Program Directory for
Tivoli
Software Distribution for OS/390

Version 03 Release 06, Modification Level 01
Program Number 5697-F03

FMID H0AO600

for Use with
OS/390

Document Date: July 99
Note!

Before using this information and the product it supports, be sure to read the general information under “Notices” on page vii.

ISO 9001 Certification

This product was developed using an ISO 9001 certified quality system.

Certification has been awarded by the Italian quality system certification group, CSQ (Certification No. CISQ/CSQ 9150.IBM7).

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Patch numbers are also provided in this document to assist in locating changes required by this product. Ongoing problem reporting may result in additional patches being created. Therefore, the lists of patches in this document may not be complete. To obtain current service recommendations and to identify current product service requirements, contact your IBM or Tivoli Customer Support Center or refer to this Web site: http://www.support.tivoli.com.

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- OS/400
- ProductPac
- RACF
- RETAIN
- S/390
- ServicePac
- System/390
- SystemPac
- Tivoli
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1.0 Introduction

This program directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of Tivoli Software Distribution for OS/390. This publication refers to Tivoli Software Distribution for OS/390 as Software Distribution. You should read all of this program directory before installing the program and then keep it for future reference. You should also read the Tivoli Software Distribution for OS/390 Release Notes Version 3.6.1.

The program directory contains the following sections:

- 2.0, “Program Materials” on page 3 identifies the basic and optional program materials and documentation for Software Distribution.
- 3.0, “Program Support” on page 9 describes the IBM support available for Software Distribution.
- 4.0, “Program and Service Level Information” on page 10 lists the APARs (program level) and PTFs (service level) incorporated into Software Distribution.
- 5.0, “Installation Requirements and Considerations” on page 11 identifies the resources and considerations for installing and using Software Distribution.
- 6.0, “Installation Instructions” on page 18 provides detailed installation instructions for Software Distribution. It also describes the procedures for activating the functions of Software Distribution, or refers to appropriate publications.
- Appendix A, “Software Distribution Install Logic” on page 24 provides the install logic for Software Distribution.

Before installing Software Distribution, read 3.2, “Preventive Service Planning” on page 9. This section tells you how to find any updates to the information and procedures in this program directory.

Do not use this program directory if you are installing Software Distribution with an MVS Custom-Built Installation Process Offering (CBIPO), SystemPac, or ServerPac. When using these offerings, use the jobs and documentation supplied with the offering. This documentation may point you to specific sections of the program directory as required.

If you are installing Software Distribution using the MVS Custom-Built Product Delivery Offering (CBPDO) (5751-CS3), use the softcopy program directory provided on the CBPDO tape. Your CBPDO contains a softcopy preventive service planning (PSP) upgrade for this product. All service and HOLDDATA for Software Distribution are included on the CBPDO tape.

1.1 Software Distribution Description

Tivoli Software Distribution for OS/390 is a Tivoli licensed program that provides an efficient method to distribute software using profiles to specify the distribution arguments and targets.
1.2 Software Distribution FMIDs

Software Distribution consists of the following FMIDs:

H0AO600
2.0 Program Materials

An IBM program is identified by a program number and a feature number. The program number for Software Distribution is 5697-F03.

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

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

2.1 Basic Machine-Readable Material

The distribution medium for this program is 9-track magnetic tape (written at 6250 BPI), 3480 cartridge, or 4mm cartridge. The tape or cartridge contains all the programs and data needed for installation. It is installed using SMP/E, and is in SMP/E RELFILE format. See 6.0, “Installation Instructions” on page 18 for more information about how to install the program.

Figure 1 describes the tape or cartridge. Figure 2 on page 4 describes the file content of the program tape or cartridge.

Note:
1. If you are installing Software Distribution using the MVS Custom-Built Product Delivery Offering (CBPDO) (5751-CS3), some of the information in these figures may not be valid. Consult the CBPDO documentation for actual values.
2. If you order this product in French, Japanese, Brazilian Portuguese, German, Spanish, Italian, Simplified Chinese, or Korean, be aware that these versions of the product will not be available until August 6, 1999.

<table>
<thead>
<tr>
<th>Medium</th>
<th>Feature Number</th>
<th>Physical Volume</th>
<th>External Label Identification</th>
<th>VOLSER</th>
</tr>
</thead>
<tbody>
<tr>
<td>3480 cart.</td>
<td>5802</td>
<td>1</td>
<td>SOFTWARE DISTR</td>
<td>0AO600</td>
</tr>
<tr>
<td></td>
<td>5812</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5822</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5832</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5842</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5852</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5862</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5872</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5882</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
2.2 Additional Program Material

The distributed code for this product is delivered on CD-ROM and is installed and customized either via the Tivoli Software Installation Service (SIS) graphical user interface (GUI) or by means of a WSIS response file from the command line. Instructions for installing and customizing the code from CD-ROM are provided in the Tivoli Software Distribution for OS/390 Release Notes.

