPLAY STREAM output being displayed.

- **Volumes**
  Volume counts. Only displayed for write streams. The current, threshold (NNCA), and maximum number of volume serials are displayed.

- **Elapse Time**
  Total amount of time, displayed in format HH:MM:SS, that the stream task has been active.

Fields form 1 only

- **Client ASID**
  Client address space ID.

- **Client Name**
  Client job name.

- **Client DD**
  Client connection DD name.

- **Connection ID**
  Unique connection ID for the client DD.

- **Class**
  Stream class name used for the write connection. If the CLASS has an Effective Flow Increase then this will be part of the summed figure in Flow Rate. Set to N/A for read streams.

- **Blocks**
  Number of blocks read by the stream task for this connection. Note that if another client connection has forced the stream file to rewind due to READSYNCH CATCHUP processing then this block count will additionally be incremented when the stream task re-reads blocks already processed by the connection. However, these already read blocks will not be given to the client connection.

- **I/O Indicator**
  Indicates via * whether the client connection is currently performing I/O with the stream.

  For a write connection a block is currently being written by the stream for the connection.

  For a read connection the stream is waiting for the client to read the current block from the stream. While the stream is waiting for the client to read the block no other client connections can be serviced. If the block count for the connection does not appear to be incrementing over a period of time then this could indicate that the client connection is waiting for operator intervention or some other interlock condition exists.

- **Elapse Time**
  Total elapse time, displayed in format HH:MM:SS, for the connection.

Fields form 2 only

- **Retain Time**
  Total amount of time, displayed in format HH:MM:SS, specified for the stream tasks selected DEVICE definition RETAIN period.

- **Remaining**
  Total amount of time, displayed in format HH:MM:SS, that is remaining from the DEVICE definition RETAIN period prior to the stream task terminating.

See also

SOV06053I, SOV06054I

SOV06056E

Supplied ID (*%s*) is not a stream task ID.

Description

The identifier supplied on a DISPLAY STREAM or CANCEL STREAM command is an identifier of something other than a stream task.

Action

Use the DISPLAY STREAM ALL command to list all stream tasks. Re-enter the DISPLAY STREAM command for a stream task identifier found in the output of the DISPLAY STREAM ALL command. Alternatively, supply a stream name rather than a stream identifier on the DISPLAY STREAM command.

Fields

- ID number supplied.

See also

SOV06054I, SOV06055I

SOV06057E

There is no currently defined stream identified by *%s*.

Description

The name or identifier supplied on the DISPLAY STREAM or CANCEL STREAM command does not exist as an identifier, and there is no currently defined stream with that name.

Action

Use the DISPLAY STREAM ALL command to list all stream tasks. Re-enter the DISPLAY STREAM command for a stream task identifier found in the output of the DISPLAY STREAM ALL command. Alternatively, supply a stream name rather than a stream identifier on the DISPLAY STREAM command.

Fields

- ID number or stream name supplied.

See also

SOV06054I, SOV06055I

SOV06058I

Total Connections : *%u*
Selected Connections : *%u*

Description

Summary result of DISPLAY CONNECTION command.

See also

SOV06059I

SOV06059I

```
Connection    Client     Stream     Flow Rate    R/W   IFR
  ID          ASID       ID         KB/sec             KB/sec
----------  ----------  ----------  ----------  ---  ------
%10.10s          %04X  %10.10s     %11u          %c   %6u
```

Description

Result of the DISPLAY CONNECTION DETAIL command.

Fields

- Connection identifier.
- Client address space ID.
- Stream task identifier.
- Current flow rate for the connection. This is calculated as the number of blocks written over the connection elapse time period including any delays caused by tape mount processing.
- Type of connection: **R** (read) or **W** (write).

See also

SOV06058I

SOV06060E

Supplied ID (*%s*) is not a connection ID.

Description

The identifier supplied on the DISPLAY CONNECTION or CANCEL CONNECTION command is not a connection identifier.

Action

Use the DISPLAY STREAM ALL DETAIL command to list all connections. Re-enter the DISPLAY CONNECTION command for a connection identifier found in the output of the DISPLAY CONNECTION ALL command. Alternatively, use the DISPLAY CONNECTION CLIENT or DISPLAY CONNECTION STREAM forms of the DISPLAY CONNECTION command to select connections by client or stream identifier.

Fields

- ID number supplied.

See also

SOV06055I

SOV06061E

Supplied name (*%s*) is not a currently defined stream.

Description

The name supplied on the START STREAM command is not a currently defined stream name.

Action

A list of currently defined stream names can be displayed with the DISPLAY STREAM ALL command.

SOV06062E

***%s* access to data set *%s* by user *%s* denied.**

Description

SAF has denied access to the requested data set for the requesting user.

Action

Examine the ExHPDM log and the system log for further information. Addition system security messages (for example, ICH408I for RACF) will be issued to indicate the reason for the access failure.

Fields

- Read or Write.
- Data set name.
- User ID.

See also

SOV01004I, SOV01005I, SOV01006W

SOV06063E

Access to class *%s* by user *%s* denied.

Description

SAF has denied access to the ExHPDM stream class selected by the SELECT rules to the requesting user. The stream class SAF resource name is SOV.STREAM.stream class name.

Action

Examine the ExHPDM log and the system log for further information. Ensure that the SELECT rules select a class which the user can access or update the SOV.STREAM.stream class name resource to allow the user read access. Other system security messages (for example, ICH408I for RACF) may be issued to indicate the resource name being verified.

Fields

- Stream class name.
- User ID.

See also

SOV01004I, SOV01005I, SOV01006W

SOV06064I

Select rule %s parameters:
CLASS : *%s*
MGMT : *%s*
DSN : *%s*
JOB : *%s*
STEP : *%s*
PROCSTEP: *%s*
SYSNAME : *%s*
USER : *%s*
PROGRAM : *%s*
XMODE : *%s*

Description

Display of the ExHPDM startup parameter file SELECT rules as a result of the DISPLAY OPTION PRM DETAIL command. Where a selection rule parameter allows a list of entries then each entry is an OR condition for matching. Each different selection parameter type forms an AND condition with the other types. Only those selection rule parameter types specified in the selection rule will be displayed.

Fields

- Select rule name.
- **CLASS**
  Class name that the rule selects, or EXCLUDE.

- **MGMT**
  Management name that the rule selects.
- **DSN**
  List of selection rule data set names.
- **JOB**
  List of selection rule job names.
- **STEP**
  List of selection rule job step names.
- **PROCSTEP**
  List of selection rule proc step names.
- **SYSNAME**
  List of selection rule system names.
- **USER**
  List of selection rule user names.
- **PROGRAM**
  List of selection rule program names.
- **XMODE**
  Selection rule execution mode: BATCH, TSO or STC.

SOV06065I

Class *%s* : EFI = *%u* KB/s, Max connections = *%u*
Connections = *%u*, Management = *%s*
Streams : *%s*

Description

Display of the ExHPDM startup parameter file CLASS definition as a result of the DISPLAY OPTION PRM DETAIL command.

Fields

- Class name.
- Expected Flow Increase in kB/sec.
- Maximum number of connections allowed (0 is no limit).
- Current number of connections.
- Specified Management name, or **<none>**.
- List of streams that can be used by this class.

SOV06066I

Device *%s* : Max Connections = *%u*, Connections = *%u*
Retain period = *%u* (W) *%u* (R), Flow limit = *%u* KB/s
Block size = %s
Allocation options : *%s %s*
Write volume counts : Max *%u*, No new clients after *%d*
Units : *%s*
Device Type: %s

Description

Display of the ExHPDM startup parameter file DEVICE definition as a result of the DISPLAY OPTION PRM DETAIL command.

Fields

- Device name.
- Maximum number of connections allowed (0 is no limit).
- Current number of connections.
- Device retain interval in seconds for write streams.
- Device retain interval in seconds for read streams.
- Flow limit in kB/sec (0 is no limit).
- Block size to be used for this device.
- Indicates whether ALLOC(WAIT) or ALLOC(NOWAIT) was specified.
- Indicates whether ALLOC(CONSIDEROFFLINEDEVICES) was specified.
- Maximum volume count for write streams. The value displayed here may be larger than the value specified in the startup parameters, because the value is rounded up to a multiple of 15, plus 5 (5, 20, 35, 50 and so on). The minimum value will be 5, and the maximum 255.
- Volume limit. When this number of volumes is used in a write stream, no further clients will be added to the stream; however, existing clients will be allowed to complete if possible.
- List of units that can be used by this device definition.
- Indicates whether the device type has been specified in the SOVPARMS or has been generated.

SOV06067I

Total Connections : *%u*
Selected Connections : *%u*

Description

Summary result of a DISPLAY CLIENT command.

Fields

- Total number of connections.
- Number of connections selected by the command.

See also

SOV06068I, SOV06069I

SOV06068I

```
Client                          ASID    Identifiers     Status
                                        Connection Stream
------------------------------- ----  ---------- ------  -------
%-30.30s                        %04X  %10.10s    %6.6s   %s
```

Description

Display of the current client connection requests as a result of DISPLAY CLIENT SUMMARY command.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Clients MVS address space identifier.
- Clients ExHPDM connection identifier.
- Stream task identifier that the connection is utilizing or ***Wait*** if the connection has not yet been assigned to a stream task.
- Client request status as follows:

  Active
  The client request has been accepted and is being processed by the ExHPDM server.

  Waiting
  The client request has been given to the ExHPDM server; however, it has not yet been accepted for processing.

  Term-C
  The client request has been completed by the ExHPDM server, which is waiting for client acknowledgement.

SOV06071E

Write connection for client %s DD %s DSN %s could not be processed because ExHPDM is in DR mode.

Description

An attempt was made to write data via ExHPDM while in disaster recovery mode. Only read connections are allowed in disaster recovery mode.

Action

To exit disaster recovery mode, ExHPDM must be shut down and restarted without the DR keyword on the ExHPDM server started task PROC.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- DD name.
- Data set name.

See also

SOV03094W, SOV06953E

SOV06072I

**Deleted unused empty stream file *%s*,
released allocated volume*%s*: *%s***

Description

Empty stream file deleted from database.

SOV06080E

**Client *%s* DD *%s* DSN *%s*,
management *%s* is not defined.**

Description

The management parameters specified by the DD SUBSYS MANAGEMENT parameter or selected by the SELECT rule or CLASS is not defined in the currently active ExHPDM parameter file. The connection is rejected.

SOV06069I

Client : ***%s*** **ASID :** ***%04X***
Instantaneous Flow Rate : ***%u*** **KB/sec**

DD name	Data Set Name	Identifiers	
		Connect	Stream
---	---	---	---
%-8.8s	*%-44.44s*	*%7.7s*	*%6.6s*

Description

Display of the current client connection requests as a result of DISPLAY CLIENT DETAIL command.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Clients MVS address space identifier.
- Clients instantaneous flow rate.
- Clients DD name.
- Clients data set name.
- Clients ExHPDM connection identifier.
- Stream task identifier that the connection is utilizing or ***Wait*** if the connection has not yet been assigned to a stream task.

See also

SOV06067I, SOV06068I

SOV06070W

No clients matching supplied job identifier or ASID.

Description

No clients matched the supplied job identifier and/or address space identifier (ASID) on the DISPLAY CLIENT command.

SOV06071E

Write connection for client *%s* DD *%s* DSN *%s*
could not be processed because ExHPDM is in DR mode.

Description

An attempt was made to write data via ExHPDM while in disaster recovery mode. Only read connections are allowed in disaster recovery mode.

Action

To exit disaster recovery mode, ExHPDM must be shut down and restarted without the DR keyword on the ExHPDM server started task PROC.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- DD name.
- Dataset name.

See also

SOV03094W, SOV06953E

SOV06072I

Deleted unused empty stream file *%s*,
released allocated volume*%s*: *%s*

Description

Empty stream file deleted from database.

SOV06073E

Write connection for client *%s* DD *%s* DSN *%s* refused as the
ExHPDM *%s* license key has expired.

Description

The ExHPDM license key has expired resulting in the product only providing read access to the stream files.

Action

Request a new license key from StorageTek.

Fields

- Client name.
- Client DD name.
- Client dataset name.
- License key type: Permanent, Emergency, Temporary, or Default.

SOV06080E

Client %s DD %s DSN %s, management %s is not defined.

Action

Either change the DD SUBSYS MANAGEMENT parameter to a currently defined management definition, or edit the ExHPDM parameter file to define the MANAGEMENT and enter the SET PRM command to re-read the parameter file or restart ExHPDM. Resubmit the job.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- DD name.
- Data set name.
- Management name.

