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Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 29.
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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 DB2 Administration Tool for z/OS. This publication refers to IBM DB2 Administration Tool for z/OS as DB2 Administration Tool.

The Program Directory contains the following sections:

- **2.0, “Program Materials” on page 7** identifies the basic program materials and documentation for DB2 Administration Tool.
- **3.0, “Program Support” on page 10** describes the IBM support available for DB2 Administration Tool.
- **4.0, “Program and Service Level Information” on page 12** lists the APARs (program level) and PTFs (service level) that have been incorporated into DB2 Administration Tool.
- **5.0, “Installation Requirements and Considerations” on page 15** identifies the resources and considerations that are required for installing and using DB2 Administration Tool.
- **6.0, “Installation Instructions” on page 22** provides detailed installation instructions for DB2 Administration Tool. It also describes the procedures for activating the functions of DB2 Administration Tool, or refers to appropriate publications.

Before installing DB2 Administration Tool, 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 10** tells you how to find any updates to the information and procedures in this program directory.

DB2 Administration Tool 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 DB2 Administration Tool are included on the CBPDO tape.

Do not use this program directory if you install DB2 Administration Tool 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 DB2 Administration Tool Description**

DB2 Administration Tool, V11.02.00 (5655-DAT) enhancements include:

- Optimal use of REORG in dealing with the complex ALTERs.
  - Considering the complexities of DB2 pending changes, the order of ALTER statements and the sequence of REORG statements in relation to the ALTER statements is being modified to help attain the maximum system availability.
• IBM DB2 Analytics Accelerator for z/OS enhancements.
  – Enhancements to DB2 Analytics Accelerator for z/OS support include the ability to display keys
    and related information along with the option to alter them; support for the batch execution of
    some of the key accelerator functions, such as LOAD, ADD, ENABLE, or DISABLE of DB2 tables;
    the ability to display trace profiles of an accelerator and to enable configuration and management
    of trace details of an accelerator; the ability to display the list of active accelerator tasks; and the
    ability to cancel a task.

• Authorization switching enhancements.
  – Multiple enhancements have been made to enable authorization switching as a retry mechanism,
    based on the ownership of the object; to enable authorization switching for a work statement list
    (WSL) that was not originally generated with authorization switching capability (for example,
    GRANT, REVOKE, DROP View/Alias panels); and to enable authorization switching in the change
    management analyze process.

• Restart enhancements in the batch restart program ADBTEP2.
  – DB2 Administration Tool for z/OS now provides the ability to restart a WSL from a user controlled
    restart point rather than a system-determined restart point.

• Improve usability by addressing navigational consistency issues.
  – When using table display panels to accomplish complex operations, users will now find more
    navigational consistency with the following rules in place:
    - PF3: Returns to the calling panel.
    - ENTER: Processes the primary commands, line commands, and the changes to data entry
      fields.
    - NEXT: The primary command to move the user forward.

• Reducing the number of job steps within Tools Customizer to simplify deployment across multiple DB2
  subsystems.
  – This enhancement makes it easier to manage multiple DB2 subsystems because users can
    selectively choose specific setup options such as Change Management, Check Point, and so on,
    thereby minimizing the number of jobs generated.

• The ability to customize the appearance of list panels.
  – Panels that have many line commands and primary commands take away real estate that would
    otherwise be used for displaying data that customers are interested in. With this enhancement,
    customization options are provided so that line commands or primary commands can be hidden as
    needed. Users can also choose whether to display a menu bar.

• Delay GRANT statements until all related objects are created and utilities are complete.
  – Prior to this change, when a table was added or dropped and re-created, the table GRANTs were
    issued immediately. This enhancement allows the table to be populated even though other
    objects, such as unique indexes, referential integrity definitions, and the reload of original rows,
    have not been completed. This can cause data loss and subsequent object creation to fail.

• Ability to drop multiple table spaces.
- DROP as a primary command is available on the list of table space panel (ADB21S), allowing the user to drop all the table spaces listed on the panel.

- Enable the user to change GEN options with the migrate function.
  - This function provides the user the flexibility and convenience to quickly navigate, view, or change GEN settings without having to exit out of MIG to invoke the GEN line command. This function is available on panels ADB21D 'Databases', ADB21S 'Table Spaces', and ADB21T 'Tables, Views, and Aliases'.

