IBM Data Set Commander for z/OS

IBM

Installation and Customization Guide

Version 8 Release 1 Modification 2

Contents

About this manual

This guide describes how to install and configure Data Set Commander. It is intended for the system administrator and operation personnel.

This guide assumes that you are familiar with the basic ISPF functions. Subjects that are discussed in an ISPF manual are explained briefly in this guide. For detailed information about ISPF, see the appropriate IBM documentation.

This guide is divided into the following chapters:

"About this manual"
> Provides general information about this document.

Chapter 1, "An overview of Data Set Commander," on page 1
> Describes the features and capabilities of Data Set Commander and introduces the new features in the current version.

Chapter 2, "Data Set Commander installation and customization," on page 9
> Provides the installation procedures and explains how to configure Data Set Commander.

The Appendixes
> The Appendixes, starting with Appendix A, "The installation tape," on page 29 cover the installation-related topics and options.

As well as the information in this document, there is more product information available in the online tutorials, Help panels, Assist windows, and the structured Action Bar.

- To invoke the Data Set Commander tutorial, enter `DSCHELP` or `DSC` on any ISPF panel.
- To display all Data Set Commander command shortcuts, enter `DSC?` on any ISPF panel.
- To invoke the Online Help, press the HELP key (typically PF1) on any Data Set Commander panel.
- To display the Assist window, which is available in both the Member Selection List (MSL) and Object List (OLIST), type `ASSIST` or `A` on the command line.

Summary of changes, second edition (GC19-3847-01)

This edition accounts for changes introduced by APAR OA45866. These changes, marked with a vertical change bar in the left margin, include:
- "SMF Record Filtering Definition File" on page 15

The text has also been corrected for minor editorial errors. These are not flagged.

Summary of changes, first edition (GC19-3847-00)

The steps to replace IEBCOPY with the Data Set Commander batch utility IQIBUTIL are provided in "Replacing IEBCOPY with DSC batch utility IQIBUTIL" on page 17.

The screens in Appendix I, "The customization wizard IQIWIZRD," on page 53 have been updated to account for changes introduced in Version 8.

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Chapter 1. An overview of Data Set Commander

This chapter introduces Data Set Commander's technology and lists the new features of each release.

In previous versions, DSC has been primarily an augmentation of the ISPF menus, providing a richer range of functions to manipulate data sets. Version 8.1, DSC, retains this augmentation, with enhancements. But two more components have been added to this augmentation, to provide the complete DSC package. These are:
- A batch utility that replaces IEBCOPY with enhanced partitioned data set manipulation functions.
- A Monitor started task that provides these functions:
  - Automates the refreshing of z/OS LLA managed directory entries.
  - Bypasses the recording of SMF records associated with irrelevant data sets.

Automatic integration into ISPF

Data Set Commander integrates tightly into ISPF whether you change the main menu or not. This tight integration ensures that the performance and productivity improvements that Data Set Commander offers are not limited to a specific option, but they are available throughout ISPF. Note that this tight integration does not allow activation of Data Set Commander using LIBDEFs. You should follow the installation instructions carefully and accurately.

Data Set Commander controls ISPF through a "front end". The front end is conveniently named as ISPF, PDF, and ISPSTART, so that Data Set Commander gains control whenever you start ISPF. Internally, Data Set Commander invokes ISPF, and provides access to both ISPF and Data Set Commander services. The Data Set Commander installation procedures show how to activate Data Set Commander on a selected group of users without impacting other ISPF users, and how to widen the group of users having access to Data Set Commander.

The Data Set Commander front-ending ISPF does not require linking into the ISPF product modules or renaming the ISPF modules. With Data Set Commander, the original ISPF is left intact. Data Set Commander does not run authorized, and adheres to all MVS™ security standards.

The Data Set Commander front end to ISPF automatically deactivates itself when ISPF is run in batch. Other methods of bypassing the Data Set Commander front end are described in "Bypassing Data Set Commander (invoking standard ISPF)" on page 27.

The Customization Wizard

The customization of Data Set Commander options is an automated process controlled by the Customization Wizard. Information is presented in ISPF panels and is remembered across sessions. The Customization Wizard is also used to register other products to work with Data Set Commander. It may be invoked any time by the Data Set Commander-ISPF administrator.

For more information about the Customization Wizard, see Appendix I, "The customization wizard IQIWIZRD," on page 53.

Object orientation and registering other products with Data Set Commander

One of the important Data Set Commander concepts is its object-oriented technology. The following sections explain how important to understand its role in enabling Data Set Commander to take advantage of other products installed in your system.

Objects and object classes

The most common object is a data set. With Data Set Commander, the object class "data set" has several subclasses—different types of data sets, such as PDS, PDSE, VSAM, SEQ, Panvalet, and Librarian. Data Set Commander supports other object classes as well— DB2® tables, TSO commands, catalog levels, z/OS UNIX System Services files, and others.

Data Set Commander expands the concept of data set to objects so that ISPF functions and new Data Set Commander functions that work on data sets can be used to work on other object classes.

Identifying objects

Data Set Commander includes an automatic object identifier for the data set class. For example, Data Set Commander automatically identifies VSAM files and knows which method to invoke for these files.

For other object classes, Data Set Commander uses special notation to identify the object class. For example, DB2 tables are denoted by a leading hyphen. MVS z/OS UNIX System Services files are specified by a leading slash, and workstation (PC) files are specified by enclosing them in double quotation marks.

Note that the leading dash, leading slash, and surrounding quotation marks are not considered part of the object name, and are stripped off before the object name is passed on for processing by the object method.

A list of supported objects, their notation, and function is provided in Appendix G, "Supported objects," on page 49.

Methods, OLE, and interfacing to other products

Each class is internally associated with a method that acts on the object based upon the action you specify. For example, when you browse a sequential file, the Data Set Commander registered method for that operation is to invoke the ISPF browse function.

For the user, the environment resembles Microsoft Windows OLE where by clicking on an object, the appropriate application is invoked and requested to perform the appropriate function. In a similar manner, what is invoked by Data Set Commander is controlled by a registration process. This process is defined when you customize Data Set Commander.

Data Set Commander comes with many built-in methods for different classes of objects. For example, the method for displaying a member list is the powerful Data Set Commander MSL (Member Selection List).

Data Set Commander provides an interface to third party products that can handle DB2 files. When you customize Data Set Commander, you are presented with a list

of database administration tools that Data Set Commander supports and you register the one that is installed. This allows Data Set Commander to transparently interface to the DB2 database. You can specify the name of a database file right from option 2 (edit), or use the E(dit) line command in an Data Set Commander OLIST (Object List).

Similar to registering the VSAM editor/browser you have in your installation, the Customization Wizard lets you register other products—one for each object class.

The Data Set Commander open architecture lets you register your own method—a CLIST or REXX exec that would automatically gain control whenever an object is selected.

Therefore you can write your own interface to support objects for which you do not have the appropriate third-party product. A typical example might be someone who wrote their own CA-Librarian interface instead of using the Data Set Commander supported CA-ELIPS product.

What's new in version 8.1

Here are the changes to DSC.

New product mission and architecture
- Provide enhanced productivity and automated functionality to z/OS based data set operations.
- Include four main components:
  1. Interactive menu driven front end to ISPF (formerly known as IPT).
  2. Batch utility for replacing IEBCOPY with enhanced partitioned data set manipulation functions.
  3. A Monitor started task for automating the refreshing of z/OS LLA managed directory entries.
  4. Facilitate the filtering out of SMF records of irrelevant data sets.

New product name updates
- The former ISPF Productivity Tool has been renamed to Data Set Commander.
- All display panels contain a -DSC- (instead of -IPT-) in the top left corner.

New product registration
- DSC may be included in the "IBM PD SOLTN PAC" solution package with a product id 5655-PDS.

DSC Monitor started task (IQIMONTR)

This is a brand new component of the product. It runs as a started task, from an APF authorized library, in one or more selected z/OS images of a SYSPLEX. It listens for updated to LLA managed libraries and automatically refreshes the pertinent LLA directory entries across all monitored nodes of the SYSPLEX.

The DSC Monitor supports a comprehensive set of operator console commands, providing complete control of its performance settings and operations. An independent feature of the DSC Monitor is the facility to bypass the recording of SMF record types types 14, 15 (DFSMS CLOSE SVC), type 17 (SCRATCH data set), type 18 (RENAME data set), type 42 (DFSMS Partitioned Data Set directory update), type 62 (VSAM OPEN), and type 64 (VSAM CLOSE) pertaining to data set names matching a set of customer defined selection and exclusion statements. This is called the SMF Record Filtering Facility.

Batch Utility Copy PDS Audit trail Facility

This is an independent feature of the DSC Monitor for generating SMF record type 42 while copying partitioned data set members via the DSC batch utility.

Note: IEBCOPY utility does not generate such SMF records.

SMF Record Filtering Facility

This is an independent feature of the DSC Monitor, allowing the customer to control recording of SMF record types 14, 15 (DFSMS CLOSE SVC), type 17 (SCRATCH data set), type 18 (RENAME data set), type 42 (DFSMS Partitioned Data Set directory update), type 62 (VSAM OPEN), and type 64 (VSAM CLOSE). For information on how to specify the SMF filtering statements, see "SMF Record Filtering Definition File" on page 15.

DSC Monitor Menu Driven Control Center

This is a brand new application of the DSC interactive component. It provides a complete menu driven operator interface to the operation of all DSC Monitor nodes in a SYSPLEX.

DSC Batch Utility
• Dynamic optimization of below 16MB storage utilization.
• Support for z/OS V2.1 PDSE member generations.

MSL enhancements
• Support for z/OS V2.1 PDSE member generations providing the facilities for: display, edit, browse, copy, move, delete and recover of member generations.
• Enhanced member list display for ISPF extended statistics and PDSE member generations.
• Enhanced support of data set names containing system symbols.

OLIST enhancements
• Support for z/OS V2.1 PDSE member generations.
• Enhanced support of data set names containing system symbols.
• Improved sharing of a permanent OLIST library among multiple concurrent DSC sessions.

Command shortcuts
• New command shortcut "DSCMON" starts the DSC Monitor control center application.
• All IPTxxxx command shortcuts from IPT V7.1 are still supported as well as their corresponding DSCxxxx names.

DSC active status profile variable
• Applications that need to verify whether DSC is active may now check whether profile variable IQIDSCON or IQIIPTON is present and contains a value "YES".

DSC batch utility
• Support for z/OS V2.1 PDSE member generations.

IQIWIZRD customization wizard updates
• Specify RACF resource name and default operator authorization for using the DSC Monitor Control Center application.

- Enable or disable support for PDSE version 2 member generations. This site-wide option may be overridden, either way, by each user.
- Set default operator authority for the DSC Monitor Control Center.

z/OS level support and ISPF compatibility

Data Set Commander Version 8 has been tested and certified to run on z/OS V2.1 and the corresponding release of ISPF (internally numbered 7.1). It requires a minimum of z/OS Version 1 Release 11.

Rolled-up maintenance

All required, accumulated maintenance has been "sourced" and included in this release.

DSC web link

http://www.ibm.com/software/products/us/en/data-set-commander

What's new in version 7.1

Here are the changes to IPT (ISPF Productivity Tool - the name of the product before Data Set Commander).

