



**Program Directory for  
IBM Session Manager  
for z/OS**

V3.2.0

Program Number 5655-U98

FMIDs HSMX200, JSMX201

for Use with  
z/OS

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G113-0585-00

**Note**

Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 23.

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# Contents

|   |    |
|---|----|
| <b>1.0 Introduction</b>                                   | 1  |
| 1.1 Session Manager Description                           | 1  |
| 1.2 Session Manager FMIDs                                 | 2  |
| <b>2.0 Program Materials</b>                              | 3  |
| 2.1 Basic Machine-Readable Material                       | 3  |
| 2.2 Optional Machine-Readable Material                    | 3  |
| 2.3 Program Publications                                  | 3  |
| 2.3.1 Basic Program Publications                          | 3  |
| 2.3.2 Optional Program Publications                       | 4  |
| 2.4 Program Source Materials                              | 4  |
| 2.5 Publications Useful During Installation               | 4  |
| <b>3.0 Program Support</b>                                | 5  |
| 3.1 Program Services                                      | 5  |
| 3.2 Preventive Service Planning                           | 5  |
| 3.3 Statement of Support Procedures                       | 6  |
| <b>4.0 Program and Service Level Information</b>          | 7  |
| 4.1 Program Level Information                             | 7  |
| 4.2 Service Level Information                             | 8  |
| <b>5.0 Installation Requirements and Considerations</b>   | 9  |
| 5.1 Driving System Requirements                           | 9  |
| 5.1.1 Machine Requirements                                | 9  |
| 5.1.2 Programming Requirements                            | 9  |
| 5.2 Target System Requirements                            | 10 |
| 5.2.1 Machine Requirements                                | 10 |
| 5.2.2 Programming Requirements                            | 10 |
| 5.2.2.1 Installation Requisites                           | 10 |
| 5.2.2.2 Operational Requisites                            | 11 |
| 5.2.2.3 Toleration/Coexistence Requisites                 | 11 |
| 5.2.2.4 Incompatibility (Negative) Requisites             | 11 |
| 5.2.3 DASD Storage Requirements                           | 11 |
| 5.3 FMIDs Deleted   | 15 |
| 5.4 Special Considerations                                | 15 |
| <b>6.0 Installation Instructions</b>                      | 17 |
| 6.1 Installing Session Manager                            | 17 |
| 6.1.1 SMP/E Considerations for Installing Session Manager | 17 |
| 6.1.2 SMP/E Options Subentry Values                       | 17 |
| 6.1.3 SMP/E CALLLIBS Processing                           | 17 |

|            |  |           |
|------------|--|-----------|
| 6.1.4      | Sample Jobs                                      | 18        |
| 6.1.5      | Perform SMP/E RECEIVE                            | 19        |
| 6.1.6      | Allocate SMP/E Target and Distribution Libraries | 19        |
| 6.1.7      | Perform SMP/E Zone Setup (Optional)              | 19        |
| 6.1.8      | Define DDDEF Entries                             | 20        |
| 6.1.9      | Perform SMP/E APPLY                              | 20        |
| 6.1.10     | Perform SMP/E ACCEPT                             | 21        |
| 6.1.11     | Run REPORT CROSSZONE                             | 22        |
| 6.2        | Activating Session Manager                       | 22        |
| <b>7.0</b> | <b>Notices</b>                                   | <b>23</b> |
| 7.1        | Trademarks                                       | 24        |
|            | <b>Reader's Comments</b>                         | <b>27</b> |

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## Figures

|     |   |    |
|-----|---|----|
| 1.  | Basic Material: Unlicensed Publications                         | 3  |
| 2.  | Basic Material: Other Unlicensed or Licensed Publications       | 4  |
| 3.  | Publications Useful During Installation                         | 4  |
| 4.  | PSP Upgrade and Subset ID                                       | 5  |
| 5.  | Component IDs   | 6  |
| 6.  | Driving System Software Requirements                            | 10 |
| 7.  | Target System Conditional Operational Requisites                | 11 |
| 8.  | Total DASD Space Required by Session Manager                    | 12 |
| 9.  | Storage Requirements for Session Manager Target Libraries       | 13 |
| 10. | Storage Requirements for Session Manager Distribution Libraries | 14 |
| 11. | SMP/E Options Subentry Values                                   | 17 |
| 12. | Sample Installation Jobs  | 18 |

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## 1.0 Introduction

This program directory is intended for system programmers who are responsible for program installation and maintenance. It contains information about the material and procedures associated with the installation of IBM Session Manager for z/OS. This publication refers to IBM Session Manager for z/OS as Session Manager.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 3 identifies the basic and optional program materials and documentation for Session Manager.
- 3.0, “Program Support” on page 5 describes the IBM support available for Session Manager.
- 4.0, “Program and Service Level Information” on page 7 lists the APARs (program level) and PTFs (service level) that have been incorporated into Session Manager.
- 5.0, “Installation Requirements and Considerations” on page 9 identifies the resources and considerations that are required for installing and using Session Manager.
- 6.0, “Installation Instructions” on page 17 provides detailed installation instructions for Session Manager. It also describes the procedures for activating the functions of Session Manager, or refers to appropriate publications.

