

IMS TCP/IP OTMA Connection Messages and Codes

Note efore using this in	nformation and the	product it supports	s, be sure to read	I the information	in "Notices" on pa	ge v.

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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 (HWS) 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 HWSCFGxxconfiguration 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).

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- 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 HWS).
 - INTE client is in the interface error state.
 - RECV client is in the receive state (receiving a message from ITOC).
 - 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 HWS).
 - CONN client is in connected state.

System Action:

The messages are issued and the HWS 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.

- 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.

CMDC — HWSCMOP0

System Action:

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

System Programmer Response:

This is probably a storage error. Ensure that the region size for the HWS 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 HWS 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 HWS. 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 HWS continues to run.

System programmer response:

This is probably a storage error. Ensure that the region size for the HWS 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.
NO2PARM	The second parameter is missing for this command.	43	This is a processing error.
PARM1ERR	The first parameter is wrong.	44	Please use the correct syntex.

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 HWS 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.

- 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.
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).

Service code	Short explanation	Return code (decimal)	Meaning
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.

• CVBC - HWSCVBC0

System action:

This message is issued and, if possible, the requestor of the function is notified. Otherwise, the command buffer is freed and the HWS 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.

- 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.

• CRSP - HWSCRSP0

System action:

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

System programmer response:

The HWS 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 HWS 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 HWS command that was blocked from being run by bhwscmd.
- did identifies the datastore affected by hwscmd and prev_hwscmd.
- prev_hwscmd identifies the HWS 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 HWS continues to

System programmer response:

The HWS command in progress is terminating the datastore; therefore, any new commands cannot be processed. If the HWS command (hwscmd) was CLOSEHWS, the HWS 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 HWS. The scheduler controller is the controller that schedules the threads associated with a 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
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	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
	controller.	8	Storage is unavailable to satisfy the request.
INCLOSE	The HWS 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	4	An incorrect dispatcher work area is passed to the create thread routine.
	thread.	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.

- DOCC HWSDOCC0
- DOCM HWSDOCM0

System action:

This message is issued and the HWS continues to run.

System programmer response:

Ensure that the region size in the JCL statement is large enough to accommodate the HWS 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.

- · 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	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	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
	conversation controller. The area is used as a work area.	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	4	An incorrect dispatcher work area is passed to the create thread routine.
	thread.	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.

- DSC1 HWSDSC10
- DSCM HWSDSCM0

System action:

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

System programmer response:

On the subsequent close and startup of the HWS, ensure that the region size in the JCL statement is large enough to accommodate the HWS 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 HWS 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 HWS 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 HWS 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 HWS 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 HWS 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 HWS is broken.

HWSD0252W

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

Explanation:

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

- 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
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 requested component 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 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.

• DREC— HWSDREC0

System action:

This message is issued and the HWS 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 HWS. 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 HWS is unable to notify the scheduler controller for the named datastore that a communication error has occurred. When this condition occurs, the HWS 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 HWS 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.

HWSD02701

OTMA open failed; R=rc, M=mc

Explanation:

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

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

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 21 or message "HWSO1110W" on page 22 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 HWS 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 HWS 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 CLOSEDS 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 HWS 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.

- · 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 HWS.	4	This is a processing error.

• 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.

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	4	An incorrect or unsupported subpool is specified.	
	OTOKEN.	8	A zero length is requested.
		12	Unable to obtain the requested storage (MVS GETMAIN failed).

DDXR— HWSDDXRG

System Programmer Response:

This is probably a storage error. Ensure that the region size for the HWS 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 HWS continues to run.

SystemProgrammer 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	4	An incorrect or unsupported subpool is specified.	
	CTOKEN.	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 HWS continues to run.

System Programmer Response:

This is probably a storage error. Ensure that the region size for the HWS 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.

HWS01210W

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

An attempt to guery 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 MVS/ESA SP Authorized Assembler Reference.

Module identifier:

DDXO— HWSDDXOT

System action:

This message is issued and the HWS 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.

- · 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.

DDXO— HWSDDXOT

System action:

This message is issued and the HWS 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 HWS'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	HWS's XCF member		See MVS/ESA SP Authorized Assembler
	Tiame	Reference.	Reference.

Module identifier:

DDXO— HWSDDXOT

System action:

This message is issued and the HWS 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.

DDXC— HWSDDXC

System action:

This message is issued and the HWS continues to run.

