



**Program Directory for
IBM Sterling
Connect:Direct for z/OS
Standard Edition**

V05.01.01

Program Number 5655-X09

FMIDs HDGA510, JDGA511

for Use with
z/OS V1.11.00 and higher with zNALC

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Note

Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 28.

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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 Sterling Connect:Direct for z/OS Standard Edition. This publication refers to IBM Sterling Connect:Direct for z/OS Standard Edition as Sterling Connect:Direct Standard Edition.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 3 identifies the basic and optional program materials and documentation for Sterling Connect:Direct Standard Edition.
- 3.0, “Program Support” on page 7 describes the IBM support available for Sterling Connect:Direct Standard Edition.
- 4.0, “Program and Service Level Information” on page 9 lists the APARs (program level) and PTFs (service level) that have been incorporated into Sterling Connect:Direct Standard Edition.
- 5.0, “Installation Requirements and Considerations” on page 11 identifies the resources and considerations that are required for installing and using Sterling Connect:Direct Standard Edition.
- 6.0, “Installation Instructions” on page 19 provides detailed installation instructions for Sterling Connect:Direct Standard Edition. It also describes the procedures for activating the functions of Sterling Connect:Direct Standard Edition, or refers to appropriate publications.

Before installing Sterling Connect:Direct Standard Edition, 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 7 tells you how to find any updates to the information and procedures in this Program Directory.

Sterling Connect:Direct Standard Edition 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 Sterling Connect:Direct Standard Edition are included on the CBPDO tape.

Do not use this program directory if you install Sterling Connect:Direct Standard Edition 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.

1.1 Sterling Connect:Direct Standard Edition Description

IBM Sterling Connect:Direct for z/OS Standard Edition is peer-to-peer file-based integration middleware optimized for assured delivery, high-volume and secure data exchange within and between enterprises. It is optimized for high performance and moves files containing any type of data across multiple platforms, disparate file systems, and disparate media.

Sterling Connect:Direct Standard Edition enables business to:

- Move large amounts of data internally and externally
- Share information with business partners
- Schedule business information-related application activities
- Automate data distribution
- Control and audit network activities
- Maintain network security
- Use one common command structure for information management with platform-specific interfaces

IBM Sterling Connect:Direct for z/OS Standard Edition is licensed using a simultaneous metric.

Note: Simultaneous Session is a unit of measure by which the Program can be licensed. A session is an active file transfer or other active communications connection between the Program running on one physical or virtual computer and any software running on another physical or virtual computer. Licensee must obtain entitlements sufficient to cover the highest number of sessions that are or have been simultaneously in existence.

1.2 Sterling Connect:Direct Standard Edition FMIDs

Sterling Connect:Direct Standard Edition consists of the following FMIDs:

HDGA510 - Base

JDGA511 - License Feature (required)

2.0 Program Materials

An IBM program is identified by a program number. The program number for Sterling Connect:Direct Standard Edition is 5655-X09.

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 Sterling Connect:Direct Standard Edition. 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 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 19 for more information about how to install the program.

You can find information about the physical media for the basic machine-readable materials for Sterling Connect:Direct Standard Edition in the *CBPDO Memo To Users Extension*.

Figure 1 describes the program file content for Sterling Connect:Direct Standard Edition for FMID HDGA510. You can refer to the *CBPDO Memo To Users Extension* to see where the files reside on the tape.

Notes:

1. The data set attributes in this table must be used in the JCL of jobs that read the data sets. However, because the data sets are in IEBCOPY *unloaded format, their actual attributes might be different.
2. If any RELFILEs are identified as PDSEs, ensure that SMPTLIB data sets are allocated as PDSEs.

Figure 1 (Page 1 of 2). Program File Content for HDGA510

| Name | ORG | RECFM | LEN | BLK SIZE |
|----------------|------|-------|-----|----------|
| SMPMCS | SEQ | FB | 80 | 8800 |
| IBM.HDGA510.F1 | PDS | FB | 80 | 8800 |
| IBM.HDGA510.F2 | PDSE | U | 0 | 6144 |
| IBM.HDGA510.F3 | PDSE | U | 0 | 6144 |

Figure 1 (Page 2 of 2). Program File Content for HDGA510

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|----------------|-------------|-----------------------|-----------------------|-------------|
| IBM.HDGA510.F4 | PDS | VB | 2048 | 23476 |
| IBM.HDGA510.F5 | PDS | FB | 80 | 8800 |
| IBM.HDGA510.F6 | PDS | FB | 80 | 8800 |
| IBM.HDGA510.F7 | PDS | FB | 80 | 8800 |
| IBM.HDGA510.F8 | PDS | FB | 80 | 8800 |

Figure 2 describes the program file content for Sterling Connect:Direct Standard Edition for FMID JDGA511. You can refer to the *CBPDO Memo To Users Extension* to see where the files reside on the tape.