Before installing Session Manager, read the *CBPDO Memo To Users* and the *CBPDO Memo To Users Extension* that are supplied with this program in softcopy format and this Program Directory; then keep them for future reference. Section 3.2, “Preventive Service Planning” on page 5 tells you how to find any updates to the information and procedures in this Program Directory.

Session Manager is supplied in a Custom-Built Product Delivery Offering (CBPDO, 5751-CS3). The Program Directory that is provided in softcopy format on the CBPDO tape is identical to the hardcopy format if one was included with your order. All service and HOLDDATA for Session Manager are included on the CBPDO tape.

Do not use this program directory if you install Session Manager with a SystemPac or ServerPac. When you use one of those offerings, use the jobs and documentation supplied with the offering. The offering will point you to specific sections of this program directory as needed.

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### 1.1 Session Manager Description

IBM Session Manager for z/OS (Session Manager) is a terminal session manager for VTAM and TCP/IP that provides a highly-available, secure and user-friendly method of accessing multiple z/OS systems from a single 3270 terminal. By using the System z coupling facility, active sessions can be recovered after a planned or unplanned outage providing much greater resilience and flexibility.

New in IBM Session Manager V3.2:

- Eclipse Interface for Online Administration (User, Terminal, Profile, APPL, and System statements).
- Simplified PASSTICKET support.
- Clarification for message ISZ0285E.
- RACF classes optionally loaded into a Dataspace.
- Allow Autostart on the ADDSESS command.
- Improvements to the Dumping to GDG facility.
- New variable to indicate SSL connection.
- Shipping of ISZC\* datasets replaced with ISZCALOC job.

This new version also includes numerous security, installation, configuration, and operational enhancements, including requirements raised by individual customers and user communities, working together to make Session Manager V3.2 even easier to deploy, manage, and use.

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## 1.2 Session Manager FMIDs

Session Manager consists of the following FMIDs:

HSMX200  
JSMX201

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## 2.0 Program Materials

An IBM program is identified by a program number. The program number for Session Manager is 5655-U98.

Basic Machine-Readable Materials are materials that are supplied under the base license and feature numbers, and are required for the use of the product. Optional Machine-Readable Materials are orderable under separate feature numbers, and are not required for the product to function.

The program announcement material describes the features supported by Session Manager. Ask your IBM representative for this information if you have not already received a copy.

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### 2.1 Basic Machine-Readable Material

The distribution medium for this program is physical media or downloadable files. This program is in SMP/E RELFILE format and is installed by using SMP/E. See 6.0, "Installation Instructions" on page 17 for more information about how to install the program.

You can find information about the physical media for the basic machine-readable materials for Session Manager in the *CBPDO Memo To Users Extension*.

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### 2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for Session Manager.

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## 2.3 Program Publications

The following sections identify the basic and optional publications for Session Manager.

### 2.3.1 Basic Program Publications

Figure 1 identifies the basic unlicensed program publications for Session Manager. One copy of each of these publications is included on CD when you order the basic materials for Session Manager. Contact your IBM representative for further assistance.

| <b>Publication Title</b>                                | <b>Form Number</b> |
|---|--------------------|
| License information CD for IBM Session Manager for z/OS | GC34-2824          |

Figure 2 on page 4 identifies the basic unlicensed or licensed publications that are not available in hardcopy format, but are available through the internet or other media for Session Manager.

| <i>Figure 2. Basic Material: Other Unlicensed or Licensed Publications</i> |                    |                         |
|--|--------------------|-------------------------|
| <b>Publication Title</b>   | <b>Form Number</b> | <b>Media Format</b>     |
| <i>Session Manager Program Directory</i>                                   | GI13-0585          | IBM Publications Center |
| <i>Session Manager Installation and Customization</i>                      | GC34-2804          | IBM Publications Center |
| <i>Session Manager Technical Reference</i>                                 | SC34-2805          | IBM Publications Center |
| <i>Session Manager Panels, Scripts and Variables</i>                       | SC34-2806          | IBM Publications Center |
| <i>Session Manager Online and Batch Administration</i>                     | SC34-2807          | IBM Publications Center |
| <i>Session Manager User and Administrator Guide</i>                        | SC34-2808          | IBM Publications Center |
| <i>Session Manager Quick Reference</i>                                     | SC34-2809          | IBM Publications Center |
| <i>Session Manager Messages and Codes</i>                                  | GC34-2810          | IBM Publications Center |

### 2.3.2 Optional Program Publications

No optional publications are provided for Session Manager.

