



# IMS TCP/IP OTMA Connection Messages and Codes

*Version 2.13*

**Note**

Before using this information and the product it supports, be sure to read the information in "Notices" on page v.

---

# Contents

<b>Notices</b> . . . . .	v
<b>Trademarks</b> . . . . .	vii
<b>Chapter 1. IMS TCP/IP OTMA Connection error codes and messages</b> . . .	1
Reader comment form . . . . .	1
HWSC0000I . . . . .	1
HWSC0001I . . . . .	1
HWSC0010I . . . . .	2
HWSC0020I . . . . .	2
HWSC0100W . . . . .	2
HWSC0101E . . . . .	3
HWSC0110W . . . . .	4
HWSC0112E . . . . .	5
HWSC0114W . . . . .	5
HWSC0120W . . . . .	7
HWSC0130I . . . . .	8
HWSD0200E . . . . .	9
HWSD0202W . . . . .	9
HWSD0204W . . . . .	10
HWSD0212E . . . . .	10
HWSD0222E . . . . .	12
HWSD0227W . . . . .	14
HWSD0230I . . . . .	15
HWSD0250W . . . . .	16
HWSD0252W . . . . .	16
HWSD0254W . . . . .	18
HWSD0260I . . . . .	18
HWSD0270I . . . . .	19
HWSD0280I . . . . .	19
HWSD0282I . . . . .	19
HWSD0284I . . . . .	20
HWSD0286I . . . . .	20
HWSD0290I . . . . .	20
HWSD0727W . . . . .	21
HWSD0730W . . . . .	21
HWSO1100W . . . . .	22
HWSP1101W . . . . .	22
HWSO1105W . . . . .	22
HWSO1110W . . . . .	23
HWSO1115W . . . . .	23
HWSO1205W . . . . .	24
HWSO1210W . . . . .	25
HWSO1215W . . . . .	25
HWSO1220W . . . . .	26
HWSO1305W . . . . .	26
HWSO1310W . . . . .	27
HWSO1315W . . . . .	28
HWSO1320W . . . . .	28
HWSO1325W . . . . .	29
HWSP1405W . . . . .	29
HWSP1410W . . . . .	29
HWSP1415E . . . . .	30

HWSP1420E . . . . .	30
HWSP1425E . . . . .	31
HWSP1426 . . . . .	31
HWSP1430E . . . . .	31
HWSP1435E . . . . .	32
HWSP1440E . . . . .	32
HWSP1445E . . . . .	32
HWSP1450E . . . . .	33
HWSP1455E . . . . .	33
HWSP1460E . . . . .	33
HWSP1465E . . . . .	34
HWSP1470E . . . . .	34
HWSP1475E . . . . .	34
HWSP1480E . . . . .	35
HWSP1485E . . . . .	35
HWSP1490E . . . . .	35
HWSP1495E . . . . .	36
HWSP1500E . . . . .	36
HWSP1503E . . . . .	37
HWSP1505E . . . . .	37
HWSR0800E . . . . .	37
HWSR0810E . . . . .	38
HWSR0880I . . . . .	39
HWSR0890I . . . . .	39
HWSS0700E . . . . .	40
HWSS0712E . . . . .	40
HWSS0714E . . . . .	42
HWSS0742W . . . . .	44
HWSS0746W . . . . .	45
HWSS0761I . . . . .	46
HWSS0770I . . . . .	47
HWSS0771W . . . . .	47
HWSS0775W . . . . .	48
HWSS0780I . . . . .	48
HWSS0781I . . . . .	49
HWSS0785W . . . . .	49
HWSS0790I . . . . .	49
HWSX0901E . . . . .	50
HWSX0902E . . . . .	50
HWSX0903E . . . . .	51
HWSX0904E . . . . .	52
HWSX0905E . . . . .	53
HWSX0907E . . . . .	54
HWSX0909E . . . . .	56
HWSX0910E . . . . .	59
HWSX0911E . . . . .	60
HWSX0912E . . . . .	62
<b>Chapter 2. Return and reason codes.</b> . . . . .	65
HWSSMPL0 . . . . .	65
HWSIMSO0 . . . . .	66
<b>Chapter 3. IMS TCP/IP OTMA Connection trace dump example</b> . . . . .	67
<b>Readers' Comments — We'd Like to Hear from You.</b> . . . . .	85

---

## Notices

This information was developed for products and services offered in the U.S.A. IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing  
IBM Corporation  
North Castle Drive  
Armonk, NY 10504-1785  
U.S.A.

**The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law:**

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this publication to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation  
J74/G4  
555 Bailey Avenue  
P.O. Box 49023  
San Jose, CA 95161-9023  
U.S.A.

Such information may be available, subject to appropriate terms and conditions, including, in some cases, payment of a fee.

The licensed program described in this information and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement, or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurement may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements, or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

#### COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrates programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing, or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs.

Each copy or any portion of these sample programs or any derivative work, must include a copyright notice as follows:

© (your company name) (year). Portions of this code are derived from IBM Corp. Sample Programs. © Copyright IBM Corp. \_enter the year or years\_. All rights reserved.

If you are viewing this information softcopy, the photographs and color illustrations may not appear.

---

## Trademarks

The following terms are trademarks of International Business Machines Corporation in the United States, or other countries, or both:

IBM	IMS
MVS	MVS/ESA
MVS/SP	RACF

Other company, product, and service names may be trademarks or service marks of others.





---

## Chapter 1. IMS TCP/IP OTMA Connection error codes and messages

---

### Reader comment form

A reader comment form is included with the hardcopy version of this book. If you would like to fill out the online version of the reader comment form, please link here or go to <http://www.software.ibm.com/data/rcf/>.

---

### HWSC0000I

**nn HWSC0000I \*HWS READY\* hid**

**Explanation:**

An MVS outstanding reply message used for entering IMS TCP/IP OTMA Connection (IMS TOC) commands.

*hid* identifies the HWS (the ID parameter of the HWS statement in the HWSCFGxx configuration files).

---

### HWSC0001I

**HWSC0001I HWS ID=*hid***

**HWSC0001I DS ID=*did* status=*state***

**HWSC0001I Group=*group* Member=*member***

**HWSC0001I Target Member=*tmember***

**HWSC0001I Port=*port* Status=*state***

**HWSC0001I Client=*clientname* Status=*c\_state***

**HWSC0001I No active Datastores**

**HWSC0001I No active Ports**

**HWSC0001I No active Clients**

**Explanation:**

Combinations of these messages are issued when any of the VIEW commands, VIEWDS, VIEWHWS, or VIEWPORT, are executed.

In the message text:

- *hid* identifies the HWS (the ID parameter of the HWS statement in the HWSCFGxx configuration file).
- *did* identifies the datastore (the ID parameter of the DATASTORE statement in the HWSCFGxx configuration file).
- *group* identifies the XCF group name (the GROUP parameter of the DATASTORE statement in the HWSCFGxx configuration file).
- *member* identifies the XCF member name (the MEMBER parameter of the DATASTORE statement in the HWSCFGxx configuration file).
- *tmember* identifies the XCF target member name (the TMEMBER parameter of the DATASTORE statement in the HWSCFGxx configuration file).
- *port* identifies the TCP/IP port (the PORT parameter of the TCPIP statement in the HWSCFGxx configuration file).

- *clientname* identifies the TCP/IP client (*clientname* is dynamically generated by the IMS Web server).
- *DELDUMMY* — if the *clientid* is displayed as *DELDUMMY*, the connection process has not completed.
- *state* identifies the state of the datastore or port and contains the following:
  - ACTIVE - state of datastore or TCP/IP port is active.
  - NOT ACTIVE - state of datastore or TCP/IP port is not active.
  - NOT DEFINED - state of datastore or TCP/IP port is not defined.
- *c\_state* identifies the state of the client and contains the following:
  - ACTV - client is in the active state.
  - CERR - client is in the communications error state.
  - IDLE - client is in the idle state (waiting for a response message to be sent by IMS TOC).
  - INTE - client is in the interface error state.
  - RECV - client is in the receive state (receiving a message from IMS TOC).
  - SHUT - client is in the shutdown state.
  - STOP - client is in the stopped state.
  - TERM - client is in the termination state (in the process of shutting down).
  - XMIT - client is in the transmit state (transmitting a message to IMS TOC).
  - CONN — client is in connected state.

**System Action:**

The messages are issued and the IMS TOC continues to run.

## HWSC0010I

**Hello, Welcome to IMS Web!**

**Explanation:**

Indicates that the IMS TCP/IP OTMA Connection is ready.

## HWSC0020I

**Thank you for using IMS Web, Bye!**

**Explanation:**

Indicates that the IMS TCP/IP OTMA Connection has shut down.

## HWSC0100W

**Unable to allocate storage for command; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

Storage for the command buffer cannot be allocated.

In the message text:

- *rc* identifies the return code.

- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
GETC01L	BPECBGET, the system service used to acquire the C01K.	4	An incorrect CBTE address is passed to the CG get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.
GETFWEB	BPECBGET, the system service used to acquire the FWEB.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.

**Module identifier:**

CMDC — HWSCMOPO

**System Action:**

This message is issued and, if possible, the requestor of the command is notified. In all cases, the IMS TOC continues to run.

**System Programmer Response:**

This is probably a storage error. Ensure that the region size for the IMS TOC is large enough. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

## HWSC0101E

**Function work element processing failure, FUNC=*func*; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

The function work element (FWE) cannot be processed. The FWE requests work between components and within components. This structure contains the function and parameters that a service requires for processing.

In the message text:

- *func* identifies the function requested.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
INVFUNC	The function requested in the FWE is incorrect.	4	This is a processing error.

**Module identifier:**

- CMDC - HWSCMDC0
- CMOP - HWSCMOP0

**System action:**

This message is issued and, if possible, the requestor of the function is notified. Otherwise, the FWE is freed. In all cases, the IMS TOC continues to run.

**System programmer response:**

This is probably an internal error. Search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

## HWSC0110W

**Command verb block process failure; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

Storage for the command verb block (CVB) cannot be allocated. The CVB contains the command verb and its parameters and is the structure used by all command processors to process a command in IMS TOC. Without this block, a command cannot be processed.

In the message text:

- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
GETCVBB	BPECBGET, the system service used to acquire the CVB.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.

**Module identifier:**

- CMDC - HWSCMDC0

**System action:**

This message is issued and, if possible, the requestor of the function is notified. In all cases, the IMS TOC continues to run.

**System programmer response:**

This is probably a storage error. Ensure that the region size for the IMS TOC is large enough. If the error recurs, search the problem-reporting

databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSC0112E

**Command parser failed, COMMAND=*hwscmd*; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

An error occurs during an attempt to parse the command from the command buffer.

In the message text:

- *hwscmd* identifies the command.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
NODATA	No data exists in the command buffer.	40	This is a processing error.
INVCMD	The command verb cmd is not a valid HWS command.	41	This is a processing error.
NOPARM	The command requires parameters, but you did not supply any.	42	This is a processing error.
NO2PARAM	The second parameter is missing for this command.	43	This is a processing error.
PARAM1ERR	The first parameter is wrong.	44	Please use the correct syntax.

**Module identifier:**

- CPAR - HWSCPAR0

**System action:**

This message is issued and, if possible, the requestor of the function is notified. Otherwise, the command buffer is freed and the IMS TOC continues to run.

**System programmer response:**

Ensure that the correct command is entered. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSC0114W

**COMMAND=*hwscmd*; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

During an attempt to propagate the command to the next level of command processing, an error is detected. The command is being forwarded to the component that can process it; however, a resource that this command is targeting might not be available.

In the message text:

- *hwscmd* identifies the command.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
INVLCMD	The command is incorrect.	4	This is a processing error.
NFNDDCT	The datastore communication table cannot be found. This table contains the information that is retrieved from the configuration member HWSCFGxx for each datastore defined.	8	This is a processing error.
NFNDDST	The datastore table cannot be found. This table maintains the activity of a datastore.	4	This is a processing error.
NFNDSVT	The server table cannot be found. This table maintains the activity of a connected IMS Web client.	4	This is a processing error.
NACTO/C	The open/close thread is not active. The command can only be processed by the open/close controller and the controller is no longer active. The HWS could be shutting down.	4	This is a processing error.

Service code	Short explanation	Return code (decimal)	Meaning
BPEGETM	System service used to acquire the response buffer.	4	An incorrect or unsupported subpool is specified.
		8	A zero length is requested.
		12	Unable to obtain the requested storage (MVS GETMAIN failed).
NFNDCOMP	The component that handles the requested function cannot be found. An HWS component issues an interface call for another component's service and the component being requested for service cannot be located.	4	This is a processing error.
NFNDFUNC	The requested function cannot be found. An HWS component issues an interface call for another component's service and the service being requested cannot be located.	8	This is a processing error.

**Module identifier:**

- CVBC - HWSVCBC0

**System action:**

This message is issued and, if possible, the requestor of the function is notified. Otherwise, the command buffer is freed and the IMS TOC continues to run.

**System programmer response:**

Ensure that the correct command is entered. If the service code is NFNDCOMP or NFNDFUNC, this is probably an internal error. Search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSC0120W

**Unable to send command response to HWSHOST; R=rc, S=sc, M=mc**

**Explanation:**

An error occurs during an attempt to send the command response back to the system console.

In the message text:

- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
INVLTAG	The command response tag is incorrect. Command response tags represent the types of response that are being sent.	4	This is a processing error.
NFNDCOMP	The component that handles the requested function cannot be found. An HWS component issues a call to the call interface for another component's service and the requested component cannot be located.	4	This is a processing error.
NFNDFUNC	The requested function cannot be found. An HWS component issues a call to the call interface for another component's service and the requested service cannot be located.	8	This is a processing error.