- Change Management and DET (detailed report on a package) enabled to show formatted statements.
  - The change management registration process will preserve the formatting of the change statements. This will help the users to view or edit the statements easily. The DET function will show more formatted statements.

- Display confirmation panel when exiting ALT panels.
  - ALT, which allows the user to perform complex alters on DB2 objects, can flow through multiple panels before the immediate task is complete. This enhancement will bring up confirmation panels when the user presses PF3. This will avoid accidentally losing the work in progress.

- Handle alters related to rotated partitions.
  - For table-based partitioning, DB2 maintains a physical partition number and a logical partition number. When the table is newly created, both physical and logical partition numbers are the same. When partitions are rotated, logical and physical partitions are no longer the same. The purpose of this enhancement is to allow the users to edit the limit key based on the logical partition number and, at the time of applying the change to the DB2 catalog, translate that into the physical partition number.

- Variable-block spanned (VBS) support during UNLOAD utility.
  - Support for the UNLOAD utility option SPANNED has been added when the skip conversion process is used. UNLOAD SPANNED improves the performance of unloading tables with LOB and XML columns because these columns now can be unloaded to the unload data set and no longer require the use of LOB files, which is an I/O-intensive process.

- REORG enhancements.
  - Prior to DB2 10 for z/OS, when an index's buffer pool was altered, this index was placed into REBUILD-pending state. In DB2 10 and later, this index is placed in an advisory REORG-pending state. A REORG INDEX statement will now be generated to resolve the pending state.

- Support for additional options on DB2 LOAD utility.
  - The DB2 LOAD utility options ERRDDN, DISCARDDN, and DISCARDS are now supported by ALT, Object Compare, Change Management (CM), and Migrate (MIG) on panel ADB2UTC 'Specify Utility Options - LOAD'.
  - The DB2 LOAD utility options LOG, RESUME, and REPLACE are now supported by MIG on panel ADB2UTC 'Specify Utility Options - LOAD'.

- Utility parallelism control as a default.
– IBM best practices indicate parallelism should be used where possible. This enhancement will provide a way for the installer to have utilities generate keywords to run utilities in parallel. The default degree of parallelism and the option to specify a parallelism cap can be set. These values will also be broken up by utility (LOAD, REORG, and so on).

• Enable ORDER BY to be used by SQL before building ISPF-tables.
  – When DB2 Administration Tool for z/OS issues SQL statements, it does not use the ORDER BY clause, due to performance reasons. This feature will help set the ordering where the user can get the tool to use ORDER BY in the SQL statements leading to the ISPF-tables that DB2 Administration Tool for z/OS is presenting.

• CM batch to provide the ability to specify user-defined templates as a dataset.
  – A new way to specify user-defined TemplateEs for DB2 utilities using USRTEMPL dataset is introduced. This new format will allow the CM Batch interface style parameter variables and TEMPLATE formats.

• Ability to analyze and run an empty change.
  – The Change Management function is enhanced to add the ability to register, analyze, run, and recover an empty change.

• User control on datasets in CM Batch.
  – CM Batch is enhanced to allow users to control data set attributes for the IFF, CHG, DELTA, DDL, SRCVF, TGTVF, and MTC file.
  – CM Batch is enhanced to add template support for RECOVERYDDN1, RECOVERYDDN2, MAPDDN, PUNCHDDN, and UNLDDN.

• Remove restrictions on WSL export PDS name and member names.
  – Allow data set names to contain the change name or change owner in the PDS or as member name.

• The ability to alter the specifications of a registered change.
  – This enhancement will add the ability to replace an existing change.

• Export a change using CM Batch.
  – Using Change Management, the user can specify a new OPTIONS primary command on panel ADBPC15 'Export Changes', and new panel ADBPC15O 'Export Options' will allow the user to choose whether to export a change in batch or not. The ability to provide masking details is also added.

• User’s choice for the Apply, Prereq, Supersede, or Cancel commands will be retained within the same session when multiple changes are registered, and across sessions if the ISPF profile dataset persists.

• Allow the user to analyze a change only when the status is DEFINED.
  – The CM Batch interface introduced additional parameter to the control analyze process: Action_analyze_change='C'. This will enable the user to skip the analyze process for a change if the change is already in ANALYZED state. Prior to this enhancement, when
Action_analyze_change='Y' or Blank (default), the change would be analyzed if the change was DEFINED or ANALYZED status.