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## 2.4 Program Source Materials

No program source materials or viewable program listings are provided for Session Manager.

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## 2.5 Publications Useful During Installation

You might want to use the publications listed in Figure 3 during the installation of Session Manager. To order copies, contact your IBM representative or visit the IBM Publications Center at: <http://www.ibm.com/shop/publications/order/>

| <i>Figure 3. Publications Useful During Installation</i> |                    |
|--|--------------------|
| <b>Publication Title</b>                                 | <b>Form Number</b> |
| <i>IBM SMP/E for z/OS User's Guide</i>                   | SA22-7773          |
| <i>IBM SMP/E for z/OS Commands</i>                       | SA22-7771          |
| <i>IBM SMP/E for z/OS Reference</i>                      | SA22-7772          |
| <i>IBM SMP/E for z/OS Messages, Codes, and Diagnosis</i> | GA22-7770          |



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## 3.0 Program Support

This section describes the IBM support available for Session Manager.

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### 3.1 Program Services

Contact your IBM representative for specific information about available program services.

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### 3.2 Preventive Service Planning

Before you install Session Manager, make sure that you have reviewed the current Preventive Service Planning (PSP) information. Review the PSP Bucket for General Information, Installation Documentation, and the Cross Product Dependencies sections. For the Recommended Service section, instead of reviewing the PSP Bucket, it is recommended you use the IBM.ProductInstall-RequiredService fix category in SMP/E to ensure you have all the recommended service installed. Use the **FIXCAT(IBM.ProductInstall-RequiredService)** operand on the **APPLY CHECK** command. See 6.1.9, "Perform SMP/E APPLY" on page 20 for a sample APPLY command.

If you obtained Session Manager as part of a CBPDO, HOLDDATA is included.

If the CBPDO for Session Manager is older than two weeks by the time you install the product materials, you can obtain the latest PSP Bucket information by going to the following website:

<http://www14.software.ibm.com/webapp/set2/psearch/search?domain=psp>

You can also use S/390 SoftwareXcel or contact the IBM Support Center to obtain the latest PSP Bucket information.

For program support, access the Software Support Website at <http://www.ibm.com/software/support/>.

PSP Buckets are identified by UPGRADEs, which specify product levels; and SUBSETs, which specify the FMIDs for a product level. The UPGRADE and SUBSET values for Session Manager are included in Figure 4

| UPGRADE   | SUBSET  | Description             |
|-----------|---------|-------------------------|
| CICSSM320 | HSMX200 | Session Manager z/OS    |
|           | JSMX201 | CICS Interface Function |

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### 3.3 Statement of Support Procedures

Report any problems which you feel might be an error in the product materials to your IBM Support Center. You may be asked to gather and submit additional diagnostics to assist the IBM Support Center in their analysis.

Figure 5 on page 6 identifies the component IDs (COMPID) for Session Manager.

| <i>Figure 5. Component IDs</i> |               |                       |                       |
|--------------------------------|---------------|-----------------------|-----------------------|
| <b>FMID</b>                    | <b>COMPID</b> | <b>Component Name</b> | <b>RETAIN Release</b> |
| HSMX200                        | 5655U9800     | SESSION MNGR z/OS     | 200                   |
| JSMX201                        | 5655U9801     | CICS INTERFACE FUNC   | 201                   |

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## 4.0 Program and Service Level Information

This section identifies the program and relevant service levels of Session Manager. The program level refers to the APAR fixes that have been incorporated into the program. The service level refers to the PTFs that have been incorporated into the program.

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### 4.1 Program Level Information

The following APAR fixes against previous releases of Session Manager have been incorporated into this release. They are listed by FMID.

- FMID HSMX200

|         |         |         |
|---------|---------|---------|
| PM33846 | PM47812 | PM58949 |
| PM35231 | PM47888 | PM60187 |
| PM35233 | PM48240 | PM60356 |
| PM35241 | PM48400 | PM61146 |
| PM35249 | PM48407 | PM61714 |
| PM35879 | PM48408 | PM61716 |
| PM38246 | PM48492 | PM63631 |
| PM41136 | PM48523 | PM63709 |
| PM41142 | PM48545 | PM64260 |
| PM41385 | PM48859 | PM64378 |
| PM42825 | PM50271 | PM66715 |
| PM43915 | PM52392 | PM66991 |
| PM44406 | PM52645 | PM66993 |
| PM44704 | PM52743 | PM67574 |
| PM45688 | PM54332 | PM68127 |
| PM46281 | PM56258 | PM68501 |
| PM46682 | PM56396 | PM68505 |
| PM47261 | PM56726 | PM68634 |
| PM47577 | PM57880 | PM68665 |
| PM47762 | PM58528 | PM70471 |

- FMID JSMX201

NONE

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## 4.2 Service Level Information

No PTFs against this release of Session Manager have been incorporated into the product package.