OLIST enhancements

- New support for an optional "PUBLIC" OLIST library for storing site-wide common Object Lists. A public OLIST may only be modified by an authorized IPT administrator and cannot be overridden by an unauthorized user.
- New support for an optional "READ-ONLY" OLIST library for storing site-wide common Object Lists. A read-only OLIST may only be modified by an authorized IPT administrator but it may be customized by a user and stored as a private permanent OLIST.
- Permanent OLIST library management has been enhanced to include and synchronize all user accessible OLISTs by priority of: PUBLIC, PRIVATE, and READ-ONLY libraries. The display of all "Permanent Object Lists" ("O*") supports all user accessible OLISTs and enables the user to update OLIST descriptions, define new "Dynamic OLIST" entries, import permanent OLISTs, and rename or delete private OLISTs.
- New line command "CLONE" (or "CLON") provides a comprehensive menu for cloning any given NON-VSAM data set.
- New dynamic OLIST object type "DD=<ddname>" can be specified in an OLIST. When selected it displays an object list of all data sets allocated to <ddname> or of all currently allocated data sets (if blank).
- "COPY" line command supports sequential data sets of different attributes.
- New main command "FILLCLAS" (or "FC") is an alias name of "FILLVOL" ("FV"). It checks the existence and attributes of each object of a given OLIST and updates all CLASS and VOLUME fields.
- New main command "LISTCLON" (or "LISTCL") populates an OLIST with clone data set names matching a given pattern.
- New main command "LISTNVS" (or "LISTN") populates an OLIST with NON-VSAM data set names matching a given pattern.
- New main command "SHOWARCH" (or "SHOWARC") is an alias name of "SHOWMIG" ("SHOWM"). It controls the hiding (exclusion) of migrated dataset objects.
- "FREE" line command has been enhanced to allow for compress, release of data set free space, as well as consolidation of consecutive space extents.

- Executed CLIST and REXX EXECs can optionally receive a VOLSER parameter (in addition to the OBJECT NAME), based on an IPT site-wide customization.
- SHOWCMD ON status marker "*SHOW*" or SHOWCMD OFF status marker "*EXEC*" is included in each OLIST display to assist in CLIST execution.

MSL enhancements

- Enhanced main entry panel (main options 1, 2, V) now supports an extended "ISPF Project" field. When IPT SCLM support is enabled, a new field for an "SCLM alternate project" is also included.
- ISPF Extended Statistics are now fully supported by IPT even in a z/OS V1R10 and older versions. The "STATS" (or "Z") command can create or update a member's ISPF Statistics in "standard" and "extended" format.
- New line command "I" displays in detail the "standard" and "extended" ISPF statistics for a non-load-module member. It displays a load-module map for load-module member (like "L" line command).
- New main command "CLONE" (or "CLON") provides a comprehensive menu for cloning any library in the currently displayed member list concatenation.
- Main commands "COPY" and "MOVE" (line commands "C" and "M") can copy-merge multiple selected members into a sequential data set.
- Support for TSO commands and CLISTs has been enhanced to provide an easy to use interface for executing TSO functions via the line command as well as main command fields.
- New main command "UTIL" directly invokes the ISPF Utility Selection Panel from the member list display.
- New main command "SHOWCMD" (or "SHOWC") controls the prompt display of a TSO command (or CLIST) before execution.
- Executed CLIST and REXX EXECs can optionally receive a VOLSER parameter (in addition to the OBJECT NAME), based on an IPT site-wide customization.
- SHOWCMD ON status marker "*SHOW*" or SHOWCMD OFF status marker "*EXEC*" is included in each OLIST display to assist in CLIST execution.
- Member tagging has been revamped and significantly enhanced. Members may be easily tagged via the "+" line command or the TAG (also "+") main command.
- Most member related main and line commands come with a "tagged variation", that operates only on members with tags matching a given tag pattern.
- A new comprehensive member title management facility has been created. It enables the user to enter new member titles with optional user keys, and then modify or remove them. A new main command "SHOWTITL" (or "SHOWT") controls the member list title display mode.
- New line commands "(" and ")", prompt the user with an entry panel for displaying or updating the member title and user key.
- A new main command "TITLE" (or "TITL") provides the user complete control over the library member title list. It can STORE, EMPTY, REFRESH, IMPORT, and MIGRATE the member title list.
- A new main command "FILTTITL" (or "FIL(") can filter the member list by a given pattern of a member title.
- A new main command "FINDTITL" (or "F(") can locate the next occurrence of a member title matching a given pattern.
- A new main command "SORTTITL" (or "SORT(") can sort members in ascending or descending order of member title.
- A new main command "FILTUKEY" (or "FIL)") can filter the member list by a given pattern of member user keys.
- A new main command "FINDUKEY" (or "F)") can locate the next occurrence of a member user key matching a given pattern.
- A new main command "SORTUKEY" (or "SORT)") can sort members in ascending or descending order of member user keys.

- The "FIND" command has been enhanced to search for member names by pattern.
- The "SAVE" command has been enhanced to provide the option of storing or printing a member list with all associated titles and user keys.
- The "FILTER" command has been enhanced to support all variations of the following relation operators: EQUAL, GREATER-THAN, LESS-THAN, BEGIN-WITH, END-WITH, CONTAINED-IN, MATCHING-PATTERN, plus an optional NOT operator for all of supported relations.
- The new "HIDE" main command has been added to support an identical syntax as "FILTER" and assume an implied "NOT" of the specified relation.
- The "UNFILTER" main command has been enhanced to support a history of all active filtering commands.
- Revamped MSL online Assist facility which includes all updates to prior and new commands.
- Member lists can be fully displayed in a maximum screen size of 102 rows by 80 columns.

EDIT/VIEW enhancements
- New main command "CLONE" (or "CLON") provides a comprehensive menu for cloning the currently being edited member library or sequential data set.

Object name Point-and-Shoot enhancements
- IPT Object name Point-and-Shoot facility supports name strings that contain TSO variable &SYSUID as well as z/OS System Symbols.

Command shortcuts
- New command shortcut "INAME" sets up a permanent screen name to current ISPF split and displays the ISPF "SWAPBAR".
- New command shortcut "OLCL" (or "OLCLONE") displays a temporary object list of all clone data sets, matching a given pattern.
- Command shortcut "OLDD" (or "OLDDNAM") displays a temporary object list of all data sets currently allocated to your TSO session in ascending order of DD names.
- New command shortcut "OLN" (or "OLNVSAM") displays a temporary object list of all NON-VSAM data sets, matching a given pattern.

IPT SET user default updates
- Option to prefer native (generic) data set name patterns instead of the more limited DSLIST pattern convention.
- Include or remove the optional TSO command parameter in OLIST display.

IQIWIZRD Customization Wizard updates
- Specify site-wide names of OLIST PUBLIC and READ-ONLY libraries.
- Specify site-wide clone data set name suffix (default ".CLONE")
- Specify site-wide member name (default "Z999TITL") of partitioned library member title list.
- Provide values for PEL supported dialog variables: UDLG1 UDLG2 UDLG3 UDLG4 .

IPT Panel Extension Language (PEL)

The IPT Panel Extension Language (PEL) is now available for selected application panels. It provides support for improved productivity and control over panel definitions by allowing the panel developer to use:
- Common panel sections can be shared across multiple panels via the include panel member facility (like a COBOL COPY statement).

- Multiple panel versions can be dynamically generated based upon environmental conditions (via special IF/ELSE statements). With this facility, panels can be created with different lines used for different versions of ISPF, different groups of users, different logon procedures, different programs, and more.
- Ability to create panels that co-exist in multiple ISPF environments. Panel sections that are dependent on specific ISPF versions, may be dynamically enabled or disabled based on the current ISPF version.
- Ability to control user application panels based on the customized values of up to four user-defined dialog variables: UDLG1 UDLG2 UDLG3 UDLG4.

IPT Active Status Profile Variable

- Applications that need to verify whether IPT is active may now check whether profile variable IQIIPTON is present and contains a value "yes".

IPT batch utility

This is a brand new component of IPT. It is implemented as a seamlessly integrated front end to IBM's IEBCOPY utility. In addition to supporting all IEBCOPY standard functionality, it includes the following major enhancements:

- Less restrictive control statement syntax.
- Support dynamic allocation of input and output data sets via new keywords INDSN, INVOL, OUTDSN, OUTVOL.
- Support selection and exclusion of members matching patterns with wild cards characters "*" (any string) and "%" (any single character).
- Support emptying a partitioned library via EMPTY control statement.
- Support deleting members by a DELETE control statement followed by any number of SELECT and EXCLUDE statements including member name patterns.
- Support renaming of members via the RENAME control statement followed by a number of SELECT statements including member name patterns. .
- Support aliasing of members via the ALIAS control statement followed by a number of SELECT statements including member name patterns. .
- Support user-defined member title management (see IPT MSL support above).

z/OS level support/ISPF compatibility

IPT has been tested and certified to run on z/OS Version 1 Release 13 and the corresponding release of ISPF (internally numbered 6.3). Requires a minimum of z/OS Version 1 Release 9.

- Full support for z/OS Extended Volume Architecture (EAV).
- Full support for ISPF Extended Statistics member directory entries.

Rolled-up maintenance

All required, accumulated maintenance has been "sourced" and included in this release.

Chapter 2. Data Set Commander installation and customization

This chapter describes the requirements to install Data Set Commander, the installation procedures, and customization of Data Set Commander. The delivered product code must be installed and maintained using SMP/E as described in the Program Directory for IBM Data Set Commander V8.1.0, program number 5635-ISP, FMID HIQI810. The following figures list the target and distribution libraries (data sets) used by Data Set Commander, and their contents.

Table 1. Distribution data set descriptions

Library	Description
AIQICLBV	DSC CLIST library (variable blocked)
AIQICLIB	DSC CLIST library (fixed blocked)
AIQIINST	DSC installation and maintenance sample JCL library
AIQILOAD	DSC Linklist load library
AIQILPA	DSC LPA load library
AIQIMLIB	DSC ISPF-message library
AIQIPLIB	DSC ISPF-panel library
AIQISLIB	DSC ISPF-skeleton library
AIQITLIB	DSC ISPF-table library

Table 2. Target data set descriptions

Library	Description
SIQICLBV	DSC CLIST library (variable blocked)
SIQICLIB	DSC CLIST library (fixed blocked)
SIQIINST	DSC installation and maintenance sample JCL library
SIQILOAD	DSC Linklist load library
SIQILPA	DSC LPA load library
SIQIMLIB	DSC ISPF-message library
SIQIPLIB	DSC ISPF-panel library
SIQISLIB	DSC ISPF-skeleton library
SIQITLIB	DSC ISPF-table library

Installation requirements

The following system software is required for the installation and operation of Data Set Commander Version 8.1:

- z/OS Version 1 Release 11 or later operating system

Installing Data Set Commander does not require an IPL or authorized mode. Since Data Set Commander is invoked through libraries pointed to by the TSO LOGON procedure or CLIST, you can install it on a system-wide basis or only for selected programmers.

Data Set Commander code is fully reentrant. Most of Data Set Commander code resides above the 16- megabyte line. Most working storage that Data Set Commander uses is also acquired above the line.