Notes:

1. The data set attributes in this table must be used in the JCL of jobs that read the data sets. However, because the data sets are in IEBCOPY *unloaded format, their actual attributes might be different.
2. If any RELFILEs are identified as PDSEs, ensure that SMPTLIB data sets are allocated as PDSEs.

Figure 2. Program File Content for JDGA511

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|----------------|-------------|-----------------------|-----------------------|-------------|
| SMPMCS | SEQ | FB | 80 | 8800 |
| IBM.JDGA511.F1 | PDS | FB | 80 | 8800 |
| IBM.JDGA511.F2 | PDSE | U | 0 | 6144 |
| IBM.JDGA511.F3 | PDS | FB | 80 | 8800 |

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for Sterling Connect:Direct Standard Edition.

2.3 Program Publications

The following sections identify the basic and optional publications for Sterling Connect:Direct Standard Edition.

2.3.1 Basic Program Publications

Figure 3 identifies the basic unlicensed program publications for Sterling Connect:Direct Standard Edition. One copy of each of these publications is included when you order the basic materials for Sterling Connect:Direct Standard Edition. Additional copies can be obtained from the IBM Publications Website at URL: <http://www.ibm.com/shop/publications/order/> Contact your IBM representative for further assistance.

| Publication Title | Where Found |
|---|--------------------|
| IBM Sterling Connect:Direct for z/OS Administration Guide | CD |
| IBM Sterling Connect:Direct for z/OS User Guide | CD |
| IBM Sterling Connect:Direct for z/OS Configuration Guide | CD |
| IBM Sterling Connect:Direct for z/OS Quick Reference Guide | CD |
| IBM Sterling Connect:Direct for z/OS CICS Administration and User Guide | CD |
| IBM Sterling Connect:Direct for z/OS Facilities Guide | CD |
| IBM Sterling Connect:Direct Secure Plus for z/OS Implementation Guide | CD |
| IBM Sterling Connect:Direct Processes Language Reference Guide | CD |
| IBM Sterling Connect:Direct Overview | CD |
| IBM Sterling Connect:Direct Compatibility and Connectivity Chart | CD |

There are no licensed publications for Sterling Connect:Direct Standard Edition.

2.3.2 Optional Program Publications

No optional publications are provided for Sterling Connect:Direct Standard Edition.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for Sterling Connect:Direct Standard Edition.

2.5 Publications Useful During Installation

You might want to use the publications listed in Figure 4 on page 6 during the installation of Sterling Connect:Direct Standard Edition. To order copies, contact your IBM representative or visit the IBM Publications Center at: <http://www.ibm.com/shop/publications/order/>

Figure 4. Publications Useful During Installation

| Publication Title | Form Number |
|--|--------------------|
| <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 |

3.0 Program Support

This section describes the IBM support available for Sterling Connect:Direct Standard Edition.

3.1 Program Services

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

3.2 Preventive Service Planning

Before you install Sterling Connect:Direct Standard Edition, 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 6.1.8, "Perform SMP/E APPLY" on page 22 for a sample APPLY command

If you obtained Sterling Connect:Direct Standard Edition as part of a CBPDO, HOLDDATA is included.

If the CBPDO for Sterling Connect:Direct Standard Edition 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-01.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 Sterling Connect:Direct Standard Edition are included in Figure 5

| UPGRADE | SUBSET | Description |
|----------|---------|---|
| STRCD510 | HDGA510 | Sterling Connect:Direct for z/OS |
| STRCD511 | JDGA511 | Sterling Connect:Direct for z/OS Standard Edition |

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 6 on page 8 identifies the component IDs (COMPID) for Sterling Connect:Direct Standard Edition.

| <i>Figure 6. Component IDs</i> | | | |
|--------------------------------|---------------|--------------------------------------|-----------------------|
| FMID | COMPID | Component Name | RETAIN Release |
| HDGA510 | 5655X0100 | Sterling Connect:Direct | 510 |
| JDGA511 | 5655X0900 | License Feature for Standard Edition | 511 |

4.0 Program and Service Level Information

This section identifies the program and relevant service levels of Sterling Connect:Direct Standard Edition. 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.