It is highly recommended that you frequently check the Session Manager PSP Bucket for HIPER and SPECIAL attention PTFs against all FMIDs that you must install. You can also receive the latest HOLDDATA, then add the **FIXCAT(IBM.PRODUCTINSTALL-REQUIRESERVICE)** operand on your APPLY CHECK command. This will allow you to review the recommended and critical service that should be installed with your FMIDs.

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## 5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating Session Manager. The following terminology is used:

- *Driving system*: the system on which SMP/E is executed to install the program.

The program might have specific operating system or product level requirements for using processes, such as binder or assembly utilities during the installation.

- *Target system*: the system on which the program is configured and run.

The program might have specific product level requirements, such as needing access to the library of another product for link-edits. These requirements, either mandatory or optional, might directly affect the element during the installation or in its basic or enhanced operation.

In many cases, you can use a system as both a driving system and a target system. However, you can make a separate IPL-able clone of the running system to use as a target system. The clone must include copies of all system libraries that SMP/E updates, copies of the SMP/E CSI data sets that describe the system libraries, and your PARMLIB and PROCLIB.

Use separate driving and target systems in the following situations:

- When you install a new level of a product that is already installed, the new level of the product will replace the old one. By installing the new level onto a separate target system, you can test the new level and keep the old one in production at the same time.
- When you install a product that shares libraries or load modules with other products, the installation can disrupt the other products. By installing the product onto a separate target system, you can assess these impacts without disrupting your production system.

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### 5.1 Driving System Requirements

This section describes the environment of the driving system required to install Session Manager.

#### 5.1.1 Machine Requirements

The driving system can run in any hardware environment that supports the required software.

#### 5.1.2 Programming Requirements

Figure 6. Driving System Software Requirements

| Program Number                   | Product Name       | Minimum VRM | Minimum Service Level will satisfy these APARs | Included in the shipped product? |
|----------------------------------|--------------------|-------------|--|----------------------------------|
| Any <b>one</b> of the following: |                    |             |  |                                  |
| 5694-A01                         | z/OS               | V01.10.00   | N/A  | No                               |
| 5655-G44                         | IBM SMP/E for z/OS | V03.05.00   | N/A  | No                               |

**Note:** Installation might require migration to new z/OS releases to be service supported.

See [http://www.ibm.com/systems/z/os/zos/support/zos\\_eos\\_dates.html](http://www.ibm.com/systems/z/os/zos/support/zos_eos_dates.html).

## 5.2 Target System Requirements

This section describes the environment of the target system that is required to install and use Session Manager.

Session Manager installs in the CICS (C150) SREL.

### 5.2.1 Machine Requirements

The target system can run in any hardware environment that supports the required software.

### 5.2.2 Programming Requirements

**5.2.2.1 Installation Requisites:** Installation requisites identify products that are required by and *must* be present on the system or products that are not required by but *should* be present on the system for the successful installation of this product.

Mandatory installation requisites identify products that are required on the system for the successful installation of this product. These products are specified as PREs or REQs.

Session Manager has no mandatory installation requisites.

Conditional installation requisites identify products that are *not* required for successful installation of this product but can resolve such things as certain warning messages at installation time. These products are specified as IF REQs.

Session Manager has no conditional installation requisites.

**5.2.2.2 Operational Requisites:** Operational requisites are products that are required by and *must* be present on the system or products that are not required by but *should* be present on the system for this product to operate all or part of its functions.

Mandatory operational requisites identify products that are required for this product to operate its basic functions. These products are specified as PREs or REQs.

Session Manager has no mandatory operational requisites.

Conditional operational requisites identify products that are *not* required for this product to operate its basic functions but are required at run time for this product to operate specific functions. These products are specified as IF REQs.

| <i>Figure 7. Target System Conditional Operational Requisites</i> |   |                 |
|---|---|-----------------|
| <b>Program Number</b>   | <b>Product Name and Minimum VRM/Service Level</b> | <b>Function</b> |
| Any <b>one</b> of the following:                                  |   |                 |
| 5655-M15  | CICS Transaction Server V3.1.0 or later           | CICS Interface  |
| 5655-S97  | CICS Transaction Server V4.1.0 or later           | CICS Interface  |
| 5655-Y04  | CICS Transaction Server V5.1.0                    | CICS Interface  |

**5.2.2.3 Toleration/Coexistence Requisites:** Toleration/coexistence requisites identify products that must be present on sharing systems. These systems can be other systems in a multisystem environment (not necessarily sysplex), a shared DASD environment (such as test and production), or systems that reuse the same DASD environment at different time intervals.

Session Manager has no toleration/coexistence requisites.

**5.2.2.4 Incompatibility (Negative) Requisites:** Negative requisites identify products that must *not* be installed on the same system as this product.

