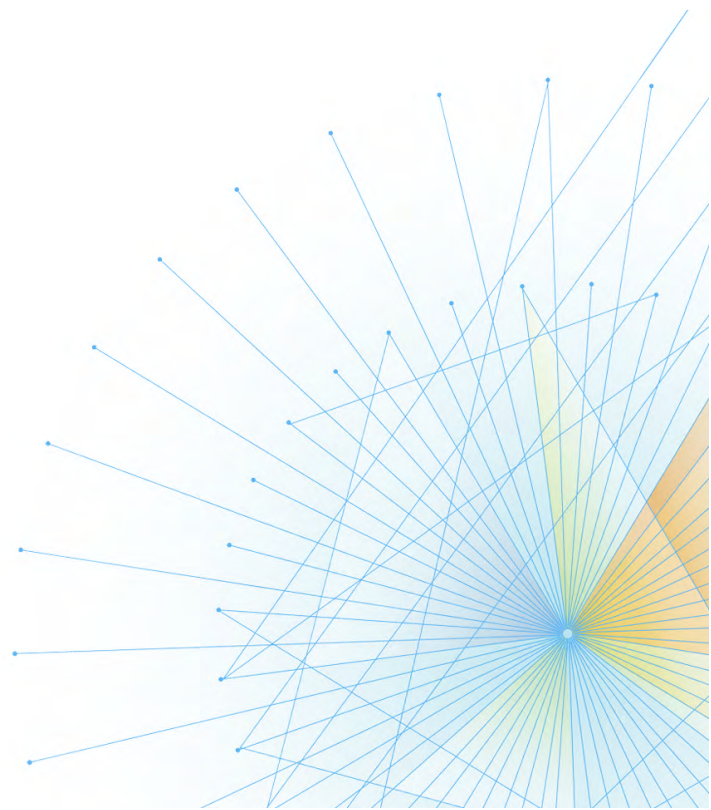




The Mainframe Software Partner For The Next 50 Years

Hiperstation Installation and Configuration Guide

Release 17.02



Please direct questions about Hiperstation
or comments on this document to:

Compuware Support Center

<https://go.compuware.com/>

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Introduction

This manual provides information about how to install, customize, and maintain Hiperstation.

Overview

This document is intended to guide you through installing/updating, configuring, deploying, and troubleshooting Hiperstation. Supplemental documentation can be found in the *Hiperstation Advanced Configuration Guide*.

Alerts

The alerts found in this guide include:



A note or tip providing additional information.



If a particular milestone or task doesn't apply to your site—or your site is not licensed for a particular option—you can skip ahead to the next milestone or task by clicking the icon.



Information important to remember.



Caution. Failure to follow these instructions can cause problems.



Indicates which skill set is most likely needed to perform the following task(s).

Additional Resources

Refer to these other sources of information on Hiperstation.

Related Publications

- *Compuware Installer Mainframe Products SMP/E Installation Guide*
- *Hiperstation Advanced Configuration Guide*
- *Hiperstation Release Notes*
- *Hiperstation for VTAM User Guide*
- *Hiperstation Auditor User Guide*
- *Hiperstation Automated Testing Vehicle (ATV) Manager User Guide*
- *Hiperstation for WebSphere MQ User Guide*

- *Hiperstation for Mainframe Servers User Guide*
- *Hiperstation Messages and Codes*
- *Hiperstation Scripting Reference*.

Online Documentation

The Hiperstation product installation package does not include the product documentation. Access the Hiperstation documentation from the Compuware Support Center website at **<https://go.compuware.com>** in the following electronic formats:

- Release Notes in HTML format
- Product manuals in PDF format
- Product manuals in HTML format.

The product documentation is available for viewing or downloading:

- View PDF files with the free Adobe Reader, available at **<http://www.adobe.com>**.
- View HTML files with any standard web browser.

Hiperstation Overview

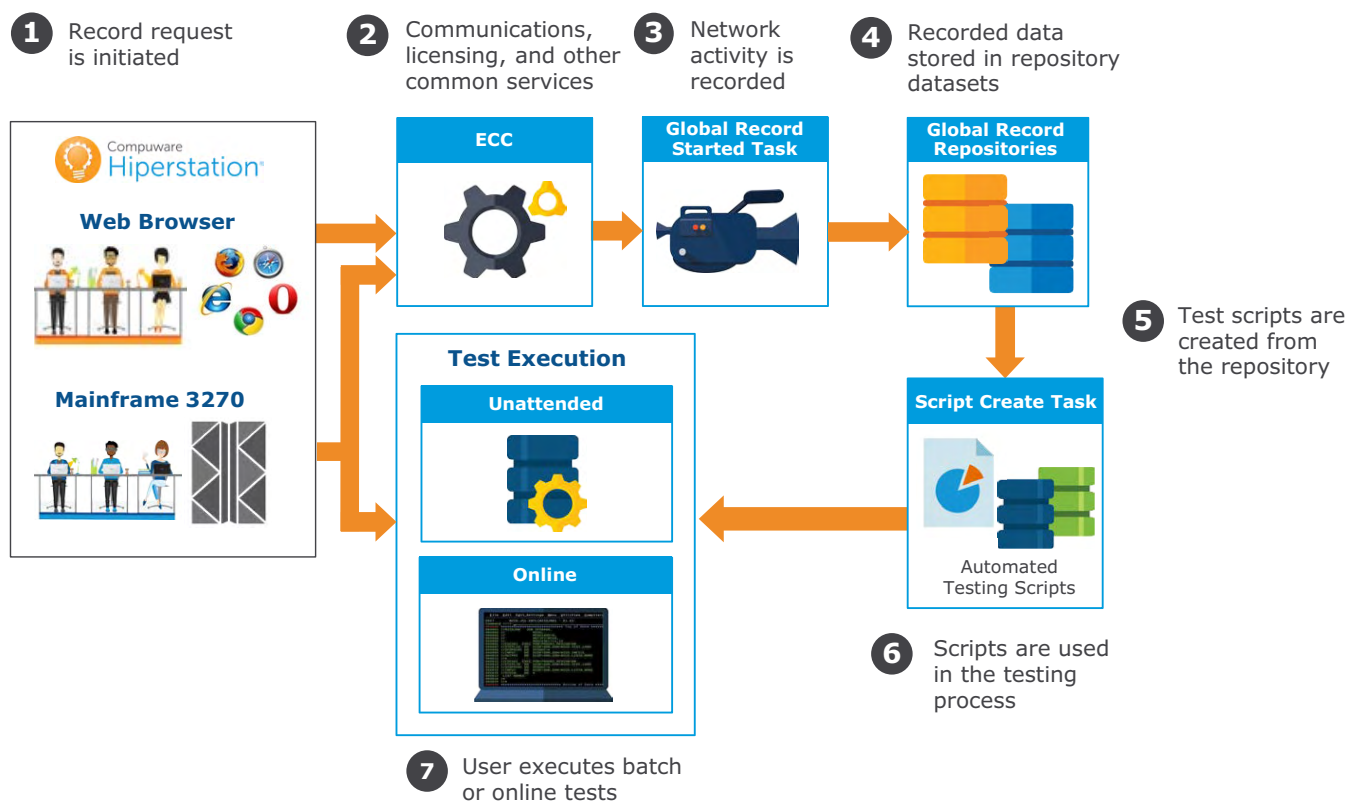
Hiperstation is a single SMP/E installed FMID that contains three separately licensed products:

- Hiperstation for VTAM
- Hiperstation for Mainframe Servers
- Hiperstation for IBM MQ.