4.1 Program Level Information

The following APAR fixes against previous releases of Sterling Connect:Direct Standard Edition have been incorporated into this release. They are listed by FMID.

- FMID HDGA510

| | | |
|---------|---------|---------|
| AM38541 | AM43899 | AM45404 |
| AM40291 | AM43900 | AM45473 |
| AM40298 | AM43901 | AM45474 |
| AM40302 | AM44373 | AM45475 |
| AM40322 | AM44547 | AM45477 |
| AM40709 | AM44633 | AM46169 |
| AM40750 | AM44644 | AM46170 |
| AM40753 | AM44665 | AM46184 |
| AM40755 | AM44672 | AM46189 |
| AM40864 | AM44726 | AM46262 |
| AM40873 | AM44730 | AM46263 |
| AM40884 | AM44751 | AM46267 |
| AM40897 | AM44900 | AM46362 |
| AM41232 | AM44940 | AM46513 |
| AM41234 | AM44948 | AM47625 |
| AM41241 | AM45199 | AM49390 |
| AM41905 | AM45261 | AM50535 |

4.2 Service Level Information

PTFs containing APAR fixes against this release of Sterling Connect:Direct Standard Edition have been incorporated into this product package. For a list of included PTFs, examine the ++VER statement in the product's SMPMCS.

Frequently check the Sterling Connect:Direct Standard Edition 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-REQUIREDSERVICE)** operand on your APPLY CHECK

command. This will allow you to review the recommended and critical service that should be installed with your FMIDs.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating Sterling Connect:Direct Standard Edition. 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.

5.1 Driving System Requirements

This section describes the environment of the driving system required to install Sterling Connect:Direct Standard Edition.

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 7. Driving System Software Requirements

| Program Number | Product Name | Minimum VRM | Minimum Service Level will satisfy these APARs | Included in the shipped product? |
|----------------------------------|--------------------|-------------|--|----------------------------------|
| Any one of the following: | | | | |
| 5694-A01 | z/OS | V01.11.00 | 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-03.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 required to install and use Sterling Connect:Direct Standard Edition.

Sterling Connect:Direct Standard Edition installs in the z/OS (Z038) 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 and *must* be present on the system or products that are not required 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.

Figure 8. Target System Mandatory Installation Requisites

| Program Number | Product Name | Minimum VRM | Minimum Service Level will satisfy these APARs | Included in the shipped product? |
|----------------|--------------|---------------------|--|----------------------------------|
| 5694-A01 | z/OS | V01.11.00 or higher | N/A | No |

Note: Installation might require migration to new z/OS releases to be service supported. See http://www-03.ibm.com/systems/z/os/zos/support/zos_eos_dates.html.

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.

Sterling Connect:Direct Standard Edition has no conditional installation requisites.

5.2.2.2 Operational Requisites

Operational requisites are products that are required and *must* be present on the system or products that are not required 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.

| <i>Figure 9. Target System Mandatory Operational Requisites</i> | |
|---|--|
| Program Number | Product Name and Minimum VRM/Service Level |
| 5694-A01 | z/OS V01.11.00 or higher |

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 10. Target System Conditional Operational Requisites</i> | | |
|--|--|----------------|
| Program Number | Product Name and Minimum VRM/Service Level | Function |
| Any one of the following: | | |
| 5655-M15 | CICS Transaction Server for z/OS V03.01.00 or higher | CICS Interface |
| 5655-S97 | CICS Transaction Server for z/OS V04.01.00 or higher | 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.

Sterling Connect:Direct Standard Edition 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.

Sterling Connect:Direct Standard Edition has no negative requisites.

5.2.3 DASD Storage Requirements

Sterling Connect:Direct Standard Edition libraries can reside on all supported DASD types.