**Module identifier:**

- CRSP - HWSCRSP0

**System action:**

This message is issued and the command response buffers are freed. The IMS TOC continues to run.

**System programmer response:**

This is probably an internal error. Search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSC0130I

**CLOSEHWS already in progress; M=*mc***

**Explanation:**

The IMS TOC is in the process of closing. This message is issued when a CLOSEHWS command is entered more than once.

In the message text:

- *mc* identifies the module issuing the message.



**Module identifier:**

- CHWS - HWSCHWS0

**System action:**

If the IMS TOC does not terminate after the CLOSEHWS command is entered, use the VIEWHWS command to determine the status and queues for the datastores and IMS Web clients. Ensure that no clients are active. If any clients are active, the IMS TOC does not terminate.

**HWSD0200E****Function work element processing failure, FUNC=*func*; R=*rc*, S=*sc*, M=*mc*****Explanation:**

The function work element (FWE) cannot be processed. The FWE requests work between and within components. This structure contains the function and parameters that a service requires for processing.

In the message text:

- *func* identifies the function requested.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
INVFUNC	The function requested in the FWE is incorrect.	4	This is a processing error.

**Module identifier:**

- DOCC — HWSDOCC0
- DSCH — HWSDSCH0
- DCVC — HWSDCVC0

**System action:**

This message is issued and, if possible, the requestor of the function is notified. Otherwise, the FWE is freed. In all cases, the IMS TOC continues to run.

**System programmer response:**

This is probably an internal error. Search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

**HWSD0202W****FWE Function=*func* failed for DS=*did*, Command=*hwscmd* in progress; M=*mc*****Explanation:**

The function *func* cannot be processed because the command identified by *hwscmd* is already being processed.

In the message text:

- *func* identifies the function requested.

- *did* identifies the datastore.
- *hwscmd* identifies the IMS TOC command in progress.
- *mc* identifies the module issuing the message.

**Module identifier:**

- DSCM— HWSDSCM0

**System action:**

This message is issued and, if possible, the requestor of the function is notified. Otherwise, the FWE is freed. In all cases, the IMS TOC continues to run.

**System programmer response:**

The IMS TOC command in progress is terminating the datastore; therefore, any new function for that datastore cannot be processed.

## HWSD0204W

**Command=*hwscmd* failed for DS=*did*, Command=*prev\_hwscmd* already in progress; M=*mc***

**Explanation:**

The IMS TOC command entered for the datastore, *hwscmd*, cannot be processed because a command for that datastore, *prev\_hwscmd*, is already in progress.

In the message text:

- *hwscmd* identifies the IMS TOC command that was blocked from being run by *hwscmd*.
- *did* identifies the datastore affected by *hwscmd* and *prev\_hwscmd*.
- *prev\_hwscmd* identifies the IMS TOC command that is blocking *hwscmd* from running.
- *mc* identifies the module issuing the message.

**Module identifier:**

- DSCM— HWSDSCM0

**System action:**

This message is issued and, if possible, the requestor of the function is notified. Otherwise, the FWE is freed. In all cases, the IMS TOC continues to run.

**System programmer response:**

The IMS TOC command in progress is terminating the datastore; therefore, any new commands cannot be processed. If the IMS TOC command (*hwscmd*) was CLOSEHWS, the IMS TOC terminates after the processing of *prev\_hwscmd* completes.

## HWSD0212E

**Unable to start SCHEDULER CONTROLLER; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

Storage cannot be allocated for the scheduler controller structure, or the scheduler controller thread cannot be scheduled. A scheduler controller is started for each datastore that is defined to IMS TOC. The scheduler controller is the controller that schedules the threads associated with a datastore.

In the message text:

- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
GETDSTB	BPECBGET, the system service used to acquire the datastore table (DST).	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.
GETTWUB	BPECBGET, the system service used to acquire the thread workunit (TWU) for the scheduler controller.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.
INCLOSE	The IMS TOC is in the process of closing. No datastore can be started.	12	This is a processing error.

Service code	Short explanation	Return code (decimal)	Meaning
SCHEDTWU	BPETHDCR, the system service used to schedule the scheduler controller thread.	4	An incorrect dispatcher work area is passed to the create thread routine.
		8	An incorrect TCB index value is passed on the TCBIDX parameter.
		12	A zero routine address is passed on the ROUTINE= parameter.
		16	An incorrect TCB table entry address is passed into the thread create routine. The BPETHDCR macro determines the TCBT address based on whether the parameter TCBTYPE, TCBIDX, or TCBDWA is specified. Ensure that this parameter is correctly coded.
		20	Unable to get storage for a thread control block (THCB) for the thread.
		24	Unable to get stack storage for the thread.
		28	The initial post of the thread failed.

**Module identifier:**

- DOCC — HWSDOCC0
- DOCM — HWSDOCM0

**System action:**

This message is issued and the IMS TOC continues to run.

**System programmer response:**

Ensure that the region size in the JCL statement is large enough to accommodate the IMS TOC region. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSD0222E

Unable to start transmit/receive threads for DS=*did*; R=*rc*, S=*sc*, M=*mc*

**Explanation:**

Storage cannot be allocated for the transmit or receive thread structure, or either the transmit thread or the receive thread cannot be scheduled. A transmit thread and receive thread are allocated for each datastore that is defined for message transmission and reception.

In the message text:

- *did* identifies the datastore.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
GETDSBB	BPECBGET, the system service used to acquire the datastore block (DSB) for the transmit and receive threads. This is the execution block for a thread.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.
GETC01K	BPECBGET, the system service used to acquire the common 1024 byte (C01K) for the conversation controller. The area is used as a work area.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.
GETTWUB	BPECBGET, the system service used to acquire the thread workunit (TWU) for the transmit and receive threads.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.

Service code	Short explanation	Return code (decimal)	Meaning
SCHEDTWU	BPETHDCR, the system service used to schedule the scheduler controller thread.	4	An incorrect dispatcher work area is passed to the create thread routine.
		8	An incorrect TCB index value is passed on the TCBIDX parameter.
		12	A zero routine address is passed on the ROUTINE= parameter.
		16	An incorrect TCB table entry address is passed into the thread create routine. The BPETHDCR macro determines the TCBT address based on whether the parameter TCBTYPE, TCBIDX, or TCBDDWA is specified. Ensure that this parameter is correctly coded.
		20	Unable to get storage for a thread control block (THCB) for the thread.
		24	Unable to get stack storage for the thread.
		28	The initial post of the thread failed.

**Module identifier:**

- DSC1 — HWS DSC10
- DSCM — HWS DSCM0

**System action:**

This message is issued and the IMS TOC continues to run with datastores that can be started.

**System programmer response:**

On the subsequent close and startup of the IMS TOC, ensure that the region size in the JCL statement is large enough to accommodate the IMS TOC region. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSD0227W

Close failed for DS=*did*; R=*rc*, S=*sc*, M=*mc*

**Explanation:**

An attempt to close the named datastore is unsuccessful during IMS TOC shutdown.

In the message text:

- *did* identifies the datastore.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
GETFWEB	BPECBGET, the system service used to acquire an FWE to notify all datastore to close.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.

**Module identifier:**

- DOC3— HWSDOC30

**System action:**

This message is issued and the IMS TOC continues to run.

**System programmer response:**

Storage cannot be allocated to notify the datastore to close. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

**HWSD0230I**

**DS=did already active; R=rc, S=sc, M=mc**

**Explanation:**

An OPENDS command is issued for a datastore that is already active.

In the message text:

- *did* identifies the datastore.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
ACTIVDST	The datastore is active.	0	The process is successful.

**Module identifier:**

- DOCM— HWSDOCM0

**System action:**

This message is issued and the IMS TOC continues to run.

**System programmer response:**

Ensure that the correct name is provided in the OPENDS command. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

**HWSD0250W**

**Unable to notify MSG ORIGIN=*clientid* of OTMA communication error; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

The IMS TOC is unable to notify the TCP/IP client who originated a message, which is either being processed or queued for processing, that a communication error with IMS OTMA has occurred.

In the message text:

- *clientid* identifies the TCP/IP client.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
COMMERR	Communication error with IMS OTMA.	4	This is a processing error.

**Module identifier:**

- DXMT— HWSDXMT0
- DSC3— HWSDSC30
- DSCE— HWSDSCE0

**System action:**

This message is issued and the IMS TOC continues to run. The message whose processing caused the error is discarded.

**System programmer response:**

This error can occur when the datastore is no longer active or the communication linkage to the IMS TOC is broken.

**HWSD0252W**

**Unable to send response received from DS=*did* to CLIENT=*clientid*; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

The IMS TOC is unable to send the response received from a datastore to the required TCP/IP client.

In the message text:

- *did* identifies the datastore.
- *clientid* identifies the TCP/IP client.



- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
INVLDTOK	Invalid server token has been detected.	4	Use the correct server token for the conversation iteration. Or, a second client is starting a conversation and is using a duplicate ID while the first client is in a conversation.
NFNDCOMP	The component that handles the requested function cannot be found. An IMS TOC component issues an interface call for another component's service and the requested component cannot be located.	4	This is a processing error.
NFNDFUNC	The requested function cannot be found. An IMS TOC component issues an interface call for another component's service and the requested service cannot be located.	8	This is a processing error.
NFNDSVT	The server table cannot be found. This table maintains the activity of a connected IMS Web client.	4	This is a processing error.

**Module identifier:**

- DREC— HWS DREC0

**System action:**

This message is issued and the IMS TOC continues to run. The response message is discarded.

**System programmer response:**

This error can occur when the IMS Web client is no longer active and is not connected to the IMS TOC. If the service code is NFNDCOMP or NFNDFUNC, this is probably an internal error. Search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSD0254W

**Unable to notify DS=*did* scheduler of communication error; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

The IMS TOC is unable to notify the scheduler controller for the named datastore that a communication error has occurred. When this condition occurs, the IMS TOC views the named datastore as active. However, messages queued for the datastore are not sent to it.

In the message text:

- *did* identifies the datastore.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
COMMERR	Communication error.	4	This is a processing error.

**Module identifier:**

- DREC—HWSDREC0
- DXMT—HWSDXMT0

**System action:**

This message is issued and the IMS TOC continues to run.

**System programmer response:**

Issue the STOPDS command to terminate the datastore. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSD0260I

**DS=*did tname* thread terminated; M=*mc***

**Explanation:**

The datastore transmit thread or receive thread has terminated.

In the message text:

- *did* identifies the datastore.
- *tname* identifies the thread type.
- *mc* identifies the module issuing the message.

**Module identifier:**

- DREC—HWSDREC0
- DXMT—HWSDXMT0

**System action:**

This message is issued when a datastore thread has terminated.

---

## HWSD0270I

### **OTMA open failed; R=*rc*, M=*mc***

#### **Explanation:**

Communication with a datastore failed during IMS TOC startup or in response to an IMS TOC OPENDS command and resulted in the failure of the OTMA open function.

In the message text:

- *rc* identifies the return code.
- *mc* identifies the module issuing the message.

#### **Module identifier:**

- DOC1— HWSDOC10

#### **System action:**

This message is issued when communication to OTMA fails due to a communications failure with a datastore. See message “HWSO1105W” on page 22 or message “HWSO1110W” on page 23 for additional information related to this failure.

#### **System programmer response:**

This error can occur when the group and members of IMS OTMA are not correctly defined. Use the IMS TOC VIEWDS or VIEWHWS commands to view the status of the datastores in the system and determine which datastores were not able to be opened. If the problem persists, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSD0280I

### **Datastore communication function closed; M=*mc***

#### **Explanation:**

The communication facility for datastores has become inactive.

In the message text:

- *mc* identifies the module issuing the message.

#### **Module identifier:**

- DOC3— HWSDOC30

#### **System action:**

This message is issued when all communications with the datastores have terminated and during IMS TOC shutdown.

---

## HWSD0282I

### **Communication with DS=*did* closed; M=*mc***

#### **Explanation:**

Communication for the named datastore has terminated.

In the message text:

- *did* identifies the datastore.
- *mc* identifies the module issuing the message.

**Module identifier:**

- DSCL— HWSDSCL0

**System action:**

This message is issued when a CLOSED command has successfully completed.

---

## HWSD0284I

**Communication with DS=*did* stopped; M=*mc***

**Explanation:**

Communication for the named datastore has stopped.

In the message text:

- *did* identifies the datastore.
- *mc* identifies the module issuing the message.

**Module identifier:**

- DSCM— HWSDSCM0

**System action:**

This message is issued when a STOPDS command has successfully completed.

---

## HWSD0286I

**Communication with DS=*did* stopped due to communication error; M=*mc***

**Explanation:**

Communication for the named datastore stops because of an error.

In the message text:

- *did* identifies the datastore.
- *mc* identifies the module issuing the message.

**Module identifier:**

- DSCM— HWSDSCM0

**System action:**

This message is issued when a communication error occurs with a datastore. Stop (/STOP OTMA) and restart (/START OTMA) OTMA and then close (CLOSEDS) and reopen (OPENDS) the datastore.

---

## HWSD0290I

**Connected to DATASTORE=*did*; M=*mc***

**Explanation:**

Communication has been established with the named datastore.

In the message text:

- *did* identifies the datastore.
- *mc* identifies the module issuing the message.