The product components include a Global Recording started task, ISPF Dialog interface and batch processes, all used to accomplish your mainframe testing, archiving, and auditing needs:

- The Global Recording started task is used to accomplish recording of desired VTAM, TCP, and IBM MQ communication traffic within an LPAR.
- The Hiperstation ISPF dialog is used for starting and stopping Global Recording activity, script recording and maintenance, 3270 interactive testing, and to build and run automated testing vehicles.
- The Hiperstation batch processes are used for 3270, TCP and MQ automated testing and reporting, and directing Global Recording activity.

Product Architecture



Planning

This section provides information related to planning to install or update to Hiperstation 17.02.

Steps Involved

1. Order Hiperstation and its companion products, including the latest maintenance, via Compuware's Product Ordering web page or by contacting Compuware as described in [Customer Support](#) on page 38.
2. Read this *Installation Guide* and complete each of the milestones to:
 - a. Ensure companion products have been installed and configured with the latest maintenance and that the license for Hiperstation has been imported.
 - b. Perform the SMP/E installation of Hiperstation according to the *Compuware Installer Mainframe Products SMP/E Installation Guide*.
 - c. Implement the Compuware PARMLIB.
 - d. Configure Hiperstation for either a new installation or an upgrade.
 - e. Perform additional configuration for Topaz Workbench and other features.
 - f. Verify product installation.
 - g. Deploy Hiperstation to additional LPARs.
 - h. Troubleshoot any problems with the installation.

Milestones and Roles

Installation, configuration, verification, and deployment are done in ten milestones. The rows in [Table 1](#) identify the role or skill set required to perform each milestone. This makes it easier to know which people need to be involved at each milestone along the way. With the proper planning, you may be able to have certain tasks performed at the same time.

Table 1 People Required for Each Milestone

Milestone	Companion Product Installer	Hiperstation Installer	z/OS System Programmer	z/OS Security Administrator	CICS System Programmer
"Milestone 1: Ensure Installation and Configuration of Companion Products"	ECC ●				
"Milestone 2: Install Hiperstation Using SMP/E"		●			
"Milestone 3: Configure Hiperstation — New Installation"		●	●	●	●
"Milestone 4: Configure Hiperstation — Upgrade"		●	●	●	●
"Milestone 5: Compuware PARMLIB Implementation"		●			
"Milestone 6: Start the Global Recording Task"		●			

Table 1 People Required for Each Milestone (*Continued*)

Milestone	Companion Product Installer	Hiperstation Installer	z/OS System Programmer	z/OS Security Administrator	CICS System Programmer
"Milestone 7: Verify Product Installation"		•			
"Milestone 8: Deployment"		•	•	•	•

Checklist of Milestones and Tasks

To keep track of your progress, you may want to print the [Checklist of Milestones and Tasks](#) on page 41 at the end of this manual, then check off each Milestone and task as it gets completed. (The checklist is only available in the PDF version.)

Prerequisites

Supported Hardware and Software

Hardware Platforms

- z13, z14, z14 ZR1
- zEC12, zBC12
- z196, z114
- z10-EC/BC
- z9-EC/BC
- z900, z990
- z800, z890

Operating Systems

- IBM z/OS V2.2, 2.3
- IBM ISPF for the supported z/OS releases

Major Subsystems

- IBM CICS Transaction Server for z/OS V5.1, 5.2, 5.3, 5.4, 5.5
- IBM DB2 for z/OS V11.1, 12.1
- IBM IMS Transaction and Database Servers V14.1, 15.1
- IBM MQ for z/OS V8.0, 9.0, 9.1

Milestone 1: Ensure Installation and Configuration of Companion Products



Roles involved:
ECC Installer

Complete the following tasks to install and configure Hiperstation companion products.

Task 1.1 Install/Upgrade Enterprise Common Components

Enterprise Common Components (ECC) version 17.02 or higher must be installed and configured to support Hiperstation 17.02. See the *Enterprise Common Components Installation Guide* for instructions on configuring ECC for use with Hiperstation.

Task 1.2 Apply ECC Maintenance

Apply the latest maintenance to ECC 17.02.

Task 1.3 Import Hiperstation License

When you received your Hiperstation product, you also received a license key for Hiperstation for VTAM, Hiperstation for Mainframe Servers, and/or Hiperstation for IBM MQ. Import your Hiperstation license(s) into the Compuware License Management System.

Milestone 2: Install Hiperstation Using SMP/E



Roles involved:
Hiperstation Installer

SMP/E Installation

Hiperstation is installed using SMP/E.

FMIDs

Hiperstation's function modification identifier is MQQF170.

Complete the following tasks to SMP/E-install Hiperstation.

Task 2.1 Follow the Compuware Installation Guide

Follow the instructions in the *Compuware Installer Mainframe Products SMP/E Installation Guide* to install the Hiperstation SMP/E environment.



Make a note of the data set name you specify for the Compuware installer to retain the ISPF tables it creates.

Task 2.2 Run Sample Job \$10CPYQF

Review and submit sample job \$10CPYQF created by the Compuware Installer. This will create a copy of the Hiperstation SQQFSAMP target library to use as the Hiperstation configuration dataset, also known as the .INSTALL library. The dataset name can be any name that your site requires, but Compuware suggests using your SMP/E environment high-level qualifiers suffixed with the low-level qualifier ".INSTALL".

Once completed, continue following the steps in this guide to configure and deploy Hiperstation.

Milestone 3: Configure Hiperstation — New Installation

This chapter will guide you through configuration of a new installation of Hiperstation 17.02.



If you are performing an upgrade instead, skip ahead to ["Milestone 4: Configure Hiperstation — Upgrade"](#).



Roles involved:
z/OS Security Administrator
Hiperstation Installer
z/OS System Programmer
CICS System Programmer.

Complete the following tasks to configure a new installation of Hiperstation.

Task 3.1 Run the Guided Configuration Dialog



Roles involved:
Hiperstation Installer

Task 3.1.1 Launch the Guided Configuration Dialog

To launch the Guided Configuration, execute the \$\$\$SETUP EXEC.

On the Command line, type **TSO EX** followed by the fully-qualified .INSTALL library name and REXX EXEC member name. For example:

```
TSO EX '<hlq>.install.dsn($$$SETUP)
```



Throughout the Guided Configuration Dialog, use the command **HELP** (or press PF1) to display detailed information about the currently displayed panel. PF1 will also show the long text when ISPF short messages are displayed in the upper right corner of a dialog panel.

Task 3.1.2 SMP/E Installation Data Import

Specify the dataset name where the Compuware installer created the SMP/E ISPF tables. This will inform the Hiperstation customization facility about the installation SMP/E environment. When the Install Data Import completes, the Product Suite Guided Configuration Panel is displayed as shown in [Figure 1](#).