- Ability to delete completed changes.
  - This will enable a change in COMPLETE status to be deleted. Users who want to restrict deleting such changes can still achieve this by modifying a Change Management view object.

- CM Batch to allow canceling and deleting changes.
  - CM Batch will allow canceling and deleting changes. The view object can be modified to restrict the users from deleting a change.

- Masking on export of a change.
  - This will enable the user to use masking during export of change. The change statements written into the output data set will be masked.

- Allow CM Batch to delete or replace an existing mask.
  - This will enable CM Batch to manage the masks instead of navigating through the panels.

- The ability to exclude column authorizations.
  - Add support for column authorizations on the CM Exclude Objects panel (ADBPC7L).

- The ability to control the return code of the batch restart program ADBTEP2.
  - This enhancement allows the user to set a threshold for which a return code (RC) from a DB2 utility will terminate the batch restart program ADBTEP2 process. Prior to this, any no-warning RC would terminate the batch restart program ADBTEP2 (that is, RC > 4).

- Masking enhancements.
  - Users now have the ability to overwrite attributes FREEPAGE, PCTFREE, LOCKMAX, and ERASE with masking for table space and index objects. In addition, the ability to override attributes TRACKMOD and DATA CAPTURE using the Generate (GEN), Work Statement List (WSL), Multi-target changes, Export changes, and Change Management (CM) Import functions with masking for objects table spaces and tables is added.
  - Masking is enhanced to support wildarding in rename-masks. This will allow multiple objects to be renamed at the same time. Support is added for databases, table spaces, tables, indexes, and global variables.

- Enhance the SQ option, allowing dynamic EXPLAIN for accessing plan table.
  - When using the 'SQ - SQL in package' line command from panel ADB21K 'Packages', the following commands are now supported on panel 'Extracted SQL' (ADB21KSE):
    - EXPLAIN: Dynamically explain a selected SQL statement.
    - PLANTAB: Display explain rows for the selected SQL statement.

- Allow iterative input from REXX in batch restart program ADBTEP2.
  - This enhancement allows for a user REXX routine to provide input for ADBTEP2 to process.

- ALT enhancements.
Unlike other objects, new indexes and foreign keys can be created within ALT with the CX and CFK line commands (against a table) on the ADB27CA hub; the new objects are added to the hub after creation. However, alter (A) line command was not allowed against these new objects. This enhancement will add the ability to alter these new objects.

1.2 DB2 Administration Tool FMID

DB2 Administration Tool consists of the following FMID:

H0IHB20
2.0 Program Materials

An IBM program is identified by a program number. The program number for DB2 Administration Tool is 5655-DAT.

Basic Machine-Readable Materials are materials that are supplied under the base license and are required for the use of the product.

The program announcement material describes the features supported by DB2 Administration Tool. 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 22 for more information about how to install the program.

You can find information about the physical media for the basic machine-readable materials for DB2 Administration Tool in the CBPDO Memo To Users Extension.

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2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for DB2 Administration Tool.

2.3 Program Publications

The following sections identify the basic publications for DB2 Administration Tool.

Figure 2 identifies the basic unlicensed publications for DB2 Administration Tool. Those that are in softcopy format publications can be obtained from the IBM Publications Center website at: http://www.ibm.com/shop/publications/order/

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<td><a href="http://www.ibm.com/software/sla/sladb.nsf">http://www.ibm.com/software/sla/sladb.nsf</a></td>
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2.3.1 Optional Program Publications

No optional publications are provided for DB2 Administration Tool.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for DB2 Administration Tool.

2.5 Publications Useful During Installation

You might want to use the publications listed in Figure 3 during the installation of DB2 Administration Tool.

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<th>Publication Title</th>
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<td>IBM SMP/E for z/OS Messages, Codes, and Diagnosis</td>
<td>GA32-0883</td>
<td><a href="http://www.ibm.com/shop/publications/order/">http://www.ibm.com/shop/publications/order/</a></td>
</tr>
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</table>
3.0 Program Support

This section describes the IBM support available for DB2 Administration Tool.