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Form Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software Distribution 3.6 CD-ROMs</td>
<td>LK2T-6047-04</td>
</tr>
<tr>
<td>Software Distribution 3.6.1 CD-ROMs</td>
<td>LK3T-3655-00</td>
</tr>
</tbody>
</table>
2.3 Optional Machine-Readable Material

No optional machine-readable materials are provided for Software Distribution.

2.4 Program Publications

The following sections identify the basic and optional publications for Software Distribution.

**Figure 3 (Page 2 of 2). Additional Program Material**

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Form Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software Distribution 3.6.1 Language Support CD-ROMs</td>
<td>LK3T-4580-00</td>
</tr>
</tbody>
</table>
2.4.1 Basic Program Publications

Figure 4 identifies the basic unlicensed program publications for Software Distribution. One copy of each publication for the selected language will be included when you order the basic materials for Software Distribution. For additional copies, contact your IBM representative.

If you order this product in French, Japanese, Brazilian Portuguese, German, Spanish, Italian, Simplified Chinese, or Korean, be aware that these versions of the product will not be available until August 6, 1999.

<table>
<thead>
<tr>
<th>Publication Title</th>
<th>English</th>
<th>French</th>
<th>Japanese</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tivoli Software Distribution for OS/390 Licensed Program Specification</td>
<td>GC32-0318-00</td>
<td>GC11-1574-00</td>
<td>GC32-0318-00</td>
</tr>
<tr>
<td>Tivoli Software Distribution for OS/390 Release Notes</td>
<td>GI10-8042-00</td>
<td>GI11-0091-00</td>
<td>GB88-7420-00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Publication Title</th>
<th>Brazilian Portuguese</th>
<th>German</th>
<th>Spanish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tivoli Software Distribution for OS/390 Licensed Program Specification</td>
<td>G517-6832-00</td>
<td>GC32-0318-00</td>
<td>GC32-0318-00</td>
</tr>
<tr>
<td>Tivoli Software Distribution for OS/390 Release Notes</td>
<td>G517-6834-00</td>
<td>GI10-8042-00</td>
<td>GI10-5422-00</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Publication Title</th>
<th>Italian</th>
<th>Simplified Chinese</th>
<th>Korean</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tivoli Software Distribution for OS/390 Licensed Program Specification</td>
<td>GC32-0318-00</td>
<td>GB84-0074-00</td>
<td>GA30-0780-00</td>
</tr>
<tr>
<td>Tivoli Software Distribution for OS/390 Release Notes</td>
<td>GI10-8042-00</td>
<td>GB84-0077-00</td>
<td>GA30-0779-00</td>
</tr>
</tbody>
</table>

2.4.2 Additional Program Publications

Figure 5 identifies the additional unlicensed program publications for Software Distribution. One copy of each publication for the selected language will be included when you order the basic materials for Software Distribution. For additional copies, contact your IBM representative.

<table>
<thead>
<tr>
<th>Publication Title</th>
<th>English</th>
<th>French</th>
<th>Japanese</th>
</tr>
</thead>
<tbody>
<tr>
<td>TME 10 Software Distribution 3.6 Release Notes</td>
<td>GI10-3014-02</td>
<td>GI11-0022-01</td>
<td>GB88-7852-01</td>
</tr>
<tr>
<td>TME 10 Software Distribution 3.6 User's Guide</td>
<td>GC31-8330-04</td>
<td>GC11-1474-01</td>
<td>GC88-7877-02</td>
</tr>
</tbody>
</table>
2.4.3 Optional Program Publications

No optional publications are provided for Software Distribution.

2.5 Program Source Materials

Customers with access to View Program Listings (VPL), such as through S/390 SoftwareXcel, can use the VPL facility for online viewing of available program listings. Those customers without access to VPL can contact their IBM representative.

2.6 Publications Useful During Installation

The publications listed in Figure 6 may be useful during the installation of Software Distribution. To order copies, contact your IBM representative.
**Figure 6. Publications Useful During Installation**

<table>
<thead>
<tr>
<th>Publication Title</th>
<th>Form Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS/390 SMP/E Commands</td>
<td>SC28-1805</td>
</tr>
<tr>
<td>OS/390 SMP/E Message and codes</td>
<td>SC28-1738</td>
</tr>
<tr>
<td>OS/390 SMP/E Reference</td>
<td>SC28-1806</td>
</tr>
<tr>
<td>OS/390 SMP/E User's Guide</td>
<td>SC28-1740</td>
</tr>
<tr>
<td>MVS Custom-Built Offering Planning and Installation</td>
<td>SC23-0352</td>
</tr>
<tr>
<td>OS/390 OpenEdition Planning</td>
<td>SC28-1890</td>
</tr>
<tr>
<td>IBM TCP/IP OpenEdition: Configuration Guide</td>
<td>SC31-8304</td>
</tr>
<tr>
<td>TME 10 Framework Planning and Installation Guide</td>
<td>SC31-8432</td>
</tr>
</tbody>
</table>
3.0 Program Support

This section describes the IBM support available for Software Distribution.