Data set naming conventions

The names assigned to Data Set Commander libraries have the following structure:

- A first-level qualifier (Project). The default value used throughout this manual is IQI. You can change this value during the installation process.
- A middle-level qualifier (Group) specifying the Data Set Commander release level. The default value used throughout this manual is V8R1M0.
- A library qualifier (Type) specifying the Data Set Commander target library type. For example, the qualifier for the panel library is SIQIPLIB.

Using these naming conventions (Project.Group.Type), the name for the Data Set Commander message library for version 8.1.1 is IQI.V8R1M1.SIQIMLIB.

Product registration

When DSC is delivered via the "IBM PD Solution Pack" (Program-Id 5655-PDS), specify this entry in the active IFAPRDxx member of the system PARMLIB:

```
PRODUCT OWNER('IBM CORP')
        NAME('IBM PD SOLTN PAC')
        ID(5655-PDS)
        VERSION(*) RELEASE(*) MOD(*)
        FEATURENAME('PROB-DET-SOL-PAC')
        STATE(ENABLED)
```

When a DSC component determines at startup that the PD Solution Pack is registered with a STATE(DISABLED), it automatically disables itself.

References

For more information, see:
- *z/OS MVS Initialization and Tuning Guide*
- *z/OS Planning for Installation. z/OS MVS Programming: Product Registration*

Creating Data Set Commander base (as delivered) environment

The Data Set Commander delivered code is designed to work above any already existing ISPF environment. The only requirement for creating an Data Set Commander base environment is to modify an existing TSO LOGON procedure as described below. Any additional customization can be done later after verifying that the Data Set Commander base environment is running as expected. The Data Set Commander installation process can be performed while ISPF users are active.

Note: Some installations prefer to use a CLIST to perform the same task. However, unless you have a dynamic STEPLIB capability, you cannot allocate STEPLIB through a CLIST or REXX EXEC. If you want to use a CLIST or REXX EXEC to allocate the Data Set Commander libraries, you have to place the DSC LPA load library in LPALIB. All the allocations required for Data Set Commander must be active before Data Set Commander is started. LIBDEFs can be used for applications called within Data Set Commander, but not for Data Set Commander itself.

Note: Some of the DD names required for Data Set Commander are new DD names. Do not confuse them with existing ISPF DD names.

Creating Data Set Commander base (as delivered) environment

The following JCL example illustrates the changes you should make to a copy of your LOGON procedure or you can incorporate the changes into a new LOGON procedure that you create:

```
//STEPLIB  DD  DISP=SHR,DSN=IQI.V8R1M0.SIQILPA                1
//         DD  DISP=SHR,DSN=IQI.V8R1M0.SIQILOAD               2
//         DD  .
//ISPLLIB  DD  DISP=SHR,DSN=IQI.V8R1M0.SIQILPA                1
//         DD  DISP=SHR,DSN=IQI.V8R1M0.SIQILOAD               2
//         DD  .
//SYSPROC  DD  ...
//         DD  DISP=SHR,DSN=IQI.V8R1M0.SIQICLIB               3
//ISPMLIB  DD  ...
//         DD  DISP=SHR,DSN=IQI.V8R1M0.SIQIMLIB               4
//ISPPLIB  DD  ...
//         DD  DISP=SHR,DSN=IQI.V8R1M0.SIQIPLIB               5
//ISPSLIB  DD  ...
//         DD  DISP=SHR,DSN=IQI.V8R1M0.SIQISLIB               6
//IQITLIB  DD  DISP=SHR,DSN=IQI.V8R1M0.SIQITLIB               7
//IQIUTIN  DD  DISP=NEW,UNIT=VIO,                             8
//             SPACE=(CYL,(1,1)),RECFM=FB,LRECL=80,BLKSIZE=4000
//IQIUTOT  DD  DISP=NEW,UNIT=SYSALLDA,                        8
//             SPACE=(CYL,(2,2)),RECFM=FBA,LRECL=121,BLKSIZE=4840
//IQIUT03  DD  DISP=NEW,UNIT=VIO,SPACE=(3,1)                  8
//IQIUT04  DD  DISP=NEW,UNIT=VIO,SPACE=(3,1)                  8
//IQIPANEL DD  DISP=SHR,DSN=IQI.V8R1M0.SIQIPLIB(ISR@PRIM)     9
//IQISCLM  DD  DUMMY                                          10
```

1 The LPA Load Library SIQILPA
>   This library must be in DD(STEPLIB) or installed in the LPA. If you do not change the TSO LOGON procedure, use a dynamic STEPLIB utility for the LPA load library. During initial Data Set Commander testing, put this library in DD(ISPLLIB).
>
>   **Important note:** The SIQILPA library must always be specified ahead of the corresponding ISPF SISPLPA library. This ensures that ISPF main entry points ISPF, ISPSTART, and PDF first run the Data Set Commander main program.
>
>   The Data Set Commander load modules can be moved to LPALIB or any other system library. For performance reasons, LPALIB is recommended. Since most of Data Set Commander resides above the line, extended LPA can be used.

2 DSC Load Library SIQILOAD
>   This library can be placed in DD(ISPLLIB) or DD(STEPLIB).

3 CLIST Library SIQICLIB or SIQICLBV
>   Add the CLIST library to the DD(SYSPROC) concatenation. It is recommended that the Data Set Commander CLIST library be placed first in the concatenation.

4 Message Library SIQIMLIB
>   Add the message library to the DD(ISPMLIB) concatenation.

5 DSC panel library SIQIPLIB
>   Add the panel library to the DD(ISPPLIB) concatenation. It is recommended that Data Set Commander panel library be placed first in the concatenation.
>
>   **Note:** Data Set Commander performs its own panel processing optimization. However, you can pre-process other panel libraries in the concatenation.

Creating Data Set Commander base (as delivered) environment

If you have software packages that simulate allocations (like TSOPLUS, TSORX), do not use these to simulate the Data Set Commander panel library allocation to ISPPLIB.

6 Skeleton Library IQISLIB

Add the skeleton library to the DD(ISPSLIB) concatenation.

7 Table Library SIQITLIB

Add a new statement for the table library with DD(IQITLIB). Do not confuse this DD name with ISPF's ISPTLIB.

8 Utility work files

DD statements IQIUTIN, IQIUTOT, IQIUT03 and IQIUT04 are optional. If omitted, Data Set Commander dynamically allocates these files as temporary data sets, allocated to the UNIT name specified for allocating a new OLIST library (SYSALLDA by default).

9 Main panel

IQIPANEL is an optional DD statement. If specified, it provides the installation the ability to designate the name of the main panel that ISPF uses when ISPF, PDF, or ISPSTART is invoked without parameters. If any parameter (such as PANEL(name), PGM(xx), or CMD(xxx)) is specified, the IQIPANEL statement is ignored.

Example:

```
ALLOC DD(IQIPANEL) SHR DA('IQI.V8R1M0.SIQIPLIB(MYPRIM)')
```

Data Set Commander uses the member name specified with the DD name "IQIPANEL" as the name of the main panel to use, and MYPRIM as the default main panel name. The library used in the DD(IQIPANEL) is ignored; only the member name is inspected. The panel itself must reside in some library of the standard DD(ISPPLIB) concatenation.

In a common setup, the installation may have different main panels for different groups of users stored in one library concatenated to DD(ISPPLIB). The installation would then have a different IQIPANEL allocation for these groups, each having the appropriate member specified in the IQIPANEL allocation.

A special variation of IQIPANEL is a DD name IQIPANxx where xx stands for the current version of ISPF (namely IQIPAN59 for ISPF Version 5.9 and above). If Data Set Commander finds an IQIPANxx allocation, it overrides the IQIPANEL allocation. The purpose of the IQIPANxx allocation is to allow use of the same panel concatenation for different versions of ISPF.

10 SCLM activation DD name (optional)

Data Set Commander provides integrated SCLM support. If you choose to activate the Data Set Commander SCLM support for selected users, you need to allocate the DD(IQISCLM) for each user. This DD statement may specify a DUMMY file as follows:

```
//IQISCLM DD DUMMY
```

or

```
ALLOC DD(IQISCLM) DUMMY
```

The Data Set Commander base environment installation is now complete. You may start using the modified TSO LOGON procedure to run your ISPF under Data Set Commander control.

Note: To finish the full installation, you may need to further customize the Data Set Commander environment. The next two sections provide the detailed instructions.

Special purpose optional DD statements

You may optionally add these DD statements to the DSC logon procedure or dynamically allocate them before executing DSC, in order to affect the results of DSC initialization:

//STDISPF DD DUMMY
> Causes DSC initialization to irrevocably pass control to ISPF without any remaining DSC functionality.

//IQICMDOF DD DUMMY
> Causes DSC initialization to automatically issue an `DSC CMDS OFF` command to disable all command shortcuts specified in member IQIDCMDS of library SIQITLIB.

//IQIOFF   DD DUMMY
> Causes DSC initialization to automatically issue an `DSC OFF` command to disable normal DSC functionality. You subsequently activate all DSC functions by issuing a `DSC ON` (shortcut DSCON) command.

//IQIPANEL DD DISP=SHR,DSN=<PDSlib>(<PanName>)
> Causes DSC initialization to use PanName as the primary menu panel name.
>
> **Note:** The panel member must be found in the DD(ISPPLIB) concatenation.

//IQIPAN5x DD DISP=SHR,DSN=<PDSlib>(<PanName>)
> Causes DSC initialization to use PanName as the primary menu panel name for ISPF version 5.x.
>
> **Note:** The panel member must be found in the DD(ISPPLIB) concatenation.
>
> **Example:** IQIPAN59 will be in effect only when running DSC under z/OS v1.9 (with ISPF v5.9).

//IQISCLM DD DUMMY
> When DSC is customized (see Appendix I, "The customization wizard IQIWIZRD," on page 53) to conditionally support SCLM, this DD statement will cause enablement of the DSC SCLM interface.

DSC monitor

DSC includes an APF-authorized started task monitor (IQIMONTR).

End users can communicate with IQIMONTR using operator commands issued to the IQINONTR address space, or via the DSCMON Control Center ISPF application.

Only a single DSC Monitor task can be active in any given node (z/OS image) of a sysplex. There may be multiple concurrent instances of the DSCMON Control Center application, communicating with the IQIMONTR address-space using z/OS cross-memory services.

All active IQIMONTR tasks of a sysplex communicate with each other via the z/OS Cross-System-Coupling-Facility (XCF).

In order to control the DSC Monitor operation a user is expected to have one of the following RACF defined authority levels:

FULL   Complete control to start, stop, modify, and display Monitor status.
LIBS   Modify monitored LLA libraries status and display Monitor status.
VIEW May only display Monitor status.
NONE
        No authority at all.

IQIMONTR requires the ability to dynamically establish and activate SMF IEFU83 and IEFU84 system user exits in order to examine SMF records type 14, 15 and type 42.

JCL procedure

A sample JCL procedure is provided in member IQIJMON of the SIQIINST target library. The sample should be copied into the system PROCLIB library in order to be used to start a DSC Monitor task.