3.1 Program Services

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

3.2 Preventive Service Planning

Before you install DB2 Administration Tool, 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 6.1.10, "Perform SMP/E APPLY" on page 26 for a sample APPLY command.

If you obtained DB2 Administration Tool as part of a CBPDO, HOLDDATA is included.

If the CBPDO for DB2 Administration Tool 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:


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 DB2 Administration Tool are included in Figure 4.

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Figure 4. PSP Upgrade and Subset ID
3.3 Statement of Support Procedures

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

Figure 5 on page 11 identifies the component IDs (COMPID) for DB2 Administration Tool.

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4.0 Program and Service Level Information

This section identifies the program and relevant service levels of DB2 Administration Tool. 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 DB2 Administration Tool have been incorporated into this release. They are listed by FMID.

- FMID H0IB10

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4.2 Service Level Information

No PTFs against this release of DB2 Administration Tool have been incorporated into the product package.

Frequently check the DB2 Administration Tool 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 DB2 Administration Tool. 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 DB2 Administration Tool.

5.1.1 Machine Requirements

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

5.1.2 Programming Requirements
5.2 Target System Requirements

This section describes the environment of the target system required to install and use DB2 Administration Tool.

DB2 Administration Tool installs in the DBS (P115) 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.

DB2 Administration Tool has no mandatory installation requisites.

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

DB2 Administration Tool has no conditional installation requisites.

Note: SMP/E is a requirement for Installation and is an element of z/OS but can also be ordered as a separate product, 5655-G44, minimally V03.06.00.

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.

<table>
<thead>
<tr>
<th>Program Number</th>
<th>Product Name</th>
<th>Minimum VRM</th>
<th>Minimum Service Level will satisfy these APARs</th>
<th>Included in the shipped product?</th>
</tr>
</thead>
<tbody>
<tr>
<td>5694-A01</td>
<td>z/OS</td>
<td>V01.13.00</td>
<td>N/A</td>
<td>No</td>
</tr>
<tr>
<td>5650-ZOS</td>
<td>z/OS</td>
<td>V02.01.00</td>
<td>N/A</td>
<td>No</td>
</tr>
</tbody>
</table>
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.

Note: IBM Tools Base for z/OS, (5655-V93) is a mandatory operational pre-requisite for DB2 Administration Tool for z/OS. IBM Tools Base for z/OS is a no-charge product that must be separately ordered. Tools Base contains IBM Tools Customizer for z/OS, FMID HTCZ110, which must be installed in order to customize DB2 Administration Tool. Refer to the IBM Tools Base for z/OS, Program Directory (GI10-8819) for installation instructions.

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.

Figure 7. Target System Mandatory Operational Requisites

<table>
<thead>
<tr>
<th>Program Number</th>
<th>Product Name and Minimum VRM/Service Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>5655-V93</td>
<td>IBM Tools Base for z/OS V01.04.00* or later - HTCZ110 (IBM Tools Customizer for z/OS)</td>
</tr>
<tr>
<td>Any one of the following:</td>
<td></td>
</tr>
<tr>
<td>5605-DB2</td>
<td>DB2 for z/OS V10.01.00</td>
</tr>
<tr>
<td>5697-P31</td>
<td>DB2 for z/OS Value Unit Edition V10.01.00</td>
</tr>
<tr>
<td>5615-DB2</td>
<td>DB2 for z/OS V11.01.00</td>
</tr>
<tr>
<td>5697-P43</td>
<td>DB2 for z/OS Value Unit Edition V11.01.00</td>
</tr>
</tbody>
</table>

Figure 8. Target System Conditional Operational Requisites

<table>
<thead>
<tr>
<th>Program Number</th>
<th>Product Name and Minimum VRM/Service Level</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>5655-DOC</td>
<td>DB2 Object Comparison Tool for z/OS V11.02.00</td>
<td>Required for use of the Change Management function</td>
</tr>
</tbody>
</table>

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.

DB2 Administration Tool 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.

DB2 Administration Tool has no negative requisites.

5.2.3 DASD Storage Requirements

DB2 Administration Tool libraries can reside on all supported DASD types.

Figure 9 lists the total space that is required for each type of library.