Figure 11 lists the total space that is required for each type of library.

| Library Type | Total Space Required in 3390 Trks |
|--------------|-----------------------------------|
| Target | 3600 |
| Distribution | 3600 |
| File System | N/A |

Note:

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 22.

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.

Figure 12. Storage Requirements for SMP/E Data Sets

| Library DDNAME | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|---------------------------|----------------------------|----------------------|----------------------------------|----------------------------------|-------------------------------------|------------------------------------|
| SMPLTS | E | PDSE | U | 0 | 150 | - |
| SMPMTS | E | PDS | FB | 80 | 150 | 100 |
| SMPPTS | E | PDSE | FB | 80 | 900 | - |
| SMPSCDS | E | PDS | FB | 80 | 150 | 100 |
| SMPSTS | E | PDS | FB | 80 | 150 | 100 |

The following figures describe the target and distribution libraries and file system paths required to install Sterling Connect:Direct Standard Edition. The storage requirements of Sterling Connect:Direct Standard Edition 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 13. Storage Requirements for Sterling Connect:Direct Standard Edition Target Libraries

| Library DDNAME | Member Type | Target Volume | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|-------------------|----------------|------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| SDGACICS | LMOD | ANY | U | PDSE | U | 0 | 268 | - |
| SDGACNTL | Sample | ANY | U | PDS | FB | 80 | 7 | 10 |
| SDGADATA | Data | ANY | U | PDS | VB | 2048 | 151 | 20 |
| SDGAISPC | Clist | ANY | U | PDS | FB | 80 | 81 | 20 |
| SDGAJCL | Sample | ANY | U | PDS | FB | 80 | 9 | 20 |
| SDGALINK | LMOD | ANY | U | PDSE | U | 0 | 2334 | - |
| SDGAMAC | MACRO | ANY | U | PDS | FB | 80 | 135 | 40 |
| SDGAMAP | Data | ANY | U | PDS | FB | 80 | 51 | 40 |
| SDGAMENU | PNL | ANY | U | PDS | FB | 80 | 12 | 50 |
| SDGAMIB | Sample | ANY | U | PDS | VB | 256 | 15 | 10 |
| SDGAMSGS | MSGS | ANY | U | PDS | FB | 80 | 30 | 50 |
| SDGAOPLS | Sample | ANY | U | PDS | FB | 80 | 4 | 20 |
| SDGAPARM | Sample | ANY | U | PDS | FB | 80 | 6 | 20 |
| SDGAPENU | PNL | ANY | U | PDS | FB | 80 | 117 | 125 |
| SDGAPROC | PROC | ANY | U | PDS | FB | 80 | 15 | 50 |
| SDGAPROF | Sample | ANY | U | PDS | FB | 80 | 2 | 7 |
| SDGASAMP | Sample | ANY | U | PDS | FB | 80 | 302 | 50 |
| SDGASENU | PNL | ANY | U | PDS | FB | 80 | 5 | 15 |
| SDGATRP | Sample | ANY | U | PDS | VB | 256 | 15 | 10 |

Figure 14. Sterling Connect:Direct Standard Edition File System Paths

| DDNAME | T Y P E | Path Name |
|--------|------------------|-----------|
| N/A | | |

Figure 15. Storage Requirements for Sterling Connect:Direct Standard Edition Distribution Libraries

| Library DDNAME | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|-------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| ADGACICS | U | PDSE | U | 0 | 268 | - |
| ADGACNTL | U | PDS | FB | 80 | 7 | 10 |
| ADGADATA | U | PDS | VB | 2048 | 151 | 20 |
| ADGAISPC | U | PDS | FB | 80 | 81 | 20 |
| ADGAJCL | U | PDS | FB | 80 | 9 | 20 |
| ADGALINK | U | PDSE | U | 0 | 2334 | - |
| ADGAMAC | U | PDS | FB | 80 | 135 | 40 |
| ADGAMAP | U | PDS | FB | 80 | 51 | 40 |
| ADGAMENU | U | PDS | FB | 80 | 12 | 50 |
| ADGAMIB | U | PDS | VB | 256 | 15 | 10 |
| ADGAMSGS | U | PDS | FB | 80 | 30 | 50 |
| ADGAOPLS | U | PDS | FB | 80 | 4 | 20 |
| ADGAPARM | U | PDS | FB | 80 | 6 | 20 |
| ADGAPENU | U | PDS | FB | 80 | 117 | 125 |
| ADGAPROC | U | PDS | FB | 80 | 15 | 50 |
| ADGAPROF | U | PDS | FB | 80 | 2 | 7 |
| ADGASAMP | U | PDS | FB | 80 | 302 | 50 |
| ADGASENU | U | PDS | FB | 80 | 5 | 15 |
| ADGATRP | U | PDS | VB | 256 | 15 | 10 |