SOV06081E

Duplicate management definition name *%s*.

Description

There is more than one MANAGEMENT definition with the specified name. Management definition names must be unique.

Action

Edit the ExHPDM startup parameter file to ensure that management definition names are unique and enter the SET PRM command to re-read the parameter file or restart ExHPDM.

Fields

- Management definition name.

SOV06082I

Management *%s* : *%s*

Description

Information about a currently defined management from the DISPLAY PRM DETAIL command.

Fields

- Management name.
- Management parameters.

SOV06083E

Read request ID %s for client %s
data set %s could not be processed because
the generation selection parameters did not refer
to a valid generation of that client.

Description

A read connection could not be processed because a client entry for the requested client data set could not be found in the ExHPDM database. This was because an invalid generation was specified in the DD SUBSYS 'GEN' parameter.

Action

Issue an ADMIN DB LIST CLIENT(DSN(dsn_name) GEN(ALL)) job to obtain a listing of valid client generations for the given client data set name.

Fields

- Request ID.
- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Client data set name.

See also

SOV06039E

SOV06084I

Management reference %s %s

Description

For a write client, this indicates which, if any, management definition is being used. The management reference name may be obtained from the DD SUBSYS parameters, the SELECT definition, or the CLASS definition. The reference name indicates which of the MGMT definitions was selected from the startup parameter file.

Fields

- Management reference name, or <NONE> if none specified.
- Management definition (reserved for future use, currently blank).

See also

SOV06031I

SOV06085W

%s stream task (ID %s) START failed.

Description

An ExHPDM START STREAM operator command was issued; however, the indicated stream task was terminated prior to completing intialization.

Action

Refer to other messages in the ExHPDM logfile to determine the reason for the failure. For example, an ExHPDM CANCEL command may have been issued for the indicated stream task.

Fields

- Stream name.
- Unique identifier.

SOV06086E

Connection ID *%s* for DD *%s* DSN *%s* could not be processed because stream dataset *%s* could not be allocated.

Description

The specified connection could not be processed because allocation failed for the stream dataset.

Action

Examine why the stream dataset could not be allocated. Perhaps the stream dataset was already allocated to another task. Examine the ExHPDM parameter file STREAM file specifications and include WAIT(YES) with or without a RETRYPERIOD to retry the request when the allocation is unsuccessful.

Fields

- Connection identifier.
- Client DD name.
- Client dataset name.
- Stream dataset name.

SOV06090I

Client : *%s* ASID : *%04X*
Meas. interval -> *%8ss* *%8ss* *%8ss*
Avg kB/s *%u* *%u* *%u*
Max kB/s *%u* *%u* *%u*
Min kB/s *%u* *%u* *%u*
Variance kB/s *%u* *%u* *%u*

Description

Result of the DISPLAY CLIENT PERFORMANCE command.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Clients MVS address space identifier.
- Samples in last 1 second interval
- Samples in last 10 second interval
- Samples in last 120 second interval
- Average flow rate over last 1 second interval
- Average flow rate over last 10 second interval
- Average flow rate over last 120 second interval
- Maximum flow rate over last 1 second interval

- Maximum flow rate over last 10 second interval
- Maximum flow rate over last 120 second interval
- Minimum flow rate over last 1 second interval
- Minimum flow rate over last 10 second interval
- Minimum flow rate over last 120 second interval
- Variance flow rate over last 1 second interval
- Variance flow rate over last 10 second interval
- Variance flow rate over last 120 second interval

See also

SOV06069I

SOV06095I

Stream : ***%s*** **ID** ***:*** ***%s*** **Device :** ***%s*** **VOL :** ***%6s***
Meas. interval -> ***%8ss*** ***%8ss*** ***%8ss***
Avg kB/s ***%u*** ***%u*** ***%u***
Max kB/s ***%u*** ***%u*** ***%u***
Min kB/s ***%u*** ***%u*** ***%u***
Variance kB/s ***%u*** ***%u*** ***%u***

Description

Result of the DISPLAY STREAM PERFORMANCE command.

Fields

- Stream name.
- Connection identifier.
- Device address.
- Mounted volume serial.
- Samples in last 1 second interval
- Samples in last 10 second interval
- Samples in last 120 second interval
- Average flow rate over last 1 second interval
- Average flow rate over last 10 second interval
- Average flow rate over last 120 second interval
- Maximum flow rate over last 1 second interval

- Maximum flow rate over last 10 second interval
- Maximum flow rate over last 120 second interval
- Minimum flow rate over last 1 second interval
- Minimum flow rate over last 10 second interval
- Minimum flow rate over last 120 second interval
- Variance flow rate over last 1 second interval
- Variance flow rate over last 10 second interval
- Variance flow rate over last 120 second interval

See also

SOV06055I

SOV06097I

Connection : *%s* Client ASID : *%04X* Stream Id : *%s*
Meas. interval -> *%8s*s *%8s*s *%8s*s
Avg kB/s *%u* *%u* *%u*
Max kB/s *%u* *%u* *%u*
Min kB/s *%u* *%u* *%u*
Variance kB/s *%u* *%u* *%u*

Description

Result of the DISPLAY CONNECTION PERFORMANCE command.

Fields

- Connection identifier.
- Clients address space id.
- Stream identifier.
- Samples in last 1 second interval
- Samples in last 10 second interval
- Samples in last 120 second interval
- Average flow rate over last 1 second interval
- Average flow rate over last 10 second interval
- Average flow rate over last 120 second interval
- Maximum flow rate over last 1 second interval
- Maximum flow rate over last 10 second interval

- Maximum flow rate over last 120 second interval
- Minimum flow rate over last 1 second interval
- Minimum flow rate over last 10 second interval
- Minimum flow rate over last 120 second interval
- Variance flow rate over last 1 second interval
- Variance flow rate over last 10 second interval
- Variance flow rate over last 120 second interval

See also

SOV06059I

SOV06100W

Converting SHUTDOWN *%s* into SHUTDOWN NORMAL.

Description

An ExHPDM SHUTDOWN IMMEDIATE command has been issued without first attempting SHUTDOWN NORMAL. The command is converted to SHUTDOWN NORMAL.

Action

If a SHUTDOWN IMMEDIATE is required then enter the command again.

Fields

- IMMEDIATE.

SOV06102I

SHUTDOWN *%s* issued

Description

A command to shutdown ExHPDM has been issued.

Fields

- Shutdown type: NORMAL or IMMEDIATE.

SOV06103I

SET PRM command from *%s* accepted with member *%s* suffix *%s*.

Description

A SET PRM command has been issued, with the MEMBER and suffix values as shown. These are taken from the SET PRM command or the existing values as set at startup or a previous SET PRM command. The current MEMBER and suffix values may be displayed using the ExHPDM DISPLAY OPTIONS STARTUP operator command.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Member name prefix.
- Member name suffix.

SOV06105W

Another SET PRM command is already in progress.

Description

The specified SET PRM request was not executed because a similar request is already in progress.

Only one SET PRM command can be processed at any one time.

Action

Reissue command.

SOV06106E

START STREAM failed for stream *%s* (*%d %08X %08X*).

Description

An attempt to start a stream task for an ExHPDM START STREAM command on the specified stream failed.

Action

See prior messages for the reason for the START STREAM command failure.

Fields

- Stream name.
- Internal diagnostic return code.

- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV06200E

I/O error: *%s*

Description

An I/O error occurred when processing a stream file.

Action

This error could indicate a problem with the device that the stream file is currently using. The ExHPDM log file could contain other messages to indicate the reason for the failure. If a hardware problem is suspected then refer the problem to hardware support, otherwise Contact StorageTek Software Support.

Fields

- I/O error message returned by MVS SYNAD processing.

SOV06201E

I/O error: no message

Description

An I/O error occurred when processing a stream file, but a formatted SYNAD message was not obtained.

Action

This error could indicate a problem with the device that the stream file is currently using. The ExHPDM log file could contain other messages to indicate the reason for the failure. If a hardware problem is suspected then refer the problem to hardware support, otherwise Contact StorageTek Software Support.

SOV06202E

I/O error could not be processed: *%08X, %d %08X %08X*

Description

An internal error has occurred during ExHPDM processing. A trace back will be produced following this message.

Action

Contact StorageTek Software Support.

Fields

- Post code from original I/O request.
- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV06203W

Client *%s*, DSN *%s* has terminated.

Description

The indicated client has terminated prematurely. This could be owing to an MVS cancel command, or the client may have abended.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Client data set name.

SOV06204I

Write client *%s*, DSN *%s* completed:
uniquifier *%08X%08X*
started *%s*, ended *%s*, elapsed *%s*
total blocks *%u*, I/O time *%s*, delayed *%s* (*%5.1f%*)
avg kB/sec *%u*, I/O utilization *%5.1f%*

Description

Message issued to write client when it closes a connection normally. This is displayed in the client JESYSMSG data set. This message (and message SOV06212I for read clients) contains some useful statistics. The following description applies to both this message and message SOV06212I unless otherwise noted.

Each field is described in detail here:

Write/Read client *%s*, DSN *%s* completed:
Client job identifier and data set name.

uniquifier *%08X%08X*

Client uniquifier. This 16-digit hex number uniquely identifies this client in the ExHPDM database.

started *%s*, ended *%s*, elapsed *%s*

The start time, end time and the difference between these (i.e. elapsed or stop-watch time). The start time is counted from the time the client becomes assigned to a particular stream task. This does not take into account some setup time, e.g., finding and starting the stream task. The end time is the time at which the client is no longer connected to the stream task. Typically, this would be when the client has written its last block (and issued CLOSE), or when the stream task had delivered the last block of data to the client.

The difference between the start and end times i.e. the elapsed time, is used in the computation of some of the following fields. Some of this elapsed time may include overhead not directly involved with data I/O, e.g., waiting for the tape transport to position over the required block. This can skew the results for small client files.

total blocks *%u*

The number of blocks, each of 256 kB, which were read or written by this client.

I/O time *%s*

For a write client, this is the approximate total time spent waiting for all its write I/Os to complete.

For a read client, this is the time spent reading blocks that actually belonged to this client. (Note that all blocks are read in sequence, but only the blocks that belonged to any one client are added to that client's I/O time). This time may well include event times which are not data I/O, e.g., end- of-volume processing.

delayed *%s* (*%f*) / total delay *%s* (*%f*)

This is computed slightly differently depending on whether this is a read or write client. For a write client, the delay time is defined as the approximate total time spent waiting because an I/O (for another client) was in progress. This implies that the delay time will be zero if there is only one client writing to a stream file at any one time. For write clients, ExHPDM uses a first-come-first-served algorithm for selecting which client's block to write.

Note: A small value for write delay is not necessarily a good thing, and having a reasonably large value may be desirable. The reason for this is that the whole purpose of ExHPDM is to fully utilize the channel to the tape device. If this delay value is zero or a small percentage of the elapsed time, then the channel is probably not being fully utilized, since ExHPDM is spending most of the time waiting for clients -- it should be spending most of its time waiting for the stream tape I/O to complete. The

percentage of the delay time (compared with the elapsed time) is printed parenthetically after the absolute value.

For a read client, the delay is not related to the stream tape I/O. Rather, it is the amount of time spent waiting for a client to accept the blocks that were read from the stream file which belonged to that client.

In this case, the aim should be to minimize the total delay figure, since a high value indicates that the read stream is being slowed down by this client. Unfortunately, there is little that can be done to change this figure, since the order of blocks on a tape is permanently set when the tape is written. The best utilization of a read stream will be achieved when all read clients (which have data on the same stream file) are submitted simultaneously. ExHPDM has a much better opportunity to optimize the performance of read clients if it knows about all clients at the start of processing.

avg kB/sec *%u*

This is simply computed as the total block count (times the selected block size, ie 256kB, 512kB, or 1024kB) divided by the elapsed time. This figure may be highly skewed for small client files, or for files which straddled two or more tape volumes. Note that this value cannot be extrapolated to a value for the stream file as a whole.

This figure may be useful for write streams where the stream was not highly loaded (as evidenced by small or zero delay percentage). In this case, the figure may be a reasonable approximation of the effective flow increase (EFI) that should be specified for clients of this type.

I/O utilization *%f*

This is the I/O time figure divided by the elapsed time. No great significance should be attached to this value, except that a large value on writes (over perhaps 25%) indicates that this client was capable of generating data quickly enough to 'hog' the stream file. This is not necessarily a bad thing, so long as some delay time is present which would indicate that other clients are generating enough data to fully load the tape device channel. If the value is small, e.g., 5%, this would indicate that the write stream could handle approximately 20 (100%/5%) of the same type of client simultaneously, with the same overall performance per client.