<table>
<thead>
<tr>
<th>Library Type</th>
<th>Total Space Required in 3390 Trks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Target</td>
<td>6565 Tracks</td>
</tr>
<tr>
<td>Distribution</td>
<td>2765 Tracks</td>
</tr>
</tbody>
</table>

Notes:

1. For non-RECFM U data sets, IBM recommends using system-determined block sizes for efficient DASD utilization. For RECFM U data sets, IBM recommends using a block size of 32760, which is most efficient from the performance and DASD utilization perspective.

2. Abbreviations used for data set types are shown as follows.

   U  Unique data set, allocated by this product and used by only this product. This table provides all the required information to determine the correct storage for this data set. You do not need to refer to other tables or program directories for the data set size.

   S  Shared data set, allocated by this product and used by this product and other products. To determine the correct storage needed for this data set, add the storage size given in this table to those given in other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.

   E  Existing shared data set, used by this product and other products. This data set is not allocated by this product. To determine the correct storage for this data set, add the storage size given in this table to those given in other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.

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

For more information about the names and sizes of the required data sets, see 6.1.8, “Allocate SMP/E Target and Distribution Libraries” on page 25.
3. 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.

4. 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.

5. 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 LNKLST.
   - These data sets are not required to be APF-authorized.

The following figures describe the target and distribution libraries required to install DB2 Administration Tool. The storage requirements of DB2 Administration Tool must be added to the storage required by other programs that have data in the same library.

**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 10 (Page 1 of 2). Storage Requirements for DB2 Administration Tool Target Libraries

<table>
<thead>
<tr>
<th>Library DDNAME</th>
<th>Member Type</th>
<th>Target Volume</th>
<th>T Y P E</th>
<th>O R G</th>
<th>T</th>
<th>R E</th>
<th>L</th>
<th>No. of 3390 Trks</th>
<th>No. of DIR Blks</th>
</tr>
</thead>
<tbody>
<tr>
<td>SADDBBASE</td>
<td>SAMP</td>
<td>Any</td>
<td>U</td>
<td>PDS</td>
<td>FB</td>
<td>80</td>
<td>10</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>SADBCLST</td>
<td>CLIST</td>
<td>Any</td>
<td>U</td>
<td>PDS</td>
<td>FB</td>
<td>80</td>
<td>25</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>SADBDBRM</td>
<td>MAC</td>
<td>Any</td>
<td>U</td>
<td>PDS</td>
<td>FB</td>
<td>80</td>
<td>55</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>SADBDENU</td>
<td>DATA</td>
<td>Any</td>
<td>U</td>
<td>PDS</td>
<td>FB</td>
<td>80</td>
<td>45</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>SADBEXEC</td>
<td>EXEC</td>
<td>Any</td>
<td>U</td>
<td>PDS</td>
<td>FB</td>
<td>80</td>
<td>525</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>SADBLINK</td>
<td>LMOD</td>
<td>Any</td>
<td>U</td>
<td>PDS</td>
<td>U</td>
<td>0</td>
<td>125</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>SADBLLIB</td>
<td>LMOD</td>
<td>Any</td>
<td>U</td>
<td>PDS</td>
<td>U</td>
<td>0</td>
<td>4500</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>SADBMLIB</td>
<td>MSG</td>
<td>Any</td>
<td>U</td>
<td>PDS</td>
<td>FB</td>
<td>80</td>
<td>20</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>SADBPLIB</td>
<td>PNL</td>
<td>Any</td>
<td>U</td>
<td>PDS</td>
<td>FB</td>
<td>80</td>
<td>1050</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>SADBSAMP</td>
<td>SAMP</td>
<td>Any</td>
<td>U</td>
<td>PDS</td>
<td>FB</td>
<td>80</td>
<td>15</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>SADBSLIB</td>
<td>SKL</td>
<td>Any</td>
<td>U</td>
<td>PDS</td>
<td>FB</td>
<td>80</td>
<td>180</td>
<td>25</td>
<td></td>
</tr>
</tbody>
</table>
5.3 FMIDs Deleted

Installing DB2 Administration Tool 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 DB2 Administration Tool 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

DB2 Administration Tool has no special considerations for the target system.
6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of DB2 Administration Tool.

Please note the following points:

- If you want to install DB2 Administration Tool into its own SMP/E environment, consult the SMP/E manuals for instructions on creating and initializing the SMPCSI and the SMP/E control data sets.