Figure 1 Product Suite Guided Configuration Screen

```

----- Product Suite Guided Configuration -----
Option ==>
                Hiperstation FMID: MQQF170

Please complete required selections 2 through 6, in order, to
configure Hiperstation

1  Import Parm Settings  Get customization information from a prior install
2  Generate JCL Samples  Generate JCL samples for product usage
3  Product Configuration Select and run automated customization tasks
4  Generate Manual Tasks Create non-product install task instructions based
   on selections/values set in "Product Configuration"
5  Track Manual Tasks   Non-product install task tracking checklist
6  Compuware Parmlib Gen Create parmlib sample using selections and values
   set during "Product Configuration" tasks.
7  Apply Maintenance   Receive and apply Hiperstation sysmods

```

Task 3.2 Generate JCL Samples

Run option 2 Generate JCL Samples to update product sample JCL and PROC members with the dataset names of your SMP/E target environment. The members will be placed into the .INSTALL library.

Task 3.3 Product Configuration

Run option 3 Product Configuration. The Select Products & Features to Configure screen will be displayed, showing products and features available for configuration. Enter a slash (/) next to the products and features you want to configure. Press Enter after making your selections to advance to the Configure Products screen.



Each time you run option 3 Product Configuration, the Select Products & Features to Configure screen is displayed. Your selections remain the way they were the last time you changed them. Altering selections may be done at any time and may alter the set of automated product configuration tasks or manual tasks. If you make changes after your initial Hiperstation configuration, revisit [Configure Products](#) and [Generate Manual Tasks](#) to check for any new configuration instructions.

Task 3.4 Configure Products

The Select Products & Features to Configure screen allows you to select guided configuration tasks by product being configured: Hiperstation for VTAM, Hiperstation for Mainframe Servers, and/or Hiperstation for IBM MQ. In turn, select each product to configure. For each selected product, a list of automated customization tasks is displayed, based on your set of selections on the Select Products & Features to Configure screen. Some customization tasks apply to more than one product and will appear in the task list for each of the products to which they apply.

Select each configuration task and enter the information requested on the panel. Some panels will ask you to initiate a process with the GENERATE command. The configuration tasks may allocate datasets, tailor procs, build sample members, etc. They may also store information into a customization database within the .INSTALL library.

As you exit each task, a Set Task Status window is displayed where you can either indicate the status of the task as being **Complete** or, if you must collect information about a task, set the status to **In**

Progress or Pending. This will help you re-visit the tasks after having collected the requisite information.

After completing all the automated product configuration tasks, return to the Product Suite Guided Configuration screen ([Figure 1](#)) to advance to the next subtask.

Task 3.5 Generate Manual Tasks

Run option 4 Generate Manual Tasks. This process will create five members with specific tasks—based on information from the preceding steps—to configure your system for use with Hiperstation.

The names of these members tell you the area to which each task applies:

- TSKCICS
- TSKIMS
- TSKMVS
- TSKSECUR
- TSKVTAM.

The Hiperstation installer should review these members and distribute them as needed to system specialists to be completed.



For additional information regarding manual task subject matter, refer to the *Hiperstation Advanced Configuration Guide*.

The Generate Manual Tasks process also creates a checklist of your tasks for monitoring your progress as you complete your unique set of manual configuration tasks.

Task 3.6 Track Manual Tasks

Run option 5 Track Manual Tasks to display the checklist for your set of manual tasks. All persons involved in completing the tasks can display this list and use the C line command on the tasks to indicate when they are completed. The Hiperstation installer can monitor the status of tasks being completed by everyone through this checklist.

This checklist is only for keeping track of progress and serves no other technical purpose. You may choose not to use this checklist if you track progress in another way.



You may proceed to the next step while the manual tasks are yet to be completed.

Task 3.7 Perform Compuware PARMLIB Gen

Run option 6 Compuware Parmlib Gen. This will create a sample PARMLIB member for Hiperstation using selections and values set during “Product Configuration” tasks. The member name is HSCM00, and it will be written to the .INSTALL library, overwriting the member if it already exists.

Milestone 4: Configure Hiperstation — Upgrade

This chapter will guide you through configuration of an upgrade to Hiperstation 17.02.



If you are performing a new installation instead, skip ahead to ["Milestone 5: Compuware PARMLIB Implementation"](#).



Roles involved:
z/OS Security Administrator
Hiperstation Installer
z/OS System Programmer
CICS System Programmer.

Complete the following tasks to upgrade to Hiperstation 17.02.

Task 4.1 Run the Guided Configuration Dialog



Roles involved:
Hiperstation Installer

Task 4.1.1 Launch the Guided Configuration Dialog

To launch the Guided Configuration, execute the \$\$\$SETUP EXEC.

On the Command line, type **TSO EX** followed by the fully-qualified .INSTALL library name and REXX EXEC member name. For example:

```
TSO EX '<hlq>.install.dsn($$$SETUP)
```



Throughout the Guided Configuration Dialog, use the command **HELP** (or press PF1) to display detailed information about the currently displayed panel. PF1 will also show the long text when ISPF short messages are displayed in the upper right corner of a dialog panel.

Task 4.1.2 SMP/E Installation Data Import

Specify the dataset name where the Compuware installer created the SMP/E ISPF tables. This will inform the Hiperstation customization facility about the installation SMP/E environment. When the Install Data Import completes, the Product Suite Guided Configuration Panel is displayed as shown in [Figure 2](#).

Figure 2 Product Suite Guided Configuration Screen

```

----- Product Suite Guided Configuration -----
Option ==>
                Hiperstation FMID: MQQF170

Please complete required selections 2 through 6, in order, to
configure Hiperstation

1  Import Parm Settings  Get customization information from a prior install
2  Generate JCL Samples  Generate JCL samples for product usage
3  Product Configuration Select and run automated customization tasks
4  Generate Manual Tasks Create non-product install task instructions based
   on selections/values set in "Product Configuration"
5  Track Manual Tasks   Non-product install task tracking checklist
6  Compuware Parmlib Gen Create parmlib sample using selections and values
   set during "Product Configuration" tasks.
7  Apply Maintenance   Receive and apply Hiperstation sysmods

```

Task 4.2 Import Parameter Settings

If your site used the Guided Configuration dialog in a prior installation of Hiperstation, you can import parameters and other customization data from your previous customization database into your new one.

Run option 1 Import Parm Settings to initiate the data import. The Import/Migrate Configure Settings screen will be displayed. Specify the name of the .INSTALL library from which to import the information.

Task 4.3 Generate JCL Samples

Run option 2 Generate JCL Samples to update product sample JCL and PROC members with the dataset names of your SMP/E target environment. The members will be placed into the .INSTALL library.

Task 4.4 Product Configuration

Run option 3 Product Configuration. The Select Products & Features to Configure screen will be displayed, showing products and features available for configuration. Enter a slash (/) next to the products and features you want to configure. Press Enter after making your selections to advance to the Configure Products screen.



Each time you run option 3 Product Configuration, the Select Products & Features to Configure screen is displayed. The selections will be set as they were the last time you altered selections. You can choose to change your selections as needed.

Task 4.5 Configure Products

The Select Products & Features to Configure screen allows you to select guided configuration tasks by product being configured: Hiperstation for VTAM, Hiperstation for Mainframe Servers, and/or Hiperstation for IBM MQ. In turn, select each product to configure. For each selected product, a list of automated customization tasks is displayed, based on your set of selections on the Select Products & Features to Configure screen. Some customization tasks apply to more than one product and will

appear in the task list for each of the products to which they apply. These tasks only need to be completed once.

Select each configuration task. The information requested on the screen may be pre-filled with imported input field data that you may accept or alter. Although dataset names pre-filled with imported data are usable in this new version of Hiperstation, they can be changed if desired. Some of the task screens will instruct you to use the GENERATE command to initiate a process after filling in the input fields. The configuration tasks may allocate datasets (or simply register them in the customization database when they already exist), tailor procs, build sample members, etc. They will also store information into a customization database within the .INSTALL library.