In summary, it should be noted that:

- The most useful statistic reported in messages SOV06204I and SOV06212I is the (total) delay field.
- The statistics reported for individual clients cannot be combined in order to make deductions about the stream file as a whole, with the trivial exception of the total block count. This is because almost all of the timings reported will overlap with other timings owing to the multi-tasking, asynchronous, nature of the processing that ExHPDM performs.
- When tuning ExHPDM for write performance, enough clients should be connected to a stream, simultaneously, so that the delay times reported for each client are above zero - a reasonable figure being anything above 5%.

- The best tuning for read performance actually occurs on the initial write. After the stream file is created, there is not much scope for tuning read performance other than by arranging for the maximum possible number of read clients to be started against the stream at the same time.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Client data set name.
- Client uniquifier in ExHPDM database (high word).
- Client uniquifier in ExHPDM database (low word).
- Time at which client started I/O operations.
- Time at which client ended I/O operations.
- Total elapsed time for I/O operations.
- Total number of blocks read or written.
- Elapsed time spent processing I/O on behalf of this client.
- Time spent waiting for an I/O for another client to complete.
- Delay time divided by elapsed time, as a percentage.
- Average kilobytes per second achieved.
- Utilization as the I/O time divided by elapsed time, as a percentage.

SOV06205E

Client *%s*, DSN *%s*:
failed at initialization, *%s*

Description

The client could not be initialized in the server address space.

Action

The client may have failed due to temporary resource shortage. Retry the job. If the error persists Contact StorageTek Software Support.

Fields

- Client requester displayed as follows:

CN:*console name or id*
TSO:*TSO user name*
STC:*proc name.job identifier.job step name*
JOB:*job name.job step name.proc step name*

- Client data set name.
- Reason for failure.

SOV06206E

Client *%s*, DSN *%s*:
streamfile I/O error when *%s*

Description

The server could not perform an I/O to the stream file when an I/O was attempted on behalf of this client.

Action

Retry the job

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Client data set name.
- General description of error.

SOV06207E

Client *%s*, DSN *%s*:
streamfile I/O error for unrelated client

Description

The server could not perform an I/O to the stream file that this client is using. The error occurred when a server stream task was processing an I/O for another client using the same stream file; however, the server has terminated all clients using the same stream file since the I/O error will potentially affect all clients.

Action

Examine the MVS system log for further diagnostic errors. This could indicate a hardware error. If a hardware problem is suspected then refer the problem to hardware support, otherwise Contact StorageTek Software Support. Retry the job.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Client data set name.

SOV06208E

Client *%s*, DSN *%s*:
terminated due to *%s* command.

Description

An operator issued either SHUTDOWN IMMEDIATE to the server, a CANCEL CONNECTION for this connection, a SET DATABASE QUIESCE for this server, or a CANCEL STREAM for this stream.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Client data set name.

- Reason for termination:

  SHUTDOWN IMMEDIATE
  CANCEL CONNECTION
  QUIESCE FORCE
  CANCEL STREAM

SOV06209E

Client *%s*, DSN *%s*:
processing error code *%08X*

Description

A general processing error occurred in the server address space.

Action

This message usually indicates an internal problem. If the cause of the symptom code cannot be determined, Contact StorageTek Software Support.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Client data set name.
- Error reason code.

SOV06210E

***%s* could not be started. Retain period for device *%s* is *%d*.**

Description

A stream task for the specified stream could not be started by the START STREAM command because RETAINPERIOD was specified on the command indicating that the DEVICE retain period is to start immediately, and the DEVICE RETAIN WRITE period for the selected device is zero.

Action

Either:

- restart the specific stream without using the RETAINPERIOD parameter on the START STREAM command, or
- update the DEVICE definition in the ExHPDM parameter file and enter the SET PRM command to re-read the parameter file or restart ExHPDM. Restart the stream task using the original START STREAM RETAINPERIOD command.

Fields

- Stream name.
- Device definition name.
- 0 (retain period).

See also

SOV06037E

SOV06211I

***%s %s* stream task (ID *%s*) started.**

Description

A new stream task of the specified stream has been started, and assigned the specified unique identifier.

Fields

- Stream name.
- Value displayed as read or write.
- Unique identifier.

SOV06212I

Read client *%s*, DSN *%s* completed:
uniquifier *%08X%08X*
started *%s*, ended *%s*, elapsed *%s*
total blocks *%u*, I/O time *%s*, total delay *%s* (*%5.1f%*)
avg kB/sec *%u*, I/O utilization *%5.1f%*

Description

Message issued to read client when it closes a connection normally. This message contains useful statistics. For a more comprehensive explanation of how to interpret the fields of this message, refer to message SOV06204I.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Client data set name.
- Client uniquifier in ExHPDM database (high word).
- Client uniquifier in ExHPDM database (low word).
- Time at which client started I/O operations.
- Time at which client ended I/O operations.
- Total elapsed time for I/O operations.
- Total number of blocks read or written.
- Elapsed time spent processing I/O on behalf of this client.
- Time stream I/O delayed because of waiting for client.
- Total delay divided by elapsed time, as a percentage.

- Average kilobytes per second achieved.
- Utilization as the I/O time divided by elapsed time, as a percentage.

See also

SOV06204I

SOV06213W

VOLSER *%s* already used by *%s*. Mount another.

Description

The volume serial mounted for a new stream file is already used by a previously created stream file. Processing cannot continue with this volume.

Action

Mount another scratch volume which is not in use for any ExHPDM stream file. In the case that no scratch volumes are available, the admin utility must be used to delete one or more stream files.

This message could indicate that the tape management system has been used to scratch the volume without informing ExHPDM via a ADMIN DATABASE DELETE command. Volumes should not be scratch outside the control of ExHPDM. ExHPDM supplies tape management system External Data Manager (EDM) processing to allow a TMS to be informed when a tape volume is not longer required by ExHPDM. For details on defining ExHPDM as an EDM refer to the ExHPDM Operator and System Programmer Guide and Reference.

Fields

- Volume serial number.
- Stream file name already using the volume serial.

SOV06214I

***%s* stream task (ID *%s*) ended*%s*.**

Description

- A stream task has completed.

Fields

- Stream name.
- Unique identifier.
- If an error occurred, lists internal diagnostic return code information.

See also

SOV06222E

SOV06215E

Client *%s*, DSN *%s*:
failed because stream task could not be started.

Description

The client connection could not be serviced because the required stream task failed at initialization.

Action

Refer to any previous messages for further information as to why the stream task could not start. Possibly, the required volume is in use by another stream task, or elsewhere, so retry the job when the volume is no longer in use.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Client data set name.

See also

SOV06035E, SOV06042E

SOV06216W

Client *%s*, DSN *%s* failed to catalog (*%d*).

Description

The indicated data set for the client failed to catalog successfully. This can indicate that the data set is already cataloged. When a data set is cataloged by ExHPDM then ExHPDM will not automatically uncatalog this data set when it is deleted from the ExHPDM database.

Action

No action is required for the existing catalog entry; however, if the indicated entry is to be uncataloged when the data set is deleted from the ExHPDM database then use the MVS DELETE NOSCRATCH TSO or IDCAMS command.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Client data set name.
- Return code from the MVS CATALOG service.

SOV06217I

Client *%s*, DSN *%s* CATALOGED.

Description

The indicated data set for the client has been cataloged.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Client data set name.

SOV06218I

Client *%s*, DSN *%s* NOT CATALOGED.

Description

The indicated data set for the client has not been cataloged. The disposition for the data set specified that the data set was not to be cataloged.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Client data set name.

SOV06219E

Client *%s*, DSN *%s*:
Block sequence number mismatch; expecting *%d*, got *%d*

Description

The read client was terminated because of a sequence number mismatch.

Action

This message usually indicates an internal problem. If necessary ADMIN SCANSTREAMFILE may be used to determine the contents of the volumes associated with the stream file.

If the cause of the symptom code cannot be determined, Contact StorageTek Software Support.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Client data set name.
- Expected block sequence number.
- Actual client block sequence number as read from the stream file.

SOV06220W

Client *%s*, DSN *%s*:
Block mismatch; expecting *%08X%08X*, got *%08X%08X*
Actual DSN *%s*, block sequence *%d*

Description

The read client has detected a block mismatch. A locate blockid was issued on behalf of this client using the information recorded in the database, but the actual block at that location did not have a matching uniquifier.

This could indicate that an inconsistency for the client uniquifier has been recorded in the database. If ExHPDM determines that access for the client data can proceed then message SOV06226W will be issued.

If ExHPDM determines that the block read cannot belong to this client then the client will be terminated and this message is followed by SOV06219E which gives additional details about this client.

Action

This message usually indicates an internal problem. Possibly a database inconsistency was caused by a previous system or ExHPDM abnormal termination, or the tape volume may have been overwritten by another system. If necessary ADMIN SCANSTREAMFILE may be used to determine the contents of the volumes associated with the stream file.

If the cause of the problem cannot be determined, Contact StorageTek Software Support.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Client data set name.
- This clients uniquifier.
- Uniquifier recovered from stream file.
- Actual client DSN as read from the stream file.
- Actual client block sequence number as read from the stream file.

See also

SOV06219E, SOV06226W

SOV06221I

Text form 1

Read client *%s* ID *%s* DD *%s*:
will wait because its first block has already been passed.
Volser *%s* (seq. *%d*), req. block *%08X*, curr. block *%08X*

Text form 2

Read client *%s* ID *%s* DD *%s*:
will wait because its first volume is after the current volume.
First volser *%s* (seq. *%d*), current volser *%s* (seq. *%d*)

Text form 3

Read client *%s* ID *%s* DD *%s*:
will wait because its first volume has already been passed.
First volser *%s* (seq. *%d*), current volser *%s* (seq. *%d*)

Description

A read client is delayed for one of the reasons outlined below. Owing to the sequential nature of stream file processing, it is not always possible to service each client as soon as it connects to the stream. If clients arrive out-of-order with respect to the order in which they were initially written to the stream file, then it may not be possible to position to the start of the clients' data without excessively delaying other clients which are already in progress.

Each form of the message indicates a reason for the delay in starting this client:

will wait because its first block has already been passed

The client's first block of data is on the currently mounted volume; however, the current read point is past that point. This occurs when other clients are reading from the same stream file. Subject to other client connections, this client will be processed when current active clients have completed. The current active clients may extend over more than one volume, in which case those volumes will be mounted before the volume requested by this client.

If necessary, the CATCHUP clause may be specified on the client connection DD SUBSYS parameters or in the STREAM definition to indicate that the stream file needs to be rewound for this client allowing it to be processed immediately. CATCHUP can specify a number of options depending under what circumstances the stream file should rewind. For example, CATCHUP(ALWAYS) could be specified to force the stream file to always rewind.

In addition, the READSYNCH STARTWHEN clause may be specified on the STREAM definition to delay the starting of stream processing in order to allow client connections to be synchronized. The purpose of this delay is to allow enough time for all required connections to be made to the stream before ExHPDM evaluates its processing start point. This can be helpful when mass restore jobs are being submitted. For example, STARTWHEN(ELAPSEDTIME(30s)) will delay the opening of the stream file for 30 seconds after the first connection has requested access to the stream file.

will wait because its first volume is after the current volume

The client's first volume is subsequent to the current volume in the sequence.

will wait because its first volume has already been passed

The client's first volume is prior to the current volume in the sequence. Subject to other client connections, this volume will be mounted when current active clients have completed. The current active clients may extend over more than one volume, in which case those volumes will be mounted before the volume requested by this client. The CATCHUP clause does not allow a client to force the rewinding of a stream file in this circumstance. However, the READSYNCH STARTWHEN clause may be specified on the STREAM definition to delay the starting of stream processing in order to allow client connections to be synchronized (see details above).

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name.job identifier.job step name*
  JOB:*job name.job step name.proc step name*

- Connection identifier.
- Client DD name.

Fields form 1 only

- Current volume serial.
- The current volume sequence number within the stream file.
- The starting block for the client.
- The stream file current block.

Fields form 2 only

- Volume serial containing the clients first block.
- The volume sequence number within stream file.
- Current volume serial.
- The current volume sequence number within the stream file.

Fields form 3 only

- Volume serial containing the clients first block.
- The volume sequence number within stream file.
- Current volume serial.
- The current volume sequence number within the stream file.