3.1 Program Services

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

3.2 Preventive Service Planning

Before installing Software Distribution, you should review the current Preventive Service Planning (PSP) information. If you obtained Software Distribution as part of a CBPDO, there is HOLDDATA and PSP information included on the CBPDO tape.

If you obtained Software Distribution on a product tape, or if the CBPDO is more than two weeks old when you install it, you should contact the IBM Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

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 Software Distribution are:

<table>
<thead>
<tr>
<th>UPGRADE</th>
<th>SUBSET</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIV361OS390</td>
<td>SWDIST</td>
<td>Tivoli Software Distribution base function</td>
</tr>
</tbody>
</table>

3.3 Statement of Support Procedures

Report any difficulties you have using this program to your IBM Support Center. If an APAR is required, the Support Center will provide the address to which any needed documentation can be sent.

Figure 8 identifies the component IDs (COMPID) for Software Distribution.

<table>
<thead>
<tr>
<th>FMID</th>
<th>COMPID</th>
<th>Component Name</th>
<th>RETAIN Release</th>
</tr>
</thead>
<tbody>
<tr>
<td>H0AO600</td>
<td>5697F0301</td>
<td>Tivoli Software Distribution base function</td>
<td>600</td>
</tr>
</tbody>
</table>
4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of Software Distribution. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs integrated. Information about the cumulative service tape is also provided.

4.1 Program Level Information

No APARs have been incorporated into Software Distribution.

4.2 Service Level Information

No PTFs against this release of Software Distribution have been incorporated into the product tape.

4.3 Cumulative Service Tape

A cumulative service tape, containing PTFs not incorporated into this release, might be included with this program. Installation instructions for cumulative service tapes can be found in the SMP/E publications.

If you received this product as part of a CBPDO or a ProductPac, PTFs not incorporated into this release are provided on the tape, and a separate cumulative service tape will not be provided.
5.0 Installation Requirements and Considerations

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

- **Driving system**: the system used to install the program.
- **Target system**: the system on which the program is installed.

In many cases, the same system can be used as both a driving system and a target system. However, you may want to set up a clone of your system to use as a target system by making a separate IPL-able copy of the running system. The clone should 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.

Some cases where two systems should be used include the following:

- When installing a new level of a product that is already installed, the new product will delete the old one. By installing onto a separate target system, you can test the new product while still keeping the old one in production.
- When installing a product that shares libraries or load modules with other products, the installation can disrupt the other products. Installing onto a test system or clone will allow you to assess these impacts without disrupting your production system.

5.1 Driving System Requirements

This section describes the environment of the driving system required to install Software Distribution.

5.1.1 Machine Requirements

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

5.1.2 Programming Requirements

<table>
<thead>
<tr>
<th>Program Number</th>
<th>Product Name and Minimum VRM/Service Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any one of the following:</td>
<td></td>
</tr>
<tr>
<td>5645-001</td>
<td>OS/390 Version 1 Release 1 with PTF UR51070</td>
</tr>
<tr>
<td></td>
<td>OS/390 Version 1 Release 2 with PTF UR51071</td>
</tr>
<tr>
<td></td>
<td>OS/390 Version 1 Release 3 with PTF UR51067</td>
</tr>
<tr>
<td>5647-A01</td>
<td>OS/390 Version 2 Release 4 with PTF UR51067</td>
</tr>
</tbody>
</table>
5.2 Target System Requirements

This section describes the environment of the target system required to install and use Software Distribution.

5.2.1 Machine Requirements

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

5.2.2 Programming Requisites

5.2.2.1 Minimum Requisites: A minimum requisite is defined as one of the following:

1. **Installation Requisite**: A product that is required at installation time. i.e. this product will not install successfully unless this requisite is met. This includes products that are specified as REQs, PREs, or CALLLIBs.

2. **Run Time Requisite**: A product that is not required for the successful installation of this product, but is needed at run time in order for this product to work.

5.2.2.2 Functional Requisites: A functional requisite is defined as a product that is not required for the successful installation of this product or for the base function of the product, but is needed at run time for a specific function of this product to work. This includes products that are specified as IF REQs.