Session Manager has no negative requisites.

## 5.2.3 DASD Storage Requirements

Session Manager libraries can reside on all supported DASD types.

Figure 8 lists the total space that is required for each type of library.

Figure 8. Total DASD Space Required by Session Manager

| Library Type | Total Space Required in 3390 Trks |
|--------------|-----------------------------------|
| Target       | 2735 tracks                       |
| Distribution | 1760 tracks                       |
| File System  | n/a                               |

**Notes:**

1. For non-RECFM U data sets, IBM recommends using system-determined block sizes for efficient DASD utilization. For RECFM U data sets, IBM recommends using a block size of 32760, which is most efficient from the performance and DASD utilization perspective.
2. Abbreviations used for data set types are shown as follows.

- U** Unique data set, allocated by this product and used by only this product. This table provides all the required information to determine the correct storage for this data set. You do not need to refer to other tables or program directories for the data set size.
- S** Shared data set, allocated by this product and used by this product and other products. To determine the correct storage needed for this data set, add the storage size given in this table to those given in other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.
- E** Existing shared data set, used by this product and other products. This data set is *not* allocated by this product. To determine the correct storage for this data set, add the storage size given in this table to those given in other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.

If you currently have a previous release of this product installed in these libraries, the installation of this release will delete the old release and reclaim the space that was used by the old release and any service that had been installed. You can determine whether these libraries have enough space by deleting the old release with a dummy function, compressing the libraries, and comparing the space requirements with the free space in the libraries.

For more information about the names and sizes of the required data sets, see 6.1.6, "Allocate SMP/E Target and Distribution Libraries" on page 19.

3. Abbreviations used for the file system path type are as follows.

- N** New path, created by this product.
- X** Path created by this product, but might already exist from a previous release.
- P** Previously existing path, created by another product.

4. All target and distribution libraries listed have the following attributes:

- The default name of the data set can be changed.
- The default block size of the data set can be changed.
- The data set can be merged with another data set that has equivalent characteristics.



- The data set can be either a PDS or a PDSE.
5. All target libraries listed have the following attributes:
- These data sets can be SMS-managed, but they are not required to be SMS-managed.
  - These data sets are not required to reside on the IPL volume.
  - The values in the "Member Type" column are not necessarily the actual SMP/E element types that are identified in the SMPMCS.
6. All target libraries that are listed and contain load modules have the following attributes:
- These data sets can be in the LPA, but they are not required to be in the LPA.
  - These data sets can be in the LNKLIST.
  - These data sets are not required to be APF-authorized.

The following figures describe the target and distribution libraries and file system paths required to install Session Manager. The storage requirements of Session Manager must be added to the storage required by other programs that have data in the same library or path.

**Note:** Use the data in these tables to determine which libraries can be merged into common data sets. In addition, since some ALIAS names may not be unique, ensure that no naming conflicts will be introduced before merging libraries.

*Figure 9 (Page 1 of 2). Storage Requirements for Session Manager Target Libraries*

| Library<br>DDNAME | Member<br>Type | Target<br>Volume | T<br>Y<br>P<br>E | O<br>R<br>G | R<br>E<br>C<br>O<br>M | L<br>R<br>E<br>C<br>L | No.<br>of<br>3390<br>Trks | No.<br>of<br>DIR<br>Blks |
|-------------------|----------------|------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| SISZINST          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 10                        | NA                       |
| SISZCONF          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 1200                      | NA                       |
| SISZBAPL          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| SISZBGRP          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| SISZBHCF          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| SISZBHCP          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| SISZBHCR          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| SISZBMSK          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| SISZBPRF          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| SISZBRNG          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| SISZBRUS          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| SISZBUPD          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| SISZBUSR          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| SISZSAPL          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |

Figure 9 (Page 2 of 2). Storage Requirements for Session Manager Target Libraries

| Library<br>DDNAME | Member<br>Type | Target<br>Volume | T<br>Y<br>P<br>E | O<br>R<br>G | R<br>E<br>C<br>F<br>M | L<br>R<br>E<br>C<br>L | No.<br>of<br>3390<br>Trks | No.<br>of<br>DIR<br>Blks |
|-------------------|----------------|------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| SISZSCLS          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| SISZSCMD          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 20                        | NA                       |
| SISZSCNF          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| SISZSMMSG         | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 225                       | NA                       |
| SISZSPRF          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| SISZSSYS          | SAMP           | ANY              | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| SISZAUTH          | LMOD           | ANY              | U                | PDS         | U                     | 0                     | 1200                      | 720                      |