- You can use the sample jobs that are provided to perform part or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries that are required for SMP/E execution have been defined in appropriate zones.

- You can use the SMP/E dialogs instead of the sample jobs to accomplish the SMP/E installation steps.

- If you are also installing DB2 Object Comparison Tool for z/OS, it requires DB2 Administration Tool. There is a REQ for DB2 Administration Tool (H0IHB20) in the DB2 Object Comparison Tool for z/OS (H25GB20) SMPMCS.

- Both of these FMIDs, H0IHB20 for DB2 Administration Tool and H25GB20 for DB2 Object Comparison Tool for z/OS, need to be installed in the same SMP/E target and distribution zone.

6.1 Installing DB2 Administration Tool

6.1.1 SMP/E Considerations for Installing DB2 Administration Tool

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of DB2 Administration Tool.

6.1.2 SMP/E Options Subentry Values

The recommended values for certain SMP/E CSI subentries are shown in Figure 12. Using values lower than the recommended values can result in failures in the installation. DSSPACE is a subentry in the GLOBAL options entry. P MAX is a subentry of the GENERAL entry in the GLOBAL options entry. See the SMP/E manuals for instructions on updating the global zone.

<table>
<thead>
<tr>
<th>Subentry</th>
<th>Value</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSSPACE</td>
<td>(200,200,500)</td>
<td>3390 DASD tracks</td>
</tr>
<tr>
<td>P MAX</td>
<td>SMP/E Default</td>
<td>IBM recommends using the SMP/E default for P MAX.</td>
</tr>
</tbody>
</table>
6.1.3 SMP/E CALLLIBS Processing

DB2 Administration Tool uses the CALLLIBS function provided in SMP/E to resolve external references during installation. When DB2 Administration Tool is installed, ensure that DDDEFs exist for the following libraries:

- CSSLIB
- SCEELKED
- SDSNLOAD
- SISPLOAD

Note: CALLLIBS uses the previous DDDEFs only to resolve the link-edit for DB2 Administration Tool. These data sets are not updated during the installation of DB2 Administration Tool.

6.1.4 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install DB2 Administration Tool:

<table>
<thead>
<tr>
<th>Job Name</th>
<th>Job Type</th>
<th>Description</th>
<th>RELFILE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADBALA</td>
<td>SMP/E</td>
<td>Sample job to allocate and initialize a new SMP/E CSI data set</td>
<td>IBM.H0IHB20.F2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Optional)</td>
<td></td>
</tr>
<tr>
<td>ADBALB</td>
<td>SMP/E</td>
<td>Sample job to allocate SMP/E data sets</td>
<td>IBM.H0IHB20.F2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Optional)</td>
<td></td>
</tr>
<tr>
<td>ADBRECEV</td>
<td>RECEIVE</td>
<td>Sample RECEIVE job</td>
<td>IBM.H0IHB20.F2</td>
</tr>
<tr>
<td>ADBALLOC</td>
<td>ALLOCATE</td>
<td>Sample job to allocate target and distribution libraries</td>
<td>IBM.H0IHB20.F2</td>
</tr>
<tr>
<td>ADBDDDEF</td>
<td>DDDEF</td>
<td>Sample job to define SMP/E DDDEFs</td>
<td>IBM.H0IHB20.F2</td>
</tr>
<tr>
<td>ADBAPPLY</td>
<td>APPLY</td>
<td>Sample APPLY job</td>
<td>IBM.H0IHB20.F2</td>
</tr>
<tr>
<td>ADBACCEP</td>
<td>ACCEPT</td>
<td>Sample ACCEPT job</td>
<td>IBM.H0IHB20.F2</td>
</tr>
</tbody>
</table>