---

**Note:** * OS/390 TCP/IP service should be at PTF UQ11949 for Version 3 Release 2 or higher

---

**Figure 9 (Page 2 of 2). Minimum Requisites**

<table>
<thead>
<tr>
<th>Program Number</th>
<th>Product Name and Minimum VRM/Service Level</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OS/390 Version 2 Release 5 or 6 with PTF UR51068</td>
</tr>
<tr>
<td></td>
<td>OS/390 Version 2 Release 7 or higher</td>
</tr>
</tbody>
</table>

**Figure 10. Minimum Requisites**

<table>
<thead>
<tr>
<th>Program Number</th>
<th>Product Name and Minimum VRM/Service Level</th>
<th>Install Req?</th>
</tr>
</thead>
<tbody>
<tr>
<td>5697-D10</td>
<td>Tivoli Management Framework for OS/390 V3R6M1</td>
<td>Yes</td>
</tr>
<tr>
<td>Any one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5645-001</td>
<td>OS/390 Version 1 Release 3</td>
<td>Yes</td>
</tr>
<tr>
<td>5647-A01</td>
<td>OS/390 Version 2 Release 4 or higher</td>
<td>Yes</td>
</tr>
</tbody>
</table>
5.2.2.3 Toleration/Coexistence Requisites: A toleration/coexistence requisite is defined as a product which must be present on a sharing system. 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 at different time intervals. Software Distribution does not have any toleration/coexistence requisites.

5.2.2.4 Incompatibility (Negative) Requisites: A negative requisite identifies products which must not be installed on the same system as this product. Software Distribution does not have any negative requisites.

5.2.3 DASD Storage Requirements

Software Distribution libraries can reside on 3390 DASD.

Figure 12 lists the total space required for each type of library.

<table>
<thead>
<tr>
<th>Library Type</th>
<th>Total Space Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target</td>
<td>3 Tracks of 3390</td>
</tr>
<tr>
<td>Distribution</td>
<td>684 Tracks of 3390</td>
</tr>
<tr>
<td>HFS</td>
<td>408 Tracks of 3390</td>
</tr>
</tbody>
</table>
Note: The HFS space reported above must be available in the Hierarchical File System already defined for TME 10 Framework for OS/390 V3R6M1.

Notes:

1. The data set sizes specified contain 15% extra space. You may wish to revise these numbers based on your plans for adding additional function or service.

2. IBM recommends use of system determined blocksize for efficient DASD utilization for all non-RECFM U data sets. For RECFM U data sets, IBM recommends a blocksize of 32760, which is the most efficient from a performance and DASD utilization perspective.

   If you choose not to use system determined blocksize, use the blocksize and numbers of block specified to allocate the data sets. Data sets can be reblocked to a larger size. Please note that the maximum allowable blocksize will depend on the type of DASD on which the dataset will reside; for example, the blocksize of data sets on a 3350 DASD cannot exceed 19,069.

3. Abbreviations used for the data set type are:

   U Unique data set used by only the FMIDs listed. In order to determine the correct storage needed for this data set, this table provides all required information; no other tables (or program directories) need to be referenced for the data set size.

   S Shared data set used by more than the FMIDs listed. In order to determine the correct storage needed for this data set, the storage size given in this table needs to be added to 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 one and reclaim the space used by the old release and any service that had been installed. You can determine whether or not 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 on the names and sizes of the required data sets, please refer to 6.1.8, “Allocate SMP/E Target and Distribution Libraries” on page 20.

<table>
<thead>
<tr>
<th>Library</th>
<th>DDNAME</th>
<th>D</th>
<th>R</th>
<th>L</th>
<th>No. of 3380/9345 Trks</th>
<th>No. of 3390 Trks</th>
<th>No. of DIR Blks</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMPWRK1</td>
<td>S PO FB</td>
<td>80</td>
<td>75</td>
<td>75</td>
<td>70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SMPWRK2</td>
<td>S PO FB</td>
<td>80</td>
<td>75</td>
<td>75</td>
<td>70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SMPWRK3</td>
<td>S PO FB</td>
<td>80</td>
<td>75</td>
<td>75</td>
<td>70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SMPWRK4</td>
<td>S PO FB</td>
<td>80</td>
<td>75</td>
<td>75</td>
<td>70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SMPWRK6</td>
<td>S PO FB</td>
<td>80</td>
<td>75</td>
<td>75</td>
<td>70</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The following table provides an estimate of the storage needed in the SMP/E data sets for Software Distribution. The estimates must be added to those of any other programs and service being installed to determine the total additional storage requirements.