Figure 10 (Page 1 of 2). Storage Requirements for Session Manager Distribution Libraries

| Library<br>DDNAME | T<br>Y<br>P<br>E | O<br>R<br>G | R<br>E<br>C<br>F<br>M | L<br>R<br>E<br>C<br>L | No.<br>of<br>3390<br>Trks | No.<br>of<br>DIR<br>Blks |
|-------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| AISZINST          | U                | PDS/E       | FB                    | 80                    | 10                        | NA                       |
| AISZMOD           | U                | PDS/E       | U                     | 0                     | 225                       | NA                       |
| AISZCONF          | U                | PDS/E       | FB                    | 80                    | 1200                      | NA                       |
| AISZBAPL          | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| AISZBGRP          | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| AISZBHCF          | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| AISZBHCP          | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| AISZBHCR          | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| AISZBMSK          | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| AISZBPRF          | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| AISZBRNG          | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| AISZBRUS          | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| AISZBUPD          | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| AISZBUSR          | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| AISZSAPL          | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| AISZSCLS          | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| AISZSCMD          | U                | PDS/E       | FB                    | 80                    | 20                        | NA                       |

Figure 10 (Page 2 of 2). Storage Requirements for Session Manager Distribution Libraries

| Library<br>DDNAME | T<br>Y<br>P<br>E | O<br>R<br>G | R<br>E<br>C<br>F<br>M | L<br>R<br>E<br>C<br>L | No.<br>of<br>3390<br>Trks | No.<br>of<br>DIR<br>Blks |
|-------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| AISZSCNF          | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| AISZSMMSG         | U                | PDS/E       | FB                    | 80                    | 225                       | NA                       |
| AISZSPRF          | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |
| AISZSSYS          | U                | PDS/E       | FB                    | 80                    | 5                         | NA                       |

### 5.3 FMIDs Deleted

Installing Session Manager might result in the deletion of other FMIDs. To see which FMIDs will be deleted, examine the ++VER statement in the SMPMCS of the product.

If you do not want to delete these FMIDs at this time, install Session Manager into separate SMP/E target and distribution zones.

**Note:** These FMIDs are not automatically deleted from the Global Zone. If you want to delete these FMIDs from the Global Zone, use the SMP/E REJECT NOFMID DELETEFMID command. See the SMP/E manuals for instructions.

### 5.4 Special Considerations

This release of Session Manager has restructured the target and distribution libraries to support simplified maintenance of the OLA and Classic implementations. If you are migrating from a previous release, it is imperative that you read the relevant chapters in the *Session Manager Installation and Customization* GC34-2804, as many members have been renamed.



---

## 6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of Session Manager.

Please note the following points:

- If you want to install Session Manager into its own SMP/E environment, consult the SMP/E manuals for instructions on creating and initializing the SMPCSI and the SMP/E control data sets.
- You can use the sample jobs that are provided to perform part or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries that are required for SMP/E execution have been defined in appropriate zones.
- You can use the SMP/E dialogs instead of the sample jobs to accomplish the SMP/E installation steps.

---

### 6.1 Installing Session Manager

#### 6.1.1 SMP/E Considerations for Installing Session Manager

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of Session Manager.

#### 6.1.2 SMP/E Options Subentry Values

The recommended values for certain SMP/E CSI subentries are shown in Figure 11. Using values lower than the recommended values can result in failures in the installation. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. See the SMP/E manuals for instructions on updating the global zone.

| <i>Figure 11. SMP/E Options Subentry Values</i> |               |   |
|---|---------------|---|
| Subentry  | Value         | Comment   |
| DSSPACE   | (686,209,76)  |   |
| PEMAX   | SMP/E Default | IBM recommends using the SMP/E default for PEMAX. |

#### 6.1.3 SMP/E CALLLIBS Processing

Session Manager uses the CALLLIBS function provided in SMP/E to resolve external references during installation. When Session Manager is installed, ensure that DDDEFs exist for the following libraries:

- SDFHLOAD

## 6.1.4 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install Session Manager:

| <i>Figure 12. Sample Installation Jobs</i> |          |  |                |
|--|----------|--|----------------|
| Job Name                                   | Job Type | Description  | RELFILE        |
| ISZSMPSU                                   | ZONES    | Sample job to set up SMP/E zones (see note below)        | IBM.HSMX200.F2 |
| ISZRECV                                    | RECEIVE  | Sample RECEIVE job from tape                             | IBM.HSMX200.F2 |
| ISZRECVE                                   | RECEIVE  | Sample RECEIVE job for electronic/disk input             | IBM.HSMX200.F2 |
| ISZALLOC                                   | ALLOCATE | Sample job to allocate target and distribution libraries | IBM.HSMX200.F2 |
| ISZDDDEF                                   | DDDEF    | Sample job to define SMP/E DDDEFs                        | IBM.HSMX200.F2 |
| ISZAPPLY                                   | APPLY    | Sample APPLY job   | IBM.HSMX200.F2 |
| ISZACCPT                                   | ACCEPT   | Sample ACCEPT job  | IBM.HSMX200.F2 |

You can access the sample installation jobs by performing an SMP/E RECEIVE (refer to 6.1.5, “Perform SMP/E RECEIVE” on page 19) then copy the jobs from the RELFILES to a work data set for editing and submission. See Figure 12 to find the appropriate relfile data set.