**Module identifier:**

- DSC1— HWSDSC10

**System action:**

This message is issued when a connection has been established with a datastore. This might occur during IMS TOC startup or at the successful completion of an OPENDS command.

---

## HWSD0727W

**Terminate failed for TCPIP Cient=*portid\_clientid*; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

An attempt to terminate the named client is unsuccessful.

In the message text:

- *portid* identifies the port.
- *clientid* identifies the TCP/IP client.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
NFNDSVT	The TCP/IP client table (SVT) using the portid and the clientid as the search value cannot be located. This table represents a TCP/IP client connection with the IMS TOC.	4	This is a processing error.

**Module identifier:**

- SCCL— HWSSCCL0

**System action:**

This is probably an internal error. Search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSD0730W

**Command=*command* for Port=*portid* rejected, Client(s) in progress; M=*mc***

**Explanation:**

An attempt to terminate the port with a command cannot be processed because IMS Web clients are currently scheduled for this port.

In the message text:

- *command* identifies the datastore.
- *portid* identifies the port.
- *mc* identifies the module issuing the message.

**Module identifier:**

- SSTP— HWSSSTP0

**System Programmer Response:**

Reenter the command after all active IMS Web clients for the port have become inactive. Use the VIEWPORT command to determine the activity on the port.

---

**HWSO1100W****Failed to obtain free storage; R=*rc*, B=*bn*, M=*mc*****Explanation:**

The IMS TOC OTMA driver is unable to get free storage for internal buffers.

In the message text:

- *rc* identifies the return code.
- *bn* identifies the buffer name.
- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

This error can occur when not enough storage is available to complete the process. If the problem persists, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

**HWSP1101W****Failed to release storage; R=*rc*, B=*bn*, M=*mc*****Explanation:**

The IMS TOC OTMA driver is unable to release storage for internal buffers.

In the message text:

- *rc* identifies the return code.
- *bn* identifies the buffer name.
- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

This is probably an internal error. Search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

**HWSO1105W****GETMAIN for OTOKEN + IXCQUERY control buffer failed; R=*rc*, S=*sc*, M=*mc*****Explanation:**

Storage for the OTOKEN buffer could not be allocated.

In the message text:

- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.

- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
GETOTOKN	BPEGETM, the system service used to acquire the OTOKEN.	4	An incorrect or unsupported subpool is specified.
		8	A zero length is requested.
		12	Unable to obtain the requested storage (MVS GETMAIN failed).

**Module identifier:**

- DDXR— HWSDDXRG

**System Programmer Response:**

This is probably a storage error. Ensure that the region size for the IMS TOC is large enough. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

## HWSO1110W

**IXCQUERY failed for OTMA sysplex environment; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

An attempt to query OTMA sysplex environment information (REQINFO=SYSPLEX) is unsuccessful.

In the message text:

- *rc* identifies the return code.
- *sc* identifies the reason code.
- *mc* identifies the module issuing the message.

Return codes (decimal): See *MVS/ESA SP Authorized Assembler Reference*.

Reason codes (decimal): See *MVS/ESA SP Authorized Assembler Reference*.

**Module identifier:**

- DDXR— HWSDDXRG

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

See *MVS/ESA SP Authorized Assembler Reference* and take appropriate action.

## HWSO1115W

**XCF FUNC=function, error for OTMA sysplex environment; DS=*did*, R=*rc*, S=*sc*, M=*mc***

**Explanation:**

The function on a XCF call terminated in error for the named datastore.

In the message text:

- *function* identifies the function (Transmit or Receive).
- *rc* identifies the XCF return code.
- *sc* identifies the XCF reason code.
- *mc* identifies the module issuing the message.

**Module identifier:**

- DXMT— HWSDDXMT
- DXRC— HWSDDXRC

**System action:**

This message is issued when a transmit or receive to or from IMS occurs. The connection will be lost.

**HWSO1205W****GETMAIN for CTOKEN + IXCJOIN control buffer failed; R=rc, S=sc, M=mc****Explanation:**

Storage for the CTOKEN + IXCJOIN buffer could not be allocated.

In the message text:

- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
GETCTOKN	BPEGETM, the system service used to acquire the CTOKEN.	4	An incorrect or unsupported subpool is specified.
		8	A zero length is requested.
		12	Unable to obtain the requested storage (MVS GETMAIN failed).

**Module identifier:**

- DDXO— HWSDDXOT

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

This is probably a storage error. Ensure that the region size for the IMS TOC is large enough. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.



---

## HWSO1210W

**IXCQUERY failed for Group=group, Member=tmember, R=rc, S=sc, M=mc**

**Explanation:**

An attempt to query OTMA group information (REQINFO=GROUP) is unsuccessful.

In the message text:

- *group* identifies the XCF group name.
- *tmember* identifies the IMS's XCF target member name.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Group name	Member name	Return code (decimal)	Reason code (decimal)
XCF group name	IMS XCF member name	See <i>MVS/ESA SP Authorized Assembler Reference</i> .	See <i>MVS/ESA SP Authorized Assembler Reference</i> .

**Module identifier:**

- DDXO— HWSDDXOT

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

See *MVS/ESA SP Authorized Assembler Reference* and take the appropriate action.

---

## HWSO1215W

**XCF Group=group, Member=tmember is not active; R=rc, S=sc, M=mc**

**Explanation:**

The target XCF member is not active.

In the message text:

- *group* identifies the XCF group name.
- *tmember* identifies the IMS's XCF target member name.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Group name	Member name	Service code	Return code (decimal)	Meaning
XCF group name	IMS XCF member name	NOTACTV	4	The target member is not active.

**Module identifier:**

- DDXO— HWSDDXOT

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

Check the status of the target member and restart the target member.

**HWSO1220W**

**IXCJOIN failed for Group=group, Member=member, R=rc, S=sc, M=mc**

**Explanation:**

An attempt to join the XCF group is unsuccessful.

In the message text:

- *group* identifies the XCF group name.
- *member* identifies the IMS TOC's XCF member name.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Group name	Member name	Return code (decimal)	Reason code (decimal)
XCF group name	IMS TOC's XCF member name	See <i>MVS/ESA SP Authorized Assembler Reference</i> .	See <i>MVS/ESA SP Authorized Assembler Reference</i> .

**Module identifier:**

- DDXO— HWSDDXOT

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

See *MVS/ESA SP Authorized Assembler Reference* and take the appropriate action.

**HWSO1305W**

**CBGET for C512 block failed; R=rc, S=sc, M=mc**

**Explanation:**

Storage for the client bid buffer cannot be allocated.

In the message text:

- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
GETC512	BPECBGET, the system service used to acquire C512.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.

**Module identifier:**

- DDXC— HWSDDXC

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

This is probably a storage error. Ensure that the region size for the IMS TOC is large enough. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

## HWSO1310W

**IXCMSGO failed for Client Bid Group=*group*, Member=*member*, R=*rc*, S=*sc*, M=*mc***

**Explanation:**

An attempt to send a client bid to IMS OTMA is unsuccessful.

In the message text:

- *group* identifies the XCF group name.
- *member* identifies the IMS TOC's XCF member name.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Group name	Member name	Return code (decimal)	Reason code (decimal)
XCF group name	IMS TOC's XCF member name	See <i>MVS/ESA SP Authorized Assembler Reference</i> .	See <i>MVS/ESA SP Authorized Assembler Reference</i> .

**Module identifier:**

- DDXC— HWSDDXCN

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

See *MVS/ESA SP Authorized Assembler Reference* for the possible cause of the specified return and reason codes.

---

## HWSO1315W

**IXCLEAVE failed for Group=group, Member=member, R=rc, S=sc, M=mc**

**Explanation:**

An attempt to leave the XCF group is unsuccessful.

In the message text:

- *group* identifies the XCF group name.
- *member* identifies the IMS TOC's XCF member name.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Group name	Member name	Return code (decimal)	Reason code (decimal)
XCF group name	IMS TOC's XCF member name	See <i>MVS/ESA SP Authorized Assembler Reference</i> .	See <i>MVS/ESA SP Authorized Assembler Reference</i> .

**Module identifier:**

- DDXC— HWSDDXCN

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

See *MVS/ESA SP Authorized Assembler Reference* for the possible cause of the specified return and reason codes.

---

## HWSO1320W

**Client Bid failed for Group=group, Member=member, R=rc, S=sc, M=mc**

**Explanation:**

A client bid with IMS OTMA is unsuccessful.

In the message text:

- *group* identifies the XCF group name.
- *member* identifies the IMS TOC's XCF member name.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Group name	Member name	Service code	Return code (decimal)	Meaning
XCF group name	IMS TOC's XCF member name	CBERROR	See <i>IMS/ESA OTMA Guide and Reference</i> .	This is a client bid error.

**Module identifier:**

- DDXC— HWSDDXCN

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

See *IMS/ESA OTMA Guide and Reference* for the possible cause of the specified return code.

---

**HWSO1325W****RACFOUTE REQUEST=TOKENXTR failed for R=*rc*, S=*sc*, M=*mc*****Explanation:**

An attempt to extract a utoken for IMS TOC ASID is unsuccessful.

In the message text:

- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Return codes (decimal): See the RACROUTE macro reference for MVS.

Reason codes (decimal): See the RACROUTE macro reference for MVS.

**Module identifier:**

- DDXC— HWSDDXC

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

See the RACROUTE macro reference for MVS for the possible cause of the specified return and reason codes.

---

**HWSP1405W****Failed to obtain free storage; R=*rc*, B=*bn*, M=*mc*****Explanation:**

The IMS TOC OTMA driver is unable to get free storage for internal buffers.

In the message text:

- *rc* identifies the return code.
- *bn* identifies the buffer name.
- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

This error can occur when not enough storage is available to complete the process. If the problem persists, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

**HWSP1410W****Failed to release storage; R=*rc*, B=*bn*, M=*mc***

**Explanation:**

The IMS TOC OTMA driver is unable to release storage for internal buffers.

In the message text:

- *rc* identifies the return code.
- *bn* identifies the buffer name.
- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

This is probably an internal error. Search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSP1415E

**TCP/IP SOCKET Function Call failed; F=*fn*, R=*rc*, E=*ec*, M=*mc*****Explanation:**

The IMS TOC TCP/IP driver is unable to perform the specified socket function.

In the message text:

- *fn* identifies the TCP/IP socket function call.
- *rc* identifies the return code.
- *ec* identifies the error code.
- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

For the possible cause of the specified return code and error code, see *TCP/IP Application Programming Interface Reference*.

---

## HWSP1420E

**PORT NUMBER contains non-numeric value; P=*portid*, M=*mc*****Explanation:**

The IMS TOC TCP/IP driver is unable to convert the *portid* character string to a numeric value.

In the message text:

- *portid* identifies the port id character string in the PORT substatement of the TCPIP statement in the IMS TOC configuration member, HWSCFGxx.
- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

Check the PORT substatement of the TCPIP statement in the IMS TOC configuration member, HWSCFGxx, for the correct numeric characters. Correct the problem and restart the IMS TOC.

---

## HWSP1425E

**WAIT ECB failed; F=*fn*, C=*pc*, M=*mc***

**Explanation:**

The IMS TOC TCP/IP driver is informed of an unsuccessful post code.

In the message text:

- *fn* identifies the function performed.
- *pc* identifies the post code.
- *mc* identifies the module issuing the message.

**Module identifier:**

- - HWSSDOTD

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

Check the post code for the possible cause. For the post code, see *TCP/IP Application Programming Interface Reference*.

---

## HWSP1426

**WAIT ECB failed; F=*fn*, C=*pc*, M=*mc***

**Explanation:**

An invalid post code was returned to IMS TOC.

In the message text:

- *fn* identifies the function performed.
- *pc* identifies the post code.
- *mc* identifies the module issuing the message.

**Module identifier:**

- - HWSSDOTD

**System action:**

This message is issued and IMS TOC continues to run.

**System Programmer Response:**

Check the post code for the possible cause. For the post code, see *TCP/IP Application Programming Interface Reference*.

---

## HWSP1430E

**TCP/IP Internal Error; F=*fn*, R=*rc*, E=*ec*, M=*mc***

**Explanation:**

TCP/IP is unable to perform the specified socket function.

In the message text:

- *fn* identifies the TCP/IP socket function call.
- *rc* identifies the return code.
- *ec* identifies the error code.
- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

For the possible cause of the specified return code and error code, see *TCP/IP Application Programming Interface Reference*.

---

**HWSP1435E****Socket closed; Request message incomplete; M=mc****Explanation:**

The TCP/IP socket closes before all the data has been received.

In the message text:

- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

None. A disconnection might have occurred before the data was completely sent out. The request message is discarded.

---

**HWSP1440E****Invalid length specified in message prefix; L=//, M=mc****Explanation:**

The length field in the message prefix contains an invalid value. A valid message length value is between 12 and 10,000,000 inclusive, and it must be equal to the exact data being sent.

In the message text:

- *//* identifies the length specified in the message prefix. This is the length of the entire message including the 12-byte message prefix.
- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

None. The request message is discarded.

---

**HWSP1445E****Unknown EXIT identifier specified in message prefix; MSGID=msgid1/msgid2, M=mc****Explanation:**

The MSGID identifier in the message prefix contains an unknown identifier. Exit identifiers are given to the IMS TOC in the INIT subroutine of the user exit.

In the message text:

- *msgid1* identifies the EBCDIC MSGID in the message prefix.
- *msgid2* identifies the ASCII MSGID in the message prefix.
- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.



**System Programmer Response:**

None. The request message is discarded.