5.3 FMIDs Deleted

Installing Sterling Connect:Direct Standard Edition 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 Sterling Connect:Direct Standard Edition 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 Commands book for details.

5.4 Special Considerations

Even though you can install Sterling Connect:Direct Standard Edition into any SMP/E environment, it is HIGHLY recommended to install into a separate environment. This is to avoid the possibility of any collisions with other products.

FMIDs HDGA510 and JDGA511 are assumed to be installed into the same zones. If this is not the case, you will need to modify the sample jobs accordingly.

Before you start using Sterling Connect:Direct Standard Edition, check the Release Notes for the latest information on implementing this version, and refer to the *IBM Sterling Connect:Direct for z/OS Configuration Guide* for step-by-step instructions on how to customize the product for your environment.

6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of Sterling Connect:Direct Standard Edition.

Please note the following points:

- If you want to install Sterling Connect:Direct Standard Edition into its own SMP/E environment, (HIGHLY RECOMMENDED as to avoid the possibility of any collisions), consult the SMP/E manuals for instructions on creating and initializing the SMPCSI and the SMP/E control data sets. Additionally, to assist you in doing this, IBM has provided an optional sample (DGASMPE), to help you create an SMP/E environment.
- 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 Sterling Connect:Direct Standard Edition

6.1.1 SMP/E Considerations for Installing Sterling Connect:Direct Standard Edition

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of Sterling Connect:Direct Standard Edition.

6.1.2 SMP/E Options Subentry Values

The recommended values for certain SMP/E CSI subentries are shown in Figure 16. 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 16. SMP/E Options Subentry Values</i> | | |
|---|---------------|--|
| Subentry | Value | Comment |
| DSSPACE | 2500,100,300 | This is the minimum. Any larger value is acceptable. |
| PEMAX | SMP/E Default | IBM recommends using the SMP/E default for PEMAX. |

6.1.3 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install Sterling Connect:Direct Standard Edition:

Figure 17. Sample Installation Jobs for HDGA510 and JDGA511

| Job Name | Job Type | Description | RELFILE |
|----------|----------|--|----------------|
| DGASMPE | DEFINE | Sample job to create SMP/E environment (Optional) | IBM.HDGA510.F1 |
| DGARECVE | RECEIVE | Sample RECEIVE job for HDGA510 | IBM.HDGA510.F1 |
| DGARECV2 | RECEIVE | Sample RECEIVE job for JDGA511 | IBM.JDGA511.F3 |
| DGAALLOC | ALLOCATE | Sample job to allocate target and distribution libraries | IBM.HDGA510.F1 |
| DGADDDEF | DDDEF | Sample job to define SMP/E DDDEFs | IBM.HDGA510.F1 |
| DGAAPPLY | APPLY | Sample APPLY job for HDGA510 | IBM.HDGA510.F1 |
| DGAAPPL2 | APPLY | Sample APPLY job for JDGA511 | IBM.JDGA511.F3 |
| DGAACCP1 | ACCEPT | Sample ACCEPT job for HDGA510 | IBM.HDGA510.F1 |
| DGAACCP2 | ACCEPT | Sample ACCEPT job for JDGA511 | IBM.JDGA511.F3 |

You can access the sample installation jobs by performing an SMP/E RECEIVE (refer to 6.1.5, “Perform SMP/E RECEIVE” on page 21) then copy the jobs from the RELFILES to a work data set for editing and submission. See Figure 17 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.HDGA510.F1,UNIT=tunit,
// VOL=SER=volser,LABEL=(x,SL),
// DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.HDGA510.F1,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSNAME=jc1-library-name,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,
// SPACE=(TRK,(5,5,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
//STEP2 EXEC PGM=IEBCOPY
```



```

//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.JDGA511.F3,UNIT=tunit,
// VOL=SER=volser,LABEL=(x,SL),
// DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.JDGA511.F3,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSNAME=jcl-library-name,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,
// SPACE=(TRK,(5,5,5))
//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.fmid.Fy 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.