You can also copy the sample installation jobs from the tape or product files by submitting the following job. Depending on your distribution medium, use either the //TAPEIN or the //FILEIN DD statement and comment out or delete the other statement. Before you submit the job, add a job card and change the lowercase parameters to uppercase values to meet the requirements of your site.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.HSMX200.F2,UNIT=tunit,
// VOL=SER=volser,LABEL=(x,SL),
// DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.HSMX200.F2,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSNAME=jc1-library-name,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,
// SPACE=(TRK,(primary,secondary,dir))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

See the following information to update the statements in the previous sample:

TAPEIN:

**tunit** is the unit value that matches the product package.  
**volser** is the volume serial that matches the product package.  
**x** is the tape file number that indicates the location of the data set name on the tape.  
See the documentation that is provided by CBPDO for the location of IBM.HSMX200.F2 on the tape.

FILEIN:

**filevol** is the volume serial of the DASD device where the downloaded files reside.

OUT:

**jcl-library-name** is the name of the output data set where the sample jobs are stored.

**dasdvol** is the volume serial of the DASD device where the output data set resides.

SYSIN:

**xxxxIN** is either TAPEIN or FILEIN depending on your input DD statement.

Customize each of the sample jobs listed in Figure 12 on page 18. Each sample job contains comments with specific instructions for customization.

### 6.1.5 Perform SMP/E RECEIVE

If you have obtained Session Manager as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the Session Manager FMIDs, service, and HOLDDATA that are included on the CBPDO package. For more information, see the documentation that is included in the CBPDO.

You can also choose to edit and submit sample job ISZRECV to perform the SMP/E RECEIVE for Session Manager. Consult the instructions in the sample job for more information.

### 6.1.6 Allocate SMP/E Target and Distribution Libraries

Customize and run sample job **ISZALLOC** to allocate the SMP/E target and distribution libraries for Session Manager. Refer to the instructions in the sample job for more information.

Make sure the data sets are allocated on the required volumes.

**Expected Return Codes and Messages:** You will receive a return code of 0 if this job runs correctly.

### 6.1.7 Perform SMP/E Zone Setup (Optional)

If you are using an existing SMP/E environment do not execute this job. If you are allocating a new SMP/E data set for this install, edit, and submit sample job **ISZSMPSU** to create the necessary SMP/E zones.

**Expected Return Codes and Messages:0**

## 6.1.8 Define DDDEF Entries

Edit and submit sample job **ISZDDDEF** to create DDDEF entries for the SMP/E target and distribution libraries for Session Manager. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:** 0

## 6.1.9 Perform SMP/E APPLY

1. Ensure that you have the latest HOLDDATA; then edit and submit sample job ISZAPPLY to perform an SMP/E APPLY CHECK for Session Manager. Consult the instructions in the sample job for more information.

The latest HOLDDATA is available through several different portals, including <http://service.software.ibm.com/holddata/390holddata.html>. The latest HOLDDATA may identify HIPER and FIXCAT APARs for the FMIDs you will be installing. An APPLY CHECK will help you determine if any HIPER or FIXCAT APARs are applicable to the FMIDs you are installing. If there are any applicable HIPER or FIXCAT APARs, the APPLY CHECK will also identify fixing PTFs that will resolve the APARs, if a fixing PTF is available.

You should install the FMIDs regardless of the status of unresolved HIPER or FIXCAT APARs. However, do not deploy the software until the unresolved HIPER and FIXCAT APARs have been analyzed to determine their applicability. That is, before deploying the software either ensure fixing PTFs are applied to resolve all HIPER or FIXCAT APARs, or ensure the problems reported by all HIPER or FIXCAT APARs are not applicable to your environment.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the PRE, ID, REQ, and IFREQ on the APPLY CHECK. The SMP/E root cause analysis identifies the cause only of *errors* and not of *warnings* (SMP/E treats bypassed PRE, ID, REQ, and IFREQ conditions as warnings, instead of errors).

Here are sample APPLY commands:

- a. To ensure that all recommended and critical service is installed with the FMIDs, receive the latest HOLDDATA and use the APPLY CHECK command as follows

```
APPLY S(fmid,fmid,...) CHECK
FORFMID(fmid,fmid,...)
SOURCEID(RSU*)
FIXCAT(IBM.ProductInstall-RequiredService)
GROUPEXTEND .
```

Some HIPER APARs might not have fixing PTFs available yet. You should analyze the symptom flags for the unresolved HIPER APARs to determine if the reported problem is applicable to your environment and if you should bypass the specific ERROR HOLDS in order to continue the installation of the FMIDs.