Here is the procedure:

```
//***********************************************************************
//***********************************************************************
//*    LICENSED MATERIALS - PROPERTY OF IBM                            *
//*    5635-ISP (C) COPYRIGHT IBM CORP. 2013,2014.                     *
//*    ALL RIGHTS RESERVED.                                            *
//*                                                                    *
//*    US GOVERNMENT USERS RESTRICTED RIGHTS                           *
//*    - USE, DUPLICATION OR DISCLOSURE RESTRICTED BY                  *
//*      GSA ADP SCHEDULE CONTRACT WITH IBM CORPORATION.               *
//*                                                                    *
//*    PROCEDURE:  IQIJMON                                             *
//*                                                                    *
//*    FUNCTION:                                                       *
//*       EXECUTE DATA SET COMMANDER LLA MONITOR                       *
//*                                                                    *
//*       THIS JOB SHOULD BE RUN IN EACH Z/OS IMAGE OF A SYSPLEX       *
//*       THAT REQUIRES AUTOMATIC LLA REFRESH SERVICES.               *
//*                                                                    *
//*                                                                    *
//*    DESCRIPTION                                                     *
//*       THE IQIMONTR IS AN APF-AUTHORIZED STAND-ALONE JOB WHICH MAY  *
//*       SUBMITED AS A LONG RUNNING BATCH JOB OR A STARTED TASK.      *
//*       IT ACCEPTS OPERATOR COMMANDS VIA A "MODIFY" CONSOLE COMMAND  *
//*       OR VIA THE "DSCMON" MENU-DRIVEN ONLINE APPLICATION WHICH IS  *
//*       PART OF THE INTERACTIVE COMPONENT OF THE DATA SET COMMANDER. *
//*                                                                    *
//*    NOTE:                                                           *
//*       ARROWS "<==" POINT TO LINES WHICH ARE RECOGNIZED             *
//*       AS REQUIRING CUSTOMIZATION. PARAMETERS AND                   *
//*       KEYWORDS NEEDING TO BE CUSTOMIZED ARE ENTERED                *
//*       IN LOWER CASE TO MAKE THEM EASIER TO FIND.                   *
//*       ALL JCL MUST BE IN UPPER CASE BEFORE SUBMITTING              *
//*       THE JOB TO AVOID JCL ERRORS.                                 *
//*       SPECIFIC ITEMS NEEDING CUSTOMIZATION INCLUDE:                *
//*       1. ADD A JOB CARD WHEN EXECUTING IN A BATCH JOB.             *
//*       2. CHANGE "AUTHLIB" IF NECESSARY.                            *
//*       3. CHANGE "HLQ" IF NECESSARY.                                *
//*       4. LIST OF MONITOR OPTIONS ENCLOSED WITH SINGLE QUOTES.      *
//*       5. CHANGE "OUTCL" IF NECESSARY.                              *
//*       6. CHANGE "SMFILTER" IF NECESSARY, AND SPECIFY "SMFFILT"     *
//*          OPTION TO ACTIVATE AT MONITOR STARTUP.                    *
```

```
//*                                                                    *
//*********************************************************************
//*********************************************************************
//*
//*********************************************************************
//IQIJMON PROC AUTHLIB=SIQILOAD,   <== LOW LEVEL QUALIFIER   /*NOTE 2*/
//              DYNMAX=999,             DYNAMIC ALLOCATION LIMIT
//              HLQ=IQI.V8R1M0,    <== HIGH LEVEL QUALIFIER  /*NOTE 3*/
//              OPTS=,             <== EXECUTION OPTIONS     /*NOTE 4*/
//              OUTCL=A,           <== OUTPUT PRINT CLASS    /*NOTE 5*/
//              REG=0M,                 REGION SIZE
//              SMFILTER=NULLFILE, <== SMF FILTERING INPUT   /*NOTE 6*/
//              TIMELIM=1440            RUNNING TIME LIMIT
//*
//IQIMONTR EXEC PGM=IQIMONTR,
//              DYNAMNBR=&DYNMAX,
//              PARM='&OPTS',
//              REGION=&REG,
//              TIME=&TIMELIM
//STEPLIB  DD  DISP=SHR,DSN=&HLQ..&AUTHLIB
//IQIMTFLT DD  DISP=SHR,DSN=&SMFILTER
//IQIMTMSG DD  OUTLIM=0,SYSOUT=&OUTCL
//SYSABEND DD  OUTLIM=0,SYSOUT=&OUTCL
//*       PEND
```

A sample batch job is provided in member IQIJBMON of the SIQIINST target
library. It can be used for submitting a DSC Monitor batch job.

For a description of the execution parameters for IQIMONTR, see the *DSC User's
Guide and Reference*.

SMF Record Filtering Definition File

This sequential file contains SELECT and EXCLUDE statements of the target data
set names. Member IQIMTFLT of the SIQITLIB library is an example of expected
input file.

```
*----------------------------------------------------------------------*
*  IBM Data Set Commander                                              *
*  5635-ISP (C) Copyright IBM Corp. 2012,2014. All rights reserved.    *
*----------------------------------------------------------------------*
*                                                                      *
*----------------------------------------------------------------------*
*                 SMF record filtering Table                          *
*                 =========================                           *
*                                                                      *
* The DSC Monitor SMF filtering function may be used to direct SMF to *
* suspend recording of SMF records pertaining to irrelevant data sets.*
* SMF filtering is enabled when DD IQIMTFLT, of the DSC Monitor job    *
* or started task, specifies a partitioned data set source member or  *
* a sequential data set with at least one valid SELECT or EXCLUDE      *
* statement.                                                           *
*@Note: SMF record types 14, 15, 17, 18, 42, 62, and 64 of data set   *
*       names that are explicitly or implicitly filtered out,         *
*       will not be recorded.                                         *
*                                                                      *
*              Syntax                                                 *
*              ------                                                 *
*<> Significant text - columns 1 to 71.                              *
*<> Comment line - any non-action text.                             *
*     Starts with "*" in column 1.                                    *
*<> Selection statement - specifies a distinct data set name or a    *
*     data set name pattern mask, preceded by a "S=" or "SELECT=" .   *
*     May start at column 1 or be preceded by one or more blanks.     *
*     Ends with blank after the data set name string.                 *
*<> Exclusion statement - specifies a distinct data set name or a     *
```

```
|              *        data set name pattern mask, preceded by an "E=" or "EXCLUDE=" . *
|              *        May start at column 1 or be preceded by one or more blanks.     *
|              *        Ends with blank after the data set name string.                 *
|              *                                                                        *
|              *                Filter processing rules                                 *
|              *                -----------------------                                 *
|              *<> EXCLUDE statements have priority over SELECT statements.             *
|              *<> When a data set name does not match any filter statement, it will    *
|              *   be excluded if at least one SELECT statement is present,             *
|              *   or included if only EXCLUDE statements are present.                  *
|              *                                                                        *
|              *                Pattern mask rules                                      *
|              *                ------------------                                      *
|              *<> "%" character is the "any single character" wild-card.               *
|              *<> "*" character is the "any character string" wild-card.               *
|              *<> both wild cards may represent a potential "." (dot) character.       *
|              *<> an "all wild cards" mask is unacceptable.                            *
|              *                                                                        *
|              * Distinct data set selection examples                                   *
|              * ------------------------------------                                   *
|              SELECT=IQI.SIQIPLIB
|              EXCLUDE=IQI.SIQITLIB
|              *
|              * Data set pattern mask selection examples                               *
|              * ----------------------------------------                               *
|                S=SYS%.*IQI*LIB
|                E=SYS1.AIQI*
|              *                                                                        *
|              *----------------------------------------------------------------------*
|              *  IBM Data Set Commander                                                *
|              *  5635-ISP (C) Copyright IBM Corp. 2012,2014. All rights reserved.      *
|              *----------------------------------------------------------------------*
```

APF authority

The load library containing load modules IQIMONTR, IQIMONCA, IQIMON24 and IQIMON31 must be defined as an APF authorized library. These modules normally reside in the SIQILOAD target library. Failure to do so will cause the address space to terminate with return code of 24, with the following messages in the JESMSGLG of the job output.

```
+IQIMT100E IQIMONTR MUST RESIDE IN AN APF AUTHORIZED LIBRARY
+IQIMT064I MONITOR SHUTTING DOWN
```

z/OS console command SETPROG may be used to APF-authorize a library, for example:

```
SETPROG APF,ADD,DSN=IQI.V8R1M0.SIQILOAD,SMS
```

RACF authority

IQIMONTR is protected via the following RACF defined resource entities:

```
ENTITY=IQIMONTR.OPER of CLASS=FACILITY
ENTITY=IQIMONTR.TSO of CLASS=FACILITY
```

The expected RACF user authorization levels may be defined as follows:

```
FULL - LEVEL=CONTROL for ENTITY=IQIMONTR.OPER of CLASS=FACILITY
LIBS - LEVEL=ALTER for ENTITY=IQIMONTR.OPER of CLASS=FACILITY
LIBS - LEVEL=UPDATE for ENTITY=IQIMONTR.OPER of CLASS=FACILITY
LIBS - LEVEL=CONTROL for ENTITY=IQIMONTR.TSO of CLASS=FACILITY
VIEW - LEVEL=READ for ENTITY=IQIMONTR.OPER of CLASS=FACILITY
VIEW - LEVEL=UPDATE for ENTITY=IQIMONTR.TSO of CLASS=FACILITY
VIEW - LEVEL=READ for ENTITY=IQIMONTR.TSO of CLASS=FACILITY
NONE - All other possible RACF levels.
```

SMF Dynamic User Exit

IQIMONTR requires the ability to dynamically establish an SMF IEFU83 system user exit in order to examine SMF records type 15 and type 42.

Member PROGxx of the system PARMLIB should include the following statements:

```
EXIT ADD EXITNAME(SYS.IEFU83) MODNAME(IEFU83)
EXIT ADD EXITNAME(SYSSTC.IEFU83) MODNAME(IEFU83)
EXIT ADD EXITNAME(SYS.IEFU84) MODNAME(IEFU84)
EXIT ADD EXITNAME(SYSSTC.IEFU84) MODNAME(IEFU84)
```

Member SMFPRMxx of the system PARMLIB should include the following statements:

```
SYS(TYPE(...,14,15,...42,...)...)
SYS(EXITS(...,IEFU83,IEF84,..))
SUBSYS(STC,EXITS(...,IEFU83,IEFU84,...))
```

Cross-Coupling-Facility (XCF) naming convention

Each active IQIMONTR task dynamically registers (that is, joins) into the sysplex XCF environment with:

```
XCF GROUP NAME: IQIMONTR (8 characters)
XCF FUNCTION DESCRIPTION: IBM DSC_LLA_MONITOR (24 characters)
XCF MEMBER NAME: host system name (8 characters)
```

References

For more information, see:
- *z/OS MVS Initialization and Tuning Guide*
- *z/OS Security Server RACF System Programmer's Guide*
- *z/OS MVS Programming: Sysplex Services Guide*
- *z/OS MVS Setting Up a Sysplex*
- *z/OS MVS Programming: Sysplex Services Reference*
- *z/OS MVS System Commands*

Replacing IEBCOPY with DSC batch utility IQIBUTIL

Running the wizard IQIWIZRD updates the DSC defaults for your installation. These defaults are required by the batch utility and they reside in member IQIDFLTS of the SIQIPLIB you specified when invoking the wizard.

The batch utility sample JCL in SIQIINST(IQIJUTIL) shows DD statement for IQIBUDFL.