---

## HWSP1450E

**Message contains invalid length; SEG\_NO=*sn*, APP\_LL=*al*, Total Msg Len=*tl*, Expected Msg Len=*el*, C=*clientid*, M=*mc***

**Explanation:**

The input OTMA message contains an incorrect application data length.

In the message text:

- *sn* identifies the OTMA segment number.
- *al* identifies the application data length in the OTMA segment.
- *tl* identifies the length of the total message specified.
- *el* identifies the length of the expected message.
- *clientid* identifies the client name. It will contain blanks if the client name is not available.
- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

None. The request message is discarded.

---

## HWSP1455E

**Message contains invalid length; AREA\_LL=*ar*, APP\_LL=*al*, M=*mc***

**Explanation:**

The input OTMA message contains an incorrect application data length.

In the message text:

- *ar* identifies the internal buffer length.
- *al* identifies the application data length in the OTMA segment.
- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

None. The request message is discarded. This is an IMS TOC/IMS internal error. Contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSP1460E

**Missing FIC in OTMA prefix; M=*mc***

**Explanation:**

The input OTMA message does not contain a first-in-chain (FIC) flag in the first segment.

In the message text:

- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

None. The request message is discarded.

---

## HWSP1465E

**Missing LIC in OTMA prefix; SEG\_NO=*sn*, M=*mc*****Explanation:**

The input OTMA message does not contain a last-in-chain (LIC) flag in the last segment.

In the message text:

- *sn* identifies the number of the segment.
- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

None. The request message is discarded.

---

## HWSP1470E

**Loading EXIT failed; EXIT=*msgid*, R=*rc*, M=*mc*****Explanation:**

The IMS TOC failed to load the user exit.

In the message text:

- *msgid* identifies the MSGID (exit name) in the message prefix.
- *rc* identifies the return code from loading.
- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

Examine the return code and resolve the problem, and then restart the IMS TOC to reload the exit.

---

## HWSP1475E

**EXIT execution failed; EXIT=*msgid*, F=*fn*, R=*rc*, M=*mc*****Explanation:**

A user exit returns an incorrect return code to the IMS TOC when called by the IMS TOC to perform an INIT or TERM function.

In the message text:

- *msgid* identifies the MSGID (exit name) in the message prefix.
- *fn* identifies the function failed.
- *rc* identifies the return code from loading.
- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

Pass the return code and function name to the exit owner to resolve the problem.

---

**HWSP1480E****Conflict identifiers returned from EXIT; EXIT1=en1, EXIT2=en2, M=mc****Explanation:**

Multiple user exits that use the same exit name are defined in the EXIT substatement of the TCP/IP statement in the HWSCFGxx configuration member.

In the message text:

- *en1* identifies the first exit name.
- *en2* identifies the second exit name.
- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run, but none of the TCP/IP communication facilities will work properly.

**System Programmer Response:**

Have the owner of EXIT1 and EXIT2 resolve the naming problem, correct the exit names in the EXIT substatement in HWSCFGxx, and then take down and restart IMS TOC.

---

**HWSP1485E****Passing to TCP/IP async failed; F=fn, R=rc, E=ec, M=mc****Explanation:**

TCP/IP rejects the request for asynchronous function processing.

In the message text:

- *fn* identifies the TCP/IP socket function call.
- *rc* identifies the return code.
- *ec* identifies the error code.
- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

For the possible cause of the specified return and error codes, see *TCP/IP Application Programming Interface Reference*.

---

**HWSP1490E****Invalid OTMA sequence number; Seg=gn, SEQ=qn, C=cn, M=mc****Explanation:**

A request message coming from a Web client or generated by a user exit contains an invalid sequence number in the OTMA prefix. The sequence number must match the segment number.

In the message text:

- *gn* identifies the segment number.
- *qn* identifies the sequence number.

- *cn* identifies the client name. It will contain blanks if the client name is not available.
- *mc* identifies the module issuing the message.

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

None. The request message is discarded.

## HWSP1495E

**Protocol violation; R=*rc*, C=*cn*, M=*mc***

**Explanation:**

IMS TOC received the input message while waiting for the response ACK/NAK.

In the message text:

- *rc* identifies the return code.
- *cn* identifies the client name. It will contain blanks if the client name is not available.
- *mc* identifies the module issuing the message.

**Module identifier:**

- SDRC — HWSSDRCV

**System action:**

This message is issued and the IMS TOC sends the NAK to IMS.

**System Programmer Response:**

None. The request message is rejected.

## HWSP1500E

**Security violation; R=*rc*, C=*cn*, M=*mc***

**Explanation:**

An attempt to RACF user identification and verification for the request message coming from a Web client or generated by a user exit routine contains the password and userid in the OTMA prefix userdata section.

In the message text:

- *rc* identifies the return code.
- *cn* identifies the client name. It will contain blanks if the client name is not available.
- *mc* identifies the module issuing the message.

Return codes (decimal): See the RACROUTE REQUEST=VERIFY macro reference for MVS.

**Module identifier:**

- SDRC — HWSSDRCV

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

None. The request message is rejected.

---

## HWSP1503E

**Security violation; R=rc, C=cn, M=mc**

**Explanation:**

IMS TOC, while processing the message for IMS TOC security, found an error in the OTMA security header.

In the message text:

- *rc* identifies the return code.
  - X'FC' - invalid security header length. The security header length is less than X'6A'.
  - X'FF' - security header is missing and IMS TOC security checking cannot be done.
- *cn* identifies the client name. It will contain blanks if the client name is not available.
- *mc* identifies the module issuing the message.

Return codes (decimal): See the RACROUTE REQUEST=VERIFY macro reference for MVS.

**Module identifier:**

- SDRC — HWSSDRCV

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

None. The request message is rejected.

---

## HWSP1505E

**Negative segment len; SEG LEN=1111, R=rc, M=mc**

**Explanation:**

One of the data segments contains an invalid segment length; the length is negative.

In the message text:

- *1111* identifies the length value in the message segment.
- *rc* identifies the XCF return code.
- *mc* identifies the module issuing the message.

**Module identifier:**

- DRCV — HWSSDRCV

**System action:**

This message is issued when a negative segment length is received from the client. The connection is closed.

**System Programmer Response:**

None. The request message is rejected.

---

## HWSR0800E

**Function work element processing failure, FUNC=func; R=rc, S=sc, M=mc**

**Explanation:**

The function work element (FWE) cannot be processed. The FWE requests work between components and within components. This structure contains the function and parameters that a service requires for processing.

In the message text:

- *func* identifies the function requested.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
INVFUNC	The function requested in the FWE is incorrect.	4	This is a processing error.

**Module identifier:**

- HWSRCDRO

**System action:**

This message is issued and, if possible, the requestor of the function is notified. Otherwise, the FWE is freed. In all cases, the IMS TOC continues to run.

**System programmer response:**

This is probably an internal error. Search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

**HWSR0810E****Storage allocate failed for recorder DCB; R=*rc*, S=*sc*,M=*mc*****Explanation:**

Storage allocation failed for recorder.

In the message text:

- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
GETDCB	BPEGETM, the system service used to acquire the CTOKEN.	4	An incorrect or unsupported subpool is specified.
		8	A zero length is requested.
		12	Unable to obtain the requested storage (MVS GETMAIN failed).

**Module identifier:**

- HWSRCDRO

**System action:**

The system continues to operate, however, no logging of input or output messages will occur.

**System Programmer Response:**

More storage is required for the execution of the IMS TOC address space.

## HWSR0880I

**Recorder opened; M=mc**

**Explanation:**

A recorder function has been opened successfully.

In the message text:

- *mc* identifies the module issuing the message.

**Module identifier:**

- HWSRCDRO

**System action:**

The recorder dataset is now open and logging of input and output message text has begun.

**System Programmer Response:**

None.

## HWSR0890I

**Recorder closed; M=mc**

**Explanation:**

A recorder function has been closed successfully.

In the message text:

- *mc* identifies the module issuing the message.

**Module identifier:**

- HWSRCDRO

**System action:**

The recorder dataset is now closed and logging of input and output message text has ended.

**System Programmer Response:**

None.

---

**HWSS0700E****Function work element processing failure; FUNC=*fn*, R=*rc*, S=*sc*, M=*mc*****Explanation:**

The function work element (FWE) cannot be processed. The FWE requests work between components and within components. This structure contains the function and parameters that a service requires for processing.

In the message text:

- *fn* identifies the function requested.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
INVFUNC	The function requested in the FWE is incorrect.	4	This is a processing error.

**Module identifier:**

- SOCC — HWSSOCC0
- SCVC — HWSSVC0

**System action:**

This message is issued and, if possible, the requestor of the function is notified. Otherwise, the FWE is freed. In all cases, the IMS TOC continues to run.

**System Programmer Response:**

This is probably an internal error. Search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

**HWSS0712E****Unable to start SCHEDULER CONTROLLER for Port=*portid*; R=*rc*, S=*sc*, M=*mc*****Explanation:**

Storage cannot be allocated for the scheduler controller structure, or the scheduler controller thread cannot be scheduled. This controller processes the connection of TCP/IP clients.

In the message text:

- *portid* identifies the TCP/IP port.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.



Service code	Short explanation	Return code (decimal)	Meaning
GETTWUB	BPECBGET, the system service used to acquire the thread workunit (TWU) for the scheduler controller.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.
SCHEDTWU	BPETHDCR, the system service used to schedule the scheduler controller thread.	4	An incorrect dispatcher work area is passed to the create thread routine.
		8	An incorrect TCB index value is passed on the TCBIDX parameter.
		12	A zero routine address is passed on the ROUTINE= parameter.
		16	An incorrect TCB table entry address is passed into the thread create routine. The BPETHDCR macro determines the TCBT address based on whether the parameter TCBTYPE, TCBIDX, or TCBDWA is specified. Ensure that this parameter is correctly coded.
		20	Unable to get storage for a thread control block (THCB) for the thread.
		24	Unable to get stack storage for the thread.
		28	The initial post of the thread fails.

**Module identifier:**

- SOC2 — HWSSOC20

**System action:**

This message is issued and the IMS TOC continues to run; however, no communication function is available to the identified TCP/IP port.

**System Programmer Response:**

Terminate the IMS TOC and ensure that the region size in the JCL statement is large enough to accommodate the IMS TOC region. Restart the IMS TOC. If the error recurs, search the problem-reporting databases to

find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

## HWSS0714E

**Unable to start a TCP/IP client on Port=*portid*; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

Storage cannot be allocated for the conversation controller structure, or the conversation controller thread cannot be scheduled. This controller schedules the communication functions for a TCP/IP client. This error is due to using a region size for IMS TOC that is too small or to a processing or internal system error.

In the message text:

- *portid* identifies the TCP/IP port.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
DUPESVT	A duplicate client ID (LUNAME) has been specified for this client.	4	Two different clients are using the same Userid.
GETSVTB	BPECBGET, the system service used to acquire the TCP/IP client table (SVT). This table represents the connected TCP/IP client.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.
GETTWUB	BPECBGET, the system service used to acquire the thread workunit (TWU) for the conversation controller.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.
INCLOSE	The IMS TOC is in close process. No new connection with the IMS TOC is possible.	12	This is a processing error.

Service code	Short explanation	Return code (decimal)	Meaning
SCHEDTWU	BPETHDCR, the system service used to schedule the scheduler controller thread.	4	An incorrect dispatcher work area is passed to the create thread routine. This is a system error.
		8	An incorrect TCB index value is passed on the TCBIDX parameter. This is an internal system error.
		12	A zero routine address is passed on the ROUTINE= parameter. This is an internal system error.
		16	An incorrect TCB table entry address is passed into the thread create routine. The BPETHDCR macro determines the TCBT address based on whether the parameter TCBTYPE, TCBIDX, or TCBDDWA is specified. This is an internal system error.
		20	Unable to get storage for a thread control block (THCB) for the thread.
		24	Unable to get stack storage for the thread.
		28	The initial post of the thread failed. This is an internal system error.

**Module identifier:**

- SSC1 — HWSSSC10

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

Take one of the following actions:

- If the problem is due to an internal system error and the problem recurs after stopping and restarting IMS TOC, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.
- If the problem is due to a storage shortage, either:

- Allow the IMS TOC to continue running with the currently connected TCP/IP clients.
- Terminate and then restart the IMS TOC, ensuring that the IMS TOC region size is large enough to accommodate an increase in TCP/IP client connections.

If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

## HWSS0742W

**Message failure, received from ORIGIN=*portid\_clientid* to DESTID=*did*; R=*rc*, S=*sc*, M=*mc***

### Explanation:

The IMS TOC is unable to forward a message received from TCP/IP client *clientid* which is communicating through port *portid* to the required datastore destination.

In the message text:

- *portid* identifies the TCP/IP port.
- *clientid* identifies the TCP/IP client.
- *did* identifies the datastore.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
DSCLOSE	All datastores are becoming inactive. This could result from a CLOSEHWS command that is shutting down the IMS TOC.	12	This is a processing error.
DUPECLNT	Duplicate Client ID has been detected.	4	Client ID should be unique.
GETFWEB	BPECBGET, the system service used to acquire an FWE for queuing of messages. The FWE is used as the queuing structure for a message.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.
INVLDSTA	Invalid state has been detected.	4	IMS is expecting an ACK, NACK, or deallocate, rather than an input message.