As you exit each task, a Set Task Status window is displayed where you can either indicate the status of the task as being **Complete** or, if you must collect information about a task, set the status to **In Progress** or **Pending**. This will help you re-visit the tasks after having collected the requisite information.

After completing all the automated product configuration tasks, return to the Product Suite Guided Configuration screen ([Figure 2](#)) to advance to the next subtask.

Task 4.6 Generate Manual Tasks

Run option 4 Generate Manual Tasks. This process will create five members with specific tasks—based on information from the preceding steps—to configure your system for use with Hiperstation. Most, but not all, of the tasks will require no action because they were already done during a previous installation.

The names of these members tell you the area to which each task applies:

- TSKCICS
- TSKIMS
- TSKMVS
- TSKSECUR
- TSKVTAM.

The Hiperstation installer should review these members to confirm which tasks need no action and which must be done, then distribute them as needed to system specialists to be completed.



For additional information regarding manual task subject matter, refer to the *Hiperstation Advanced Configuration Guide*.

The Generate Manual Tasks process also creates a checklist of your tasks for monitoring your progress as you complete your unique set of manual configuration tasks.

Task 4.7 Track Manual Tasks

Run option 5 Track Manual Tasks to display the checklist for your set of manual tasks. All persons involved in completing the tasks can display this list and use the C line command on the tasks to indicate when they are completed or validated as needing no action. The Hiperstation installer can monitor the status of tasks being completed by everyone through this checklist.

This checklist is only for keeping track of progress and serves no other technical purpose. You may choose not to use this checklist if you track progress in another way.



You may proceed to the next step while the manual tasks are yet to be completed.

Task 4.8 Perform Compuware PARMLIB Gen

Run option 6 Compuware Parmlib Gen. This will create a sample PARMLIB member for Hiperstation using selections and values set during “Product Configuration” tasks. The member name is HSCM00, and it will be written to the .INSTALL library, overwriting the member if it already exists.



If you already have an HSCM member in your Compuware PARMLIB supporting an earlier installation of Hiperstation, compare your existing parameter settings to those in the new sample. Because users request PARMLIB changes over time to adjust product behavior to their needs, it's useful to retain those settings during an upgrade. Update your new member with parameter settings as appropriate.

Milestone 5: Compuware PARMLIB Implementation

This milestone contains tasks that help prepare for configuration of Hiperstation for both a new installation and an upgrade.



Roles involved:
Hiperstation Installer.

Complete the following tasks to prepare for Hiperstation configuration.

Task 5.1 Implement the Compuware PARMLIB

Starting with release 17.02, Compuware mainframe products, including Hiperstation, use parameter libraries (PARMLIBs) in conjunction with the Compuware Mainframe Services Controller (CMSC) to configure each product as well as common components. The CMSC was installed as part of the Enterprise Common Components installation.

In this task, you will implement the Compuware PARMLIB for Hiperstation.

This task is necessary for both a new installation and an upgrade of Hiperstation to release 17.02.



Whenever you modify an existing Compuware PARMLIB member or add a new member, you will need to use the CMSC REFRESH command to update the contents of the CMSC cache.

Task 5.1.1 Create the Default Member

Create your HSCM00 member in your Compuware PARMLIB. Member HSCM00 from the Hiperstation customization library, .INSTALL, is typically chosen as the source to be copied to the Compuware PARMLIB. This approach may require little or no modification of parameter values before use. You could, alternatively, choose either of the other samples as a starting point to create your own member and set parameter values as needed.

In the case of a product upgrade, you may already have an HSCM00 in your Compuware PARMLIB. You can choose to simply edit that member, changing parameter settings as needed. Use the generated .INSTALL member HSCM00 as a guide to setting parameter values and identifying any new parameters added to the product since your existing member was created.

[Table 1](#) describes sample sources of PARMLIB member HSCM.

Table 1 Hiperstation's Compuware PARMLIB Sample Members

Library	Member Name	Contents
Target library SQQFSAMP	HSCM00	Sample Hiperstation parameter member with only core parameters that must be set for Hiperstation to function.
Target library SQQFSAMP	HSCMALL	Sample Hiperstation Compuware PARMLIB parameter member with every product parameter and descriptions on coding values for them.

Table 1 Hiperstation's Compuware PARMLIB Sample Members (*Continued*)

Library	Member Name	Contents
Configuration library .INSTALL	HSCM00	Initially this is a copy of member HSCM00 from the SQQFSAMP target library. After running task 3.7 for new installs or 4.7 for upgrades, it contains a sample Compuware PARMLIB member with values collected during import and configuration set as appropriate parameter values.

Task 5.1.2 Update the CMSC with Your PARMLIB Members

Use the z/OS MODIFY (F) command to update the CMSC with the PARMLIB member you created.

Refreshing All PARMLIB Members

```
F cmscname,PARMLIB REFRESH
```

Refreshing a Single Parameter Member

```
F cmscname,PARMLIB REFRESH member_name
```



During the refresh process, parameter values are validated. If they are found to be invalid, an error message is written to the FDBDLOG SYSOUT dataset associated with the ECC CMSC instance where the member is being refreshed. If an error is detected, the contents of the in-core member will not be refreshed. You must correct the error and refresh the member before attempting to use it.

Milestone 6: Start the Global Recording Task

Complete the following tasks to activate the Global Recording facility.



Roles involved:
Hiperstation Installer

Task 6.1 Start Global Recording

Computer operators use started task commands and shutdown procedures to control the behavior of the Global Recording started task. Provide your operators with a copy of this section of the manual. It explains how to start the Global Recording started task and how to shut it down.

The TSKMVS task list instructed the system programmer to start the Global Recording task to make the Global Recording facility available to users. If the task is already running, simply review this section before proceeding to the next milestone.



This Milestone describes the essential instructions needed to start and stop the Global Recording facility. Complete instructions regarding Global Recording customization and operation are provided in the *Hiperstation Advanced Configuration Guide*.

Task 6.1.1 Start the Global Recording Task

Start the started task after each IPL to enable Global Recording activity. Either:

- Manually start it by issuing the START command described in this section.
- Have your MVS Systems Programmer add the start command to the COMMND00 member to have the MVS Master Scheduler automatically start the task after every IPL.

To start the Global Recording started task, issue the START command on the MVS Console. The syntax of the command is as follows:

```
S GRTASK,P=parm
```

To specify more than one parameter, place the comma-delimited parameter string in single quotes.

```
S GRTASK,P='parm,parm'
```

Control the way the started task behaves with the following start command parameters.

EMERGENC

Shuts down Global Recording started task quickly and performs minimal clean up. All VTAM intercepts are preserved but disabled.

STARTUP

Starts up the Global Recording started task.

SUFFIX=aaaa

Instructs the Global Recording started task to use a suffix other than 00, or the alternate default suffix defined in the CMSC subsystem, when requesting parameter member HSCM. **aaaa** can be 1 to 4 valid member name characters.