System Programmer Response:

This is probably a storage error. Ensure that the region size for the HWS 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 HWS'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	HWS's XCF member	See MVS/ESA SP	See MVS/ESA SP
	name	Authorized Assembler	Authorized Assembler
		Reference.	Reference.

Module identifier:

DDXC— HWSDDXCN

System action:

This message is issued and the HWS 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 HWS'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	HWS's XCF member name	I .	See MVS/ESA SP Authorized Assembler Reference.

Module identifier:

DDXC— HWSDDXCN

System action:

This message is issued and the HWS 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.

- · group identifies the XCF group name.
- member identifies the HWS'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	HWS's XCF member name	CBERROR	See IMS/ESA OTMA Guide and Reference.	This is a client bid error.

DDXC— HWSDDXCN

System action:

This message is issued and the HWS 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 HWS 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— HWSDDXCN

System action:

This message is issued and the HWS 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 HWS TCP/IP 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 HWS 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 HWS TCP/IP 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 HWS 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 HWS 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 HWS 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 HWS TCP/IP driver is unable to convert the *portid* character string to a numeric value.

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

System action:

This message is issued and the HWS continues to run.

System Programmer Response:

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

HWSP1425E

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

Explanation:

The HWS 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.

System action:

This message is issued and the HWS 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 HWS 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 HWS 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:

- *Il* 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 HWS continues to run.

System Programmer Response:

None. The request message is discarded.

HWSP1445E

Unknown EXIT identifier specified in message prefix; EXIT=msgid, M=mc Explanation:

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

In the message text:

- msgid identifies the MSGID in the message prefix.
- *mc* identifies the module issuing the message.

System action:

This message is issued and the HWS 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.

- 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 HWS 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 HWS continues to run.

System Programmer Response:

None. The request message is discarded. This is an HWS/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 HWS 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 HWS continues to run.

System Programmer Response:

None. The request message is discarded.

HWSP1470E

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

Explanation:

The HWS 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 HWS continues to run.

System Programmer Response:

Examine the return code and resolve the problem, and then restart the HWS 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 HWS when called by the HWS 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 HWS 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 TCPIP 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 HWS 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 HWS.

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 HWS 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 HWS continues to run.

System Programmer Response:

None. The request message is discarded.

HWSP1495E

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

Explanation:

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

- 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 HWS 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 HWS 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.

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 HWSSCVC0

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 HWS 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.

- · 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	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
	controller.	8	Storage is unavailable to satisfy the request.
SCHEDTWU	BPETHDCR, the system service used to schedule the scheduler controller	4	An incorrect dispatcher work area is passed to the create thread routine.
	thread.	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.

• SOC2 — HWSSOC20

System action:

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

System Programmer Response:

Terminate the HWS and ensure that the region size in the JCL statement is large enough to accommodate the HWS region. Restart the HWS. 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 HWS that is too small or to a processing or internal system error.

- · 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	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
	the connected TCP/IP client.	8	Storage is unavailable to satisfy the request.
GETTWUB BPECBGET, the system service used to acquire the thread workunit (TWU) for the conversation controller.	system service used to acquire the thread workunit (TWU) for the conversation	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 HWS is in close process. No new connection with the HWS 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 TCBDWA 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.	

• SSC1 — HWSSSC10

System action:

This message is issued and the HWS 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 HWS, 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 HWS to continue running with the currently connected TCP/IP clients.
- Terminate and then restart the HWS, ensuring that the HWS 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 HWS is unable to forward a message received from TCP/IP client clientid which is communicating through port portid to the required datastore destination.

- 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 HWS.	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	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
	is used as the queuing structure for a message.	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.
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 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 HWS component issues an interface call for another component's service and the requested service cannot be located.	8	This is a processing error.

• SRE4 — HWSSRE40

System action:

This message is issued and the HWS 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 HWS. 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 HWS 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 HWS has received.

- 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
syster to acq for qu messa	BPECBGET, the system service used to acquire an FWE for queuing of messages. The FWE is used as the	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
	queuing structure and the message is anchored off the FWE.	8	Storage is unavailable to satisfy the request.
syst to a buil	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.

SRE4 — HWSSRE40

System action:

This message is issued and the HWS 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.

HWSS07611

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.

HWSS07701

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.

Module identifier:

SSCH — HWSSSCH0

System action:

This message is issued and the HWS continues to run.

System Programmer Response:

Ensure that the named ports are available to the HWS 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
NFNDSCT	The port entry table (SCT) using the portid as the search value cannot be located. This table represents a port while connected with the HWS.	4	This is a processing error.