SOV06222E

%s* stream task (ID *%s*) dynamic allocation failure: *%s %s

Description

The stream task could not allocate the specified resource as indicated by an error returned from MVS dynamic allocation service.

Action

If the STREAM WAIT(YES RETRY(retry period)) parameter was specified for the stream in the ExHPDM startup parameter file then the stream task will be reattempted after the retry period has expired. This will be done until the stream task can start successfully.

If STREAM WAIT(YES) was specified without a retry period then the stream task will only be reattempted when the next client connection is given to ExHPDM, when an existing client connection completes or when the stream is manually started using the ExHPDM START STREAM command.

Fields

- Stream name.
- Stream task unique identifier.
- Resource name.
- Short description of dynamic allocation error.

See also

SOV06214I, SOV06223W, SOV06228I

SOV06223W

Stream task ID *%s* could not allocate unit *%s*:
Reply 'RETRY', 'NEXT' or 'END'.

Description

The stream task could not allocate the specified unit, and ALLOC(WAIT) is specified on the DEVICE definition containing that unit. The reason for allocation failure is described in message SOV06222E.

Action

Reply as follows:

RETRY
to retry allocation of the unavailable unit.

NEXT
to attempt allocation of the next unit in the UNIT list, or units in the next device in the DEVICE list, if any. If there are no further units or devices, the stream task will end.

END
to cancel startup of the stream task. The stream task will end immediately and any connections waiting for the stream task will be terminated. This occurs whether or not WAIT(YES) was specified on the STREAM or client DD SUBSYS parameters.

Fields

- Unique identifier.
- Unit.

See also

SOV06222E, SOV06214I

SOV06224I

***%s* client *%s* ID *%s* DD *%s*:**
will wait because there are more than *%d* active clients.

Description

There are a large number of active clients (usually read clients). Because of this, the specified client will be temporarily delayed until other clients complete.

Fields

- 'Read' or 'Write'.
- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name***.***job identifier***.***job step name*
  JOB:*job name***.***job step name***.***proc step name*

- Connection identifier.
- Client DD name.
- Limit of active clients.

See also

SOV06225I

SOV06225I

***%s* client *%s* ID *%s* resumed.**

Description

The client, delayed because of resource constraint, has been resumed because resources became available.

Fields

- 'Read' or 'Write'.

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name***.***job identifier***.***job step name*
  JOB:*job name***.***job step name***.***proc step name*

- Connection identifier.

See also

SOV06224I

SOV06226W

Client *%s*, DSN *%s*:
Access allowed for block mismatch due to unique client.
Uniquifier changed from *%08X%08X* to *%08X%08X*.

Description

The read client has detected a block mismatch as indicate by SOV06220W. However, the client will be allowed to access the indicated data set.

Access is only allowed when it has been determined that the uniquifier has not been correctly recorded in the database. The following points must all be satisfied for access to be allowed:

- The block read from the stream file must belong to the same client data set name,
- The block read from the stream file must be the first block for the data set,
- The uniquifier for the block read must not belong to any other client data set within the stream file.

Action

ExHPDM will only allow access to the data on the stream file to be granted when it can be determined that the data on the stream file can belong to the indicated client data set. However, additional steps may be required to determine that the data is correct for the indicated client data set. This can only occur if there are other clients in the stream file with the same data set name. If this is the case then an ADMIN SCANSTREAMFILE operation may need to be run to in order to check the contents of the stream file volumes.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name***.***job identifier***.***job step name*
  JOB:*job name***.***job step name***.***proc step name*

- Client data set name.
- The clients uniquifier as recorded in the database.
- Uniquifier recovered from stream file. The client will use this uniquifier value for access to the stream file.

See also

SOV06220W

SOV06227E

Client *%s*, DSN *%s*:
Connection closed due to system ABEND.

Description

The indicated client terminated its connection due to a system ABEND.

Action

Examine the system log and/or software EREP records for system ABENDs for the client connection. For example, one cause could be an ABENDS878-10 indicating that the client REGION specification might not be large enough.

If the cause of the abend cannot be determined, Contact StorageTek Software Support.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name***.***job identifier***.***job step name*
  JOB:*job name***.***job step name***.***proc step name*

- Client data set name.

SOV06228I

***%s* stream task (ID *%s*) UNIT *%s*, allocated DD *%s*,**
device*%s* :*%s*

Description

The stream task has allocated the indicated devices for the UNIT specification. Additional information is displayed for those units which were not valid for ExHPDM stream processing.

Action

If any units indicate an error condition then the stream task will unallocate the indicated devices and attempt to allocate to another DEVICE UNIT specification. Message SOV06222E will be additionally displayed to indicate this condition.

Fields

- Stream name.
- Stream task unique identifier.
- UNIT name used for the allocation as specified in the DEVICE definition.
- Stream task DD name.
- Optional s for grammatical correctness.
- Allocated device list.

See also

SOV06222E

SOV06229W

Stream device definition name *%s*: UNIT *%s %s*.

Description

The UNIT name for the indicated device definition might not be suitable for ExHPDM usage. The UNIT is still eligible to be used for stream processing; however, a subsequent error could be reported by SOV06222E during stream initialization processing.

Action

Edit the ExHPDM startup parameter file to ensure that stream device definition UNIT names are valid for ExHPDM stream usage. The UNIT should exist and it should only contain tape devices.

Fields

- Stream device definition name.
- Specified UNIT name.
- Indicates why the UNIT is not suitable for ExHPDM usage.

See also

SOV06222E, SOV06228I

SOV06230E

VOLSER *%s* does not belong in the sequence starting with VOLSER %s. HDR1 label DSN mismatch: *'%s'*

Description

The volume that is currently mounted for a SCANSTREAMFILE operation does not belong to the volume set. Either the volume serial was incorrectly entered, or the volume has been overwritten since the stream file was originally created. The mismatch is detected by the DSN recorded in the HDR1 label of the current volume. The HDR1 label records only the last 17 characters of the catalogued DSN. If the HDR1 DSN does not match the DSN recorded in the first volume, a mismatch is declared.

Action

Review the SCANSTREAMFILE command to verify that the listed volume serial numbers are correct and in the proper sequence. Resubmit the job.

Fields

- Volume serial number of currently mounted volume.
- Volume serial number of the first volume mounted.
- Last 17 characters of the DSN recorded on the current volume.

SOV06231E

VOLSER *%s* is sequence number *%u*, expecting *%u*.

Description

The volume that is currently mounted for a SCANSTREAMFILE operation is out of sequence, as determined by reading its HDR1 label. This may occur if the volume serial numbers specified in the SCANSTREAMFILE command are not in the correct order.

Action

Review the SCANSTREAMFILE command to verify that the listed volume serial numbers are correct and in the proper sequence. Resubmit the job.

Fields

- Volume serial number of currently mounted volume.
- Sequence number recorded in this volume's HDR1 label.
- Expected sequence number.

SOV06232E

SCANSTREAMFILE: Allocation error *%d %08X %08X*.

Description

The stream file could not be allocated for this SCANSTREAMFILE operation. Previous messages give further details.

Action

Examine the other messages to determine and correct the cause of the allocation failure.

Fields

- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV06233E

SCANSTREAMFILE: Open error *%d %08X %08X*.

Description

The stream file could not be opened for this SCANSTREAMFILE operation. Previous messages give further details.

Action

Examine the other messages to determine and correct the cause of the allocation failure.

Fields

- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV06234E

SCANSTREAMFILE stream file *%s* failed.

Description

This message appears in the ADMIN job output for SCANSTREAMFILE to indicate that the stream file could not be started due to failure to either allocate or open the stream file, as indicated.

Fields

- **allocation** or **open**.

SOV06235W

**Volser '*%s*' has already been scanned - it belongs to.
stream file '*%s*'.**

Description

This message appears in the ADMIN job output for SCANSTREAMFILE, and the console, to indicate that the volume serial number specified in the volser list already exists in the database, from a previous successful or partially successful SCANSTREAMFILE operation.

Fields

- Volume serial number.
- Stream file DSN obtained from previous SCANSTREAMFILE of this volser.

See also

SOV06237E, SOV06238E

SOV06236E

Volser '*%s*' is duplicated.

Description

This message appears in the ADMIN job output for SCANSTREAMFILE, and the console, to indicate that the volume serial number specified in the volser list is duplicated elsewhere in the same list.

Fields

- Volume serial number.

SOV06237E

**Two or more volsers selected for this SCANSTREAMFILE operation have
already been scanned and belong to two or more different stream files. Operation terminated.**

Description

This message appears in the ADMIN job output for SCANSTREAMFILE, and the console, to indicate that the volume serial list was incorrectly specified.

Action

Correct the volume serial list and re-submit the job.

See also

SOV06235W

SOV06238E

One or more volsers selected for this SCANSTREAMFILE operation have already been scanned. Operation terminated.

Description

This message appears in the ADMIN job output for SCANSTREAMFILE, and the console, to indicate that the volume serial list may have been incorrectly specified, or a previous SCANSTREAMFILE operation was not completed.

Action

If the volume serial list was incorrect, then correct the volume serial list and re-submit the job. Otherwise, the existing record in the database will need to be deleted as follows: Message SOV06235W will list the stream file of which the volume was a member. The following ADMIN command should be submitted so that the database can be cleared of partial entries:

ADMIN DATABASE DELETE STREAM(* FILE(xxx))

where xxx is the name of the stream file as obtained from message SOV06235W.

See also

SOV06235W

SOV06239I

SCANSTREAMFILE: reached EOF for *%s*.
Total blocks: *%d*. There are *%d* unread volume(s)

Description

Inform the operator of the EOF1 label being detected for a SCANSTREAMFILE operation. The number of unread volumes would normally be zero unless excess volume serials were specified in the SCANSTREAMFILE command.

Fields

- Stream file DSN
- Total client data blocks read from all volumes
- Number of unread volumes

SOV06240I

SCANSTREAMFILE: reached EOV for volume *%s* (*%d of %d*),
streamfile *%s*. Valid blocks: *%d*.

Description

Inform the operator of the EOV1 label being detected for a SCANSTREAMFILE operation for the named volume.

Fields

- Volume serial number.
- Sequence number of this volume.
- Number of volumes in sequence.
- Stream file DSN.
- Number of blocks that were valid client data.

SOV06241I

SCANSTREAMFILE: scanning streamfile *%s*.

Description

Inform the operator of the HDR1 label being detected for a SCANSTREAMFILE operation. The streamfile DSN is derived from the 17 characters of the original stream file DSN recorded in the HDR1 label. This is prefixed with 'SOV' to construct a valid referential stream file name.

Fields

- Stream file DSN.

SOV06242I

SCANSTREAMFILE: processing volume *%s* (*%d of %d*). Please wait...

Description

Inform the operator of the HDR1 label being detected for a SCANSTREAMFILE operation.

Fields

- Volume serial number.
- Sequence number of this volume.
- Number of volumes in sequence.

SOV06243I

Database Name : ***%s***
Percentage full : ***%s%%***
Database **Status :** ***%s***
Last Backup : ***%s***
Last Backup DSN : ***%s***
Backup Limit : ***%s***
Journal Name : ***%s***
Percentage full : ***%s%%***
Journal Status : **%s**
Last Backup DSN : ***%s***

Description

Display the current database details for the ExHPDM subsystem against which the command is issued. The following is displayed - Database Name, Database space utilitization as a percentage, Database Status, Last Backup date, Last Backup dataset name, current Backup Limit value, Journal Name, Journal space utilitization as a percentage, and the last Jurnal backup dataset name.

Fields

- Database name.
- Database Percentage Full.
- Database Status.
- Last Database Backup Date.
- Last Database Backup DSN.
- Database Backup Limit.
- Journal Name.
- Journal Percentage Full.
- Journal Status
- Last Journal Backup DSN.

SOV06244I

Database not available in Disaster Recovery (DR) mode.

Description

A Display DATABASE command was unsuccessfully attempted in Disaster Recovery (DR) Mode.

SOV06245W

Cannot get creation date for Database backup DSN '*%s*'.

Description

A database backup was deemed to exist but it's creation date could not be extracted from the catalog.

Fields

- Database backup DSN.

SOV06246I

Stream %s selected block size = %d

Description

ExHPDM has initiated a stream using the selected block size. The blocksize is then recorded into the ExHPDM database along with stream dataset, and client dataset information to facilitate the restore of data using the block size.

Action

None.

SOV06247I

SCANSTREAMFILE: complete when dataset(s) not found on volume.