QUIET

Suppresses the following messages when you start up the Global Recording started task.

```
-SVMAN601I      HIPERSTATION SUBSYSTEM IS ALREADY ACTIVE
-SVMAN602I      IT MUST BE SHUTDOWN FOR A STARTUP TO TAKE PLACE
-SVMAN603I      START HIPERSTATION USING SHUTDOWN AS THE EXEC PARAMETER
-SVMAN604I      WHEN SHUTDOWN COMPLETES, RESTART NORMALLY
```

It also suppresses all console messages or TSO TPUT messages, as well as the following recording request initiation messages:

```
-ETGRPX103I     GR INITIATED FOR REQUEST nnnnn
-ETGRPX104I     SIDE A: netida.lunamea SIDE B: netidb.lunameb
-ETGRPX105I     LOGMODE: 11111111
-ETGRPX106I     TP: tttttttt
```

Task 6.1.2 Shut Down the Global Recording Started Task

Shut down the Global Recording started task with either:

- the Modify command (F GRTASK, SHUTDOWN)
- the MVS STOP command.

It can take several minutes after issuing the command before the Global Recording started task ends completely. If the started task does not end after several minutes, enter the MVS CANCEL command to finish the shutdown.



Never use the MVS FORCE command to shut down the Global Recording started task. An IPL may be required if the FORCE command is used.

Always issue a SHUTDOWN or MVS STOP command and wait several minutes for the started task to end completely before issuing a CANCEL command.

Do not issue the CANCEL command more than once. An IPL may be required if the CANCEL command is issued more than once.

The started task termination and cleanup activity are bypassed if you use the FORCE command or issue the CANCEL command more than once.

If, for some reason, you use the FORCE command or issue the CANCEL command more than once, use the START command with the SHUTDOWN parameter to clean up the data areas used by Global Recording.

```
S GRTASK, P=SHUTDOWN
```

If this technique is not successful, an IPL may be required.

Milestone 7: Verify Product Installation

This milestone contains tasks to verify that Hiperstation is usable.



Figures shown below are representative of 3270 Global Recording via Hiperstation being used for validation. Keep in mind that these figures will differ for other recording technologies.



Roles involved:
Hiperstation Installer

Complete the following tasks to verify product execution.

Task 7.1 Start Global Recording Started Task

The purpose of this task is to ensure the Global Recording started task starts and remains running. If improperly configured or running in an unsupported VTAM version, the Global Recording started task will shut down. This task should be performed if Global Recording/Archive Recording is being used.

1. Issue the start command to start the Hiperstation Global Recording task. This allows for the capturing of 3270, APPC, TCP, and MQ data.
2. Look at the SVMPA195I and SVMAP196I messages in the message log of the Global Recording started task ([Figure 3](#)) to ensure that parameters are coming from the correct Compuware PARMLIB member and dataset.

Figure 3 Hiperstation Started Task Job Output

```

Display Filter View Print Options Search Help
-----
SDSF OUTPUT DISPLAY HS      STC89780  DSID      2 LINE 0      COLUMNS 02- 81
COMMAND INPUT ==>          SCROLL ==> CSR
***** TOP OF DATA *****
              J E S 2  J O B  L O G  --  S Y S T E M  A C 0 6  --  N O

14.11.53 STC89780 ---- MONDAY,      13 NOV 2017 ----
14.11.53 STC89780 IEF695I START HS      WITH JOBNAME HS      IS ASSIGNED TO U
14.11.53 STC89780 $HASP373 HS      STARTED
14.11.53 STC89780 IEF403I HS - STARTED - TIME=14.11.53
14.11.53 STC89780 SVMAP195I PARAMETERS LOADED FROM MEMBER: HSCMXML
14.11.53 STC89780 SVMAP196I          DATASET: AC06.CMSC.PARMLIB
14.11.53 STC89780 SVMAP001I SCANNING GLOBAL RECORD INITIALIZATION PARAMETERS
14.11.53 STC89780 SVMAP101I SECSYS(RACF)
14.11.53 STC89780 SVMAP101I ALLNET
14.11.53 STC89780 SVMAP101I ALLNBUFS(200)
14.11.53 STC89780 SVMAP101I ALLNBUFL(1024)
14.11.53 STC89780 SVMAP101I SESSCNT(2000)
14.11.53 STC89780 SVMAP101I SCREATE(HC172717)
14.11.53 STC89780 SVMAP101I REGISTRY(HSRGSTRY)
14.11.53 STC89780 SVMAP101I SWITCH(HSEARCH)
14.11.53 STC89780 SVMAP101I TCPIP(TCPIP)
14.11.53 STC89780 SVMAP101I OMVS(OMVS)

```

3. Validate that the following messages appear in the log:

```
SVMAN391I VTAM      CAPTURE REQUESTED - Hiperstation for VTAM & Hiperstation for
Mainframe Servers
SVMAN391I TCPIP     CAPTURE REQUESTED - Hiperstation for Mainframe Servers
SVMAN391I MQSERIES CAPTURE REQUESTED - Hiperstation for Websphere MQ
```

4. Look further in the message log and find the message:

```
ETGRMN001I HIPERSTATION GLOBAL RECORDING ACTIVATED
```

5. Ensure the Global Recording started task remains active.

Task 7.2 Start Global Recording Capture Request



If you only installed Hiperstation for Websphere MQ, skip ahead to [Start WebSphere MQ Global Recording Capture Request](#).

This task should be performed if Global Recording will be used.

1. Execute the Hiperstation CLIST built by the guided customization dialog to enter Hiperstation. The default name for this CLIST is (LIBDEF). The Hiperstation Product Menu is displayed as shown in [Figure 4](#).

Figure 4 Hiperstation Product Menu

```
----- Hiperstation - Product Menu -----
Option ==> 1

 0 Hiperstation Profiles           Set user profiles
 1 Hiperstation for VTAM           VTAM Application Testing
 2 Hiperstation for Mainframe Servers SNA/APPC & HTTP Testing
 3 Hiperstation for WebSphere MQ   WebSphere MQ Message Testing
 4 Hiperstation ATV Manager        Automated Testing Vehicle Manager

Profile      ==>
Profile dataset ==>

Leave Profile blank for selection list
Leave Profile dataset blank to create new dataset
Leave both blank to run with no Profile

See Hiperstation frequently asked questions at:
http://go.compuware.com

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Unpublished-rights Reserved Under the Copyright Laws of the United States.

Type LEGAL on the command line for Copyright/Trade Secret Notice information
```

2. Enter **1** in the Option field to select Hiperstation for VTAM. The Hiperstation Main Menu is displayed ([Figure 5](#)).

Figure 5 Hiperstation Main Menu

```

----- Hiperstation - Main Menu -----
Option ==> 4

                                     Product Release: 17.02.00
1 Domain Traveler                    Record and Playback
2 Quick Play                          Select a Script and Go
3 Session Demo                        Demonstrate Online Applications
4 Global Recording                     System and Application Test Creation
5 Archive/Search                       Audit and Help Desk Functions
6 Script Processors                    Automatic Script Editing
7 Unattended Processing                 Setup Unattended Playback and Compare Jobs

```

3. Enter 4 in the Option field to select Global Recording. The Global Recording screen ([Figure 6](#)) is displayed.

Figure 6 Global Recording Screen

```

Hiperstation ----- Global Recording -----
Option ==> 1

SNA (3270, LU0, APPC)
1 Monitor Requests                    Add, Review or Update your requests
2 Review Repository                   Review your captured sessions
3 Global Record Manager               Manage Include/Exclude filter lists

TCP/IP
6 Monitor TCP/IP Requests             Add/Review your TCP/IP recording requests
7 Create TCP/IP Scripts               Create TCP/IP scripts from a repository

Enter END command to return to Hiperstation Main Menu.