Module identifier:

• SOCM — HWSSOCM0

System action:

This message is issued and the HWS 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.

HWSS07801

TCPIP 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 HWS 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 HWS 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 HWS 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.

HWSS07901

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 — HWSSOC20

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 HWS 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 HWS terminates.

System Programmer Response:

Ensure that the region size in the JCL statement is large enough to accommodate the HWS 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 HWS.

- · 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.

• ITBL — HWSITBL0

System action:

This message is issued and the HWS terminates.

System Programmer Response:

Ensure that the region size in the JCL statement is large enough to accommodate the HWS 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 HWS 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 HWS terminates.

System Programmer Response:

Ensure that the region size in the JCL statement is large enough to accommodate the HWS 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 HWS 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 HWS terminates.

System Programmer Response:

Ensure that the region size in the JCL statement is large enough to accommodate the HWS 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 HWS environment that are not directed to a specific component.

- 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 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.

• XTRS — HWSXTRS0

System action:

This message is issued and the HWS terminates.

System Programmer Response:

Ensure that the region size in the JCL statement is large enough to accommodate the HWS 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 HWS 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	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
	controller.	8	Storage is unavailable to satisfy the request.
SCHEDTWU	BPETHDCR, the system service used to schedule the open/close controller	4	An incorrect dispatcher work area is passed to the create thread routine.
	thread.	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:

- XHD3 HWSXHD30
- XSH3 HWSXSH30

System action:

This message is issued and the HWS terminates.

System Programmer Response:

Ensure that the region size in the JCL statement is large enough to accommodate the HWS 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

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.

- 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	64	An invalid keyword is detected in the input data.
	parameters.	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	4	An incorrect CBTE address is passed to the CB get routine. This is an internal system error.
	(DCT).	8	Storage is unavailable to satisfy the request.

• XCFG — HWSXCFG0

System action:

This message is issued and the HWS 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 HWS 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 HWS environment that are not directed to a specific component.

- · 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 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.

• XCM3 — HWSXCM30

System action:

This message is issued and the HWS terminates.

System Programmer Response:

Ensure that the region size in the JCL statement is large enough to accommodate the HWS 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 HWS environment that are not directed to a specific component.

- 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 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.

XCM3 — HWSXCM30

System action:

This message is issued and the HWS terminates.

System Programmer Response:

Ensure that the region size in the JCL statement is large enough to accommodate the HWS 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 HWS is executed in supervisor state and key 7.

• ky identifies the key.

Module identifier:

• HWS — HWSHWS00

System action:

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

Chapter 2. IMS TCP/IP OTMA Connection trace dump example

This section contains a trace dump example.

FORMAT LAYOUTS FOR FORMATTED TRACE DUMP 2 LINES

AAAA: REPRESENTS THE COMPONENT OF ITOC.

CMDT - COMMAND COMPONENT

HWSI - ITOC TO DATA STORE COMPONENT

HWSW - SERVER TO ITOC COMPONENT

TCPI - TCPI COMPONENT OTMA - OTMA COMPONENT

ENVT - ITOC ENVIRONMENT COMPONENT

MMMMM: REPRESENTS THE LAST FIVE CHARACTERS OF THE MODULE NAME (HWSMMMMM)

*: REPRESENTS ERROR NOTIFICATION

DDDDDDDDDDDDDDDDDDDDD: REPRESENTS THE DESCRIPTION OF THE TRACE.

WRD1 THROUGH WRD5: REPRESENTS THE 1 TO 5 WORDS BEING TRACED.

CCCCCCCCCCCCCCC: REPRESENTS PRINTABLE CHARACTERS OF WRD1, WRD2 AND WRD3

IF PRINTABLE

BBBBBBBBBBBBBBBBBB: REPRESENTS PRINTABLE CHARACTERS OF WRD4 AND WRD5

IF PRINTABLE

THE LAYOUT OF THE 1 LINE FORMAT IS THE SAME FOR THE FIRST 40 BYTES AS THE 2 LINE FORMAT. FOLLOWING IS THE 1 LINE FORMAT FOR BYTES 41 THROUGH BYTE 115.