This method requires more initial research, but can provide resolution for all HIPERs that have fixing PTFs available and are not in a PE chain. Unresolved PEs or HIPERs might still exist and require the use of BYPASS.



- b. To install the FMIDs without regard for unresolved HIPER APARs, you can add the `BYPASS(HOLDCLASS(HIPER))` operand to the `APPLY CHECK` command. This will allow you to install FMIDs even though one or more unresolved HIPER APARs exist. After the FMIDs are installed, use the `SMP/E REPORT ERRSYSMODS` command to identify unresolved HIPER APARs and any fixing PTFs.

```
APPLY S(fmid,fmid,...) CHECK
FORFMID(fmid,fmid,...)
SOURCEID(RSU*)
FIXCAT(IBM.ProductInstall-RequiredService)
GROUPEXTEND
BYPASS(HOLDCLASS(HIPER)) .
..any other parameters documented in the program directory
```

This method is the quicker, but requires subsequent review of the Exception SYSMOD report produced by the `REPORT ERRSYSMODS` command to investigate any unresolved HIPERs. If you have received the latest `HOLDDATA`, you can also choose to use the `REPORT MISSINGFIX` command and specify Fix Category `IBM.ProductInstall-RequiredService` to investigate missing recommended service.

If you bypass `HOLD`s during the installation of the FMIDs because fixing PTFs are not yet available, you can be notified when the fixing PTFs are available by using the APAR Status Tracking (AST) function of ServiceLink or the APAR Tracking function of ResourceLink.

After you take actions that are indicated by the `APPLY CHECK`, remove the `CHECK` operand and run the job again to perform the `APPLY`.

**Note:** The `GROUPEXTEND` operand indicates that `SMP/E` applies all requisite `SYSMOD`s. The requisite `SYSMOD`s might be applicable to other functions.

**Expected Return Codes and Messages from `APPLY CHECK`:** You will receive a return code of 0 if this job runs correctly.

**Expected Return Codes and Messages from `APPLY`:** You will receive a return code of 0 if this job runs correctly.

## 6.1.10 Perform `SMP/E ACCEPT`

Edit and submit sample job `ISZACCTP` to perform an `SMP/E ACCEPT CHECK` for Session Manager. Consult the instructions in the sample job for more information.

To receive the full benefit of the `SMP/E` Causer `SYSMOD` Summary Report, do *not* bypass the `PRE`, `ID`, `REQ`, and `IFREQ` on the `ACCEPT CHECK`. The `SMP/E` root cause analysis identifies the cause of only *errors* but not *warnings* (`SMP/E` treats bypassed `PRE`, `ID`, `REQ`, and `IFREQ` conditions as warnings rather than errors).

Before you use `SMP/E` to load new distribution libraries, it is recommended that you set the `ACCJCLIN` indicator in the distribution zone. In this way, you can save the entries that are produced from `JCLIN` in the distribution zone whenever a `SYSMOD` that contains inline `JCLIN` is accepted. For more information

about the ACCJCLIN indicator, see the description of inline JCLIN in the *SMP/E Commands* book for details.

After you take actions that are indicated by the ACCEPT CHECK, remove the CHECK operand and run the job again to perform the ACCEPT.

**Note:** The GROUPEXTEND operand indicates that SMP/E accepts all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

**Expected Return Codes and Messages from ACCEPT CHECK:** You will receive a return code of 0 if this job runs correctly.

If PTFs that contain replacement modules are accepted, SMP/E ACCEPT processing will link-edit or bind the modules into the distribution libraries. During this processing, the Linkage Editor or Binder might issue messages that indicate unresolved external references, which will result in a return code of 4 during the ACCEPT phase. You can ignore these messages, because the distribution libraries are not executable and the unresolved external references do not affect the executable system libraries.

**Expected Return Codes and Messages from ACCEPT:** You will receive a return code of 0 if this job runs correctly.

### 6.1.11 Run REPORT CROSSZONE

The SMP/E REPORT CROSSZONE command identifies requisites for products that are installed in separate zones. This command also creates APPLY and ACCEPT commands in the SMPPUNCH data set. You can use the APPLY and ACCEPT commands to install those cross-zone requisites that the SMP/E REPORT CROSSZONE command identifies.

After you install Session Manager, it is recommended that you run REPORT CROSSZONE against the new or updated target and distribution zones. REPORT CROSSZONE requires a global zone with ZONEINDEX entries that describe all the target and distribution libraries to be reported on.

For more information about REPORT CROSSZONE, see the SMP/E manuals.

---

## 6.2 Activating Session Manager

The publication *Installation and Customization, GC34-2804* contains the necessary information to customize and use Session Manager.

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| Accuracy of the definition of the installation tasks          | 1            | 2 | 3 | 4 | 5 | N |
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