Description

A SCANSTREAMFILE process has successfully completed, and subparameters of COMPLETEWHEN specifying client dataset(s) were not found in the stream dataset.

Action

None.

SOV06400I

Stream *%s* task *%s* cancelled.

Description

A CANCEL STREAM command has been issued for the specified stream task.

Fields

- Stream name.
- Unique stream task identifier.

SOV06401I

All tasks for stream *%s* cancelled.

Description

A CANCEL STREAM command has been issued for the specified stream. All stream tasks for that stream will terminate.

Fields

- Stream name.

SOV06402W

Stream *%s* is not currently active: nothing to cancel.

Description

A CANCEL STREAM command was issued for a stream which currently has no stream tasks. No cancel operation is performed.

Fields

- Stream name.

SOV06403I

Cancel connection issued for ID *%s* client *%s %s%s*.

Description

A CANCEL CONNECTION command has been issued for a specified connection identifier, which corresponds to the indicated client.

If the connection was initiated as a response for a START STREAM operator command then message SOV06411I will follow to indicate the stream which will also be cancelled.

Fields

- Connection identifier.
- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name***.***job identifier***.***job step name*
  JOB:*job name***.***job step name***.***proc step name*

- Value displayed as data set or start stream request.
- Client data set name if the client has a related data set.

See also

SOV06411I

SOV06404I

Cancel request issued for *%s* request ID *%s*.

Description

A CANCEL REQUEST has been issued for the specified request.

Fields

- Request type name:

  ADMIN
  Request is from SOVADMN.

  CONNECT
  Request is for access to an ExHPDM stream by a client job.

  OPERCMD
  Request is for an ExHPDM operator command.

  VALIDATE
  Request is for verification during client job data set allocation.

- Request identifier.

SOV06405E

Supplied ID (*%s*) is not a request ID.

Description

The identifier supplied on the or CANCEL REQUEST command is not a valid request identifier.

Action

Use the DISPLAY REQUEST ALL DETAIL command to list all requests, and re-issue the CANCEL REQUEST command for a valid request identifier.

Fields

- Supplied request ID.

See also

SOV06051I

SOV06406W

Request ID *%s* cannot cancel itself.

Description

A CANCEL REQUEST command was issued for its own request identifier. A request is not able to cancel itself.

Fields

- Request ID.

SOV06407I

***%d %s* cancelled.**

Description

A CANCEL REQUEST ALL command resulted in the displayed number of requests being cancelled.

Fields

- Number of requests.
- Value displayed as request or requests.

SOV06408W

Stream *%s* task *%s* shutdown is already in progress.

Description

A CANCEL STREAM command was issued for a stream task that is already in the process of shutting down. The stream task will continue the shutdown process.

Fields

- Stream name.
- Unique stream task identifier.

SOV06409W

Stream *%s* shutdown is already in progress.

Description

A CANCEL STREAM command was issued for a stream that is already in the process of shutting down. The stream will continue the shutdown process.

Fields

- Stream name.

SOV06410I

Stream *%s* task *%s* scheduled for termination.

Description

A CANCEL STREAM command has been issued for the specified stream task. However the stream task is currently waiting in an MVS service. For example tape device allocation or mount processing. The stream task will be scheduled for termination which will result in the stream task being detached.

Fields

- Stream name.
- Unique stream task identifier.

SOV06411I

***%s* request *%s* being cancelled is related to starting stream *%s*, task *%s*.**

Description

A CANCEL command has been issued for the specified request. As the request represents the starting of a stream the indicated stream will be cancelled. Each START STREAM request results in an OPERCMD and CONNECT request. The cancelling of either of these requests will result in the starting stream being cancelled.

Fields

- Request type displayed as **CONNECT** or **OPERCMD**.
- Request being cancelled.
- Stream name.
- Unique stream task identifier.

See also

SOV06400I, SOV06403I, SOV06404I

SOV06500I

READ stream *%s* started in read hold mode.
Reply U to release.

Description

A read stream task has been started. The stream definition for the stream specified STARTWHEN(OPERREPLY). This allows further read clients to be added to this stream before the stream starts reading the tape.

Action

When all necessary read clients have been started, the operator should reply U to release the stream file and allow the clients to proceed.

Fields

- Stream definition name.

See also

SOV06501I

SOV06501I

Reply U to release read stream %s (ID %s)

Description

See message SOV06500I

Action

See message SOV06500I

Fields

- Stream definition name
- Stream ID

See also

SOV06500I

SOV06550E

%s*: *%s

Description

Error message issued when parsing SMF command parameters.

Action

Review and correct any syntax or other errors in the SMF command parameters and reissue command.

Fields

- Context: **SMF(parms)**.
- Image of parser error message.

SOV06551E

SMF (*%s*) is not valid.

Description

The supplied parameter on the SMF command was not valid.

Action

Specify SMF(). E.g., SMF(SYNC).

Fields

- keyword supplied.

SOV06552E

SMF Interval Timer Subtask has terminated (*%l*u *%l*u *%l*u).

Description

The SMF Interval Timer Subtask has ended either due to a shutdown request or error.

Action

Examine ExHPDM log for error messages and correct the condition if present and restart ExHPDM to restart SMF interval recording .

Fields

- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV06553W

Possibly corrupted or empty field. (*%s, %s*).

Description

Routine field checking failed during the building of an SMF record.

Action

Contact StorageTek Software Support.

Fields

- Type of record being built
- Module name where error detected.

SOV06554E

SMF Write Failed: *%s* (*%d %08X %08X*)

Description

An error occurred while writing to the MVS SMF interface.

Action

The MVS SMF interface may not be active, or some permanent or transient error has occured. Correct the condition and continue. Consult SMF manual for further explanation of the return codes.

Fields

- Error message text.
- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV06555W

SMF Interval adjusted from *%s* to *%s* to cycle on the offset.

Description

When an SMF Hourly offset is specified the Interval time is checked, and adjusted if necessary so that SMF writes within the hour, synchronizing with the hourly offset. The interval time is adjusted to the next highest value that divides exactly into one hour and a warning message is issued indicating the old and the new adjusted value.

Action

No action is normally necessary. If the new value is unacceptable then a more appropiate value should be specified in the startup deck.

Fields

- Old Interval Time.
- New Interval Time.

SOV06556I

SMF Interval has expired.

Description

The SMF timer subtask has just notified all Request Processors of an SMF interval expiration. This normally causes SMF interval records to be written to SMF.

Action

This is an information message only. No action is necessary.

SOV06557I

SMF recording inactive.

Description

The SMF interval subtask has started but no SMF record generation has been requested in the startup parameters.

Action

This is an information message only. No action is necessary.

SOV06558I

SMF interval recording active. Synchronized to SMF. SMFID=*%lu*.

Description

The SMF interval subtask has started and is waiting for an SMF SYNC notification from SMF services via ENF.

Action

This is an information message only. No action is necessary.

Fields

- SMF record type.

SOV06559I

SMF interval recording active. SMFID=*%lu*, Interval=*%s*, Offset=*%s*.

Description

The SMF interval subtask has started and is waiting for the first internal timer expiration. The interval and offset values are included in the message as confirmation that EXHPDM SMF interval recording is being generated internally and not via synchronization request from SMF.

Action

This is an information message only. No action is necessary.

Fields

- SMF Record Type.
- SMF Interval Time.
- SMF Offset Time.

SOV06561I

SMF recording active.

Description

The SMF interval subtask has started and SMF record generation is active. However, no interval records will be generated because they were not requested in the startup parameters. .

Action

This is an information message only. No action is necessary.

SOV06562W

SMF subtype 6 record truncated.

Description

The quantity of stream task performance data exceeds the capacity of an SMF record. The record is written with the set of complete histogram data that will fit. .

Action

This is an information message only. No action is necessary.

SOV06563W

SMF interval of *%s* is too short,
disabling interval processing.

Description

The specified SMF interval is too short so no SMF interval processing is performed.

Action

Increase the interval to a valid period.

Fields

- Interval Time.

SOV06564W

SMF interval of *%s* is greater than an hour,
but hourly offset specified. Interval rounded to hour multiple.

Description

The specified SMF interval is greater than an hour but hourly offset specified. Interval reset to multiple of an hour.

Action

No action required.

Fields

- Interval Time.

SOV06600I

Stream %s task %s has reached %u volume%s.
%u current client%s %u volume%s to complete.

Description

A write stream task has mounted a new volume. The total number of volumes in this stream file now exceeds the limit specified (directly or indirectly) in the **DEVICE** definition used by this stream (the **NoNewClientsAfter** parameter).

When this happens, no new clients will be accepted by this stream task. Clients that are running at this time will have an additional number of volumes which may be mounted to allow them to complete successfully. If any clients are still running when the additional volumes are used up, then those clients will be terminated abnormally.

The current number of active clients is displayed; however, it is possible that a small number of clients may be added after this message is issued, because of asynchronous processing.

Fields

- Stream name.
- Unique stream task identifier.
- Total number of volumes used by this stream file.
- Optional s for grammatical correctness.
- Number of clients currently being processed.
- Optional s for grammatical correctness.
- Number of remaining volumes, including the current one.
- Optional s for grammatical correctness.

SOV06601E

%s could not obtain %d bytes of storage

Description

This message is issued when ExHPDM attempts to obtain storage and the request failed.

Action

Examine the system log and/or software EREP records for system ABENDs generated by ExHPDM. For example, one cause could be an ABENDS878-10 indicating that the ExHPDM REGION specification might not be large enough.

Increase the ExHPDM REGION size and restart the server; if this does not alleviate the problem, then Contact StorageTek Software Support.

Fields

- Service name.
- Amount of storage requested.

SOV06700W

SET DATABASE cannot be processed. Database Manager is busy.

Description

The SET DATABASE command cannot be processed by the ExHPDM Database Manager as it is currently processing other requests.

Action

Reissue command.

SOV06701I

SET DATABASE %s command accepted.

Description

The SET DATABASE command has been accepted for processing.

Fields

RESTART, QUIESCE or QUIESCE FORCE.

See also

SOV09104I, SOV09105I

SOV06702W

Database is already quiesced.

Description

A SET DATABASE QUIESCE command was entered, but the database was already quiesced.

SOV06703W

A database quiesce request is already in progress.

Description

A SET DATABASE QUIESCE command was entered, but a database quiesce was already in progress.

SOV06704I

SET DATABASE request from %s, ID %s has been superceeded by request ID %s.

Description

A SET DATABASE command has been issued which superceeds a previously active SET DATABASE command.

Fields

- Client requester displayed as follows:

  CN:*console name or id*
  TSO:*TSO user name*
  STC:*proc name***.***job identifier***.***job step name*
  JOB:*job name***.***job step name***.***proc step name*

- Request identifier of original request.
- Request identifier of superceeding request.

SOV06705I

SET DATABASE operator request %s has been cancelled.

Description

The indicated SET DATABASE request has been cancelled, most likely as a result of an ExHPDM CANCEL or SHUTDOWN command. Although, the actual SET DATABASE command request has been cancelled the data base manager might continue to process the request.

Fields

- Request identifier.

SOV06706W

Cancel of SET DATABASE operator request %s cannot be processed. Database Manager is busy.

Description

A request has been made to cancel the previously entered SET DATABASE operator command. However, the cancel request cannot be processed as the database manager is currently busy processing the request.

Action

Check for any outstanding operator replies to see if the data base manager is being prevented from completing the SET DATABASE request.

Fields

- Request identifier.

SOV06800I

ExHPDM log (%d entries):

Description

This message heads a list of messages when the DISPLAY LOG command is issued.

Fields

- Number of entries to follow

See also

SOV06802I

SOV06801W

Log message manager is inactive.

Description

A DISPLAY LOG command was issued, but the log message manager is inactive.

Action

Restart ExHPDM. If problem persists, Contact StorageTek Software Support.

SOV06802I

%c%s

Description

Log image output of DISPLAY LOG command. The message number is suppressed in this message.

Fields

- + for continuation of previous message line.
- Image of log message text.

SOV06900I

Parameter file is %s
Parameter (O)riginal Parameter file value
(E)ffective value
(C)hange value ; in progress
---------- - ----------
%-12.12s %s %s

Description

Result of DISPLAY OPTIONS PRM command. Displays the ExHPDM parameter values as obtained from the ExHPDM parameter file, those that are currently effective and those that are in progress.

Fields

- Name (DSN or DDN) of ExHPDM parameter file. If ExHPDM was started in DR mode then this value will be set to not in use (DR mode).