<table>
<thead>
<tr>
<th>Library</th>
<th>DDNAME</th>
<th>D</th>
<th>R</th>
<th>L</th>
<th>No. of 3380/9345 Trks</th>
<th>No. of 3390 Trks</th>
<th>No. of DIR Blks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>T</td>
<td>S</td>
<td>E</td>
<td>R</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Y</td>
<td>O</td>
<td>C</td>
<td>E</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>P</td>
<td>R</td>
<td>F</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>E</td>
<td>G</td>
<td>M</td>
<td>L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SYSUT1</td>
<td>U PS</td>
<td>75</td>
<td>75</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SYSUT2</td>
<td>U PS</td>
<td>75</td>
<td>75</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SYSUT3</td>
<td>U PS</td>
<td>75</td>
<td>75</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SYSUT4</td>
<td>U PS</td>
<td>75</td>
<td>75</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The following figures list the target and distribution libraries (data sets) and their attributes required to install Software Distribution. The storage requirements of Software Distribution must be added to the storage required by other programs having data in the same data set (library).

<table>
<thead>
<tr>
<th>Library</th>
<th>DDNAME</th>
<th>D</th>
<th>R</th>
<th>L</th>
<th>No. of 3380/9345 Trks</th>
<th>No. of 3390 Trks</th>
<th>No. of DIR Blks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>T</td>
<td>S</td>
<td>E</td>
<td>R</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Y</td>
<td>O</td>
<td>C</td>
<td>E</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>P</td>
<td>R</td>
<td>F</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>E</td>
<td>G</td>
<td>M</td>
<td>L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SMPMTS</td>
<td>S PO FB</td>
<td>80</td>
<td>30</td>
<td>30 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SMPPTS</td>
<td>S PO FB</td>
<td>80</td>
<td>30</td>
<td>30 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SMPSCDS</td>
<td>S PO FB</td>
<td>80</td>
<td>30</td>
<td>30 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SMPSTS</td>
<td>S PO FB</td>
<td>80</td>
<td>2</td>
<td>2 10</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Library</th>
<th>DDNAME</th>
<th>D</th>
<th>R</th>
<th>L</th>
<th>No. of 3380/9345 Trks</th>
<th>No. of 3390 Trks</th>
<th>No. of DIR Blks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>T</td>
<td>S</td>
<td>E</td>
<td>R</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Y</td>
<td>O</td>
<td>C</td>
<td>E</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>P</td>
<td>R</td>
<td>F</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>E</td>
<td>G</td>
<td>M</td>
<td>L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SHSDSAMP</td>
<td>U PO FB</td>
<td>80</td>
<td>4</td>
<td>3 5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SHSDPT01 to SHSDPT26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Note: The following libraries are OpenEdition (UNIX) libraries and have no file attributes but map to the directories as indicated:

<table>
<thead>
<tr>
<th>DDNAME</th>
<th>Path Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHSDPT01</td>
<td>/usr/lpp/Tivoli/bin/generic/TME/COURIER/USERLINK/IBM/</td>
</tr>
<tr>
<td>SHSDPT02</td>
<td>/usr/lpp/Tivoli/bin/os390/bin/IBM/</td>
</tr>
<tr>
<td>SHSDPT03</td>
<td>/usr/lpp/Tivoli/bin/os390/TAS/HTTPd/cgi-bin/Courier/IBM/</td>
</tr>
<tr>
<td>SHSDPT04</td>
<td>/usr/lpp/Tivoli/bin/os390/TME/COURIER/IBM/</td>
</tr>
<tr>
<td>SHSDPT05</td>
<td>/usr/lpp/Tivoli/bin/os390/TME/COURIER/SCRIPTS/IBM/</td>
</tr>
<tr>
<td>SHSDPT06</td>
<td>/usr/lpp/Tivoli/bin/os390/TME/COURIER/APDO/IBM/</td>
</tr>
<tr>
<td>SHSDPT07</td>
<td>/usr/lpp/Tivoli/bin/os390/TME/COURIER/APO/IBM/</td>
</tr>
<tr>
<td>SHSDPT08</td>
<td>/usr/lpp/Tivoli/bin/os390/TME/COURIER/APPOL/IBM/</td>
</tr>
<tr>
<td>SHSDPT09</td>
<td>/usr/lpp/Tivoli/bin/os390/TME/COURIER/FBE/IBM/</td>
</tr>
<tr>
<td>SHSDPT10</td>
<td>/usr/lpp/Tivoli/bin/os390/TME/COURIER/FPDO/IBM/</td>
</tr>
<tr>
<td>SHSDPT11</td>
<td>/usr/lpp/Tivoli/bin/os390/TME/COURIER/FPO/IBM/</td>
</tr>
<tr>
<td>SHSDPT12</td>
<td>/usr/lpp/Tivoli/bin/os390/TME/COURIER/FPPOL/IBM/</td>
</tr>
<tr>
<td>SHSDPT13</td>
<td>/usr/lpp/Tivoli/bin/os390/TME/COURIER/PC_BROWSE/IBM/</td>
</tr>
<tr>
<td>SHSDPT14</td>
<td>/usr/lpp/Tivoli/bin/os390/TME/COURIER/USERLINK/IBM/</td>
</tr>
<tr>
<td>SHSDPT15</td>
<td>/usr/lpp/Tivoli/SMPE/COURIER-3.6.1/IBM/</td>
</tr>
<tr>
<td>SHSDPT16</td>
<td>/usr/lpp/Tivoli/man/os390/cat1/IBM/</td>
</tr>
<tr>
<td>SHSDPT17</td>
<td>/usr/lpp/Tivoli/man/os390/cat5/IBM/</td>
</tr>
<tr>
<td>SHSDPT18</td>
<td>/usr/lpp/Tivoli/msg_cat/fr_FR/IBM/</td>
</tr>
<tr>
<td>SHSDPT19</td>
<td>/usr/lpp/Tivoli/msg_cat/ja_JP/IBM/</td>
</tr>
<tr>
<td>SHSDPT20</td>
<td>/usr/lpp/Tivoli/msg_cat/pt_BR/IBM/</td>
</tr>
<tr>
<td>SHSDPT21</td>
<td>/usr/lpp/Tivoli/msg_cat/C/IBM/</td>
</tr>
<tr>
<td>SHSDPT22</td>
<td>/usr/lpp/Tivoli/msg_cat/de/IBM/</td>
</tr>
<tr>
<td>SHSDPT23</td>
<td>/usr/lpp/Tivoli/msg_cat/es/IBM/</td>
</tr>
<tr>
<td>SHSDPT24</td>
<td>/usr/lpp/Tivoli/msg_cat/it/IBM/</td>
</tr>
<tr>
<td>SHSDPT25</td>
<td>/usr/lpp/Tivoli/msg_cat/ko/IBM/</td>
</tr>
<tr>
<td>SHSDPT26</td>
<td>/usr/lpp/Tivoli/msg_cat/zh_CN/IBM/</td>
</tr>
</tbody>
</table>
### 5.3 FMIDs Deleted