The batch utility searches for the defaults in the following order:
1. In the DDNAME IQIBUDFL. This is the SIQIPLIB which contains member IQIDFLTS.
2. In a module called IQIBUDFL. This module contains the data set name which has the IQIDFLTS member.
3. In a system PARMLIB member called IQIDFLTS.

For an installation wishing to exploit the enhanced functionality of the batch utility, it is possible to specify the location of the defaults without the additional IQIBUDFL DD statement. This means that existing JCL calling IEBCOPY can run the batch utility without change.

IQIDFLTS in PARMLIB

Place the contents of the modified SIQIPLIB(IQIDFLTS) in a system PARMLIB. Users require READ access to PARMLIBs. This method does not work at installations where users do not have READ access to system PARMLIBs.

IQIBUDFL module

Use the sample job in SIQIINST(IQIJBDFL) to specify the data set name containing the defaults member. Submit to assemble and bind to the batch utility load library.

IEBCOPY replacement

Add alias name IEBCOPY to module IQIBUTIL or copy IQIBUTIL to another library with a new name of IEBCOPY.

References

For more information see:
* *z/OS DFSMSdfp Utilities*
* *z/OS MVS Initialization and Tuning Reference*

Data Set Commander single point of maintenance option

Data Set Commander is designed to be z/OS and ISPF release independent. It dynamically enables or disables any Data Set Commander functions that are dependent on certain z/OS or ISPF releases. As a result, you may consider maintaining a dedicated SMP/E global zone serving as a single point of Data Set Commander maintenance for all z/OS images of your enterprise.

Customizing the ISPF primary menu panel

The primary menu panel customization is totally optional since the entire Data Set Commander functionality is available from any panel by entering main commands such as: OLIST, EDIT, VIEW, BROWSE, TSO.

Modify the ISPF main menu. See Appendix D, "Sample modified main menu panel," on page 37 for a sample illustration. Changes to the main panel are made to a copy of your installation's main ISPF menu stored in the Data Set Commander panel library. In this way, the original panel is left intact and other users currently logged-on to Data Set Commander are not affected while the changes are being made. Perform the following procedure to modify the ISPF main menu:

1. Copy the panel to be changed (typically ISR@PRIM or ISR@MSTR) to the Data Set Commander panel library (IQI.V8R1M0.SIQIPLIB).
2. Invoke EDIT on the panel in the DSC panel library.
3. Change the title line to indicate that Data Set Commander is installed. For example, change the title

   ```
   ISPF MAIN MENU
   ```

   to

   ```
   DSC/ISPF PRIMARY OPTION MENU
   ```
4. For consistency with other Data Set Commander panels, change the first five positions on the title line to the characters -DSC-.

> **Note:** If the / character is defined as an attribute character, you may have to change the attribute character in the)ATTR section to another unused value and change the panel accordingly.

5. In the)PROC section, add the following line immediately after the) PROC line, starting in column 1:

   ```
   &WTRAIL=TRUNC(&ZCMD,'.') &WTRAIL=.TRAIL ".
   ```

6. Add a new menu option for OLIST (The Object List). In the body section, add a description line:

   ```
   O OLIST - DSC Object/Data Set List
   ```

7. Optionally add VIEW or BROWSE to the main menu.

   The ISPF function that invokes VIEW (typically main option 1) is specified by the "PGM(ISRBRO)" statement in the)PROC section. Data Set Commander automatically traps this call and invokes either BROWSE or VIEW. The choice taken by Data Set Commander may be defined by the Customization Wizard or by each user through the DSC SET command. Also, in each of those cases Data Set Commander displays a Member Selection List (MSL) main menu in which the user may override the default function for selected members. If you still would like to explicitly define a separate option for VIEW (or BROWSE), in the body section, add a description line:

   ```
   V VIEW - Display and optionally change source data or listing
   ```

8. In the)PROC section, add the following lines to the options:

   ```
   V,'PGM(IQIMSL) PARM(V,<PROMPT>) NEWAPPL(ISR) PASSLIB SCRNAME(VIEW)'
   O,'PGM(IQIPLST) PARM(-,&WTRAIL) NEWAPPL(ISR) PASSLIB NOCHECK SCRNAME(OLIST)'
   ```

   > **Note:** Choose an unused option number or letter for V.

9. Add a line to the body area of the panel informing users that the Data Set Commander general commands (BROWSE, EDIT, VIEW, OLIST, and DSCHELP) are available on every ISPF panel. The Data Set Commander general commands are accessible from every panel without having to set up command table entries.

Customizing Data Set Commander

After verifying that the Data Set Commander base environment is fully operational, you should run the Data Set Commander Customization Wizard in order to customize or at least review all Data Set Commander installation settings. Perform the following steps to customize your Data Set Commander:

Step 1

> **Note:** Customization Wizard CLIST %IQIWIZRD updates SIQIPLIB member IQIDFLTS and SIQITLIB member IQITSVAL. The original copies of these members can always be restored from the corresponding distribution libraries AIQIPLIB and AIQITLIB. Alternatively, you may save the current customization settings by first copying those members into a backup source library. For more information about the customization wizard see Appendix I, "The customization wizard IQIWIZRD," on page 53.

> Logon to TSO using the modified LOGON procedure of your Data Set Commander base environment.

> While in TSO READY mode, run the Customization Wizard by entering the following command:
>
> ```
> %IQIWIZRD
> ```

Make sure that you have the following information available:

- The name of the Data Set Commander table library (for example, IQI.V8R1M0.SIQITLIB).
- The name of the Data Set Commander panel library (for example, IQI.V8R1M0.SIQIPLIB).

If you want PANVALET support using the PANVALET interface supplied with Data Set Commander:

- The name of the CA-PANVALET/ISPF source (not preprocessed) panel library.

The IQIWIZRD CLIST prompts for the name of your Data Set Commander table and panel libraries.

For the most part, the panels displayed by the Customization Wizard are self-explanatory. However, certain options require discussion. You can read about those options in the following sections or, if you prefer, you can proceed to Step 2.

DSC TSO shell

The DSC TSO shell keeps a history of TSO commands, CLISTs, or REXX EXECs issued by the user (up to 999) and displays them in the TSO Command Shell. For security reasons, you may want to exclude some commands from being recorded, for example, you may want to exclude commands that accept passwords in a visible form ("in the clear"). During customization, you are given the opportunity to add entries to a list of commands on which you specify whether recording is to be excluded. This allows you to turn recording on and off without removing entries from the list. If you turn off the recording, the list contains the PASSWORD and PROTECT commands with recording turned off when it is shipped.

The DSC TSO shell can be activated or deactivated by each user.

Data Set Commander Enhanced View Functionality

Data Set Commander offers enhancements to the VIEW function. You have a choice of SHARED VIEW and EXCLUSIVE VIEW modes, with the ability to enforce one of the two modes.

- **Shared VIEW:** VIEW that permits several users to work with the same file at the same time. Although this VIEW disables the SAVE command, a user can still save through the REPLACE command by using the same name of the member as a parameter to the REPLACE command.
- **Exclusive VIEW:** A VIEW that does ENQ on the file. Exclusive VIEW supports the SAVE command.

After choosing which view type to use as a default, you indicate whether users are permitted to override the default. If they can, the browse/edit/view entry panels as well as the options displayed by the SET command include an option that allows the user to select his own view mode.

For more information about the differences between these two view modes, see "Shared and exclusive VIEW" in the *DSC User's Guide*.

Registering Object Class Support

During the customization process you need to specify which object classes you want to support. For each object class, you must register the supporting product. Here are some of the supported objects and their

registered products. See Appendix I, "The customization wizard IQIWIZRD," on page 53 for the most up-to-date list of objects and interfaces.

Object Class: VSAM files

VSAM files supports the following products:

FileManager

IBM's advanced data file browse/edit/report facility.

FileAid

The Customization Wizard provides support for FileAid Version 6 (and below), and for FileAid Version 7 through the DataXpert interface. The FileAid interface provides access to VSAM files through browse (option 1), edit (option 2), DSLIST (option 3.4), and from OLIST.

DataXpert

The DataXpert interface is similar to the FileAid interface.

Ditto   IBM's data file browse/edit/report facility.

MacKinney

Data Set Commander interfaces to the MacKinney VSAM utility.

Sample

Data Set Commander provides access to a sample VSAM browser that uses IDCAMS to browse VSAM files. This sample interface can be used to demonstrate the transparent interface to VSAM objects. The CLIST that is invoked for the sample VSAM browser can be used as template to write your own interface or provide support for a VSAM browsing product not listed here.

User-Written

In addition to the sample VSAM browser, you can request that Data Set Commander invoke the IPIVSAM CLIST whenever a VSAM object is selected for browse, edit, or view. This provides you with the ability to create your own interface, or interface to a product not listed above.

Object Class: Panvalet

It supports Panvalet/ISPF:

Panvalet/ISPF

Two types of interfaces are provided—a program interface, and a CLIST interface. The program interface is faster, but the CLIST interface provides the ability to modify the interface (for example add LIBDEF statements) or to support other products that interface to Panvalet libraries.

Object Class: Librarian

Librarian supports CA-ELIPS.

CA-ELIPS

Similar to Panvalet ISPF, the librarian support provides a CLIST and a program interface.

Object Class: DB2

DB2 supports the following products:

CA-Pro-Edit
An interface to CA-Pro-edit is provided.

CA-Pro-Alter
Data Set Commander uses the same interface used for CA-Pro-Edit.

FileManager-DB2
IBM's advanced DB2 browse/edit/report facility.

RC/UPDATE
Support for the Platinum Technology RC/UPDATE.

FileAid/DB2
An interfaces to this product is provided.

CDB/EDIT
An interface to this product is supported.

Object Class: BOOK
BOOK supports IBM BookManager Book

IBM BookManager Book
An interface to IBM BookManager is provided.

Object Class: SHELF
SHELF supports IBM BookManager Shelf

IBM BookManager Shelf
An interface to IBM BookManager is provided.

Object Class: User-Objects
User-Objects supports User-Written.

User-Written
User-objects are installation defined. Data Set Commander invokes the CLIST/REXX exec or program of your choice to handle the user objects.

User-defined objects are specified with a leading greater-than sign (for example, >MYOBJECT)

A sample user-defined object interface is provided in CLIST IQI$OUT. The defined object is a jobname, where the browse command is defined as browsing the held output, editing as editing the held output, and view is mapped into the job-status command. Another typical use is to define mail/messages as objects and provide interfaces to the mail system, where browse is defined as browsing the mail, and edit as creating/responding to mail.

Specifying SESSION EXIT

The Customization Wizard lets you specify a SESSION EXIT. The purpose of this exit is to provide you with the ability to invoke programs (or CLISTs, or REXX execs) at the time ISPF starts, or whenever a new split is started. Unlike ISPF's initialization exit, the Data Set Commander session exit supports dialog manager commands (ISPLINK/ISPEXEC). A typical exit may be used to invoke an e-mail program to retrieve user's messages. Another possibility is to use the session exit to allocate the OLIST library. (See sample CLISTs IQICRPLS and IQICRTBL in SIQICLIB library.)

COMPRESS Function Serialization Support

The Customization Wizard offers two types of serialization for the COMPRESS function. Data Set Commander supports the mode of operation called EXCLUSIVE CONTROL, which means it locks the user's access to the library to prevent any overlay when compressing a file.