- Main parameter keyword. One of:

  DATABASE
  BACKDSN
  JOURNAL
  BACKJRNL
  MONITOR
  PREFIX(MSG)
  PREFIX(CMD)
  SAF
  LOGFILE
  TMS
  REQUEST

- Indicator to show the status of the value being displayed:

  O
  Original parameter file value. The displayed value will be Not specified when a value has not been provided.

  E
  The effective parameter value. Effective values are those that are currently in use. The effective values can differ from the Parameter file value when the ExHPDM SET command has been used or when an original value was not specified i.e the effective value is the default value.

  C
  Change parameter value that is currently in progress.

- Parameter values associated with the parameter keyword.

SOV06901I

Description

Diagnostic information from DISPLAY DIAGNOSTICS command.

SOV06902I

Description

Diagnostic information from DISPLAY DIAGNOSTICS DETAIL command.

SOV06905I

Start up parameters.
Parameter (O)riginal start value
(E)ffective value
---------- - ----------
%-12.12s %s %s

Description

Result of DISPLAY OPTIONS STARTUP command. Displays the ExHPDM start parameters that were specified on the ExHPDM subsystem definition or on the MVS START command. The subsystem definition parameters are those that are specified in the MVS IEFSSNxx parameter member or on the MVS SETSSI ADD operator command.

The START command parameters are those specified in the PARM= on the ExHPDM server started task PROC.

Fields

- Startup parameter keyword. One of:

  PRM
  MEMBER
  QUIET
  VERBOSE
  TRACE
  SSNAME
  KEY

- Indicator to show the status of the value being displayed:

  O
  Original parameter file value. The displayed value will be Not specified when a value has not been provided.

  E
  The effective parameter value. Effective values are those that are currently in use. The effective values can differ from the startup values when the ExHPDM SET command has been used or when an original value was not specified i.e the effective value is the default value.

- Parameter values associated with the startup parameter keyword.

SOV06910I

GTF tracing has been turned *%s* (EID *%d*).

Description

The status of ExHPDM GTF tracing has been changed with the SET TRACE command.

Fields

- ON or OFF.
- GTF Event ID or 0 for all events.

SOV06911W

GTF tracing is already *%s* (EID *%d*).

Description

A SET TRACE command was issued that did not change the status of ExHPDM GTF tracing as the existing GTF trace status matched that specified on the command.

Fields

- ON or OFF.
- GTF Event ID or 0 for all events.

See also

SOV06910I

SOV06920I

QUIET has been turned *%s*.

Description

The status of ExHPDM SAS/C library messages has been changed with the SET QUIET command.

If QUIET is ON then some library messages will be suppressed.

If QUIET is OFF then all library messages will be displayed.

Fields

- ON or OFF.

SOV06921W

QUIET level is already *%s*.

Description

A SET QUIET command was issued that did not change the status of ExHPDM SAS/C library message issuance. QUIET is already set to the desired value.

Fields

- ON or OFF.

See also

SOV06920I

SOV06930I

VERBOSE has been turned *%s*.

Description

The status of ExHPDM VERBOSE option has been changed with the SET VERBOSE command.

If VERBOSE is ON then diagnostic messages will be displayed.

If VERBOSE is OFF then diagnostic messages will be suppressed.

Fields

- ON or OFF.

SOV06931W

VERBOSE is already *%s*.

Description

A SET VERBOSE command was issued that did not change the status of ExHPDM diagnostic message issuance. VERBOSE is already set to the desired value.

Fields

- ON or OFF.

See also

SOV06930I

SOV06940I

ExHPDM version is *%s*.

Description

Version information for ExHPDM as a result of a DISPLAY VERSION command.

Fields

- ExHPDM version.release.modification.

SOV06941I

ExHPDM is utilizing the facilities of the common parser version *%s*.

Description

Version information for ExHPDM as a result of a DISPLAY VERSION command.

Fields

- StorageTek common Parser version.release.modification.

SOV06942I

ExHPDM License Key Information
Type: ***%s***
Customer: ***%s***
Site: ***%s***
Expiry Date: ***%s***
Serial Number: ***%s***

Description

This is the ExHPDM license key information. It is displayed at ExHPDM startup and when a SET PRM command is issued where the license key information changes. It is also produced as a result of a DISPLAY VERSION command. For license types other than default, the information is the same as in the parameter file. If the type is “default”, no license key information was entered into the parameter file and only the expiry date is valid and is displayed.

Fields

- License key type: Permanent, Emergency, Temporary, or Default.
- Customer name.
- Site number.
- Expiry date.
- Serial number.

SOV06950E

Supplied ID (*%s*) is not valid.

Description

The supplied ID on the DISPLAY ID command was not valid.

Action

Specify a valid ExHPDM ID number. ID numbers may be obtained by various DISPLAY commands, such as DISPLAY REQUESTS DETAIL, DISPLAY STREAM ALL DETAIL and DISPLAY CLIENT *.

Fields

- ID number supplied.

SOV06951E

Unrecognized operator command '*%s*' could not be processed.

Description

The operator command entered could not be processed by ExHPDM as it was not recognized as an instance of any one of the supported operator commands.

Action

Contact StorageTek Software Support.

Fields

- Operator command entered.

SOV06952E

Unrecognized admin command '*%s*' could not be processed.

Description

The admin command entered could not be processed by ExHPDM as it was not recognized as an instance of any one of the supported admin commands.

Action

Contact StorageTek Software Support.

Fields

- Admin command entered.

SOV06953E

Operator command *%s* is not allowed in DR mode.

Description

The specified operator command was entered while ExHPDM was operating in disaster recovery mode, and cannot be processed for that reason. The START STREAM, SET PRM and SET DATABASE commands are not allowed in disaster recovery mode.

Action

To exit disaster recovery mode, ExHPDM must be shut down and restarted without the DR keyword on the startup parameters.

Fields

- Operator command entered.

See also

SOV03094W, SOV06071E

SOV06954E

TMS scratch routine *%s* has been disabled due program failure (ABEND *%s%03X-%03X*).

Description

The indicated TMS scratch routine that was specified in the ExHPDM parameter file has been disabled as it has abnormally ended. The scratch routine will not be called to process scratch requests until the ExHPDM server has been restarted or the SET PRM operator command has been issued.

Action

Determine the reason for the program failure in the supplied scratch routine. To enable the scratch routine issue the SET PRM operator command or restart the ExHPDM server.

Fields

- Name of supplied scratch routine.
- Type of abend:

  S
  system abend

  U
  user abend

- abend code.
- abend reason.

See also

SOV06956W

SOV06955W

Volume *%s* not processed by TMS SCRVOLRTN *%s*. Routine could not be loaded.

Description

The indicated volume could not be processed by the TMS scratch routine as the routine could not be loaded from the normal system search sequence.

Action

Add the indicated routine to a load library available to the ExHPDM server through the normal system search sequence. This module is loaded for each scratch request. ExHPDM does not need to be restarted to use the module once it has been added to a locatable load library.

If no TMS SCRVOLRTN is to be processing the scratch volume request then change the ExHPDM startup parameter member SOVPRMxx to indicate SCRVOLRTN(DISABLED).

Fields

- Volume name that could not be processed.
- Name of supplied scratch routine.

SOV06956W

Volume *%s* not processed by TMS SCRVOLRTN *%s*. Routine has been DISABLED.

Description

The indicated volume could not be processed by the TMS scratch routine as the routine has previously been disabled.

Action

Determine the reason for the program failure in the supplied scratch routine. To enable the scratch routine issue the SET PRM operator command or restart the ExHPDM server.

Fields

- Volume name that could not be processed.
- Name of supplied scratch routine.

See also

SOV06954E

SOV06957W

TMS SCRVOLRTN *%s* completed RC *%d* for volume *%s*.

Description

The indicated scratch routine completed with a non-zero return code while processing the indicated volume.

Action

The return code from the scratch routine is installation specific. Refer to installation documentation for an explanation for this return code.

Fields

- Name of supplied scratch routine.
- Return code from scratch routine.
- Volume name that could not be processed.

SOV06958I

Volume *%s* is now scratch.

Description

The indicated volume serial is now available as a scratch volume as it is no longer in use by ExHPDM.

If any TMS scratch routine has been supplied in the ExHPDM parameter file (SCRVOLRTN) then this will be called to further process the scratch request.

Fields

- Volume serial now available as a scratch tape.

SOV06960E

ADMIN SCANSTREAMFILE is only allowed in DR mode.

Description

The SCANSTREAMFILE admin command is only allowed when the ExHPDM server is in disaster recovery mode.

Action

To start the server in disaster recovery mode, ExHPDM must be started with the DR parameter.

SOV06961E

Memory allocation error during raw message processing

Description

Insufficient memory was available to complete processing of one or more raw messages.

Action

Free system resources or select less clients per ADMIN request.

SOV06962E

Internal Inconsistency whilst processing raw report

Description

Inconsistent data was encountered which invalidates all or part of the raw message produced.

Action

Check for incomplete stream or client information.

SOV06963I

Client *%s*, DSN *%s* DELETED.

Description

A client DSN was deleted after processing, honoring the JCL DISP parameter.

Fields

- Client Name
- Client's DSN that was deleted

SOV06964I

Client *%s*, DSN *%s* UNCATALOGED.

Description

A client DSN was uncataloged after processing, honoring the JCL DISP parameter.

Fields

- Client Name
- Client's DSN that was uncataloged

SOV06965I

Description

Dummy message for internal use (raw reporting)

SOV06998I

Description

ADMIN command results.

SOV06999I

Description

ADMIN command results.

SOV09005I

ExHPDM Database Manager has shut down.

Description

Database manager has terminated.

SOV09011E

Unable to initiate Database Manager (*%d %08X %08X*).

Description

During Database Manager startup, the ExHPDM mainline task failed to attach the Database Manager.

Action

Contact StorageTek Software Support.

Fields

- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV09048E

VDVT initialization failed (*%d %08X %08X*).

Description

The ExHPDM VDVT initialization has failed.

Action

Check that ExHPDM has been correctly installed. Refer to other errors issued for any indication of an installation error.

If the reason for the failure cannot be determined then consolidate other ExHPDM messages from the MVS Master trace and Contact StorageTek Software Support.

Fields

- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV09100E

Database could not be opened.

Description

The ExHPDM database (control data set) could not be opened.

Action

Previous (and possibly following) messages will give more detailed indication of why the database could not be opened. Possible reasons include an improperly initialized or corrupted VSAM data set, or incorrect startup parameters for ExHPDM. Verify that the database file (VSAM) is correctly defined using the supplied IDCAMS template (see STKSAMP(SOVDBDEF)), and that the ExHPDM startup parameters indicate the correct database and/or journal file names.

SOV09101E

Database could not be re-opened. See previous messages.

Description

The ExHPDM database (control data set) could not be re-opened.

Action

Previous messages will give more detailed indication of why the database could not be re-opened after a quiesce operation. Possible reasons and remedial actions are described under message SOV09100E.

See also

SOV09100E

SOV09102I

Database manager converting to quiesced mode

Description

Because of previous errors, the database manager is starting up in quiesced mode. This message occurs after SOV09100E.

See also

SOV09100E

SOV09103I

Database manager remains in quiesced mode

Description

Because of previous errors, the database manager is unable to resume. This message occurs after SOV09101E.

See also

SOV09100E, SOV09101E

SOV09104I

Database manager is now in quiesced mode.

Description

The database manager has been quiesced by a SET DATABASE QUIESCE operator command.

See also

SOV06701I

SOV09105I

Database manager is now restarted.

Description

The database manager has been restarted by a SET DATABASE RESTART operator command.

See also

SOV06701I

SOV09106I

Database manager started in quiesced mode.

Description

The database manager started up in quiesced mode because of QUIESCE being specified on the START command or the ExHPDM parameter file.

SOV09200E

Mid-level database error at line *%d* in *%s*; sess = *%08X*

Description

Internal error at mid-level database layer.

Action

Contact StorageTek Software Support. Additional diagnostic messages may follow.

Fields

- Source line number.
- Source file name.
- Session parms address.

See also

SOV09201E, SOV09202E, SOV09203E, SOV09204E, SOV09205E

SOV09201E

..client=*%s* call=*%c* RC=*%d %08X %08X* Locks= *%s %s %s*

Description

Additional diagnostics for message SOV09200E.

Fields

- Client ID or <not known>.
- Call type code.
- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.
- OPEN or null.

- UPD or null.
- READ or null.

See also

SOV09200E

SOV09202E

..ACB fields: DDNAME=*%8.8s* ERROR=*%08X*

Description

Additional diagnostics for message SOV09200E.