6.1.4 Allocate CSI and SMP/E Control data sets

Edit and submit **optional** sample job DGASMPE to create the desired CSI for Sterling Connect:Direct Standard Edition. Please note this job allocates some data sets in **PDSE** format. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will get a condition code of 0 if the job runs correctly.

6.1.5 Perform SMP/E RECEIVE

If you have obtained Sterling Connect:Direct Standard Edition as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the Sterling Connect:Direct Standard Edition 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 the provided sample jobs DGARECVE and DGARECV2 to SMP/E RECEIVE the Sterling Connect:Direct Standard Edition base FMID HDGA510 and License Feature JDGA511 as follows:

1. Edit and submit sample job DGARECVE to perform the SMP/E RECEIVE for Sterling Connect:Direct Standard Edition base FMID HDGA510. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: This job should end with RC=0.

Note: Please note that if the installation data sets have been loaded to a cataloged data set with an HLQ other than IBM.fmid, then the SMP/E RECEIVE SELECT command must change the HLQ by specifying the RFPREFIX(hlq) parameter as below:

```
RECEIVE SELECT(HDGA510) RFPREFIX(hlq) .
```

2. Edit and submit sample job DGARECV2 to perform the SMP/E RECEIVE for the mandatory Sterling Connect:Direct Standard Edition License Feature for Standard Edition FMID JDGA511. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: This job should end with RC=0.

Note: Please note that if the installation data sets have been loaded to a cataloged data set with an HLQ other than IBM.fmid, then the SMP/E RECEIVE SELECT command must change the HLQ by specifying the RFPREFIX(hlq) parameter as below:

```
RECEIVE SELECT(JDGA511) RFPREFIX(hlq) .
```

6.1.6 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job DGAALLOC to allocate the SMP/E target and distribution libraries for Sterling Connect:Direct Standard Edition. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: This job should end with RC=0.

6.1.7 Create DDDEF Entries

Edit and submit sample job DGADDDEF to create DDDEF entries for the SMP/E target and distribution libraries for Sterling Connect:Direct Standard Edition. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: This job should end with RC=0.

6.1.8 Perform SMP/E APPLY

1. Ensure that you have the latest HOLDDATA; then edit and submit sample job DGAAPPLY to perform an SMP/E APPLY CHECK for Sterling Connect:Direct Standard Edition base FMID HDGA510. Consult the instructions in the sample job for more information.

Perform an SMP/E APPLY CHECK for Sterling Connect:Direct Standard Edition base FMID HDGA510.

The latest HOLDDATA is available through several different portals, including <http://service.software.ibm.com/holdata/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 HOLDDs 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.

2. 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 SYSMODs. The requisite SYSMODS 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.

3. Upon a successful APPLY from job DGAAPPLY, edit and submit sample job DGAAPPL2 to perform an SMP/E APPLY CHECK for Sterling Connect:Direct Standard Edition License Feature, FMID JDGA511. Consult the instructions in the sample job for more information.

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

4. After you have taken any actions indicated by the APPLY CHECK, remove the CHECK operand and run DGAAPPL2 again to perform the APPLY.

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

6.1.9 Perform SMP/E ACCEPT

Edit and submit sample job DGAACCP to perform an SMP/E ACCEPT CHECK for Sterling Connect:Direct Standard Edition base FMID HDGA510. Consult the instructions in the sample job for more information.

Edit and submit sample job DGAACCP2 to perform an SMP/E ACCEPT CHECK for Sterling Connect:Direct Standard Edition License Feature, FMID JDGA511. 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 jobs 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 these jobs run 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 these jobs runs correctly.

6.1.10 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 Sterling Connect:Direct Standard Edition, 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 Sterling Connect:Direct Standard Edition

The publication *IBM Sterling Connect:Direct for z/OS Standard Edition Configuration Guide* contains the necessary information to customize and use Sterling Connect:Direct Standard Edition.

Before you start using Sterling Connect:Direct, check the Release Notes for the latest information on implementing this version, and then refer to the *IBM Sterling Connect:Direct for z/OS Configuration Guide* for step-by-step instructions on how to customize the product for your environment.