Data Set Commander also supports an alternative approach called SHARED-WRITE. It allows compression of libraries shared among multiple ISPF users and avoid the MVS ENQ propagation problem.

When the Customization Wizard completes processing, it displays the message
`INSTALLATION DEFAULTS WERE SAVED`

If Data Set Commander is already activated, the changes affect all users who log on to Data Set Commander from this point on. Users already logged on are not affected until they log off and log on again.

Note: The installation default values are kept in the Data Set Commander panel and table libraries. If you use any caching mechanisms for these libraries (for example, VLF), you may have to refresh the look-aside buffers (for example, VLFNOTE) to reflect the changes.

Note: Most of these default values can be overridden by each user by using the DSC SET command, after which they are stored in the user's PROFILE library. As a result, users of prior Data Set Commander (or SPIFFY) versions may not be affected by any changes to those site-wide default settings.

Step 2 Data Set Commander supports a large number of products from other vendors. You need to review environmental requirements to see if you need to make any adjustments. See Appendix E, "Data Set Commander and other products," on page 43 for details.

Step 3 Make Data Set Commander available to users. To provide the LOGON procedure to users, copy or move the modified LOGON procedure back into the library from which users will access it.

Note: If you add a new LOGON procedure for existing users, you may have to use the TSO ACCOUNT command or your installation's security product, or both, to authorize the use of a new LOGON procedure.

Data Set Commander installation is complete. A TSO user who logs on to the modified LOGON procedure and enters ISPF operates under Data Set Commander. A new user of Data Set Commander sees the Data Set Commander tutorial displayed before the main ISPF panel. You can press END (PF 3) to exit the tutorial. If you have modified the main menu panel, the modified panel is displayed.

When Data Set Commander starts, it checks for the presence of the DD(IQITLIB). If that DD is missing, Data Set Commander invokes standard ISPF and disable all Data Set Commander functions.

Data Set Commander general commands customization

This section explains how to customize the Data Set Commander commands that are dynamically defined to ISPF as general commands available from any panel.

Data Set Commander command shortcuts

There are 60 Data Set Commander command shortcuts that are normally defined as ISPF general commands. The verb of each of those commands can be either modified to a different (unique) command name or completely removed.

Member IQICMNDS of the DSC table library (SIQITLIB) controls all the necessary customization for Data Set Commander command shortcuts (see Appendix B, "Member IQICMNDS," on page 31). It is delivered with commented (* in first column) statements for all supported command shortcuts.

To modify any shortcut, uncomment its entry and change the second and third tokens as follows:

- To completely disable a command shortcut, blank out second token (new verb) and third token (new shortcut).
- To just modify the verb of a particular command, replace the second token (new verb) and blank out the third token (new shortcut).
- To modify the verb and shortcut of a particular command, replace the second and third tokens as required.

For example:

- To disable the shortcut for command verb "EX9" specify a statement like

  `EX9`

- To replace the verb and shortcut for command verb "EFILE" with "EVSAM" (the verb) and "EVS" (the shortcut), specify a statement like

  `EFILE  EVSAM  EVS`

Note: Any valid changes to member IQICMNDS take effect the next time you logon to Data Set Commander and are reflected in the output of the DSC? command.

Note: If member IQICMNDS is found to have a syntax error during Data Set Commander initialization, the erroneous statement is skipped and user is notified with "User-specified command overrides error report placed in DD(IQILOGPR)". You should either remove or correct the statement in error.

Member IQIDCMDS of the DSC table library (SIQITLIB) controls the names of command shortcuts that can be dynamically disabled/enabled via the DSC CMDS (DSCCMD shortcut) command (see Appendix C, "Member IQIDCMDS," on page 35). It is delivered with the following command shortcut names: BR, ED, OL, VI. To include any other shortcut in this list, uncomment its entry in member IQIDCMDS.

ISPF applications and Data Set Commander general commands

If an ISPF application invokes a main command with the name EDIT, BROWSE, VIEW, OLIST, QUIT or TSO, the Data Set Commander general command of that name is normally run, rather than the command of the application with the same name. You may handle this conflict in one of the following ways:

- Precede the command with a greater than (">") sign.

  Example:

  To have the command "EDIT" processed by an application rather than by Data Set Commander, enter the command:

  `>EDIT`

- Disable the Data Set Commander command or commands within the application or applications in conflict.

Each Data Set Commander general command is controlled by a Dialog Manager variable:

Command	Variables
EDIT	&IPIGCOED
BROWSE	&IPIGCOBR
VIEW	&IPIGCOVI
OLIST	&IPIGCOPL
TSO	&IPIGCOTS
QUIT	&IPIGCOQT

If the variable is set to null (&Z), the general command is processed by Data Set Commander. If the variable is set to 'PASSTHRU', the general command is disabled, and is processed by the application.

To completely disable the DSC EDIT, BROWSE, and VIEW general commands, you must edit the first ISPF panel of the application as shown in the following examples:

To disable BROWSE as a Data Set Commander general command, modify the panel by entering the string:

```
)INIT
&IPIGCOBR = 'PASSTHRU' /* DISABLE DSC BROWSE COMMAND FOR THIS
PANEL */
```

To re-enable the BROWSE general command, modify the panel by entering the string:

```
)INIT
&IPIGCOBR = 'PASSTHRU' /* DISABLE DSC BROWSE COMMAND FOR THIS
PANEL */:
```

The Data Set Commander CLIST library contains an edit macro that automatically adds the control variables to the)INIT section of a panel. To disable one or more Data Set Commander general commands automatically, bring up the panel you want to modify in an EDIT session. On the command line, enter the command:

```
%IQIUGCMD
```

This command inserts statements disabling all five Data Set Commander general commands into the)INIT section of the panel. You can delete any of the statements corresponding to commands that do not need to be disabled, and then save the panel.

To enable one or more Data Set Commander commands, follow the same procedure, but enter the command:

```
%IQIUGCMD ENABLE
```

If you want the commands to be enabled on exit rather than on entry to the panel, move the inserted statements from the)INIT section to the)PROC section. Delete the unneeded statements and then save the panel.

Note: If an application invokes ISPF EDIT or BROWSE (called by the ISPEXEC EDIT or ISPEXEC BROWSE service), the commands EDIT, BROWSE and VIEW are passed to the application, whose responsibility is to process these commands. If an

application explicitly invokes DSC EDIT, BROWSE, or VIEW from an Application or CLIST, the commands EDIT, BROWSE, and VIEW are processed by Data Set Commander.

Migrating from IBM Data Set Commander Version 6.1 or 7.1

This section explains the activities involved in migrating an ISPF Productivity Tool version 6.1 or 7.1 environment into Data Set Commander version 7.1.

TSO LOGON procedure updates:

1. Ensure that all references to Data Set Commander target libraries in the various DD statements and CLISTs specify the selected names for Data Set Commander v8.1 target libraries. This includes such system library lists as LPA, LINKLIST, and APF.
2. Replace DD(IPITLIB) with DD(IQITLIB) for the SIQITLIB table library.
3. If present, replace DD(IPIPANEL) with DD(IQIPANEL) for specifying the ISPF primary menu panel name.

Run IQIWIZRD customization wizard:

1. Determine all required existing and additional DSC customization.

   Note: You may first run the IPT v6.1 or v7.1 wizard (IQIWIZRD) under IPT v6.1 (or IPT v7.1) in order to determine all your previously selected customization options.
2. Execute the DSC v8.1 customization wizard under control of the DSC v8.1 logon procedure and specify all previously selected settings and any new required options.
3. Place all customized CLISTs for supported objects or Session- Initialization-Exit in the Data Set Commander v8.1 SIQICLIB and SIQICLBV libraries.

Command shortcuts customization:

- Review for conflicts and update, if necessary, members IQICMNDS and IQIDCMDS of the SIQITLIB library in order to disable or rename certain command shortcut verb names.

Data Set Commander maintenance

Data Set Commander maintenance is fully controlled by SMP/E. You should periodically review and apply all available maintenance as posted on the IBM Data Set Commander web-site at `http://www.ibm.com/software/products/us/en/data-set-commander`

To determine the maintenance level of Data Set Commander at your installation, enter the following command on any Data Set Commander panel:

`DSC VER`

or shortcut IVER.

The initial screen displays the range of installed APARs. The scrollable list displays the date and maintenance level of each Data Set Commander module.

Maintenance-specific commands

Data Set Commander Version has a set of diagnostic commands that can help IBM support personnel perform problem investigations.

The commands related to maintenance are as follows:
- MAINT
- VER
- DIAG
- SNAP

These commands are invoked from any main command line of any panel. Each of them is prefixed with Data Set Commander.

Examples:
```
DSC MAINT
IMAINT
```

The following explains each of these commands and how to use them.

DSC MAINT

MAINT creates a report that contains information such as applied APARS, current Data Set Commander version levels, and module versions. This report should normally be sent with any Data Set Commander problem report ticket (PMR).

You may enter the command DSC MAINT (shortcut IMAINT) from the main command line of any panel. It creates an "DSC Maintenance Report" in SYSOUT data set DD(IQILOGPR) of your TSO session.

DSC VER

This command displays the "DSC Maintenance Report" on your screen. You may enter the command DSC VER (shortcut IVER) from the main command line of any panel.

DSC DIAG

The DSC DIAG command (shortcut IDIAG) lets you turn on the Data Set Commander tracing and function logging facility. By default Data Set Commander runs with the tracing facility disabled.

Occasionally, IBM support may ask you to run a failing scenario while the Data Set Commander tracing facility is active.

DSC SNAP

The DSC SNAP command (shortcut ISNAP) provides you a snapshot of the current Data Set Commander in-core trace table (if active) or of the entire region of your TSO session.

Typically, when IBM support asks to run with Data Set Commander trace active, you are also asked to issue a SNAP command at the end of the failing scenario in order to output the in-core data into DD(IQITRSNP) of your TSO session so that it can be sent to IBM for further analysis.

Bypassing Data Set Commander (invoking standard ISPF)

When Data Set Commander runs in batch, it automatically passes control to ISPF as if Data Set Commander were not installed.

Sometimes you may want to invoke ISPF directly without the Data Set Commander environment. There are several ways to invoke standard ISPF without Data Set Commander. Use one of the following methods to accomplish this task:
- Invoke ISPF (or PDF or ISPSTART) with the additional parameter STDISPF.

Bypassing Data Set Commander (invoking standard ISPF)

Example:

```
ISPF STDISPF
```

or

```
ISPF 2 STDISPF
```

- If you want to restrict a user to standard ISPF automatically, do not allocate IQITLIB to the user. If IQITLIB is not allocated, standard ISPF is invoked.
- If a group of users are sharing a procedure that allocates IQITLIB, you can still restrict a particular user to standard ISPF by adding a dummy DD name to the user's LOGON procedure. Add the DD name STDISPF as follows:

```
ALLOC DD(STDISPF) DA('NULLFILE')
```

Data Set Commander ignores the data set name and inspects only the DD name.

- Standard ISPF can also be invoked through its entry points ISRPCP or ISPICP:

```
ISPICP PANEL(ISR@PRIM)
```

or

```
ISRPCP
```

Appendix A. The installation tape

The product distribution tape contains the following files in JES2 XMIT format. The file attributes are those of the resulting files when loaded onto disk and processed by the TSO RECEIVE command.