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1 ;	7 3 	1 3 1	4 2 	4 ! 7	5 2
CODE:	MOD NAME	SUB CODE DATA	WD1 	WD2 WD5	WD3
CMDT:	CHWS0	PROCESS ITOC COMMAND	VERB	VERB+4	@CVB

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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_QUEUER	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 BUFFR	 @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 R8-@CVB	CVB_ORIGID+4 	R10-@TWU
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	 @ТWU	 @FWE	
CMDT:	XCMLD	LOAD COMMAND MODULES	@CMD E_TBL		
 CMDT:	 XCMLD	COMMAND MODULES LOADED			
	XCM00	COMMAND COMPONENT INIT	@EST_TABLE 	 	
	XCM00	CMD COMP INIT COMPLETED	RETURN CODE		
CMDT:	XCM00	*CMD COMP INIT FAILED		MRESCODE+4	RETURN CODE
CMDT:	 XCM10	CMD COMP INTERFACE INIT	R11-@CMD E_TBL		
CMDT:	 XCM10	CMD COMP INTF INIT OK	R5-RETURN CODE	i	
CMDT:	 XCM10	*CMD COMP INTF INIT FAIL	MRESCODE	MRESCODE+4	RETURN CODE
CMDT:	 XCM30	CMD COMP OPEN INIT			

		I	I	ı	ı
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		 @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	0CTOKEN	
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	etwu ecb	 @CTOKEN	

		LEET VOE CROUD		DUDYTT DECCOR	
UTMA:	DDXTT	LEFT XCF GROUP	DVPXTT_RETCODE	DVPXTT_RESCOD	
		OTMA CLOSE DEGLECT			
UIMA:	DUXUR	OTMA CLOSE REQUEST	@ECB 	@OTOKEN 	
		ODEN CERUCEURE DE ALLOC			
UTMA:	DDXUR	OPEN STRUCTURE DE-ALLOC		DVPXC_RESCODE	
		ITOC CUTDUM MOTIFICATIN		 	
ENVI:	EQCL0	ITOC SHTDWN NOTIFICAT'N		@EST 	
		ITOC QUIESCE PROCESSED	 @TWU	 @EST	
EINVI:	EQCLO	TIOC QUIESCE PROCESSED			
ENVT.	 EQS00	ENVIRON FWE SERVER	 @TWU	 @EST	
LINVI.	LŲSOO	LIVITON IWE SERVER			
 FNVT•	 EQS00	PROCESS FWE FUNCTION	 FWE_FUNC	 FWE_FUNC+4	 @FWE
LIVVI.	LQ300	TROCESS TWE TONCTION			
 FNVT•	 EQS00	ITOC CLOSE PROCESSED			
	Lqooo	1100 02002 110020020			
FNVT:	ETRM0	MVS STOP, TERM ITOC	QUSER DATA		
ENVT:	ETRM0	ITOC TERMINATED	RETURN CODE		
ENVT:	ITBL0	ITOC INTERFACE BUILD	@INTF TABLE		
ENVT:	ITBL0	INTF BLK'S/TABLE BUILT	RETURN CODE		
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	
1011.	SDCON	TOTAL ACCELLATIONS LEVE			
TCPI:	SDCON	TCPIP CONNECT COMPLETE	DVPXA_RETCODE	DVPXA_RESCODE	
TCPI:	SDDSC	CAN/CLS ACCEPT SOCKET	RETURN CODE	 @CTOKEN 	
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	DFPXD_RETCODE	DVPXD_RESCODE	
 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	Msg_func LEN DATA RD 	Msg_func+4 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	i	 @CTOKEN 	
TCPI:	SDRCV	EXIT CALLED ON ERROR			
TCPI:	 SDRCV	SEND MESSAGE BACK	RETCODE		
TCPI:	 SDTTD	TERMINATE TCPIP THREAD			
TCPI:	SDTTD	LISTEN SOCKET CLOSED	RETURN CODE	TCP/IP errno	
TCPI:	 SDTTD	API TERMINATED			

		I	l	I	l
TCPI:	SDTTD	TCPIP THREAD TERMINATED	l	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			
	57.550	JOHN GYORE NODED			
HWSI:	DADD0	*DATA STORE ADD FAILED	FWE_RESCODE	FWE_RESCODE+4	@DCT
		BLD OTMA DRV FUNC TBL	 @DCT		
	55,50	BES ON WE SKY TONG THE			
HWSI:	DDVB0	DRIVER FUNC TABLE BUILT			
HWSI:	D0000	OPEN/CLOSE CONTROLLER	 @DCT	 @TWU	 @DSC E TBL
	50000	or En, dedde ddirindelen			
HWSI:	DOCC0	PROCESS FWE FUNCTION	FWE_FUNC	FWE_FUNC+4	@FWE
			FWE_QUEUER	FWE_NEXT	
	D0CC0	FWE FUNC REQUEST PROC	R5-@NEXT FWE		
HWSI:	DOCC0	OPEN/CLOSE COMPLETED	R8-@DCT		
		I	1		1