Service code	Short explanation	Return code (decimal)	Meaning
INVLDTOK	Invalid server token has been detected.	4	Use the correct server token for the conversation iteration. Or, a second client is starting a conversation and is using a duplicate ID while the first client is in a conversation.
NFNDCOMP	The component that handles the requested function cannot be found. An IMS TOC component issues an interface call for another component's service and the requested component cannot be located.	4	This is a processing error.
NFNDDST	The datastore table cannot be found. This table maintains the activity of a datastore.	4	This is a processing error.
NFNDFUNC	The requested function cannot be found. An IMS TOC component issues an interface call for another component's service and the requested service cannot be located.	8	This is a processing error.

**Module identifier:**

- SRE4 — HWSSRE40

**System action:**

This message is issued and the IMS TOC continues to run. The message in progress is released.

**System Programmer Response:**

This error can occur when the datastore is no longer active and is not connected to the IMS TOC. The datastore that is defined as the message destination is in error.

---

## HWSS0746W

**Unable to notify ORIGIN=*portid\_clientid* of message failure; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

The IMS TOC is unable to notify the named TCP/IP client about an error that has occurred while processing a request message or a response that the IMS TOC has received.

In the message text:

- *portid* identifies the TCP/IP port.
- *clientid* identifies the TCP/IP client.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
GETFWEB	BPECBGET, the system service used to acquire an FWE for queuing of messages. The FWE is used as the queuing structure and the message is anchored off the FWE.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.
GETC01K	BPECBGET, the system service used to acquire storage to build the error message.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.
NFNDSVT	The TCP/IP client table cannot be found. This table maintains the activity of a connected TCP/IP client.	4	This is a processing error.

**Module identifier:**

- SRE4 — HWSSRE40

**System action:**

This message is issued and the IMS TOC continues to run. The request or response message being processed is discarded.

**System Programmer Response:**

This error can occur when not enough storage is available to complete the process. If the problem persists, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSS0761I

**TCPIP communication with Client=*portid\_clientid* stopped; M=*mc***

**Explanation:**

The communication for the named TCP/IP client stops.

In the message text:

- *portid* identifies the TCP/IP port.

- *clientid* identifies the TCP/IP client.
- *mc* identifies the module issuing the message.

**Module identifier:**

- SCCM — HWSSCCM0

**System action:**

This message is issued when a STOPCLNT command has taken effect.

## HWSS0770I

**Listening on Port=*portid* terminated; M=*mc***

**Explanation:**

The communication for the named port has terminated.

In the message text:

- *portid* identifies the TCP/IP port.
- *mc* identifies the module issuing the message.

**Module identifier:**

- SCCH — HWSSSCH0

**System action:**

This message is issued when listening has terminated on a port.

## HWSS0771W

**Listening on Port=*portid* failed; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

An attempt to start listening on the named port is unsuccessful.

In the message text:

- *portid* identifies the TCP/IP port.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
SOCKFAIL	TCP/IP SOCKET function failed	-1	Return code from TCP/IP. See message HWSP1415E for TCP/IP failure.
COMMAND	Connection not completed	4	A STOPCLNT, STOPPORT, or CLOSEHWS terminated a connection that had not completed.

**Module identifier:**

- SSCH — HWSSSCH0

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

Ensure that the named ports are available to the IMS TOC for communications. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

**HWSS0775W**

**Unable to start Port=*portid*; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

An attempt to open the named port is unsuccessful.

In the message text:

- *portid* identifies the TCP/IP port.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
NFNDST	The port entry table (SCT) using the portid as the search value cannot be located. This table represents a port while connected with the IMS TOC.	4	This is a processing error.

**Module identifier:**

- SOCM — HWSSOCM0

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

Ensure that the port name in the OPENPORT command is correct. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

**HWSS0780I**

**TCP/IP communication on HOSTNAME=*hostname* opened; M=*mc***

**Explanation:**

The communication facility for TCP/IP is available.

In the message text:

- *hostname* identifies the TCP/IP hostname.
- *mc* identifies the module issuing the message.

**Module identifier:**



- SOC1 — HWSSOC10

**System action:**

This message is issued during IMS TOC startup and whenever communication is established with the TCP/IP communication facility.

---

## HWSS0781I

**TCPIP communication function closed; M=mc**

**Explanation:**

The communication facility for TCP/IP has become inactive.

In the message text:

- *mc* identifies the module issuing the message.

**Module identifier:**

- SOCL — HWSSOCL0

**System action:**

This message is issued when IMS TOC communication with the TCP/IP communication facility is decoupled.

---

## HWSS0785W

**Open TCPIP communication on HOSTNAME=*hostname* failed; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

An attempt to start communication with TCP/IP was unsuccessful.

In the message text:

- *hostname* identifies the TCP/IP hostname.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

**Module identifier:**

- SOC1 — HWSSOC10

**System action:**

This message is issued and the IMS TOC continues to run.

**System Programmer Response:**

Ensure that the TCP/IP hostname was specified correctly in the HWSCFGxx member or that the MVS TCPIP communication facility is active. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSS0790I

**Listening on Port=*portid* started; M=mc**

**Explanation:**

Communication has started for the named TCP/IP port.

In the message text:

- *portid* identifies the TCP/IP port.
- *mc* identifies the module issuing the message.

**Module identifier:**

- SOC2 — HWSOC20

**System action:**

This message is issued when listening has started on a TCP/IP port.

## HWSX0901E

**Unable to allocate ENVIRONMENT SYSTEM TABLE; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

Storage cannot be allocated for the environment system table (EST). The EST anchors all of the common service routines, control tables, and control blocks used by the IMS TOC components.

In the message text:

- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
BPEGETM	BPEGETM, the system service used to obtain the storage.	4	An incorrect or unsupported subpool is specified.
		8	A zero length is requested.
		12	Unable to obtain the requested storage (MVS GETMAIN failed).

**Module identifier:**

- XTRS — HWSXTRS0

**System action:**

This message is issued and the IMS TOC terminates.

**System Programmer Response:**

Ensure that the region size in the JCL statement is large enough to accommodate the IMS TOC region. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

## HWSX0902E

**Unable to allocate INTERFACE STRUCTURE; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

Storage cannot be allocated for the interface execution structure. This structure contains the linkage to the functions supported by each component within the IMS TOC.

In the message text:

- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
GETINTF	BPEGETM, the system service used to obtain the interface control block structure.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.

**Module identifier:**

- ITBL — HWSITBLO

**System action:**

This message is issued and the IMS TOC terminates.

**System Programmer Response:**

Ensure that the region size in the JCL statement is large enough to accommodate the IMS TOC region. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSX0903E

**Unable to allocate EXECUTION TABLE; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

Storage cannot be allocated for the execution table (E\_table). This structure contains the component-related data required for each component to run within the IMS TOC environment.

In the message text:

- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
GETETBL	BPEGETM, the system service used to obtain the execution table.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.

**Module identifier:**

- XHD0 — HWSXHD00
- XSH0 — HWSXSH00
- XCM0 — HWSXCM00

**System action:**

This message is issued and the IMS TOC terminates.

**System Programmer Response:**

Ensure that the region size in the JCL statement is large enough to accommodate the IMS TOC region. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

## HWSX0904E

**Unable to allocate COMPONENT INTERFACE; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

A component cannot register its interface for the functions it supports. This message follows message HWSX0902E, and indicates that storage cannot be allocated for the component interface structure.

In the message text:

- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
REGINTFR	HWSINTFR is the IMS TOC service used to register the component's interface.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.

**Module identifier:**

- XHD1 — HWSXHD10
- XSH1 — HWSXSH10

- XCM1 — HWSXCM10

**System action:**

This message is issued and the IMS TOC terminates.

**System Programmer Response:**

Ensure that the region size in the JCL statement is large enough to accommodate the IMS TOC region. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

## HWSX0905E

**Unable to allocate MASTER SERVER; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

Storage cannot be allocated for the master server control structure, or the master server thread cannot be scheduled. This server services all requests directed to the IMS TOC environment that are not directed to a specific component.

In the message text:

- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
GETTWUB	BPECBGET, the system service used to acquire the thread workunit (TWU).	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.

Service code	Short explanation	Return code (decimal)	Meaning
SCHEDTWU	BPETHDCR, the system service used to schedule the thread.	4	An incorrect dispatcher work area is passed to the create thread routine.
		8	An incorrect TCB index value is passed on the TCBIDX parameter.
		12	A zero routine address is passed on the ROUTINE= parameter.
		16	An incorrect TCB table entry address is passed into the thread create routine. The BPETHDCR macro determines the TCBT address based on whether the parameter TCBTYPE, TCBIDX, or TCBDDWA is specified. Ensure that this parameter is correctly coded.
		20	Unable to get storage for a thread control block (THCB) for the thread.
		24	Unable to get stack storage for the thread.
		28	The initial post of the thread fails.

**Module identifier:**

- XTRS — HWSXTRS0

**System action:**

This message is issued and the IMS TOC terminates.

**System Programmer Response:**

Ensure that the region size in the JCL statement is large enough to accommodate the IMS TOC region. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSX0907E

**Unable to start OPEN/CLOSE CONTROLLER; R=rc, S=sc, M=mc**

**Explanation:**

Storage cannot be allocated for the open/close controller structure, or the open/close controller thread cannot be scheduled. This controller manages

the linkage with the communication feature that the IMS TOC uses to communicate with datastores and IMS Web clients.

In the message text:

- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
GETTWUB	BPECBGET, the system service used to acquire the thread workunit (TWU) for the open/close controller.	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.
SCHEDTWU	BPETHDCR, the system service used to schedule the open/close controller thread.	4	An incorrect dispatcher work area is passed to the create thread routine.
		8	An incorrect TCB index value is passed on the TCBIDX parameter.
		12	A zero routine address is passed on the ROUTINE= parameter.
		16	An incorrect TCB table entry address is passed into the thread create routine. The BPETHDCR macro determines the TCBT address based on whether the parameter TCBTYPE, TCBIDX, or TCBDDWA is specified. Ensure that this parameter is correctly coded.
		20	Unable to get storage for a thread control block (THCB) for the thread.
		24	Unable to get stack storage for the thread.
		28	The initial post of the thread fails.

**Module identifier:**

- XHD3 — HWSXHD30
- XSH3 — HWSXSH30

**System action:**

This message is issued and the IMS TOC terminates.

**System Programmer Response:**

Ensure that the region size in the JCL statement is large enough to accommodate the IMS TOC region. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

## HWSX0909E

**Error in processing CONFIG MEMBER *name*; M=*mc***

**HWSCFG is not specified in the startup parms.**

**Unable to get storage; R=*rc*, S=*sc***

**Error reading member; R=*rc*, S=*sc***

**Error parsing member; R=*rc*, S=*sc***

**Invalid parameter(s) detected; R=*rc*, S=*sc***

**Unable to allocate SCT; R=*rc*, S=*sc***

**Unable to allocate DCT; R=*rc*, S=*sc***

**Duplicate port ID; R=*rc*, S=*sc***

**Explanation:**

During the processing of the CONFIG member specifications, an error is detected, such as incorrect specification or allocation of storage for the execution control structure.

In the message text:

- *name* identifies the name of the CONFIG member.
- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.



Service code	Short explanation	Return code (decimal)	Meaning
BPEPARSE	The system service used to parse the parameters.	4	The parser definition grammar passed on PADER is not a correct BPEPADEF grammar.
		8	The control block storage passed on CBSTG is not large enough to contain the control blocks that needed to be built to contain the parsed input data.
		12	The CBSTG address passed to the parsing service is 0.
		16	The input data address passed to the parsing service is 0.
		20	An internal error occurs in the parsing service.

Service code	Short explanation	Return code (decimal)	Meaning
	The system service used to parse the parameters.	64	An invalid keyword is detected in the input data.
		68	An unknown positional parameter is encountered in the input.
		72	A keyword parameter is specified with an equal sign followed by a sublist of values (KEYWORD=xxx,yyy[...]). a sublist must be specified in parentheses; an equal sign is optional when used with a sublist but required if a keyword has only a single value.
		76	The input ended before all of a sublist or keyword has been parsed.
		80	A keyword is encountered (KEYWORD(...) or KEYWORD=...) when a value is expected.
		84	An input number being parsed is out of the range allowed for its output field length.

Service code	Short explanation	Return code (decimal)	Meaning
		88	A parameter value defined as decimal contains nondecimal digits.
		92	A parameter value defined as hex contains nonhex digits.
		96	A parameter value defined as a key value parameter has an unknown key value.

Service code	Short explanation	Return code (decimal)	Meaning
		100	A keyword parameter appears multiple times and is not defined as being repeatable.
		104	A parameter defined with REQUIRED=YES on BPEPADEF is not found in the input data (omitted).
		252	The parameter list version generated by BPEPARSE is not supported by the parse service module - macro/module level mismatch.
GETSCTB	BPECBGET, the system service used to acquire the server communication table (SCT).	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.
GETDCTB	BPECBGET, the system service used to acquire the datastore communication table (DCT).	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.

**Module identifier:**

- XCFG — HWSXCFG0

**System action:**

This message is issued and the IMS TOC terminates.

**System Programmer Response:**

Ensure that the parameters in the CONFIG member are specified correctly and, if it is a storage problem, ensure that the region size in the JCL statement is large enough to accommodate the IMS TOC region. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

**HWSX0910E**

**Unable to start COMMAND CONTROLLER; R=*rc*, S=*sc*, M=*mc***

**Explanation:**

Storage cannot be allocated for the command controller control structure, or the command controller thread cannot be scheduled. This server services all requests directed to the IMS TOC environment that are not directed to a specific component.

In the message text:

- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
GETTWUB	BPECBGET, the system service used to acquire the thread workunit (TWU).	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.