Installing Software Distribution will not delete any FMIDs.

### 5.4 Special Considerations

Software Distribution has no special considerations for the target system.

---

**Figure 17. Storage Requirements for Software Distribution Distribution Libraries**

<table>
<thead>
<tr>
<th>Library</th>
<th>DDNAME</th>
<th>D</th>
<th>R</th>
<th>L</th>
<th>No. of Trks</th>
<th>No. of DIR Blks</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHSDSAMP</td>
<td>U PO FB</td>
<td>80</td>
<td>4</td>
<td>3</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>AHSDHFS1</td>
<td>U PO VB</td>
<td>32000</td>
<td>810</td>
<td>680</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>
6.0 Installation Instructions

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

Please note the following:

- If you want to install Software Distribution 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.
- Sample jobs have been provided to help perform some or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries required for SMP/E execution have been defined in the appropriate zones.
- The SMP/E dialogs may be used instead of the sample jobs to accomplish the SMP/E installation steps.

6.1 Installing Software Distribution

6.1.1 SMP/E Considerations for Installing Software Distribution

This release of Software Distribution is installed using the SMP/E RECEIVE, APPLY, and ACCEPT commands. The SMP/E dialogs may be used to accomplish the SMP/E installation steps.

6.1.2 SMP/E Environment

All SMP/E installation jobs provided assume that all necessary DD statements for the execution of SMP/E are defined using DDDEFS.

Sample jobs are provided to assist you in installing Software Distribution. After the RECEIVE step has been completed, the sample jobs can be found in SMPTLIB: IBM.H0AO600.F1. Make a copy of these jobs in your own library and modify them to use during the installation of Software Distribution. The sample jobs are:

- **HSDRECV**: Sample RECEIVE job
- **HSDALLOC**: Sample job to allocate target and distribution libraries
- **HSDCSIIN**: Sample job to update the CSI entries for H0AO600.
- **HSDMKDIR**: Sample REXX EXEC used to create the HFS structure for Software Distribution.
- **HSDISMKD**: Sample job used to start the HSDMKDIR Exec.
- **HSDDDDEF**: Sample job to define SMP/E DDDEFS
- **HSDAPPLY**: Sample APPLY job
- **HSDACCEP**: Sample ACCEPT job
Note: Software Distribution must be installed into the same CSI as the Tivoli Management Framework for OS/390 V3R6M1 Server/Gateway.

In the sample SMP/E jobs provided, the name of the SMP/E CSI is hlq.frmwork.CSI. The global zone name in the SMP/E CSI is GLOBAL. The distribution zone name is frwdzn. The target zone name is frwtzn. The sample jobs should be updated to reflect the CSI and zone names used at your installation.