Fields

- VSAM ACB DDNAME field.
- VSAM ACB ERROR field.

See also

SOV09200E

SOV09203E

....AVSPAC=*%u* FS=*%u* KEYLEN=*%u* LRECL=*%u* BUFNO=*%u* NEXT=*%d*

Description

Additional diagnostics for message SOV09200E.

Fields

- Internal diagnostic information.

See also

SOV09200E

SOV09204E

....NIXL=*%d*

Description

Additional diagnostics for message SOV09200E.

Fields

- Internal diagnostic information.

See also

SOV09200E

SOV09205E

..RPL fields: FUNC=*%u* FDBK=*%08X* RBA=*%08X*

Description

Additional diagnostics for message SOV09200E.

Fields

- Internal diagnostic information.

See also

SOV09200E

SOV09206E

..Key: *%c %08X %08X %1.54s*

Description

Additional diagnostics for message SOV09200E.

Fields

- Internal diagnostic information.

See also

SOV09200E

SOV09210E

Journal *%s* could not be *%s, %d %08X %08X*

Description

The specified journal data set could not be allocated, opened or initialized.

Action

Ensure that the journal data set exists and is allocated with the correct attributes (RECFM=FBS is required; LRECL=1,BLKSIZE=1032 is recommended).

Fields

- Journal data set name.

- Value displayed as allocated or opened or initialized.
- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV09211E

Journal *%s* is not a valid journal file

Description

The specified journal data set is not a valid ExHPDM journal file, or was created by an incompatible version of ExHPDM.

Action

Back up the database and create a new (empty) journal file.

Fields

- Journal data set name.

SOV09212W

Journal *%s* may not have closed correctly:
Size in header=*%u*, actual size=*%u*, number of entries=*%u*

Description

The specified journal data set was opened and checked for validity. The check indicated that the recorded used size of the journal file did not match with the actual used area. This indicates that a journalling error may have occurred prior to the current open, or that the journal was not closed successfully.

Action

Processing will continue normally; however, it is recommended to back up the database and create a new (empty) journal file at the soonest opportunity.

Fields

- Journal data set name.
- Size of used area recorded in the journal header block.
- Size determined by check processing.
- Actual number of journal entries.

SOV09213E

Journal *%s* error on close *%d %08X %08X*

Description

The specified journal data set encountered an error when being closed. Either the journal header block could not be re-written, or the close operation failed.

Action

Back up the database and create a new (empty) journal file.

Fields

- Journal data set name.
- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV09214E

Database full - force quiescing

Description

The database could not be extended during insert processing. The database is being quiesced. This error occurs if insufficient space is available in the database, or if the database is being shared (SHAREOPTIONS(x,4)) VSAM cannot split a control area.

Action

After the database is quiesced:

Restart the database using the ExHPDM SET DB RESTART operator command.

Create a backup of the database using the SOVADMN utility directive ADMIN DB BACKUP.

Delete and redefine the database. The ExHPDM sample library STKSAMP member SOVDBDEF may be used as a sample definition.

Restore the database using the SOVADMN utility directive ADMIN DB RESTORE.

Ensure that sufficient freespace is defined to the database. FREESPACE(0,80) is recommended.

SOV09215E

Journal full or I/O error - force quiescing

Description

An entry could not be added to the journal file. The database is being quiesced. This error occurs if insufficient space is available in the journal.

Action

After the database is quiesced, restart it and create a backup. This will clear the journal. Review the MONITOR settings in the ExHPDM parameter file, so that the appropriate warnings are issued before the journal becomes excessively full.

SOV09216W

Journal *%d%* full - quiescing

Description

The journal is almost full. The database is being quiesced normally.

Action

After all current work is complete and the database is quiesced, create a backup. This will clear the journal. Review the MONITOR settings in the ExHPDM parameter file, so that the appropriate warnings are issued before the journal becomes excessively full.

Fields

- Percentage point at which this final warning occurs.

SOV09217W

Journal *%d%* full

Description

The journal has just exceeded a MONITOR threshold.

Fields

- Percentage of journal which is utilized.

SOV09218W

Database *%d%* full

Description

The database has just exceeded a MONITOR threshold. Note that this report applies to the most utilized VSAM control area in the database if the share options are SHR(x,4). The quoted percentage in this case relates to the number of free CIs divided by the number of CIs per CA. This is because SHR(x,4) does not allow control area splits to occur. If the

database is not being shared cross-system, then the reported percentage applies to the total free CIs in the database, not just the worst case CA.

If SHR(x,3) is defined for the database, then CA splits are allowed and the database may be expanded into additional extents. In this case it is possible for the reported percentage utilization to drop as the new extent becomes available.

Fields

- Approximate percentage of database CA which is utilized.

SOV09219I

Journal *%s* is being formatted.
ABEND D37 expected - is not an error

Description

The journal is being initialized. At the end of initialization, a D37 abend is generated, which should be ignored. This occurs because the journal is preformatted to determine its ultimate size, so that its percent utilization may be accurately determined.

Fields

- Journal data set name.

SOV09220W

Database backup: following journal is *%s*
DSN: *%s*
Used by system *%s*, ExHPDM subsystem *%s*
Reply CANcel to cancel backup,
Ignore to ignore (skip) this journal,
Continue to continue or retry this journal,
Retire to retire an unused journal.

Description

A database backup has been requested. The journal, used by a different ExHPDM system, is in-use or inaccessible. The backup cannot proceed until the operator replies to this message. A journal which is in-use means that the ExHPDM system using that journal does not have its database in a quiesced state, or the ExHPDM may have been cancelled so that it could not update its journal status correctly. If the journal is inaccessible, it may be because the journal data set is not on a volume which is accessible from the system which is performing the backup, or the data set may be allocated with DISP=OLD to another job or user, or the journal may have been created but never initialized.

Action

Reply as follows:

CAN

Cancel the entire backup. The backup may be resubmitted when all ExHPDM systems are in the correct state for backup i.e. the database must be quiesced on all ExHPDM servers except the system used to perform the backup.

I

Ignore and allow the current backup to proceed, without using this journal. This option should be used with caution, since a missing journal entry may cause problems with a future restore operation. I(gnore) may be safely used if the journal is never going to be backed up in future, and does not contain any relevant information, e.g., used for testing.

C

Continue processing and attempt to use the journal. In this case, the true size of the journal will not be known until it is read. In the case that the journal is **inaccessible**, **C**(ontinue) will attempt to reaccess the journal e.g in the case that another job has unallocated the journal, or the journal volume has become online to the current system. If the journal is **in use**, then **C**(ontinue) must be used with caution, because future restore operations may be compromised by missing data in the journal. The operator should ensure that the journal is not allocated to another ExHPDM server, otherwise that server may be adversely affected by the backup operation.

R

Retire an unused journal. This is similar to specifying **I**(gnore), except that the journal will not be used in any future backup operation. Use **R**(etire) if the same (unused) journal keeps causing this message to appear during every backup.

Fields

- Value displayed as **in use** or **inaccessible**.
- Journal data set name.
- MVS system name of the ExHPDM system using the journal.
- corresponding ExHPDM subsystem name.

See also

SOV09221W

SOV09221W

Reply CANcel, Ignore, Continue or Retire

Description

See message SOV09220W

Action

See message SOV09220W

See also

SOV09220W

SOV09222W

Database extended by *%u* K bytes

Description

The database has just had an additional extent allocated to it. This message can also be issued as part of a database format, such as when ExHPDM starts up on a new database or when a restore is performed, and in these instances can be ignored.

Action

If the database is going into too many extents, it may be an indication that it is becoming excessively full, especially if message SOV09218W is also being issued. Review the database allocation and increase if necessary. Re-allocating the database requires a backup and restore operation.

Fields

- Number of kilobytes added by the new extent(s).

SOV09223E

Database contains only one CA.

Description

The database contains only one CA, and the share options on the database VSAM file are SHR(4,4) for cross-system sharing. When using share options SHR(4,4) ExHPDM requires at least two index levels in the VSAM database.

Action

Change the share options on the database VSAM data set to something other than SHR(4,4) for example SHR(4,3) or SHR(1,3) if possible. Contact StorageTek Software Support.

SOV09224E

Database data set *%s* could not be allocated.

Description

Allocation of the database VSAM data set failed. The database manager will start in quiesced mode. This is most likely because the database name specified in the ExHPDM parameter file is incorrect, although further information should be gained by examining the ExHPDM log file for dynamic allocation failure messages.

Action

Ensure that the database VSAM file specified in the ExHPDM parameter file exists and can be allocated. Retrying the database allocation can be achieved by entering the SET DATABASE RESTART command. If the name of the database in the DATABASE parameter of the ExHPDM parameter file is changed however, then it will be necessary to shutdown and restart ExHPDM.

Fields

- Data set name of the ExHPDM database

See also

SOV01001E, SOV01002E, SOV09100E, SOV09102I, SOV09103I

SOV09230I

Database backup complete. Please wait for compress.
***%d* client record(s) will be compressed.**
Reply CANcel to cancel database compression.

Description

A database backup has been requested. The first phase of the backup has been completed (copying to backup data set). The backup process is now starting to compress records in order to free up space in the database. This process may be long running, so the system operator has the opportunity of terminating this process before its completion.

Action

There is only one possible reply, which should not be used unless there is an urgent need. Normally, the process should be allowed to run to its completion, in which case there is no necessity to reply to this message.

CAN
Cancel the compression process. The backup may be resubmitted when all ExHPDM systems are in the correct state for backup i.e. the database must be quiesced on all ExHPDM servers except the system used to perform the backup. The compression process will resume from the point at which it was cancelled.

Fields

- Number of client records to be compressed.

See also

SOV09231I, SOV09232I

SOV09231I

Reply CANcel to cancel database compression

Description

See message SOV09230I

Action

See message SOV09230I

See also

SOV09230I, SOV09232I, SOV09233W

SOV09232I

Percent complete: *%d%* Est. time remaining: *%d* minutes

Description

When the database is being compressed following a successful backup, this message indicates the progress of the compression. Compression may be long running. This message will be issued approximately every three minutes.

Fields

- Percentage of records processed.
- Estimated number of minutes remaining. The estimate is computed based on the number of records processed so far, the number remaining, and the time taken so far.

See also

SOV09230I, SOV09231I

SOV09233W

Database compress cancelled. *%d* out of *%d* records processed.

Description

The operator replied CANcel to SOV09231I.

Fields

- Number of records processed.
- Number of records requiring compression.

See also

SOV09230I, SOV09231I

SOV09234I

Journal *%s* is being initialized. Please wait....

Description

The ExHPDM journal is being initialized.

Fields

- Dataset name of ExHPDM journal.

See also

SOV09235I

SOV09235I

Journal *%s* initialization complete.

Description

The ExHPDM journal is being initialized.

Fields

- Dataset name of ExHPDM journal.

See also

SOV09234I

SOV09236I

Journal *%s*, *%d*% used in *%d* extent*%s*.
%d **byte*%s* remaining.**

Description

The ExHPDM journal is being opened.

Fields

- Dataset name of ExHPDM journal.
- Percentage used.
- Number of extents.
- Size remaining.

See also

SOV09234I, SOV09235I

SOV09237E

Commit of journal entry failed.

Description

While writing the journal entry to disk, an error occurred.

Action

Check the SYSTERM file for any SAS/C messages that may indicate what error occurred. If necessary, perform a database backup. Once it has completed successfully, delete and reallocate the journal.

SOV09238E

Error determining journal attributes (*%d %08X %08X*)

Description

An error occurred while trying to determine the attributes of the journal dataset.

Action

- Internal diagnostic return code.
- Internal diagnostic reason code.
- Internal diagnostic information code.

SOV11001E

No usable ExHPDM subsystem found.

Description

An MVS subsystem name must be specified in either a PARM=’SSNAME’ statement on the ExHPDM server EXEC or a SNAMxxxx DD DUMMY in the job step. This name is required to identify the correct ExHPDM server on which the commands are to be executed. The name provided must be for a current active ExHPDM server address space.

Action

Supply a valid ExHPDM server subsystem name.

See also

SOV11002I

SOV11002I

Subsystem informational messages follow:

Description

The ExHPDM subsystem name lookup processing did not find a valid ExHPDM subsystem. The reason for failure is documented in the text of the following message(s).

See also

SOV11003I

SOV11003I

%s

Description

The ExHPDM subsystem name lookup processing did not find a valid ExHPDM server subsystem. The reason for failure is documented in the text of this message.

Action

Supply a valid ExHPDM server subsystem name.