Service code	Short explanation	Return code (decimal)	Meaning
SCHEDTWU	BPETHDCR, the system service used to schedule the thread.	4	An incorrect dispatcher work area is passed to the create thread routine.
		8	An incorrect TCB index value is passed on the TCBIDX parameter.
		12	A zero routine address is passed on the ROUTINE= parameter.
		16	An incorrect TCB table entry address is passed into the thread create routine. The BPETHDCR macro determines the TCBT address based on whether the parameter TCBTYPE, TCBIDX, or TCBDDWA is specified. Ensure that this parameter is correctly coded.
		20	Unable to get storage for a thread control block (THCB) for the thread.
		24	Unable to get stack storage for the thread.
		28	The initial post of the thread fails.

**Module identifier:**

- XCM3 — HWSXCM30

**System action:**

This message is issued and the IMS TOC terminates.

**System Programmer Response:**

Ensure that the region size in the JCL statement is large enough to accommodate the IMS TOC region. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSX0911E

Unable to start COMMAND VERB CONTROLLER; R=rc, S=sc, M=mc

**Explanation:**

Storage cannot be allocated for the command controller control structure, or the command controller thread cannot be scheduled. This server services all requests directed to the IMS TOC environment that are not directed to a specific component.

In the message text:

- *rc* identifies the return code.
- *sc* identifies the service code. Service codes can contain either codes that more specifically identify the error, or codes returned by called services that failed the request.
- *mc* identifies the module issuing the message.

Service code	Short explanation	Return code (decimal)	Meaning
GETTWUB	BPECBGET, the system service used to acquire the thread workunit (TWU).	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
		8	Storage is unavailable to satisfy the request.

Service code	Short explanation	Return code (decimal)	Meaning
SCHEDTWU	BPETHDCR, the system service used to schedule the thread.	4	An incorrect dispatcher work area is passed to the create thread routine.
		8	An incorrect TCB index value is passed on the TCBIDX parameter.
		12	A zero routine address is passed on the ROUTINE= parameter.
		16	An incorrect TCB table entry address is passed into the thread create routine. The BPETHDCR macro determines the TCBT address based on whether the parameter TCBTYPE, TCBIDX, or TCBDDWA is specified. Ensure that this parameter is correctly coded.
		20	Unable to get storage for a thread control block (THCB) for the thread.
		24	Unable to get stack storage for the thread.
		28	The initial post of the thread fails.

**Module identifier:**

- XCM3 — HWSXCM30

**System action:**

This message is issued and the IMS TOC terminates.

**System Programmer Response:**

Ensure that the region size in the JCL statement is large enough to accommodate the IMS TOC region. If the error recurs, search the problem-reporting databases to find a correction for the problem. If none exists, contact the IBM Support Center. Provide the JCL, SYSLOG, and dump if available.

---

## HWSX0912E

**HWS started in key *ky* — key 7 is required**

**Explanation:**

The IMS TOC is executed in supervisor state and key 7.

In the message text:

- *ky* identifies the key.

**Module identifier:**

- HWS — HWSHWS00

**System action:**

Authorize to the APF the resident library (IMS.RESLIB) in which the IMS TOC modules reside.





## Chapter 2. Return and reason codes

### HWSSMPL0

The following return and reason codes are sent by HWSSMPL0 to the client in the RSM fields RSM\_RETCOD/RSM\_RSNCOD.

- **Return codes:**

Hex Value	Description
04	Exit request error message sent to client before socket termination
08	Error detected by IMS TOC
0C	Error returned by IMS/OTMA

- **Reason codes:**

Label	Decimal Value	OMUSR Reason Code	Description
RSMRSN_BUFLIM	4	N/A	Input data exceeds buffer size
RSMRSN_OTMANAK	8	N/A	OTMA NAK with no sense code or RC
RSMRSN_INVBUF	9	N/A	Contents of buffer invalid
RSMRSN_OBUFLIM	10	N/A	Output data exceeds buffer size
NFNDCOMP	70	NFNDCOMP	Component not found
NFNDFUNC	71	NFNDFUNC	Function not found
NFNDDST	72	NFNDDST	Datastore not found
DSCLOSE	73	DSCLOSE	IMS TOC in shutdown
STP/CLSE	74	STP/CLSE	Datastore in stop or close process
DSCERR	75	DSCERR	Datastore communication error
STOPCMD	76	STOPCMD	Datastore was stopped by command
COMMERR	77	COMMERR	Datastore command error to pending client
REQUEST	94	REQUEST	REQUENT
CONVER	95	CONVER	Conversation
REQ_CON	96	REQ_CON	Request and conversation
DEAL_CTD	97	DEAL_CTD	Deallocate confirmed
DEAL_ABT	98	DEAL_ABT	Deallocate abort
DEFAULT	99		Default reason code

## HWSIMSO0

The following return and reason codes are sent by HWSIMSO0 to the client in the RSM fields RSM\_RETCOD/RSM\_RSM\_RSNCOD.

- **Return codes:**

Hex Value	Description
04	Exit request error message sent to client before socket termination
08	Error detected by IMS TOC
0C	Error returned by IMS/OTMA

- **Reason codes:**

Label	Decimal Value	OMUSR Reason Code	Description
RSMRSN_BUFLIM	4	N/A	Input data exceeds buffer size
RSMRSN_OTMANAK	8	N/A	OTMA NAK with no sense code or RC
RSMRSN_INVBUF	9	N/A	Contents of buffer invalid
RSMRSN_OBUFLIM	10	N/A	Output data exceeds buffer size
NFNDCOMP	60	NFNDCOMP	Component not found
NFNDFUNC	61	NFNDFUNC	Function not found
NFNDDST	62	NFNDDST	Datastore not found
DSCLOSE	63	DSCLOSE	IMS TOC in shutdown
STP/CLSE	64	STP/CLSE	Datastore in stop or close process
DSCERR	65	DSCERR	Datastore communication error
STOPCMD	66	STOPCMD	Datastore was stopped by command
COMMERR	67	COMMERR	Datastore command error to pending client
REQUEST	94	REQUEST	REQUENT
CONVER	95	CONVER	Conversation
REQ_CON	96	REQ_CON	Request and conversation
DEAL_CTD	97	DEAL_CTD	Deallocate confirmed
DEAL_ABT	98	DEAL_ABT	Deallocate abort
DEFAULT	99		Default reason code



CMDT:	CHWS0	ITOC COMMAND PROCESSED	RETCODE		
-----	-----	-----	-----	-----	-----
CMDT:	CHWS0	*ITOC COMMAND FAILED	FWE_RESCODE	FWE_RESCODE+4	RETCODE
-----	-----	-----	-----	-----	-----
CMDT:	CMDC0	PROCESS UN-EDITED CMD	@TWU	@CMD E_TBL	
-----	-----	-----	-----	-----	-----
CMDT:	CMDC0	PROCESS FWE FUNCTION	FWE_FUNC	FWE_FUNC+4	@FWE
-----	-----	-----	FWE_QUEUEUR	FWE_NEXT	
CMDT:	CMDC0	QUEUE CMD ON CVB QUEUE	@FWE	@CVB	CVB ANCHOR
-----	-----	-----	-----	-----	-----
CMDT:	CMDC0	EXIT COMMAND CONTROLLER			
-----	-----	-----	-----	-----	-----
CMDT:	CMOP0	RECEIVE CMD FROM HOST	@CMD E_TBL		
-----	-----	-----	-----	-----	-----
CMDT:	CMOP0	EXIT CMD OP INTERFACE			
-----	-----	-----	-----	-----	-----
CMDT:	COPER	SEND OPERATOR MESSAGE	MSP_FUNC	MSP_FUNC+4	@MSG PARMS
-----	-----	-----	-----	-----	-----
CMDT:	COPER	OPERATOR MESSAGE SENT	RET CODE		
-----	-----	-----	-----	-----	-----
CMDT:	CPARR	PARSE DATA IN CMD BUFFER	@TWU	CMDCVB	CMDBUF
-----	-----	-----	-----	-----	-----
CMDT:	CMDC0	EXIT COMMAND CONTROLLER			
-----	-----	-----	-----	-----	-----
CMDT:	CPARR	COMMAND DATA PARSED	R10-@TWU	CMDCVB	CRETCODE
-----	-----	-----	-----	-----	-----
CMDT:	CRSP0	PROCESS COMMAND RESP	R10-@TWU	R11-@CMD E_TBL	
-----	-----	-----	-----	-----	-----
CMDT:	CRSP0	COMMAND RESPONSE BUILT	CVB_ORIGID	CVB_ORIGID+4	R10-@TWU
-----	-----	-----	R8-@CVB		
CMDT:	CRSP0	COMMAND RESPONSE SENT			
-----	-----	-----	-----	-----	-----
CMDT:	CTRM0	CLOSE HWS REQUESTED	@TWU	@CMD E_TBL	
-----	-----	-----	-----	-----	-----

CMDT:	CTRM0	HWS CLOSE PROCESSED			
CMDT:	CVBC0	PROC COMMANDS ON CVB Q	@TWU	@CMD E_TBL	
CMDT:	CVBC0	CALL COMPONENT CMD PROC	CVB_VERB	CVB_VERB+4	@CVB
CMDT:	CVBC0	COMMAND PROC BY COMP'NT			
CMDT:	CXQH0	Q MSG FOR CMD PROCESS	@TWU	@FWE	
CMDT:	CXQH0	MSG Q'D & SERVER ACTIVE	@TWU	@FWE	
CMDT:	CXRP0	Q RESP FOR CMD PROCESS	@TWU	@FWE	FWE_CVB
CMDT:	CXRP0	RES Q'D & SERVER ACTIVE	@TWU	@FWE	
CMDT:	XCMLD	LOAD COMMAND MODULES	@CMD E_TBL		
CMDT:	XCMLD	COMMAND MODULES LOADED			
CMDT:	XCM00	COMMAND COMPONENT INIT	@EST TABLE		
CMDT:	XCM00	CMD COMP INIT COMPLETED	RETURN CODE		
CMDT:	XCM00	*CMD COMP INIT FAILED	MRESCODE	MRESCODE+4	RETURN CODE
CMDT:	XCM10	CMD COMP INTERFACE INIT	R11-@CMD E_TBL		
CMDT:	XCM10	CMD COMP INTF INIT OK	R5-RETURN CODE		
CMDT:	XCM10	*CMD COMP INTF INIT FAIL	MRESCODE	MRESCODE+4	RETURN CODE
CMDT:	XCM30	CMD COMP OPEN INIT	@CMD E_TBL		

CMDT:	XCM30	CMD COMP OPEN INIT OK	RETURN CODE		
CMDT:	XCM30	*CMD COMP OPEN INIT FAIL	MRESCODE	MRESCODE+4	RETURN CODE
OTMA:	DDXCN	CLIENT BID TO TARG SERV	@ECB	@CTOKEN	
OTMA:	DDXCN	RESP FROM SERVER REC'D	DVPXA_RETCODE	DVPXA_RESCODE	
OTMA:	DDXDC	OTMA DISCONNECT REQ'D	@ECB	@CTOKEN	
OTMA:	DDXDC	FWE Q'D TO REC THREAD	DVPXD_RETCODE	DVPXD_RESCODE	
OTMA:	DDXGR	OTMA GRP EXIT FUNCTION	@BPE'S CSCD	@CTOKEN	
OTMA:	DDXGR	OTMA GRP EXIT TERM SET			
OTMA:	DDXMT	OTMA SEND TO MVS/XCR	@ECB	@CTOKEN	
OTMA:	DDXMT	OTMA SEND COMPLETE	DVPXT_RETCODE	DVPXT_RESCODE	
OTMA:	DDXMX	OTMA XCF MESSAGE EXIT	@OTOKEN		
OTMA:	DDXMX	MESSAGE REC'D AND PROC			
OTMA:	DDXOT	OPEN OTMA THREAD	@ECB	@CTOKEN	
OTMA:	DDXOT	OTMA THREAD OPENED	DVPXOT_RETCODE	DVPXOT_RESCOD	@CTOKEN
OTMA:	DDXRG	QUERY SYSPLEX ENV	@ECB		
OTMA:	DDXRG	QUERY COMPLETE, PSR SET	DVPXR_RETCODE	DVPXR_RESCODE	@OTOKEN
OTMA:	DDXTT	OTMA TERM THREAD PROC	@TWU ECB	@CTOKEN	

OTMA: DDXTT	LEFT XCF GROUP	DVPXTT_RETCODE	DVPXTT_RESCOD	
OTMA: DDXUR	OTMA CLOSE REQUEST	@ECB	@OTOKEN	
OTMA: DDXUR	OPEN STRUCTURE DE-ALLOC	DVPXC_RETCODE	DVPXC_RESCODE	
ENVT: EQCL0	ITOC SHUTDOWN NOTIFICAT'N	@TWU	@EST	
ENVT: EQCL0	ITOC QUIESCE PROCESSED	@TWU	@EST	
ENVT: EQS00	ENVIRON FWE SERVER	@TWU	@EST	
ENVT: EQS00	PROCESS FWE FUNCTION	FWE_FUNC FWE_QUEUEUR	FWE_FUNC+4 FWE_NEXT	@FWE
ENVT: EQS00	ITOC CLOSE PROCESSED			
ENVT: ETRM0	MVS STOP, TERM ITOC	@USER DATA		
ENVT: ETRM0	ITOC TERMINATED	RETURN CODE		
ENVT: ITBL0	ITOC INTERFACE BUILD	@INTF TABLE		
ENVT: ITBL0	INTF BLK'S/TABLE BUILT	RETURN CODE		
ENVT: RCDR0	ENTRY TO DATA RECORDER	@TWU	@EST	
ENVT: RCDR0	FWE FUNCTION REQUEST	@FWE	@NEXT FWE	@FWE QUEUEUR
ENVT: RCDR0	PROCESS NEXT FWE	@FWE		
ENVT: RCDR0	RECORD DATA	@DATA	@NEXT DATA	