6.1.3 SMP/E Options Subentry Values

The recommended values for some SMP/E CSI subentries are shown in Figure 18. Use of values lower than these may result in failures in the installation process. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. Refer to the SMP/E manuals for instructions on updating the global zone.

<table>
<thead>
<tr>
<th>SUB-ENTRY</th>
<th>Value</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSSPACE</td>
<td>400,400,400</td>
<td>Values defined by the system SMP/E environment</td>
</tr>
<tr>
<td>PEMAX</td>
<td>9999</td>
<td>The SMP/E default is larger than what can be specified here</td>
</tr>
</tbody>
</table>

6.1.4 Unload the Sample JCL from the Product Tape

Sample installation jobs are provided on the distribution tape to help you install Software Distribution. The following sample JCL will copy the Software Distribution jobs from the tape. Add a job card and modify the parameters in boldface to uppercase values to meet your site's requirements before submitting.

```bash
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=A
//IN DD DSN=IBM.H0A0600.F1,UNIT=tunit,Vol=SER=0A0600,
//      LABEL=(2,SL),Disp=(OLD,KEEP)
//OUT DD DSNAME=jcl-library-name,
//      Disp=(NEW,CATLG,DELETE),
//      Vol=SER=dasdv01,Unit=dunit,
//      DCB=*.STEP1.IN,Space=(32000,(3,2,10))
//SYSUT3 DD UNIT=SYSDA,Space=(Cyl,(1,1))
//SYSIN DD *
//COPY INDD=IN,OUTDD=OUT
/*

where tunit is the unit value matching the product tape or cartridge, jcl-library-name is the name of the data set where the sample jobs will reside, dasdv01 is the volume serial of the DASD device where the data set will reside, and dunit is the DASD unit type of the volume.

You can also access the sample installation jobs by performing an SMP/E RECEIVE for FMID fmid, and then copying the jobs from dataset hlq.IBM.fmid.file to a work dataset for editing and submission.
6.1.5 Initialize SMP/E CSI (Optional)

You may update the SMP/E data set for Software Distribution with the job HSDCSIIN in the INSTALL library.

This job creates entries for Software Distribution function as specified in the supplied sample. For example a specific OPTIONS that define a customized DSPREFIX for the Software Distribution.

Edit, customize and submit sample job HSDCSIIN to update the SMP/E CSI for Software Distribution.

Expected Return Codes and Messages:
RC=00

6.1.6 RECEIVE the Cumulative Service Tape

NOTE: This step is bypassed if receiving the product from a CBPDO.

Expected Return Codes and Messages:
RC=00

6.1.7 Perform SMP/E RECEIVE

Edit and submit sample job HSDRECV to perform the SMP/E RECEIVE for Software Distribution. Consult the instructions in the sample job for more information.

NOTE: if you obtained Software Distribution as part of a CBPDO, you can use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the Software Distribution FMIDs as well as any service, HOLDDATA, or preventive service planning (PSP) information included on the CBPDO tape. For more information, refer to the documentation included with the CBPDO.

Expected Return Codes and Messages:
RC=00

6.1.8 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job HSDLALLOC to allocate the SMP/E target and distribution libraries for Software Distribution. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages:
RC=00
### 6.1.9 Create Hierarchical File System Structure

Create the Hierarchical File System structure by executing the REXX EXEC program `HSDMKDIR`.

**Note:** Before you execute this EXEC, a MountPoint created by *Tivoli Management Framework for OS/390 V3R6M1* must be already available in the format:

- `-PathPrefix-/usr/lpp/Tivoli`

The HFS space required by Software Distribution must be available in the Hierarchical File System already defined for Tivoli Management Framework for OS/390 V3R6M1.

Customize the `-PathPrefix-` field in sample job `HSDISMKD` and submit the sample job to execute the REXX EXEC program `HSDMKDIR`. This job must be run by a user ID that has an active *superuser* authority.

Consult the instructions in sample job `HSDISMKD` for more information. Check the SYSOUT held OUTPUT for process details.

**Expected Return Codes and Messages:**

RC=00

### 6.1.10 Create DDDEF Entries

Edit and submit sample job `HSDDDDEF` to create DDDEF entries for the SMP/E target, distribution libraries and OpenEdition paths in HFS for Software Distribution. Consult the instructions in the sample job for more information.

**Expected Return Codes and Messages:**

RC=00

### 6.1.11 Perform SMP/E APPLY CHECK

Edit and submit sample job `HSDAPPLY` to perform an SMP/E APPLY CHECK for Software Distribution. 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 following on the APPLY CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis identifies the cause only of *ERRORS* and not of *WARNINGS* (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

The GROUPEXTEND operand indicates that SMP/E apply all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

**Expected Return Codes and Messages:**

RC=00
6.1.12 Perform SMP/E APPLY

Edit sample job HSDAPPLY by removing the CHECK parameter in the APPLY statement and submit it to perform an SMP/E APPLY for Software Distribution. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages:
RC=00

6.1.13 Complete the Installation Using SIS

After performing the SMP/E APPLY, you must complete the installation process using Tivoli Software Installation Service (SIS). See the publication Tivoli Software Distribution for OS/390 Release Notes (GI10-8042-00) for step-by-step instructions on installing Tivoli Software Distribution.

Note: The instructions contained in Tivoli Software Distribution for OS/390 Release Notes can also be used to install Tivoli Software Distribution to distributed systems.