```

4. Enter 1 in the Option field to select Monitor Requests.
- If the screen shown in [Figure 7](#) is displayed, go to [Step 5](#).
 - If the screen shown in [Figure 8](#) is displayed, go to [Step 6](#).

Figure 7 Global Recording Add Requests Screen

```

Hiperstation ----- Global Recording - Add Requests -----
Command ==>

Press ENTER to continue, or END to return.

*****
*
*           No Global Recording Requests were found for your userid.
*
*****

Type of request to add:
1 1. 3270
2 2. APPC

```

Figure 8 Global Recording Monitor Requests Screen

```

Hiperstation ----- Global Recording - Monitor Requests ----- Row 1 of 1
Command ==>                                                    Scroll ==> CSR

Line commands are: (C)ancel, (F)orce, (P)Stop, (R)estart, (D)isable,
                  (S)elect, (U)pdate, (1)Add 3270, (2)Add APPC, or
                  (9)Switch repositories

   LU   Side-A/  Side-B/  Repository
S  Type Applid  Terminal Userid   Dataset
-----
1  3270 *      *        *        ACMJETO.I.DONT.CARE.FILE0001      0
*****
***** BOTTOM OF DATA *****

```

5. Type **1** to select a 3270 request type ([Figure 7](#)) and press Enter. The 3270/LU0 Capture Criteria screen ([Figure 9](#)) is displayed. Go to [Step 7](#).
6. Enter **1** in the S column of the first entry in the list to specify **Add 3270** ([Figure 8](#)) and create a new Global Recording request. The 3270/LU0 Capture Criteria screen ([Figure 9](#)) is displayed.

Figure 9 3270/LU0 - Capture Criteria

```

Hiperstation ----- 3270/LU0 - Capture Criteria -----
Command ==>

Press ENTER to continue, or PF1 for help, or CANCEL to exit.

Terminal . . . . . *           Use an asterisk for wildcarding
Application . . . . . *       the Terminal, Application or Userid
Userid . . . . . USERID     fields.
OR
Global Record Manager List . . . . . Second filter GRM List . .

                HH : MM : SS                MM / DD / YY
Start Time . . . 00 : 00 : 00  Start Date . . . 00 / 00 / 00 (Optional)
End Time . . . . 00 : 00 : 00  End Date . . . . 00 / 00 / 00 (Optional)

Repository Dataset . . . MY.RECORD.REPOS
First and last number. . . . . (If wildcard in dataset)

Recording options: (Enter "/" to select)
 / Suspend script creation      Normal event notification
Re-use repositories           / Error event notification
FORCE request at 'End Time'    Record from LOGON only

```

7. Complete the 3270/LU0 Capture Criteria screen as follows:
 - a. Enter your ID in the Userid field with an asterisk (*) in both Terminal and Application fields.
 - b. Enter the name of a dataset that does not exist in your environment in the Repository Dataset field.
 - c. Under Recording options, use a slash (/) to select only Suspend script creation and Error event notification. Do not select Normal event notification, Re-use repositories, FORCE request at 'End Time', or Record from LOGON only.
 - d. Press Enter. For testing purposes, accept the default allocations. The Global Recording Monitor Requests screen will be displayed, and your request should appear highlighted.
8. Log off from your TSO session, then log back on. Return to the Global Recording Monitor Requests screen. The Users count should be 1.
9. Enter the F line command to issue the Force command on the Global Recording Monitor Requests screen.

10. Either browse the Global Recording repository or perform a script create to validate that data has been recorded.

Task 7.3 Start a Domain Traveler Session



If you did not install Hiperstation for VTAM, skip ahead to [Additional Verification](#).

The purpose of this task is to ensure users can connect to an APPLID using Hiperstation's Domain Traveler.

1. Go to the Hiperstation Main Menu ([Figure 5](#)).
2. Enter **4** in the Option field to select Domain Traveler. The Hiperstation * Domain Traveler screen ([Figure 10](#)) is displayed.

Figure 10 Hiperstation * Domain Traveler Screen

```

----- Hiperstation * Domain Traveler -----
Command ==>

Use this panel to connect to one of your site's domains.  When
connected you can record your session or play back previous sessions.

Domain Destination . H01AC054

/ Change session options (Enter "/" )

Start = ISPF , Zoom = PF23 , LUName = Default , Restore Keyboard
Logmode = SNX32702 , Model = 2-(24X80) , SNA = Yes , Queriable = Yes
Application Profiling(Off) , IMS = Y

```

3. In the Domain Destination field, type the APPLID of an environment used for testing, then type a slash (/) to select Change session options and press Enter. The Session Options screen ([Figure 11](#)) is displayed.

Figure 11 Session Options Screen

```

Hiperstation -----Session Options -----
Command ==>

Logon data. . . . . (Optional)
ZOOM mode . . . . N      Y=yes, N=No
ZOOM key. . . . . PF23
LU name . . . . .      (Terminal name used to login to application)
Logmode . . . . . SNX32702 (Overrides model, SNA and Queriable options)
3270 model. . . . . 2      1=12x40, 2=24x80, 3=32x80, 4=43x80, 5=27x132
SNA . . . . . Y          Y=yes, N=no
Queriable . . . . . Y      Y=yes, N=no
Trailing Blanks . 1      (Only applies to non-Zoom mode)
Infirist . . . . . Y      Y = No Welcome Screen From Domain Destination
Appl Profiling. . . . . "/" to View application profile settings
The following PF key translations apply to the Domain Destination when
in non-Zoom mode:
PF01 = F1      PF04 = F4      PF07 = F7      PF10 = F10     PA1 =
PF02 = F2      PF05 = F5      PF08 = F8      PF11 = F11     PA2 =
PF03 = F3      PF06 = F6      PF09 = F9      PF12 = F12     CLEAR=

```

4. Validate that the values shown for Logmode or 3270 model, SNA, and Queriable are valid for the environment to which you will connect. Change these fields to valid values if needed. You may want to change the default values for these parameters in the Compuware PARMLIB member for Hiperstation.
5. Press PF3.
6. Press Enter to connect to the APPLID. You should see the initial screen for the APPLID to which you connected.

Task 7.4 Start WebSphere MQ Global Recording Capture Request

The purpose of this task is to ensure that a Global Recording task can be started and capture data for MQ.

1. Execute the Hiperstation CLIST built by the guided customization dialog to enter Hiperstation. The default name for this CLIST is (LIBDEF). The Hiperstation Product Menu is displayed as shown in [Figure 4](#).
2. Enter 3 in the Option field to select Hiperstation for WebSphere MQ. The Hiperstation for WebSphere MQ Main Menu is displayed ([Figure 5](#)).

Figure 12 Hiperstation for WebSphere MQ Main Menu

```

----- Hiperstation for WebSphere MQ - Main Menu -----
Option ==> 1
Product Release: 17.02.00

 1 Monitor MQ Requests      Add/Review your MQ recording requests
 2 Create MQ Scripts        Create MQ scripts from a repository
 3 Playback MQ Scripts      Execute and save playbacks of MQ scripts
 4 MQ Playback Reporting    Report on database created from playback
 5 MQ Archive Requests      Add, Review or Terminate MQ archive requests
 6 MQ Archive Web Reports   Manage MQ archive web reports

```

3. Enter 1 in the Option field to select Monitor MQ Requests.
 - a. If the screen shown in [Figure 13](#) is displayed, go to [Step 4](#).
 - b. If the screen shown in [Figure 14](#) is displayed, go to [Step 5](#).