ENVT:	RCDR0	EXIT DATA COLLECTION			
ENVT:	XITF0	INIT COMPONENT INTERF'S	@INTF TABLE		
ENVT:	XITF0	COMP INTF'S INITIALIZED	RETURN CODE		
ENVT:	XLOAD	LOAD COMMON COMP ROUT'S	@EST		
ENVT:	XLOAD	COMMON ROUTINES LOADED			
ENVT:	XTRS0	ITOC TCB INITIALIZATION	@CSCD		
ENVT:	XTRS0	STRUCT/THRDS INIT DONE	RETURN CODE		
TCPI:	SDCLS	TCPIP CLOSE, CALL EXIT	@DVPRM		
TCPI:	SDCLS	TCPIP CLOSE COMPLETE	DVPXC_RETCODE	DVPXC_RESCODE	
TCPI:	SDCON	TCPIP CON, ISSUE ACCEPT	@DVPRM	@CTOKEN	
TCPI:	SDCON	TCPIP ACCEPT COMPLETE	RETURN CODE	TCP/IP errno	
TCPI:	SDCON	TCPIP CONNECT COMPLETE	DVPXA_RETCODE	DVPXA_RESCODE	
TCPI:	SDDSC	CAN/CLS ACCEPT SOCKET	RETURN CODE	@CTOKEN	DISC OPTION
TCPI:	SDDSC	LISTEN SOCKET CANCELED	RETURN CODE	TCP/IP errno	
TCPI:	SDDSC	ACCEPT SOCKET CANCELED	RETURN CODE	TCP/IP errno	
TCPI:	SDDSC	ACCEPT SOCKET CLOSED	RETURN CODE	TCP/IP errno	
TCPI:	SDDSC	CAN/CLS ACCEPT COMPLETE	DVPXD_RETCODE	DVPXD_RESCODE	
			DISC TYPE	DISC TYPE+4	



TCPI:	SDOPN	TCPIP OPEN, CALL EXIT	@DVPRM		
-----	-----	-----	-----	-----	-----
TCPI:	SDOPN	TCPIP OPEN COMPLETE	DVPXO_RETCODE	DVPXO_RESCODE	
-----	-----	-----	-----	-----	-----
TCPI:	SDOTD	OPEN TCPIP THREAD	@CTOKEN	@OTOKEN	
-----	-----	-----	-----	-----	-----
TCPI:	SDOTD	PARSE PORT NO TO BINARY	PORT NUMBER	@OTOKEN	
-----	-----	-----	-----	-----	-----
TCPI:	SDOTD	INIT API COMPLETE	PORT NUMBER	TCP/IP errno	
-----	-----	-----	-----	-----	-----
TCPI:	SDOTD	OBTAIN LISTEN SOCKET	PORT NUMBER	TCP/IP errno	
-----	-----	-----	-----	-----	-----
TCPI:	SDOTD	BIND SOCKET PORT	PORT NUMBER	TCP/IP errno	
-----	-----	-----	-----	-----	-----
TCPI:	SDOTD	LISTEN AT SOCKET	PORT NUMBER	TCP/IP errno	
-----	-----	-----	-----	-----	-----
TCPI:	SDOTD	OPEN TCPIP THREAD COMP	DVPXOT_RETCODE	DVPXOT_RESCOD	
-----	-----	-----	-----	-----	-----
TCPI:	SDRCV	RECEIVE CLIENT DATA	@DVPRM	@CTOKEN	
-----	-----	-----	-----	-----	-----
TCPI:	SDRCV	ISSUE TCPIP CLIENT READ	CTTOKEN_ASNUM	SAVE_ECB	
-----	-----	-----	-----	-----	-----
TCPI:	SDRCV	TCPIP READ COMPLETE	LEN DATA RD	TCP/IP errno	TOTAL MSG LEN
-----	-----	-----	-----	-----	-----
TCPI:	SDRCV	COMPLETE MSG PROCESSED	DVPXR_RETCODE	DVPXR_RESCODE	
-----	-----	-----	-----	-----	-----
TCPI:	SDRCV	ISSUE READ, CLIENT DATA	LEN DATA RD	TCP/IP errno	
-----	-----	-----	-----	-----	-----
TCPI:	SDRCV	BUFFER OBT'D FOR EXIT	@EXIT PARMS	@CTOKEN	
-----	-----	-----	-----	-----	-----
TCPI:	SDRCV	COMPLETE MESSAGE REC'd	LEN DATA RD	@CTOKEN	
-----	-----	-----	-----	-----	-----
TCPI:	SDRCV	EXIT OUTPUT BUFFER BAD	@EXIT PARMS	@CTOKEN	
-----	-----	-----	-----	-----	-----

TCPI:	SDRCV	EXIT CALLED ON ERROR	@EXIT PARMS	@CTOKEN	
TCPI:	SDRCV	SEND MESSAGE BACK	RETCODE	TCP/IP errno	
TCPI:	SDTTD	TERMINATE TCPIP THREAD	@CTOKEN	@DVPRM	
TCPI:	SDTTD	LISTEN SOCKET CLOSED	RETURN CODE	TCP/IP errno	
TCPI:	SDTTD	API TERMINATED			
TCPI:	SDTTD	TCPIP THREAD TERMINATED	DVPXTT_RETCODE	DVPXTT_RESCOD	
TCPI:	SDVB0	BLD DRIVER FUNCTION BLK			
TCPI:	SDVB0	DRIVER TABLE BUILT			
TCPI:	SDXMT	TCPIP TRANSMIT	@DVPRM	@CTOKEN	
TCPI:	SDXMT	ID SENT	RETCODE	TCP/IP errno	
TCPI:	SDXMT	DATA SENT	RETCODE	TCP/IP errno	
TCPI:	SDXMT	TRANSMIT COMPLETE	DVPXT_RETCODE	DVPXT_RESCODE	
TCPI:	SDXMT	SEND MSG TO EXIT	RETCODE	TCP/IP errno	
HWSI:	DADD0	ADD DATA STORE COMMAND	CVB_VERB	CVB_VERB+4	@CVB
HWSI:	DADD0	DATA STORE ADDED			
HWSI:	DADD0	*DATA STORE ADD FAILED	FWE_RESCODE	FWE_RESCODE+4	@DCT
HWSI:	DDVB0	BLD OTMA DRV FUNC TBL	@DCT		

HWSI:	DDVB0	DRIVER FUNC TABLE BUILT			
HWSI:	DOCC0	OPEN/CLOSE CONTROLLER	@DCT	@TWU	@DSC E_TBL
HWSI:	DOCC0	PROCESS FWE FUNCTION	FWE_FUNC FWE_QUEUEUR	FWE_FUNC+4 FWE_NEXT	@FWE
HWSI:	DOCC0	FWE FUNC REQUEST PROC	R5-@NEXT FWE		
HWSI:	DOCC0	OPEN/CLOSE COMPLETED	R8-@DCT		
HWSI:	DOCM0	OPEN/CLOSE COMMAND PROC	@DCT	@DS_ENTRY	@CVB
HWSI:	DOCM0	OPEN/CLOSE COMPLETED			
HWSI:	DOC10	OPEN OTMA COMMUNICATION	@DCT	@TWU	@DS_ENTRY
HWSI:	DOC10	OPEN SCHEDL'R FOR DS	RETURN CODE		
HWSI:	DOC10	*OPEN DATA STORE FAILED	FWE_RESCODE	FWE_RESCODE+4	FWE_RETCODE
HWSI:	DOC20	OPEN SCHEDULER FUNCTION	@DCT	@TWU	@DS_ENTRY
HWSI:	DOC20	CONTROLLER SHCHEDULED	RETURN CODE		
HWSI:	DOC20	*CONTROLLER SCHED FAILED	FWE_RESCODE	FWE_RESCODE+4	FWE_RETCODE
HWSI:	DOC30	CLOSE DATA STORE	@DCT	@TWU	@FWE
HWSI:	DOC30	PROCESS FWE FUNCTION	FWE_FUNC FWE_QUEUEUR	FWE_FUNC+4 FWE_NEXT	@FWE
HWSI:	DOC30	DATA STORE CL COMPLETE			
HWSI:	DOPER	SEND MSG TO OPERATOR	MSP_FUNC	MSP_FUNC+4	@MSPRM

HWSI:	DOPER	MESSAGE SENT TO OP	MSP_RESCODE	MSP_RESCODE+4	RETURN CODE
HWSI:	DOPN0	OPEN DATA STORE	CVB_VERB	CVB_VERB+4	@CVB
HWSI:	DOPN0	DATA STORE OPENED			
HWSI:	DOPN0	*DATA STORE OPEN FAILED	FWE_RESCODE	FWE_RESCODE+4	RETURN CODE
HWSI:	DREC0	PROC RESP MSG - ORIGIN	@DST	@DSB	
HWSI:	DREC0	RESPONSE MSG PROCESSED			
HWSI:	DSBA0	ALLOCATE DATA STORE BLK	@DST		
HWSI:	DSBA0	DS BOCK ALLOCATED	@DST	DSPA_DATA	DSPA_RETCODE
HWSI:	DSBR0	RELEASE DATA STORE BLK	@DSB	DSPR_TWU	
HWSI:	DSBR0	DS BLOCK RELEASED	@DSB	DSPR_TWU	DSPR_RETCODE
HWSI:	DSCE0	DEQ ACTIVE DS TABLE	@DST		
HWSI:	DSCE0	PROCESS FWE FUNCTION	FWE_FUNC FWE_QUEUEUR	FWE_FUNC+4 FWE_NEXT	@FWE
HWSI:	DSCE0	ALL DS TPIPES QUIESCED	@DST		
HWSI:	DSCH0	INIT DS SCHD CONTROLLER	@DST	@TWU	@DSC E_TBL
HWSI:	DSCH0	PROCESS FWE FUNCTION	FWE_FUNC FWE_QUEUEUR	FWE_FUNC+4 FWE_NEXT	@FWE
HWSI:	DSCH0	CMDS ASSOC WITH DS PROC	@NEXT FWE		

HWSI:	DSCLO	PROCESS DS CLOSE	@DST		
HWSI:	DSCLO	PROCESS FWE FUNCTION	FWE_FUNC FWE_QUEUEUR	FWE_FUNC+4 FWE_NEXT	@FWE
HWSI:	DSCLO	THRDS QUIESED, DS CLS'D	@DST		
HWSI:	DSCM0	DATA STORE STOP CMD	CVB_VERB	CVB_VERB+4	@DST
HWSI:	DSCM0	PROCESS FWE FUNCTION	FWE_FUNC FWE_QUEUEUR	FWE_FUNC+4 FWE_NEXT	@FWE
HWSI:	DSCM0	DATA STORE STOPPED	@DST	RETURN CODE	
HWSI:	DSC10	CONNECT TO IMS OTMA	@DST	@TWU	
HWSI:	DSC10	SCHE DS XMIT/RECV THRDS	RETURN CODE		
HWSI:	DSC20	OPEN DATA STORE THREAD	@DST	@TWU	@FWE
HWSI:	DSC20	DATA STORE THREAD OPEND	FWE_RESCODE	FWE_RESCODE+4	@DST
HWSI:	DSC30	STOP ALL TPIPES FOR DS	@DST	@TWU	@FWE
HWSI:	DSC30	DS TPIPES STOPPED			
HWSI:	DSC50	THREAD CLOSE NOTIFY	@DST	@TWU	@FWE
HWSI:	DSC50	XMIT THRD'S NOTIFIED			
HWSI:	DSTA0	BUILD DATA STORE TABLE	DCT_DS_ID+4	DCT_DS_ID+4	@DS ENTRY
HWSI:	DSTA0	DATA STORE TABLE BUILT	@DS ENTRY	DSPA_DATA	DSPA_RETCODE
HWSI:	DSTD0	DEQ DATA STORE TABLE	@DST	@TWU	

HWSI:	DSTD0	DATA STORE TABLE DEQ'D	DSPD_RESCODE	DSPD_RESCODE+4	DSPD_RETCODE
HWSI:	DSTM0	QUEUE DS MSG ON MSG Q	DSPM_NAME	DSPM_NAME+4	DSPM_DATA
HWSI:	DSTM0	MSG Q'D ON MSG QUEUE	DSPM_RESCODE @FWE	DSPM_RESCODE+4	DSPM_RETCODE
HWSI:	DSTN0	Q DS TBL ON ACTIVE Q	@DST	@TWU	
HWSI:	DSTN0	DS TABLE QUEUED			
HWSI:	DSTP0	STOP DATA STORE COMMAND	CVB_NAME	CVB_NAME+4	@CVB
HWSI:	DSTP0	REQ Q'D TO SCHED CTRLR	@CVB	RETURN CODE	
HWSI:	DSTR0	RELEASE DATA STORE TBL	@DST	DSPR_TWU	
HWSI:	DSTR0	DATA STORE TBL RELEASED	DSPR_RESCODE	DSPR_RESCODE+4	DSPR_RETCODE
HWSI:	DVEW0	VIEW DATA STORE COMMAND	CVB_NAME	CVB_NAME+4	@CVB
HWSI:	DVEW0	VIEW DATA STORE COMPLETE	RETURN CODE		
HWSI:	DVEW0	*VIEW DATA STORE FAILED	FWE_RESCODE	FWE_RESCODE+4	RETURN CODE
HWSI:	DXCM0	CHECK COMMAND TYPE	CVB_VERB	CVB_VERB+4	@CVB
HWSI:	DXCM0	COMMAND PROCESSED	RETURN CODE		
HWSI:	DXMT0	CHECK FOR MSG TO SEND	@DST	R7-@DSB	@FWE
HWSI:	DXMT0	MSG SENT TO DATA STORE			
HWSI:	DXQH0	LOCATE DS FOR THIS MSG	OMUSR_DESTID	OMUSR_DESTID+4	@FWE