File	Library
Relative File 1	AIQIINST library: JCL and other members required to install and maintain DSC File name: IBM.HIQI810.F1.XMIT RECFM=FB, LRECL=80, BLKSIZE=8800
Relative File 2	AIQICLIB CLIST library: CLISTs used by DSC in fixed-length format File name: IBM.HIQI810.F2.XMIT RECFM=FB, LRECL=80, BLKSIZE=8800
Relative File 3	AIQICLBV library: same as File 2, but in variable-length format File name: IBM.HIQI810.F3.XMIT RECFM=VB, LRECL=251, BLKSIZE=8800
Relative File 4	AIQILOAD library: DSC load modules for private use File name: IBM.HIQI810.F4.XMIT RECFM=U, LRECL=0, BLKSIZE=6144
Relative File 5	AIQILPA library: DSC load modules for LPA File name: IBM.HIQI810.F5.XMIT RECFM=U, LRECL=0, BLKSIZE=6144
Relative File 6	AIQIMLIB DSC message library File name: IBM.HIQI810.F6.XMIT RECFM=FB, LRECL=80, BLKSIZE=8800
Relative File 7	AIQIPLIB DSC panel library File name: IBM.HIQI810.F7.XMIT RECFM=FB, LRECL=80, BLKSIZE=8800
Relative File 8	AIQISLIB DSC skeleton library File name: IBM.HIQI810.F8.XMIT RECFM=FB, LRECL=80, BLKSIZE=8800
Relative File 9	AIQITLIB DSC ISPF table library File name: IBM.HIQI810.F9.XMIT RECFM=FB, LRECL=80, BLKSIZE=8800

The installation tape

Appendix B. Member IQICMNDS

This member is delivered in the Data Set Commander table library (SIQITLIB). All entries are initially commented out (* in column 1).

```
*----------------------------------------------------------------------*
*  IBM Data Set Commander                                              *
*  5635-ISP (C) Copyright IBM Corp. 1989,2013. All rights reserved.   *
*----------------------------------------------------------------------*
*                                                                      *
*----------------------------------------------------------------------*
*                Main Command Substitution Table                      *
*                ===============================                        *
*                                                                      *
* This member contains user-defined substitutions to all DSC standard *
* main commands that are inserted into the ISPF command table.        *
* There are only 2 types of lines:                                    *
*@* Comment line - any non-action text.                               *
*     Starts with "*" in column 1.                                    *
*@* Substitution line - specifies an DSC main command substitution.   *
*     Starts with " ", "," or an alphabetic character in column 1.    *
* Note: each substitution statement is initially commented out!       *
*                                                                      *
*                Substitution Line Syntax                             *
*                -----------------------                               *
* Free form positional tokens delimited by any number of:             *
*   blanks (" ") and or commas (",") up to and including column 72.   *
* In-line comment starts with " *" until end of line.                 *
* Each record may contain only a single line (no continuation).       *
*                                                                      *
*                Substitution Line Positional Tokens                  *
*                ----------------------------------                    *
*#1) DSC delivered main command verb name.                            *
*#2) Customer specified verb name substitution.                       *
*#3) Customer specified command shortcut substitution.                *
*                                                                      *
*                Substitution Line Rules                              *
*                ----------------------                                *
*@* Minimum token length is 2. This is the minimum length for DSC     *
*     main command verbs and shortcuts.                               *
*@* Token-1 is mandatory and must match an DSC command verb.          *
*@* If only Token-1 is present, the DSC command gets disabled.        *
*@* If there are multiple substitution lines with identical Token-1,  *
*     only the last one takes effect.                                 *
*@* If there are multiple substitution lines with identical Token-2,  *
*     only the first one takes effect.                                *
*@* If Token-3 is present, it must be a valid prefix of the verb      *
*     name specified in Token-2.                                      *
*                                                                      *
*                Examples                                             *
*                --------------                                        *
* " BROWSE, EXAMINE, EXAM "                                            *
* meaning: substitute verb "BROWSE" with verb "EXAMINE" and shortcut  *
*          "EXAM".                                                    *
*                                                                      *
* " QUIT    GIVEUP "                                                   *
* meaning: substitute verb "QUIT" with verb "GIVEUP" with no shortcut.*
*                                                                      *
* " EX8             "                                                  *
* meaning: disable command verb "EX8".                                *
* -------------------------------------------------------------------- *
*                                                                      *
*VERB     NEW VERB SHORTCUT   *COMMENT
```

Member IQICMNDS

```
*------- -------- --------   ----------------------------------------
*DSC????? DSC????? DSC?      *DISPLAY DSC SHORTCUTS
*DSCHELP  DSCHELP  DSC       *DSC HELP
*DSCOFF   DSCOFF   DSCOF     *DISABLE DSC
*DSCON    DSCON    DSCON     *ENABLE DSC
*DSCCMDS  DSCCMDS  DSCCMD    *DISABLE/ENABLE DSC SHORTCUTS
*DSCMON   DSCMON   DSCMON    *DSC MONITOR TASK CONTROL
*DSCNEWS  DSCNEWS  DSCNEW    *DSC NEWS
*IDIAG    IDIAG    IDIAG     *DSC DIAGNOSTICS
*INAME    INAME    INAM      *DSC SET SCREEN NAME
*ISET     ISET     ISET      *DSC SET OPTIONS
*ISNAP    ISNAP    ISNAP     *DSC SNAP
*IMAINT   IMAINT   IMAINT    *DSC MAINTENANCE REPORT
*IVERSION IVERSION IVER      *DSC VERSION REPORT
*IVSML    IVSML    IVSM      *DSC VIRTUAL STORAGE MANAGEMENT DISPLAY
*BROWSE   BROWSE   BR        *BROWSE DATA-SET
*EDIT     EDIT     ED        *EDIT DATA-SET
*VIEW     VIEW     VI        *VIEW DATA-SET
*BFILE    BFILE    BF        *BROWSE VSAM FILE
*EFILE    EFILE    EF        *EDIT VSAM FILE
*VFILE    VFILE    VF        *VIEW VSAM FILE
*O*       O*       O*        *SHOW ALL PERMANENT OBJECT-LISTS
*O/       O/       O/        *POPULATE A NEW OBJECT-LIST
*OHIST    OHIST    OH        *DISPLAY HISTORY LIST OF ACCESSED DATASETS
*OLIST    OLIST    OLIS      *DISPLAY OBJECT-LIST
*OL       OL       OL        *DISPLAY OBJECT-LIST
*OL*      OL*      OL*       *SHOW ALL PERMANENT OBJECT-LISTS
*OL/      OL/      OL/       *POPULATE A NEW OBJECT-LIST
*OLDDNAME OLDDNAME OLDD      *DISPLAY ALLOCATED DATASETS BY DDNAME
*OLBASE   OLBASE   OLB       *LISTCAT BASE OF GENERATION
*OLBK     OLBK     OLBK      *LISTCAT BOOKMANAGER BOOKS
*OLBOOK   OLBOOK   OLBO      *LISTCAT BOOKMANAGER BOOKS
*OLCAT    OLCAT    OLC       *LISTCAT MULTIPLE PATTERNS
*OLCLONE  OLCLONE  OLCL      *LISTCAT CLONE DATASETS
*OLDA     OLDA     OLDASD    *LIST DASD ONLINE VOLUMES
*OLE      OLE      OLE       *LISTCAT PDSE LIBRARIES
*OLPDSE   OLPDSE   OLPDSE    *LISTCAT PDSE LIBRARIES
*OLGDG    OLGDG    OLG       *LISTCAT GDG DATASETS
*OLHIST   OLHIST   OLH       *DISPLAY HISTORY LIST OF ACCESSED DATASETS
*OLINFO   OLINFO   OLI       *LISTCAT + INFO
*OLMIG    OLMIG    OLM       *LISTCAT MIGRATED
*OLNVSAM  OLNVSAM  OLN       *LISTCAT NON-VSAM DATASETS
*OLPAGE   OLPAGE   OLP       *LISTCAT PAGE-SPACE DATASETS
*OLSHELF  OLSHELF  OLSH      *LISTCAT BOOKMANAGER SHELVES
*OLSYS    OLSYS    OLS       *LIST SYSTEM DATASETS
*OLTAPE   OLTAPE   OLT       *LISTCAT TAPE DATASETS
*OLVTOC   OLVTOC   OLV       *LISTVTOC DATASETS
*OLVSAM   OLVSAM   OLVS      *LISTCAT VSAM CLUSTERS
*OLZONE   OLZONE   OLZ       *LISTCAT SMP/E ZONES
*PLIST    PLIST    PLIST     *DISPLAY OBJECT-LIST
*EX?????? EX?????? EX?       *DISPLAY TSO PERMANENT COMMANDS
*EX=      EX=      EX=       *DISPLAY TSO MOST RECENT COMMAND
*EX1      EX1      EX1       *EXECUTE TSO PERMANENT COMMAND #1
*EX2      EX2      EX2       *EXECUTE TSO PERMANENT COMMAND #2
*EX3      EX3      EX3       *EXECUTE TSO PERMANENT COMMAND #3
*EX4      EX4      EX4       *EXECUTE TSO PERMANENT COMMAND #4
*EX5      EX5      EX5       *EXECUTE TSO PERMANENT COMMAND #5
*EX6      EX6      EX6       *EXECUTE TSO PERMANENT COMMAND #6
*EX7      EX7      EX7       *EXECUTE TSO PERMANENT COMMAND #7
*EX8      EX8      EX8       *EXECUTE TSO PERMANENT COMMAND #8
*EX9      EX9      EX9       *EXECUTE TSO PERMANENT COMMAND #9
*IPT????? IPT????? IPT?      *DISPLAY DSC SHORTCUTS
*IPTHELP  IPTHELP  IPT       *DSC HELP
*IPTOFF   IPTOFF   IPTOF     *DISABLE DSC
*IPTON    IPTON    IPTON     *ENABLE DSC
*IPTCMDS  IPTCMDS  IPTCMD    *DISABLE/ENABLE DSC SHORTCUTS
*IPTNEWS  IPTNEWS  IPTNEW    *DSC NEWS
```

```
*                                                                      *
*--------------------------------------------------------------------*
*  IBM Data Set Commander                                              *
*  5635-ISP (C) Copyright IBM Corp. 1989,2013. All rights reserved.   *
*--------------------------------------------------------------------*
```