Figure 13 Global Recording * Requests Screen

```

----- Global Recording * Requests -----
COMMAND ==>

*****
*
*           No Global Recording Requests were found for your userid.
*
*****

Enter END to exit, ENTER to add a new request.

```


Figure 14 Global Recording Monitor MQ Requests Screen

```

Hiperstation ----- Global Recording - Monitor MQ Requests ---- REQUEST ADDED
Command ==>                                         Scroll ==> PAGE

Line commands are: (C)ancel, (F)orce, (P)Stop, (R)estart, (D)isable,
                  (S)elect, (U)pdate, (A)dd, (V)iew, or
                  (9)Switch repositories

Request  Active   Total   Repository
Owner   Sessions Sessions Dataset
-----
A  ACMJETO          ACMJETO.MQ.TEST
*****
***** BOTTOM OF DATA *****

```

4. Press Enter. The WebSphere MQ Data Collect - Output screen ([Figure 16](#)) is displayed. Go to [Step 6](#).
5. Enter A to the left of the first entry in the list ([Figure 14](#)) to create a new Global Recording request. The WebSphere MQ Data Collect screen ([Figure 15](#)) is displayed.

Figure 15 WebSphere MQ Data Collect Screen

```

Hiperstation ----- WebSphere MQ Data Collect --- Enter record criteria
Command ==>                                         Scroll ==> PAGE

Make changes to data collection criteria below or select a filter to edit the
expanded fields. Use OK command when complete.

Restrict script input to certain times:
      HH : MM : SS          MM / DD / YYYY
Start Time . . 00 : 00 : 00   Start Date . . 00 / 00 / 0000
End Time . . . 00 : 00 : 00   End Date . . . 00 / 00 / 0000

Force at End Time . . .

Line commands are: (S)elect, (R)epeat, (D)elete, or (I)nsert

S Ftr Act  QMGR Queue/Object name          Jobname  Comp Reas
* *** **** *
_ 001 INCL ABCD *
* *** **** *

```

6. In the OMGR field, type the name of a queue manager on which your site plans to do recordings, in the Queue/Object name field, type an asterisk (*), and on the Command line, type OK. Press Enter. The WebSphere MQ Data Collect - Output screen is displayed as shown in [Figure 16](#).

Figure 16 WebSphere MQ Data Collect - Output Screen

```

Hiperstation ----- WebSphere MQ Data Collect - Output -----
Command ==>

Choose where to store the data, then press ENTER to continue.

Repository dataset:
Dataset name . . . . . MQ.TEST,REPOS
First and last number . . . . . (Needed if wildcard in dataset name)

Re-use repository options: (Enter "/" to select)
Delete existing data
/ Append to existing data
Overwrite existing data when all segments are full

Amount of data to use:
Message data from GETs . . . ALL      (ALL or number of bytes)
Message data from PUTs . . . ALL      (ALL or number of bytes)

```

7. Complete the WebSphere MQ Data Collect - Output screen ([Figure 16](#)) as follows:
 - a. Enter the name of a dataset that does not exist in your environment in the Dataset name field.
 - b. Under Re-use repository options, use a slash (/) to select only Append to existing data. Do not select Delete existing data or Overwrite existing data when all segments are full.
 - c. Specify ALL for both Message data from GETs and Message data from PUTs.
 - d. Press Enter. For testing purposes, accept the default allocations. The Global Recording Monitor MQ Requests screen will be displayed, and your request should appear highlighted.
8. Either wait for MQ activity to occur or run a program that does MQ activity on the MQ manager you specified on the Global Recording request.
9. Wait to see Active Sessions and Total Sessions increase for your Global Recording request.
10. Enter the F line command to issue a Force command on the Global Recording Monitor MQ Requests screen.
11. Either browse the Global Recording repository or perform a script create to validate that data has been recorded.

Task 7.5 Additional Verification

You may want to perform further verification by exercising additional features of Hiperstation (for example: record/playback via domain traveler, script create, playback, session demo, and so on). For details on these features and how to perform them, see the appropriate section in the *Hiperstation User Guide*.

Milestone 8: Deployment

This chapter contains considerations to be aware of and tasks to perform during deployment of Hiperstation.

Depending on your environment, you should review ["Milestone 3: Configure Hiperstation — New Installation"](#) if you are deploying a new install or ["Milestone 4: Configure Hiperstation — Upgrade"](#) if you are deploying an upgrade.

As an alternative to completing an entire Hiperstation installation on each LPAR on which you plan to use Hiperstation, the product contains two sample batch jobs to assist in copying the Hiperstation installation from the current LPAR location to another LPAR. The batch jobs are in the .INSTALL library used during the original installation and are to be used after the original installation has been completed.

The sample batch jobs are named QQFCOPY1 and QQFCOPY2. They utilize the Batch TSO Transmit function to send the identified datasets to the LPAR/UserID specified. QQFCOPY1 is dynamically built and uses the high-level qualifier specified for the SMP/E Target libraries. QQFCOPY2 is a static sample that requires editing of the datasets before submission.

Both samples require editing of the Batch TSO Transmit command (XMIT) to identify the destination LPAR and TSO UserID that will receive the identified datasets. See IBM documentation *TSO/E Primer* for further explanation.



Roles involved:
z/OS Security Administrator
Hiperstation Installer
z/OS System Programmer
CICS System Programmer.

Complete the following task to deploy Hiperstation.

Task 8.1 Target Library Deployment

After the product installation is complete, edit the sample jobs according to their Usage Notes. When submitted for execution, the jobs will package the specified datasets and transmit them to the specified LPAR and TSO userID. The specified userID will have to log on to the specified LPAR and use the TSO RECEIVE command to receive the datasets onto their new location. If desired, the TSO RECEIVE command allows for renaming the datasets.

The customizations needed to use the newly transmitted libraries include, but are not limited to, those in the following tasks.

Task 8.1.1 Create Global Recording Request File

Use .INSTALL library member GRDBDEF to create and initialize a unique Global Recording request file for the new LPAR.

This file may not be shared across multiple LPARS.

Task 8.1.2 Install HSCM Compuware PARMLIB Member

1. Copy the PARMLIB member to new LPAR.
2. Update the following:

- a. The product file specifications if they were renamed.
 - b. The specifications needed for web-based reporting, the ATV, and Reporting.
 - c. The product default jobcard.
 - d. The Global Recording Request File specification.
 - e. The Virtual Terminal Prefix and/or Suffix.
3. Install the HSCM member into the CMSC on the new LPAR.

Task 8.1.3 Create Web-Based Reporting Elements

Copy all elements installed on USS HFS/ZFS paths. This is needed only if Web-Based Reporting and Archiving were installed. If either function is used, elements needed would have to be verified on the new location.

Task 8.1.4 Review Manual Tasks

All tasks detailed in the Manual Tasks list need to be validated for the new LPAR location.

Task 8.1.5 Install PROCLIB Members

All elements installed into the original LPAR's PROCLIB dataset may need to be updated, validated, and installed into the PROCLIB on the new LPAR.

Task 8.1.6 Create Security Rules

All Security Rules need to be re-created and validated on the new LPAR if the Security Package database (RACF/ACF2/Top Secret) is not shared across LPARs.