HWSI:	DOCMO	OPEN/CLOSE COMMAND PROC	@DCT 	@DS ENTRY	@CVB
HWSI:	DOCMO	OPEN/CLOSE COMPLETED			
HWSI:	DOC10	OPEN OTMA COMMUNICATION		 @TWU 	ODS ENTRY
HWSI:	DOC10	OPEN SCHEDL'R FOR DS	RETURN CODE		
 HWSI:	DOC10	*OPEN DATA STORE FAILED	FWE_RESCODE	FWE_RESCODE+4	
 HWSI:	DOC20	OPEN SCHEDULER FUNCTION	 @DCT 	 @TWU 	 @DS ENTRY
HWSI:	DOC20	CONTROLLER SHCEDULED	RETURN CODE	 	
 HWSI:	DOC20	*CONTROLLER SCHED FAILED	 FWE_RESCODE 		FWE_RETCODE
 HWSI:	D0C30	CLOSE DATA STORE	 @DCT	 @TWU	 @FWE
 HWSI:	DOC30	PROCESS FWE FUNCTION			
		PROCESS FWE FUNCTION DATA STORE CL COMPLETE	FWE_FUNC FWE_QUEUER	 	0FWE
 HWSI:	DOC30			FWE_FUNC+4	
HWSI:	DOC30	DATA STORE CL COMPLETE SEND MSG TO OPERATOR	FWE_QUEUER	FWE_FUNC+4 FWE_NEXT MSP_FUNC+4	
HWSI:	DOC30 DOPER DOPER	DATA STORE CL COMPLETE SEND MSG TO OPERATOR MESSAGE SENT TO OP	FWE_QUEUER	FWE_FUNC+4 FWE_NEXT MSP_FUNC+4 MSP_RESCODE+4	@MSPRM
HWSI: HWSI: HWSI:	DOC30 DOPER DOPER DOPER DOPER	DATA STORE CL COMPLETE SEND MSG TO OPERATOR MESSAGE SENT TO OP	FWE_QUEUER	FWE_FUNC+4 FWE_NEXT MSP_FUNC+4 MSP_RESCODE+4	@MSPRM
HWSI: HWSI: HWSI:	DOPER DOPER DOPEN DOPNO DOPNO	DATA STORE CL COMPLETE SEND MSG TO OPERATOR MESSAGE SENT TO OP OPEN DATA STORE	FWE_QUEUER	FWE_FUNC+4 FWE_NEXT MSP_FUNC+4 MSP_RESCODE+4	

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_FUNC+4	@FWE
			FWE_QUEUER	FWE_NEXT	
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_FUNC+4	@FWE
			FWE_QUEUER	FWE_NEXT	
HWSI:	DSCH0	CMDS ASSOC WITH DS PROC	@NEXT FWE		
HWSI:	DSCL0	PROCESS DS CLOSE	@DST		
HWSI:	DSCL0	PROCESS FWE FUNCTION	FWE_FUNC	FWE_FUNC+4	@FWE
			FWE_QUEUER	FWE_NEXT	
HWSI:	DSCL0	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_FUNC+4	 @FWE
			 FWE_QUEUER	 FWE_NEXT	

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+4	@DST
HWSI:	DSC30	STOP ALL TPIPES FOR DS	@DST	 @TWU 	@FWE
HWSI:	DSC30	DS TPIPES STOPPED	 	 	
 HWSI:	DSC50	THREAD CLOSE NOTIFY	0DST	 @TWU 	
 HWSI:	DSC50	XMIT THRD'S NOTIFIED			
 HWSI:	DSTA0	BUILD DATA STORE TABLE	DCT_DS_ID+4	DCT_DS_ID+4	
 HWSI:	DSTA0	DATA STORE TABLE BUILT	0DS ENTRY	DSPA_DATA	DSPA_RETCODE
 HWSI:	DSTD0	DEQ DATA STORE TABLE	0DST	0TWU	
 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	DSPM_RESCODE+4	DSPM_RETCODE
 HWSI:	DSTN0	Q DS TBL ON ACTIVE Q	 @DST	 @TWU	
 HWSI:	DSTN0	DS TABLE QUEUED			