You can access the sample installation jobs by performing an SMP/E RECEIVE (refer to 6.1.7, “Perform SMP/E RECEIVE” on page 25) then copy the jobs from the RELFILES to a work data set for editing and submission. See Figure 13 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=*  
/* Make the //TAPEIN DD statement below active if you install*  
/* from a CBPDO tape by uncommenting the DD statement below. *  
/* TAPEIN DD DSN=IBM.H01HB20.F2,UNIT=tunit,  
/* VOL=SER=volser,LABEL=(x,SL),  
/* DISP=(OLD,KEEP)  
/* TAPEIN DD DSN=IBM.H01HB20.F2,UNIT=tunit,  
/* VOL=SER=01HB20,LABEL=(3,SL),  
/* DISP=(OLD,KEEP)  
/* Make the //FILEIN DD statement below active for *  
/* downloaded DASD files.  
/* FILEIN DD DSN=IBM.H01HB20.F2,UNIT=SYSALLDA,DISP=SHR,  
/* VOL=SER=filevol  
/* OUT DD DSNAME=jcl-library-name,  
/* DISP=(NEW,CATLG,DELETE),  
/* VOL=SER=dasdvol,UNIT=SYSALLDA,  
/* SPACE=(TRK,(20,10,5))  
/* 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.H01HB20.F2 on the tape.  

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

OUT:  
jcl-library-name is the name of the output data set where the sample jobs are stored.  
dasdvol is the volume serial of the DASD device where the output data set resides.  

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

24 DB2 Administration Tool Program Directory
6.1.5 Allocate SMP/E CSI (Optional)

If you are using an existing CSI, do not execute this job.

If you are allocating a new SMP/E data set for this install, edit and submit sample job ADBALA to allocate the SMP/E data set for DB2 Administration Tool. Consult the instructions in the sample job for more information.

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

6.1.6 Initialize CSI zones (Optional)

If you are using an existing CSI, do not execute this job.

Edit and submit sample job ADBALB to initialize SMP/E zones for DB2 Administration Tool. Consult the instructions in the sample job for more information.

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

6.1.7 Perform SMP/E RECEIVE

If you have obtained DB2 Administration Tool as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the DB2 Administration Tool FMIDs, service, and HOLDDATA that are included on the CBPDO package. For more information, see the documentation that is included in the CBPDO.

You can also choose to edit and submit sample job ADBRECEV to perform the SMP/E RECEIVE for DB2 Administration Tool. Consult the instructions in the sample job for more information.

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

6.1.8 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job ADBALLOC to allocate the SMP/E target and distribution libraries for DB2 Administration Tool. Consult the instructions in the sample job for more information.

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

6.1.9 Create DDDEF Entries

Edit and submit sample job ADBDDEDEF to create DDDEF entries for the SMP/E target and distribution libraries for DB2 Administration Tool. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.
6.1.10 Perform SMP/E APPLY

1. Ensure that you have the latest HOLDDATA; then edit and submit sample job ADBAPPLY to perform an SMP/E APPLY CHECK for DB2 Administration Tool. Consult the instructions in the sample job for more information.

The latest HOLDDATA is available through several different portals, including http://service.software.ibm.com/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/c5197)
   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),HOLDFIXCAT).
..any other parameters documented in the program directory

This method is 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 HOLDs 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 or 4 if this job runs correctly.

You may receive the following message during the APPLY CHECK which does not affect the product installation

Expected Return Codes and Messages from APPLY: You will receive a return code of 0 or 4 if this job runs correctly.

You may receive the following message codes which do not affect the product installation:
GIM23903W, GIM23904W, GIM43401W, IEW2455W.

6.1.11 Perform SMP/E ACCEPT

Edit and submit sample job ADBACCEP to perform an SMP/E ACCEPT CHECK for DB2 Administration Tool. 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 errors but not warnings (SMP/E treats bypassed PRE, ID, REQ, and IFREQ conditions as warnings rather than errors).

Before you use SMP/E to load new distribution libraries, it is recommended that you set the ACCJCLIN indicator in the distribution zone. In this way, you can save the entries that are produced from JCLIN in the distribution zone whenever a SYSMOD that contains inline JCLIN is accepted. For more information about the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E Commands book for details.
After you take actions that are indicated by the ACCEPT CHECK, remove the CHECK operand and run
the job again to perform the ACCEPT.

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

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

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

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

### 6.1.12 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 DB2 Administration Tool, 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 DB2 Administration Tool

#### 6.2.1 Product Customization

The publication *IBM DB2 Administration Tool for z/OS User's Guide* (SC27-4566) contains the necessary
information to customize and use DB2 Administration Tool. You must have SYSADM (or equivalent) DB2
authority to install DB2 Administration Tool.
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Reader's Comments

Program Directory for IBM DB2 Administration Tool for z/OS, August 2015

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