			MSG_ADDR		
HWSI:	DXQH0	ERROR OR MSG Q'D FOR DS	DSPM_RESCODE	DSPM_RESCODE+4	RETURN CODE
HWSI:	XHDL0	LD DS HWSI COMMON MOD'S	@DSC E_TBL	@FWE	
HWSI:	XHDL0	COMMON MODULES LOADED			
HWSI:	XHD00	HWSI INITIALIZATION	@EST		
HWSI:	XHD00	HWSI INITIALIZED	RETURN CODE		
HWSI:	XHD10	BUILD FUNCTION BLOCK	@DSC E_TBL		
HWSI:	XHD10	INTERFACE INITIALIZED	@DSC E_TBL		
HWSI:	XHD30	HWSI OPEN INITIALIZAT'N	@DSC E_TBL	R10-@DCT	
HWSI:	XHD30	HWSI OPEN COMPLETE	RETURN CODE		
HWSW:	SADD0	ADD TCPIP PORT	CVB_VERB	CVB_VERB+4	@CVB
HWSW:	SADD0	TCPIP PORT ADDED			
HWSW:	SADD0	*ADD TCPIP PORT FAILED	FWE_RESCODE	FWE_RESCODE+4	RETURN CODE
HWSW:	SCCL0	CONVERSATION TERMINAT'N	@SVT	@FWE	SVT_ACTION
			@NEXT FWE	@MSG	
HWSW:	SCCL0	CONVERSATION TERMINAT'D	RETURN CODE		
HWSW:	SCCM0	PROCESS CONV COMMAND	CVB_VERB	CVB_VERB+4	@SVT
HWSW:	SCCM0	CONV COMMAND COMPLETED	RETURN CODE		
HWSW:	SCVC0	HWSW CONV CONTROLLER	@SVT	@TWU	

HWSW:	SCVC0	PROC MSG/CMD FWE FUNC	FWE_FUNC FWE_QUEUEUR	FWE_FUNC+4 FWE_NEXT	@FWE
HWSW:	SCVC0	CONVERSATION PROCESSED			
HWSW:	SOCO0	HWSW O/C CONTROLLER	@SCT	@TWU	R11-@SHC E_TBL
HWSW:	SOCO0	PROCESS FWE FUNCTION	FWE_FUNC FWE_QUEUEUR	FWE_FUNC+4 FWE_NEXT	@FWE
HWSW:	SOCO0	FWE FUNC PROCESSED	@SCT		
HWSW:	SOCLO	DISCONNECT COMMUNICAT'N	@SCT	@TWU	@FWE
HWSW:	SOCLO	PROCESS FWE FUNCTION	FWE_FUNC FWE_QUEUEUR	FWE_FUNC+4 FWE_NEXT	@FWE
HWSW:	SOCLO	CLIENTS QUIESCED	@SCT		
HWSW:	SOCM0	CLOSE SOCKETS	@SCT	@TWU	
HWSW:	SOCM0	SOCKETS CLOSED	@SCT		
HWSW:	SOC10	OPEN TCPIP COMMUNICAT'N	@SCT	@TWU	
HWSW:	SOC10	TCPIP COMMUNICAT'N OPEN	@SCT	RETURN CODE	
HWSW:	SOC20	OPEN TCPIP PORTS	@SCT	@TWU	@COMM ENTRY
HWSW:	SOC20	TCPIP PORTS OPENED	@SCT	@COMM ENTRY	
HWSW:	SOPER	SEND OPERATOR MESSAGE	MSP_FUNC	MSP_FUNC+4	@MSPRM
HWSW:	SOPER	OPERATOR MESSAGE SENT	RETURN CODE		



HWSW:	SOPER	SEND OP MESSAGE FAILED	MSP_RESCODE	MSP_RESCODE+4	RETURN CODE
-----	-----	-----	-----	-----	-----
HWSW:	SOPN0	Q OPEN TCPIP PORT CMD	CVB_VERB	CVB_VERB+4	@CVB
-----	-----	-----	-----	-----	-----
HWSW:	SOPN0	OPEN TCPIP PORT Q'D			
-----	-----	-----	-----	-----	-----
HWSW:	SREC0	RECEIVE CLIENT MESSAGE	@SVT		
-----	-----	-----	-----	-----	-----
HWSW:	SREC0	REC CLIENT MSG DESTID	OMUSR_DESTID	OMUSR_DESTID+4	@SVT
-----	-----	-----	-----	-----	-----
HWSW:	SREC0	REC CLIENT MSG ORIGIN	OMHDRLTM	OMHDRLTM+4	@SVT
-----	-----	-----	-----	-----	-----
HWSW:	SREC0	RECEIVE COMPLETE	@SVT	RETURN CODE	
-----	-----	-----	-----	-----	-----
HWSW:	SREC0	*RECEIVE ERROR	@SVT	DVPXR_RETCODE	DVPXR_RESCODE
-----	-----	-----	-----	-----	-----
HWSW:	SREC0	*INTERFACE ERROR	ORSECODE	ORSECODE+4	@SVT
-----	-----	-----	@DUPLICATE SVT	-----	-----
HWSW:	SREC0	SHUTDOWN IN PROCESS	@SVT		
-----	-----	-----	-----	-----	-----
HWSW:	SRE40	ERROR-OP, RESP-ORIGIN	IRESCODE+4	IRESCODE+4	@PARMS
-----	-----	-----	-----	-----	-----
HWSW:	SRE40	MSG/RESP SENT	@SVT		
-----	-----	-----	-----	-----	-----
HWSW:	SSCH0	HWSW SCHED'R CONTROLLER	@COMM ENTRY	@TWU	@SHC E_TBL
-----	-----	-----	-----	-----	-----
HWSW:	SSCH0	COM_ENTRY/CLINET SCHED			
-----	-----	-----	-----	-----	-----
HWSW:	SSC10	SCH CLIENT CONVERSATION	@COMM ENTRY	@TWU	
-----	-----	-----	-----	-----	-----
HWSW:	SSC10	CLIENT CONV COMPLETED	RETURN CODE		
-----	-----	-----	-----	-----	-----
HWSW:	SSC10	*CLIENT CONV SCH FAILED	RESCODE	RESCODE+4	RETURN CODE
-----	-----	-----	-----	-----	-----

HWSW:	SSTP0	STOP PORT/CLIENT	CVB_VERB	CVB_VERB+4	@CVB
HWSW:	SSTP0	PORT/CLIENT STOPPED	RETURN CODE		
HWSW:	SSTP0	STOP PORT/CLIENT FAIL'D	FWE_RESCODE	FWE_RESCODE+4	RETURN CODE
HWSW:	STRM0	TCPIP PRT TCB TERM EXIT	R7-	R10-	SET_FLAGS
HWSW:	STRM0	CLOSE FWE Q'D			
HWSW:	SUST0	ENTRY TO COLLECT DATA	@PARAM FUNC+4		FUNC
HWSW:	SUST0	EXIT FROM COLLECT DATA	RET CD RES CD+4		RES CD
HWSW:	SVEW0	VIEW TCPIP PORT COMMAND	CVB_NAME	CVB_NAME+4	@CVB
HWSW:	SVEW0	VIEW TCPIP PORT OK	RETURN CODE		
HWSW:	SVEW0	VIEW TCPIP PORT FAILED	FWE_RESCODE	FWE_RESCODE+4	RETURN CODE
HWSW:	SVTA0	ALLOCATE SERVER STRUCT	SCT_COM_PORT	SCT_COM_PORT+4	@COMM ENTRY
HWSW:	SVTA0	SERVER STRUCTRE ALLOC'D	SVPA_RETCODE	SVPA_RESCODE	SVPA_DATA
HWSW:	SVTD0	DEQ CLIENT TABLE	@SVT	@TWU	
HWSW:	SVTD0	CLIENT TABLE DEQUEUED	SVPD_RESCODE	SVPD_RESCODE+4	SVPD_RETCODE
HWSW:	SVTM0	QUEUE MSG ON SERVER_ID	SVPM_NAME	SVPM_NAME+4	SVPM_DATA
HWSW:	SVTM0	MSG QUEUED ON SERVER_ID	SVPM_RESCODE	SVPM_RESCODE+4	SVPM_RETCODE
HWSW:	SVTN0	Q SERVER_ID, ACT SVT Q	@SVT	@TWU	

HWSW:	SVTN0	SERVER_ID Q'D ON ACT Q	SVPN_RESCODE	SVPN_RESCODE+4	SVPM_RETCODE
HWSW:	SVTR0	RELEASE SERVER_ID TABLE	@SVT	SVPR_TWU	
HWSW:	SVTR0	SERVER_ID TBL RELEASED	SVPR_RESCODE	SVPR_RESCODE+4	SVPR_RETCODE
HWSW:	SXCM0	PROCESS TCPIP COMMAND	CVB_VERB	CVB_VERB+4	@CVB
HWSW:	SXCM0	COMMAND PROCESSED	RETURN CODE		
HWSW:	SXCM0	COMMAND PROCESS FAILED	FWE_RESCODE	FWE_RESCODE+4	RETURN CODE
HWSW:	SXMT0	TRANSMIT MSG TO CLIENT	@SVT		
HWSW:	SXMT0	PROCESS FWE FUNCTION	FWE_FUNC	FWE_FUNC+4	@FWE
			FWE_QUEUEUR	FWE_NEXT	
HWSW:	SXMT0	TRANSMIT COMPLETED	@SVT		
HWSW:	SXMT0	*TRANSMIT FAILED	@SVT	DVPXT_RETCODE	SVT_FLAGS
HWSW:	SXQH0	QUEUE MSG FOR CLIENT	OMUSR_ORIGID	OMUSR_ORIGID+4	@FWE
HWSW:	SXQH0	MSG QUEUED FOR CLIENT	RETURN CODE		
HWSW:	SXQH0	Q MSG FOR CLIENT FAILED	FWE_RESCODE	FWE_RESCODE+4	RETURN CODE
HWSW:	SXQS0	LOC PORT/SERVER/CLIENT	FWE_PORTID	FWE_PORTID+4	@TWU
HWSW:	SXQS0	LOCATE COMPLETE	FWE_RESCODE	FWE_RESCODE+4	FWE_RETCODE
HWSW:	SXTE0	LOC SERVER FOR DS	FWE_DSID	FWE_DSID+4	@TWU
HWSW:	SXTE0	TERMINATE	FWE_RESCODE	FWE_RESCODE+4	FWE_RETCODE

HWSW:	XSHLD	LOAD HWSW COMMON MODS	@SHC E_TBL		
HWSW:	XSHLD	HWSW COMMON MODS LOADED			
HWSW:	XSH00	HWSW INITIALIZATION	@SHC E_TBL		
HWSW:	XSH00	HWSW INITIALIZED	RETURN CODE		
HWSW:	XSH00	*HWSW INIT FAILED	MRESCODE	MRESCODE+4	RETURN CODE
HWSW:	XSH10	BUILD INTERFACE BLOCK	@SHC E_TBL		
HWSW:	XSH10	INTERFACE INITIALIZED	RETURN CODE		
HWSW:	XSH10	*INTERFACE INIT FAILED	MRESCODE	MRESCODE+4	RETURN CODE
HWSW:	XSH30	INIT COMPONENT	@SCH E_TBL		
HWSW:	XSH30	COMPONENT INIT COMPLETE	RETURN CODE		
HWSW:	XSH30	*COMPONENT INIT FAILED	MRESCODE	MRESCODE+4	RETURN CODE

---

# Readers' Comments — We'd Like to Hear from You

IMS TCP/IP OTMA Connection Messages and Codes  
Version 2.1.3

Publication No. itocmc-0021-3

Overall, how satisfied are you with the information in this book?

	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied
Overall satisfaction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

How satisfied are you that the information in this book is:

	Very Satisfied	Satisfied	Neutral	Dissatisfied	Very Dissatisfied
Accurate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Complete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Easy to find	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Easy to understand	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Well organized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Applicable to your tasks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please tell us how we can improve this book:

Thank you for your responses. May we contact you?  Yes  No

When you send comments to IBM, you grant IBM a nonexclusive right to use or distribute your comments in any way it believes appropriate without incurring any obligation to you.

---

Name

---

Address

---

Company or Organization

---

Phone No.



Fold and Tape

Please do not staple

Fold and Tape



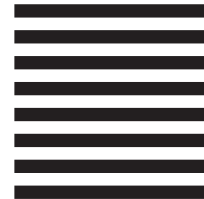
NO POSTAGE  
NECESSARY  
IF MAILED IN THE  
UNITED STATES

# BUSINESS REPLY MAIL

FIRST-CLASS MAIL PERMIT NO. 40 ARMONK, NEW YORK

POSTAGE WILL BE PAID BY ADDRESSEE

International Business Machines Corporation  
Department BWE/H3  
P.O. Box 49023  
San Jose, CA 95161-9945



Fold and Tape

Please do not staple

Fold and Tape