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HWSI:	DSTP0	STOP DATA STORE COMMAND		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+4	ecvb
 HWSI:	DVEW0	VIEW DATA STORE CMPLETE	RETURN CODE		
 HWSI:	DVEW0	*VIEW DATA STORE FAILED		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	
 HWSI:	DXMT0	MSG SENT TO DATA STORE			
	DXQH0	LOCATE DS FOR THIS MSG	OMUSR_DESTID	OMUSR_DESTID+4	@FWE
 HWSI:	DXQH0	ERROR OR MSG Q'D FOR DS	DSPM_RESCODE	DSPM_RESCODE+4	RETURN CODE
 HWSI:	XHDLD	LD DS HWSI COMMON MOD'S	 @DSC E_TBL 		
HWSI:	XHDL0	COMMON MODULES LOADED	 		
 HWSI:	 XHD00		@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		
	SADD0	ADD TCPIP PORT	CVB VERB	CVB VERB+4	0CVB
			⁻	⁻	
 HWSW:	SADDO	TCPIP PORT ADDED			
	SADDO	*ADD TCPIP PORT FAILED	FWE RESCODE	FWE_RESCODE+4	RETURN CODE
	07.1220	7.55			
	SCCLO	CONVERSATION TERMINAT'N	 @SVT	 @FWE	SVT ACTION
	00020				
 HWSW:	SCCL0	CONVERSATION TERMINAT'D	RETURN CODE		
	SCCM0	PROCESS CONV COMMAND	CVB_VERB	CVB_VERB+4	 @SVT
	000110	1100200 00111 00111111111			
 HWSW:	SCCMO	CONV COMMAND COMPLETED	RETURN CODE		
	000110	00117 0011111110 00111 22120			
 W2W+	SCACO	HWSW CONV CONTROLLER	 @SVT	 @TWU	
inon.	30,000	MON CONTROLLER			
 HWSW:	SCVC0	PROC MSG/CMD FWE FUNC	 FWE_FUNC	 FWE FUNC+4	 @FWE
inon.	30,000	THOS TISAY STID TWE TOTIC	- WE_TONE FWE_QUEUER	- WE_NEXT	
 W2WH	SCVC0	CONVERSATION PROCESSED			
iiwsw.	30,000	CONVERSATION TROCESSED			
 HWSW:		HWSW O/C CONTROLLER	 @SCT	 @TWU	R11-@SHC E_TBL
IIWSW:	30000	HWSW U/C CONTROLLER			
	20000	PROCESS FWE FUNCTION	 	FWE FUNC+4	 @FWE
IIWSW:	30000	I VOCESS I ME LOUCHTON	FWE_FUNC 	FWE_FUNC+4 	
		FWE FUNC PROCESSED	FWE_QUEUER	FWE_NEXT 	
IIMOM:	30000	IME IONG FRUCESSED	@SCT	I	I

 HWSW:	 SOCL0	DISCONNECT COMMUNICAT'N	esct	 @TWU 	 @FWE
HWSW:	SOCL0	PROCESS FWE FUNCTION	 FWE_FUNC 	FWE_FUNC+4	 @FWE
 HWSW:	 SOCL0	CLIENTS QUIESCED	FWE_QUEUER 	FWE_NEXT 	
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:	SOPNO	Q OPEN TCPIP PORT CMD	CVB_VERB	CVB_VERB+4	@CVB
 HWSW:	SOPNO	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
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	i	RESCODE+4	RETURN CODE
HWSW:	SSTP0	STOP PORT/CLIENT	 CVB_VERB 	 CVB_VERB+4 	 @CVB
HWSW:	SSTP0	PORT/CLIENT STOPPED			
 HWSW:	SSTP0	STOP PORT/CLIENT FAIL'D			RETURN CODE
HWSW:	STRM0	TCPIP PRT TCB TERM EXIT	R7	 R10- 	SET_FLAGS
HWSW:	STRM0	CLOSE FWE Q'D			

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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_QUEUER	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
		TERMINATE			
HM2M:	SXTE0	TERMINATE	FWE_RESCODE	FWE_RESCODE+4	FWE_RETCODE
		LOAD HWSW COMMON MODS	@SHC E TBL		
пмэм:	ΛΟΠΕυ	LOAD HWSW COMPON PIODS			
		HWSW COMMON MODS LOADED			
iiioii.	ASIILD	TIMON COLLIGION FIGURE EGYPER			
 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		0SCH E_TBL		
 HWSW:	XSH30	COMPONENT INIT	COMPLETE	RETURN CODE		
 HWSW:	XSH30	 *COMPONENT INIT	FAILED	 MRESCODE 	 MRESCODE+4 	RETURN CODE

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