Once you complete the SIS portion of the installation, return to this Program Directory to perform the SMP/E ACCEPT.

6.1.14 Perform SMP/E ACCEPT CHECK

Edit and submit sample job HSDACCEP to perform an SMP/E ACCEPT CHECK for Software Distribution. 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 following on the ACCEPT CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis identifies the cause only of ERRORS and not of WARNINGS (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

The GROUPEXTEND operand indicates that SMP/E accept all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

Expected Return Codes and Messages:
RC=00

6.1.15 Perform SMP/E ACCEPT

Edit sample job HSDACCEP by removing the CHECK parameter in the ACCEPT statement and submit it to perform an SMP/E ACCEPT for Software Distribution. Consult the instructions in the sample job for more information.

Before using SMP/E to load new distribution libraries, it is recommended that you set the ACCJCLIN indicator in the distribution zone. This will cause entries produced from JCLIN to be saved in the
distribution zone whenever a SYSMOD containing inline JCLIN is ACCEPTed. For more information on
the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E manuals.

**Expected Return Codes and Messages:**

RC=00

If PTFs containing replacement modules are being ACCEPTed, SMP/E ACCEPT processing will
linkededit/bind the modules into the distribution libraries. During this processing, the Linkage Editor or Binder
may issue messages documenting unresolved external references, resulting in a return code of 4 from the
ACCEPT step. These messages can be ignored, because the distribution libraries are not executable and
the unresolved external references will not affect the executable system libraries.
Appendix A. Software Distribution Install Logic

A.1 SMP/E Modification Control Statements

The SMP/E Modification Control Statements (SMPMCS) for Software Distribution are contained in the SMPMCS file on the installation tape. The SMPMCS for each FMID in the product will be loaded to the SMPPTS dataset, with a member name matching the FMID, when the FMID is SMP/E RECEIVEd. You may browse or print these members using TSO/E, ISPF, or IEBGENER (or IEBPTPCH).

A.2 SMP/E JCLIN

No JCLIN is provided for Software Distribution for OS/390.
Reader’s Comments

Program Directory for Tivoli Software Distribution for OS/390 Version 03 Release 06, Modification Level 01

You may use this form to comment about this document, its organization, or subject matter with the understanding that IBM may use or distribute whatever information you supply in any way it believes appropriate without incurring any obligation to you.

For each of the topics below please indicate your satisfaction level by circling your choice from the rating scale. If a statement does not apply, please circle N.

**RATING SCALE**

<table>
<thead>
<tr>
<th>very satisfied</th>
<th>&lt;=</th>
<th>very dissatisfied</th>
<th>not applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
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<td></td>
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<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N</td>
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</tbody>
</table>

**Satisfaction**

<table>
<thead>
<tr>
<th>Ease of product installation</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contents of program directory</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>N</td>
</tr>
<tr>
<td>Installation Verification Programs</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>N</td>
</tr>
<tr>
<td>Time to install the product</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>N</td>
</tr>
<tr>
<td>Readability and organization of program directory tasks</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>N</td>
</tr>
<tr>
<td>Necessity of all installation tasks</td>
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<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>N</td>
</tr>
<tr>
<td>Accuracy of the definition of the installation tasks</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>N</td>
</tr>
<tr>
<td>Technical level of the installation tasks</td>
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<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>N</td>
</tr>
<tr>
<td>Ease of getting the system into production after installation</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>N</td>
</tr>
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</table>

How did you order this product?

____ CBIPO
____ CBPDO
____ CustomPac
____ ServerPac
____ Independent
____ Other

Is this the first time your organization has installed this product?

____ Yes
____ No

Were the people who did the installation experienced with the installation of MVS products?

____ Yes
____ No

If yes, how many years? ____
If you have any comments to make about your ratings above, or any other aspect of the product installation, please list them below:

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Please provide the following contact information:

________________________________________________________________________
Name and Job Title
________________________________________________________________________
Organization
________________________________________________________________________
Address
________________________________________________________________________
Telephone

Thank you for your participation.

Please send the completed form to (or give to your IBM representative who will forward it to the Tivoli Software Distribution for OS/390 Development group):

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