Fields

- Reason for not being able to use the subsystem name.

SOV11004E

ExHPDM ADMIN utility input DD/data set could not be opened.

Description

The DD or data set could not be opened in the SOVADMN job step. The ExHPDM Admin Utility expects the ADMIN commands to be provided via a DD or Data set depending on how it is invoked.

Action

Supply an input DD in the SOVADMN job step.

SOV11005W

No Admin commands found to process.

Description

The input DD/Data set was empty. The ExHPDM Admin Utility expects the ADMIN commands to be provided via a DD or Data set depending on how it is invoked.

Action

Supply ADMIN commands in the input SYSIN DD in the SOVADMN job step.

SOV11007I

Admin Utility informational messages follow:

Description

The admin utility connection to ExHPDM returned informational messages.

SOV11008I

%s

Description

The information returned is documented in the text of the message.

Fields

- Informational ExHPDM server message.

SOV11009W

%s : %s

Description

Error message issued when parsing JCL Admin Utility parameters. These are the ExHPDM parameters specified on the PARM= JCL parameter.

Action

Review and correct any syntax or other errors in the JCL Admin Utility parameters.

Fields

- Context: JCL parms.
- Image of parser error or warning message.

SOV11010E

ExHPDM Admin Utility could not execute ADMIN commands.

Description

ExHPDM Admin Utility will not be run due to an error in the JCL parameters.

See also

SOV11009W

SOV11011I

ExHPDM Admin Utility version *%d.%d.%d*.

Description

Herald message to indicate the version of the ExHPDM Admin Utility.

Fields

- ExHPDM Admin Utility version.release.modification.

SOV11012W

%s

Description

The information returned is documented in the text of the message.

SOV11013I

ExHPDM Admin Utility is using ExHPDM subsystem *%-4.4s*.

Description

The Admin Utility will be using the indicated ExHPDM server subsystem to process all Admin commands.

Fields

- ExHPDM subsystem name.

SOV11014E

%s

Description

The information returned is documented in the text of the message.

SOV11015W

Cannot use subsystem specification : *%s*

Description

The specified SNAMxxxx DD DUMMY could not be used for the indicated reason.

Fields

- Reason for not using the SNAMxxxx DD DUMMY specification.

SOV11016E

Cannot use SSNAME subsystem specification : *%s*

Description

The specified SSNAME(xxxx) could not be used for the indicated reason.

Fields

- Reason for not using the SSNAME(xxxx) specification.

SOV11017E

Admin Command rejected - maximum command length of *%d* exceeded.

Description

The Admin command could not be executed as it has exceeded the maximum allowable length. The command would therefore be truncated which could lead to undesirable results if execution attempted.

Fields

- Length of Command Buffer.

SOV11018E

Admin Command rejected : *%s*

Description

The specified Admin Command could not be executed. Examine associated messages for the failure reason.

Fields

- Text of the rejected command.

See also

SOV11017E

SOV11019I

Admin Command to be executed is: *%s*

Description

Echoes the specified Admin Command being passed to the ExHPDM server for execution.

Fields

- Text of the current command.

SOV90000I

%s

Description

All messages from SOV90000I onwards are for internal diagnostic purposes. These are generated to the log file when the VERBOSE option is in effect.

Action

To suppress these messages from the log file issue the ExHPDM SET VERBOSE OFF command or remove the VERBOSE option if it has been specified on the ExHPDM started proc or on the SSI parameters.

APPENDIX **A**

Additional Information

Oracle Corporation (Oracle) offers several methods for you to obtain additional information.

Oracle's External Web Site

Oracle's external Web site provides marketing, product, event, corporate, and service information. The external Web site is accessible to anyone with a Web browser and an Internet connection. The URL for the Oracle external Web site is: http://www.oracle.com/us/index.html

The URL for Oracle's StorageTek storage information is:

http://www.oracle.com/us/products/servers-storage/storage/index.html

Oracle's StorageTek Documentation

The URL for Oracle's StorageTek documentation is:

http://docs.sun.com/app/docs

Oracle Global Partners

The Oracle Global Partners site provides information about solutions available with Oracle's partners:

http://www.oracle.com/partners/index.html

Third-Party Web Sites

Oracle is not responsible for the availability of third-party web sites mentioned in this document. Oracle does not endorse and is not responsible or liable for any content, advertising, products, or other materials that are available on or through such sites or resources. Oracle will not be responsible or liable for any actual or alleged damage or loss caused by or in connection with the use of or reliance on any such content, goods, or services that are available on or through such sites or resources.

Oracle’s Global Offices

You may contact any of Oracle’s worldwide offices to discuss complete storage, service, and support solutions for your organization. You can find contact information at:
http://www.oracle.com/corporate/contact/global.html

Customer Support

For more information about Oracle support (including for StorageTek branded products) see:
http://www.oracle.com/us/support/index.html

Conventions for Reader Usability

Conventions are used to shorten and clarify explanations and examples within this book.

Typographic

The following typographical conventions are used in this book:

- **Bold** is used to introduce new or unfamiliar terminology.
- Letter Gothic is used to indicate command names, filenames, and literal output by the computer.
- Letter Gothic Bold is used to indicate literal input to the computer.
- *Letter Gothic Italic* is used to indicate that you must substitute the actual value for a command parameter. In the following example, you would substitute your name for the "username" parameter.
- Logon *username*
- A bar (|) is used to separate alternative parameter values. In the example shown below either username or systemname must be entered.
- Logon *username*|*systemname*
- Brackets [ ] are used to indicate that a command parameter is optional.
- Ellipses (...) are used to indicate that a command may be repeated multiple times.
- The use of mixed upper and lower case characters (for non–case sensitive commands) indicates that lower case letters may be omitted to form abbreviations. For example, you may simply enter **Q** when executing the **Quit** command.

Keys

Single keystrokes are represented by double brackets [[ ]] surrounding the key name. For example, press [[ESC]] indicates that you should press only the escape key.

Combined keystrokes use double brackets and the plus sign (+). The double brackets surround the key names and the plus sign is used to add the second keystroke. For example, press [[ALT]] + [[C]] indicates that you should press the alternate key and the C key simultaneously.

Enter Command

The instruction to "press the [[ENTER]] key" is omitted from most examples, definitions, and explanations in this book.

For example, if the instructions asked you to "enter" **Logon pat**, you would type in **Logon pat** *and* press [[ENTER]].

However, if the instructions asked you to "type" **Logon pat**, you would type in **Logon pat** and you would *not* press [[ENTER]].

Warnings, Cautions, and Notes - Software

The following are used in software documentation.

Caution – Information necessary to keep you from corrupting your data.

Tip – Information that can be used to shorten or simplify your task or they may simply be used as a reminder.

Note – Information that may be of special interest to you. Notes are also used to point out exceptions to rules or procedures.

Warnings, Cautions, and Notes - Hardware

The following are used in hardware documentation.

Note – A note provides additional information that is of special interest. A note might point out exceptions to rules or procedures. A note usually, but not always, follows the information to which it pertains.

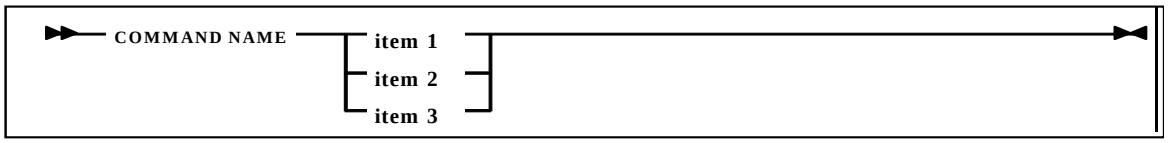
Caution – A caution informs you of conditions that might result in damage to hardware, corruption of data, or corruption of application software. A caution always precedes the information to which it pertains.

Warning – Possible Physical Injury. A warning alerts you to conditions that might result in long-term health problems, injury, or death. A warning always precedes the information to which it pertains.

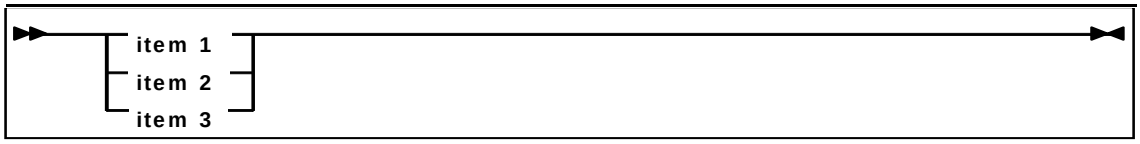
Syntax

Syntax flow diagram conventions include the following:

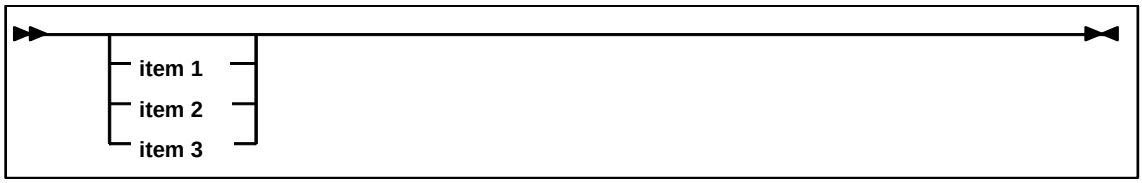
Flow Lines—Syntax diagrams consist of a horizontal baseline, horizontal and vertical branch lines and the command text. Diagrams are read left to right and top to bottom. Arrows show flow and direction.



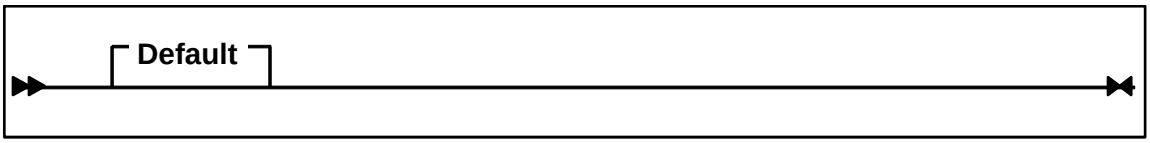
Single Required Choice—Branch lines (without repeat arrows) indicate that a single choice must be made. If one of the items to choose from is on the baseline of the diagram, one item must be selected.



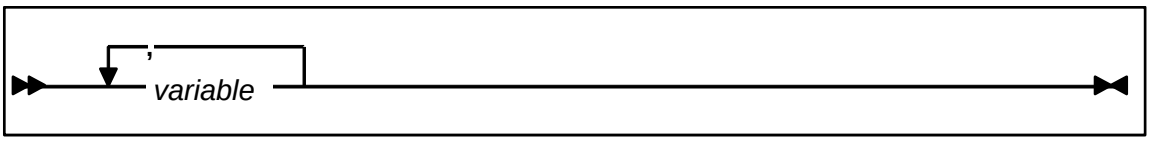
Single Optional Choice—If the first item is on the line below the baseline, one item may optionally be selected.



Defaults—Default values and parameters appear above the baseline.



Repeat Symbol—A repeat symbol indicates that more than one choice can be made or that a single choice can be made more than once. The repeat symbol shown in the following example indicates that a comma is required as the repeat separator.



Keywords—All command keywords are shown in all upper case or in mixed case. When commands are not case sensitive, mixed case implies that the lowercase letters may be omitted to form an abbreviation.

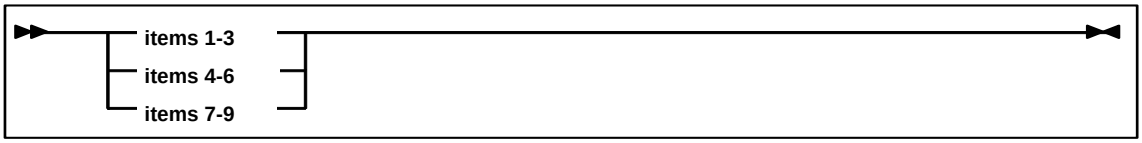
Variables—Italic type is used to indicate a variable.

Alternatives—A bar (|) is used to separate alternative parameter values.

Optional—Brackets [ ] are used to indicate that a command parameter is optional.

Delimiters—If a comma (,), a semicolon (;), or other delimiter is shown with an element of the syntax diagram, it must be entered as part of the statement or command.

Ranges—An inclusive range is indicated by a pair of elements of the same length and data type, joined by a dash. The first element must be strictly less than the second element.



Lists—A list consists of one or more elements. If more than one element is specified, the elements must be separated by a comma or a blank and the entire line must be enclosed by parentheses.