Figure 18 identifies other supporting products available via Shopz for 5655-X09 and form number below that provide further functionality for Sterling Connect:Direct Standard Edition.

| <i>Figure 18. Other 5655-X09 Supporting Products available via Shopz</i> | |
|--|--------------------|
| Product | Form Number |
| IBM Sterling Connect:Direct Browser User Interface for AIX | LCD7479000 |
| IBM Sterling Connect:Direct Browser User Interface for HPUX | LCD7479100 |
| IBM Sterling Connect:Direct Browser User Interface for HPUX Itanium | LCD7479200 |
| IBM Sterling Connect:Direct Browser User Interface for Java | LCD7479300 |
| IBM Sterling Connect:Direct Browser User Interface for Linux | LCD7479400 |
| IBM Sterling Connect:Direct Browser User Interface for SolarisINTEL | LCD7479500 |
| IBM Sterling Connect:Direct Browser User Interface for SolarisSPARC | LCD7479600 |
| IBM Sterling Connect:Direct Browser User Interface for Windows | LCD7479700 |
| IBM Sterling Certificate Wizard for Windows | LCD7479800 |
| IBM Sterling Certificate Wizard for UNIX | LCD7479900 |
| IBM Sterling Connect:Direct Application Interface for Java | LCD7480000 |
| IBM Sterling Connect:Direct File Agent (Java) | LCD7520400 |
| IBM Sterling External Authentication Server for AIX | LCD7521000 |
| IBM Sterling External Authentication Server for HPUX | LCD7521100 |
| IBM Sterling External Authentication Server for Solaris Sparc | LCD7521200 |
| IBM Sterling External Authentication Server for Linux | LCD7521300 |
| IBM Sterling External Authentication Server for Windows | LCD7521400 |

Figure 19 identifies other supporting products available via physical media (CD or DVD) for 5655-X09 and form number below that provide further functionality for Sterling Connect:Direct Standard Edition. The physical media in the following table includes all the products listed in Figure 17 that specifically provide further functionality for Sterling Connect:Direct Standard Edition for z/OS as well as for other other platforms of Sterling Connect:Direct Standard Edition.

Figure 19. Other 5655-X09 Supporting Products available via physical media (C)

| Product | Form Number |
|--|--------------------|
| IBM Sterling Connect:Direct Application Interface for Java | LCD7477900 |
| IBM Sterling Connect:Direct Browser User Interface | LCD7477700 |
| IBM Sterling Connect:Direct File Agent | LCD7478000 |
| IBM Sterling Certificate Wizard | LCD7477800 |
| IBM Sterling External Authentication Server | LCD7478100 |

7.0 Notices

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APAR numbers are provided in this document to assist in locating PTFs that may be required. Ongoing problem reporting may result in additional APARs being created. Therefore, the APAR lists in this document may not be complete. To obtain current service recommendations and to identify current product service requirements, always contact the IBM Customer Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

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Program Directory for IBM Sterling Connect:Direct for z/OS Standard Edition, December 2011

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|-------------------|---------|---|---|---|----------------------|-------------------|
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| 1 | 2 | 3 | 4 | 5 | N | |

| | Satisfaction | | | | | |
|---|--------------|---|---|---|---|---|
| Ease of product installation | 1 | 2 | 3 | 4 | 5 | N |
| Contents of Program Directory | 1 | 2 | 3 | 4 | 5 | N |
| Installation Verification Programs | 1 | 2 | 3 | 4 | 5 | N |
| Time to install the product | 1 | 2 | 3 | 4 | 5 | N |
| Readability and organization of Program Directory tasks | 1 | 2 | 3 | 4 | 5 | N |
| Necessity of all installation tasks | 1 | 2 | 3 | 4 | 5 | N |
| Accuracy of the definition of the installation tasks | 1 | 2 | 3 | 4 | 5 | N |
| Technical level of the installation tasks | 1 | 2 | 3 | 4 | 5 | N |
| Ease of getting the system into production after installation | 1 | 2 | 3 | 4 | 5 | N |

How did you order this product?

- 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 z/OS 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 IBM Sterling Connect:Direct for z/OS Standard Edition Development group):

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