Troubleshooting

This troubleshooting information can help you diagnose some common installation problems. For most situations, start troubleshooting by running the procedures in "[Milestone 7: Verify Product Installation](#)" and checking the log for any diagnostic messages describing errors.

Typical Errors

U123 Abend Encountered

Indicates the VTAM release is not supported by Hiperstation Global Record.

Suggestions

- Either go to our Compuware Support Center website at <https://go.compuware.com> or contact Compuware Customer Solutions to determine if there is a PTF available for Hiperstation to support the VTAM release.
- If the VTAM release is not GA, contact Compuware Customer Solutions.

S047 Abend Encountered

The Hiperstation load library, SQQFLOAD, is not APF authorized.

Suggestion

Make the Hiperstation load library, SQQFLOAD, APF authorized.

Error Message "SVMAN388E NOT LICENSED FOR MQSERIES SUPPORT" or "SVMAN389E NOT LICENSED FOR TCP-IP SUPPORT" in Global Record Started Task

Indicates that the installation is not licensed to record MQ and/or TCP/IP data.

Suggestions

- Either remove or comment out the MQ_QUEUE_MANAGER_NAME and/or TCPIP_JOBNAMEs in the Compuware PARMLIB member for Hiperstation. Refresh PARMLIB and restart the global record started task.
- Ensure that the licenses for Hiperstation for WebSphere MQ and/or Hiperstation for Mainframe Servers have been added to LMS subsystem for the LPAR.

Informational Messages "SVMAN601I HIPERSTATION SUBSYSTEM IS ALREADY ACTIVE" and "SVMAN602I IT MUST BE SHUTDOWN FOR A START UP TO TAKE PLACE"

There can only be one global record started task running at a time on an LPAR. This can happen when there are production and test global record started tasks.

Suggestion

To avoid this error, add the following to all global record started tasks in the LPAR:

```
//ENQUEUE DD DSN=MY.EMPTY.DATASET,DISP=OLD
```

This will provide an exclusive lock on the dataset MY.EMPTY.DATASET. If one of the global records is running, the other global record job will not run until the one currently running has been brought down.

Global Record Shuts Down Immediately

This can occur when either there are errors on the initial refresh of the Hiperstation Compuware PARMLIB member or Hiperstation is not configured to record *any* technology.

Suggestions

- Ensure there are no errors with any of the parameters in the Hiperstation Compuware PARMLIB member by checking the output of the CMSC job. Correct any issues and refresh the Hiperstation Compuware PARMLIB member.
- Edit the Compuware PARMLIB member for Hiperstation. Ensure that **at least one** of the following is in the PARMLIB member:
 - TCPIP_JOBNAMEs
 - MQ_QUEUE_MANAGER_NAME
 - ENABLE_3270=YES
 - ENABLE_APPC=YES
 - ENABLE_LUO=YES

Message “VTAM SETUP PROBLEM” in Domain Traveler

Domain traveler could not connect to the domain destination.

Suggestions

- Correct the LU name value on the Session Options panel.
- Ensure the value for VIRTUAL_TERMINAL_PREFIX is correct in the Hiperstation Compuware PARMLIB member. Correct any errors and refresh the Hiperstation Compuware PARMLIB member.
- Ensure the virtual terminal is defined (or can be autoinstalled) to the domain destination being connected.

Changes to Hiperstation Compuware PARMLIB Member Not Taking Effect

Suggestions

- Perform a refresh on the Hiperstation Compuware PARMLIB member in the CMSC job.
- Check the CMSC job to ensure there were no errors during the refresh. Correct any errors and refresh the Hiperstation Compuware PARMLIB member.

Customer Support

Visit the Compuware Support Center, <https://go.compuware.com>, to find product documentation, knowledge articles, and other technical resources. You can open a case with the Customer Solutions team, order products, and much more.

Contact Customer Solutions by phone:

- USA and Canada: 1-800-538-7822 or 1-313-227-5444.
- All other countries: Contact your local Compuware office. Contact information is available at <https://go.compuware.com>.

Visit Compuware on the web at <http://www.compuware.com> for additional product information.

Checklist of Milestones and Tasks

- ❑ Milestone 1: Ensure Installation and Configuration of Companion Products
 - ❑ Task 1.1 Install/Upgrade Enterprise Common Components
 - ❑ Task 1.2 Apply ECC Maintenance
 - ❑ Task 1.3 Import Hiperstation License
- ❑ Milestone 2: Install Hiperstation Using SMP/E
 - ❑ Task 2.1 Follow the Compuware Installation Guide
 - ❑ Task 2.2 Run Sample Job \$10CPYQF
- ❑ Milestone 3: Configure Hiperstation — New Installation
 - ❑ Task 3.1 Run the Guided Configuration Dialog
 - ❑ Task 3.1.1 Launch the Guided Configuration Dialog
 - ❑ Task 3.1.2 SMP/E Installation Data Import
 - ❑ Task 3.2 Generate JCL Samples
 - ❑ Task 3.3 Product Configuration
 - ❑ Task 3.4 Configure Products
 - ❑ Task 3.5 Generate Manual Tasks
 - ❑ Task 3.6 Track Manual Tasks
 - ❑ Task 3.7 Perform Compuware PARMLIB Gen
- ❑ Milestone 4: Configure Hiperstation — Upgrade
 - ❑ Task 4.1 Run the Guided Configuration Dialog
 - ❑ Task 4.1.1 Launch the Guided Configuration Dialog
 - ❑ Task 4.1.2 SMP/E Installation Data Import
 - ❑ Task 4.2 Import Parameter Settings
 - ❑ Task 4.3 Generate JCL Samples

- ❑ Task 4.4 Product Configuration
- ❑ Task 4.5 Configure Products
- ❑ Task 4.6 Generate Manual Tasks
- ❑ Task 4.7 Track Manual Tasks
- ❑ Task 4.8 Perform Compuware PARMLIB Gen

- ❑ Milestone 5: Compuware PARMLIB Implementation
 - ❑ Task 5.1 Implement the Compuware PARMLIB
 - ❑ Task 5.1.1 Create the Default Member
 - ❑ Task 5.1.2 Update the CMSC with Your PARMLIB Members

- ❑ Milestone 6: Start the Global Recording Task
 - ❑ Task 6.1 Start Global Recording
 - ❑ Task 6.1.1 Start the Global Recording Task
 - ❑ Task 6.1.2 Shut Down the Global Recording Started Task

- ❑ Milestone 7: Verify Product Installation
 - ❑ Task 7.1 Start Global Recording Started Task
 - ❑ Task 7.2 Start Global Recording Capture Request
 - ❑ Task 7.3 Start a Domain Traveler Session
 - ❑ Task 7.4 Start WebSphere MQ Global Recording Capture Request
 - ❑ Task 7.5 Additional Verification

- ❑ Milestone 8: Deployment
 - ❑ Task 8.1 Target Library Deployment
 - ❑ Task 8.1.1 Create Global Recording Request File
 - ❑ Task 8.1.2 Install HSCM Compuware PARMLIB Member
 - ❑ Task 8.1.3 Create Web-Based Reporting Elements
 - ❑ Task 8.1.4 Review Manual Tasks
 - ❑ Task 8.1.5 Install PROCLIB Members
 - ❑ Task 8.1.6 Create Security Rules