Member IQICMNDS

Appendix C. Member IQIDCMDS

This member is delivered in the Data Set Commander table library (SIQITLIB). The following command shortcuts are initially specified to be affected by the DSC CMDS command: BR ED OL VI.

```
*----------------------------------------------------------------------*
*  IBM Data Set Commander                                              *
*  5635-ISP (C) Copyright IBM Corp. 1989,2013. All rights reserved.    *
*----------------------------------------------------------------------*
*                                                                      *
*----------------------------------------------------------------------*
*                Command Shortcuts Disable/Enable Table                *
*                =====================================                 *
*                                                                      *
* This member contains names of DSC command shortcuts that will be     *
* affected by the "DSC CMDS OFF/ON" (or "DSCCMD OFF/ON") command.      *
* There are only 2 types of lines:                                     *
*@* Comment line - any non-action text.                                *
*      Starts with "*" in column 1.                                    *
*@* Command line - specifies an DSC command shortcut name.             *
*      Starts with " " or an alphabetic character in column 1.         *
*                                                                      *
*                Restrictions                                          *
*                ------------                                          *
* Command shortcuts names starting with "DSC" can not be disabled.     *
*                                                                      *
*                IQICMNDS and IQIDCMDS Relationship                    *
*                ----------------------------------                    *
* The command shortcut names specified in this table apply to the      *
* modified (via IQICMNDS) command shortcut names.                      *
*                                                                      *
*                IQIDMNDS Default Setting                              *
*                -----------------------                               *
* This table currently specifies the following affected shortcuts:     *
* BR, ED, VI, OL.                                                      *
*                                                                      *
*                                                                      *
*SHORTCUT   *COMMENT                                                    *
*--------   ----------------------------------------------------------*
*IDIAG      *DSC DIAGNOSTICS
*INAM       *DSC SET SCREEN NAME
*ISET       *DSC SET OPTIONS
*ISNAP      *DSC SNAP
*IMAINT     *DSC MAINTENANCE REPORT
*IVER       *DSC VERSION REPORT
*IVSM       *DSC VIRTUAL STORAGE MANAGEMENT DISPLAY
 BR         *BROWSE DATA-SET
 ED         *EDIT DATA-SET
 VI         *VIEW DATA-SET
 BF         *BROWSE VSAM FILE
 EF         *EDIT VSAM FILE
 VF         *VIEW VSAM FILE
*O*         *SHOW ALL PERMANENT OBJECT-LISTS
*O/         *POPULATE A NEW OBJECT-LIST
 OH         *DISPLAY HISTORY LIST OF ACCESSED DATASETS
*OLIS       *DISPLAY OBJECT-LIST
 OL         *DISPLAY OBJECT-LIST
*OL*        *SHOW ALL PERMANENT OBJECT-LISTS
*OL/        *POPULATE A NEW OBJECT-LIST
*OLDD       *DISPLAY ALLOCATED DATASETS BY DDNAME
*OLB        *LISTCAT BASE OF GENERATION
*OLBK       *LISTCAT BOOKMANAGER BOOKS
```

Member IQIDCMDS

```
                *OLBO      *LISTCAT BOOKMANAGER BOOKS
                *OLC       *LISTCAT MULTIPLE PATTERNS
                *OLCL      *LISTCAT CLONE DATASETS
                *OLDA      *LIST DASD ONLINE VOLUMES
                *OLE       *LISTCAT PDSE LIBRARIES
                *OLPDSE    *LISTCAT PDSE LIBRARIES
                *OLG       *LISTCAT GDG DATASETS
                *OLH       *DISPLAY HISTORY LIST OF ACCESSED DATASETS
                *OLI       *LISTCAT + INFO
                *OLM       *LISTCAT MIGRATED
                *OLN       *LISTCAT NON-VSAM CLUSTERS
                *OLP       *LISTCAT PAGE-SPACE DATASETS
                *OLSH      *LISTCAT BOOKMANAGER SHELVES
                *OLS       *LIST SYSTEM DATASETS
                *OLT       *LISTCAT TAPE DATASETS
                *OLV       *LISTVTOC DATASETS
                *OLVS      *LISTCAT VSAM CLUSTERS
                *OLZ       *LISTCAT SMP/E ZONES
                *PLIST     *DISPLAY OBJECT-LIST
                *EX?       *DISPLAY TSO PERMANENT COMMANDS
                *EX=       *DISPLAY TSO MOST RECENT COMMAND
                *EX1       *EXECUTE TSO PERMANENT COMMAND #1
                *EX2       *EXECUTE TSO PERMANENT COMMAND #2
                *EX3       *EXECUTE TSO PERMANENT COMMAND #3
                *EX4       *EXECUTE TSO PERMANENT COMMAND #4
                *EX5       *EXECUTE TSO PERMANENT COMMAND #5
                *EX6       *EXECUTE TSO PERMANENT COMMAND #6
                *EX7       *EXECUTE TSO PERMANENT COMMAND #7
                *EX8       *EXECUTE TSO PERMANENT COMMAND #8
                *EX9       *EXECUTE TSO PERMANENT COMMAND #9
                *                                                          *
                *----------------------------------------------------------*
                *  IBM Data Set Commander                                  *
                *  5635-ISP (C) Copyright IBM Corp. 1989,2013. All rights reserved.  *
                *----------------------------------------------------------*
```

Appendix D. Sample modified main menu panel

During the Data Set Commander installation process, you modified the ISPF main menu. This modified version of ISR@PRIM can be found in member IQI@PRIM of the SIQIPLIB panel target library:

```
)PANEL KEYLIST(ISRSAB,ISR) IMAGE(&ZIMGNAM,&ZIMGROW,&ZIMGCOL)
/***********************************************************/*DSC810*/
/* IQI@PRIM is a customized version of ISPF's ISR@PRIM with:  /*DSC810*/
/* 1) Option "1" renamed "BROWSE";                            /*DSC810*/
/* 2) Option "V" added as "VIEW";                             /*DSC810*/
/* 3) Option "O" added as "OLIST".                            /*DSC810*/
/***********************************************************/*DSC810*/
)ATTR DEFAULT(...) FORMAT(MIX)           /* ISR@PRIM - ENGLISH - 7.1 */
 0B TYPE(AB)
 0D TYPE(PS)
 04 TYPE(ABSL) GE(ON)
 05 TYPE(PT)
 09 TYPE(FP)
 0A TYPE(NT)
 11 TYPE(SAC)
 16 TYPE(VOI) PADC(USER)
 2B TYPE(DT)
 22 TYPE(WASL) SKIP(ON) GE(ON)
 26 TYPE(NEF) CAPS(ON) PADC(USER)
 27 AREA(SCRL) EXTEND(ON)
 28 TYPE(PS) CSRGRP(99)
 29 TYPE(GRPBOX)
 2A AREA(DYNAMIC)
 19 TYPE(DATAOUT) COLOR(WHITE)
 1A TYPE(DATAOUT) COLOR(RED)
 1B TYPE(DATAOUT) COLOR(BLUE)
 1C TYPE(DATAOUT) COLOR(GREEN)
 1D TYPE(DATAOUT) COLOR(PINK)
 1E TYPE(DATAOUT) COLOR(YELLOW)
 1F TYPE(DATAOUT) COLOR(TURQ)
 30 TYPE(DATAOUT) PAS(ON)
 31 TYPE(CHAR) COLOR(WHITE)
 32 TYPE(CHAR) COLOR(RED)
 33 TYPE(CHAR) COLOR(BLUE)
 34 TYPE(CHAR) COLOR(GREEN)
 35 TYPE(CHAR) COLOR(PINK)
 36 TYPE(CHAR) COLOR(YELLOW)
 37 TYPE(CHAR) COLOR(TURQ)
 38 TYPE(DATAOUT) CUADYN(VOI)
 39 TYPE(CHAR) COLOR(WHITE) HILITE(REVERSE)
 3A TYPE(CHAR) COLOR(RED) HILITE(REVERSE)
 3B TYPE(CHAR) COLOR(BLUE) HILITE(REVERSE)
 3C TYPE(CHAR) COLOR(GREEN) HILITE(REVERSE)
 3D TYPE(CHAR) COLOR(PINK) HILITE(REVERSE)
 3E TYPE(CHAR) COLOR(YELLOW) HILITE(REVERSE)
 3F TYPE(CHAR) COLOR(TURQ) HILITE(REVERSE)
)ABC DESC('Menu') MNEM(1)
PDC DESC('Settings') UNAVAIL(ZPM1) MNEM(1) ACC(CTRL+S)
 ACTION RUN(ISRROUTE) PARM('SET')
PDC DESC('View') UNAVAIL(ZPM2) MNEM(1) ACC(CTRL+V)
 ACTION RUN(ISRROUTE) PARM('BR1')
PDC DESC('Edit') UNAVAIL(ZPM3) MNEM(1) ACC(CTRL+E)
 ACTION RUN(ISRROUTE) PARM('ED1')
PDC DESC('ISPF Command Shell') UNAVAIL(ZPM4) MNEM(6) ACC(CTRL+C)
 ACTION RUN(ISRROUTE) PARM('C1')
PDC DESC('Dialog Test...') UNAVAIL(ZPM5) MNEM(8) ACC(CTRL+T)
 ACTION RUN(ISRROUTE) PARM('DAL')
```

Sample modified main menu panel

```
                    PDC DESC('Other IBM Products...') UNAVAIL(ZPM6) MNEM(1) ACC(CTRL+O)
                     ACTION RUN(ISRROUTE) PARM('OIB')
                    PDC DESC('SCLM') UNAVAIL(ZPM7) MNEM(3) ACC(CTRL+L)
                     ACTION RUN(ISRROUTE) PARM('SCL')
                    PDC DESC('ISPF Workplace') UNAVAIL(ZPM8) MNEM(6) ACC(CTRL+W)
                     ACTION RUN(ISRROUTE) PARM('WRK')
                    PDC DESC('Status Area...') UNAVAIL(ZPMS) MNEM(8) ACC(CTRL+A)
                     ACTION RUN(ISRROUTE) PARM('SAM')
                    PDC DESC('Exit') MNEM(2) PDSEP(ON) ACC(CTRL+X) ACTION RUN(EXIT)
                    )ABCINIT
                    .ZVARS=ISR@OPT
                    )ABC DESC('Utilities') MNEM(1)
                    PDC DESC('Library') UNAVAIL(ZUT1) MNEM(1) ACC(ALT+1)
                     ACTION RUN(ISRROUTE) PARM('U1')
                    PDC DESC('Data set') UNAVAIL(ZUT2) MNEM(1) ACC(ALT+2)
                     ACTION RUN(ISRROUTE) PARM('U2')
                    PDC DESC('Move/Copy') UNAVAIL(ZUT3) MNEM(1) ACC(ALT+3)
                     ACTION RUN(ISRROUTE) PARM('U3')
                    PDC DESC('Data Set List') UNAVAIL(ZUT4) MNEM(2) ACC(ALT+4)
                     ACTION RUN(ISRROUTE) PARM('U4')
                    PDC DESC('Reset Statistics') UNAVAIL(ZUT5) MNEM(5) ACC(ALT+5)
                     ACTION RUN(ISRROUTE) PARM('U5')
                    PDC DESC('Hardcopy') UNAVAIL(ZUT6) MNEM(1) ACC(ALT+6)
                     ACTION RUN(ISRROUTE) PARM('U6')
                    PDC DESC('Download...') UNAVAIL(ZUTDT) MNEM(2) ACC(ALT+7)
                     ACTION RUN(ISRROUTE) PARM('UDT')
                    PDC DESC('Outlist') UNAVAIL(ZUT7) MNEM(2) ACC(ALT+8)
                     ACTION RUN(ISRROUTE) PARM('U8')
                    PDC DESC('Commands...') UNAVAIL(ZUT8) MNEM(1) ACC(ALT+9)
                     ACTION RUN(ISRROUTE) PARM('U9')
                    PDC DESC('Reserved') UNAVAIL(ZUT9) MNEM(6) ACTION RUN(ISRROUTE) PARM('U10')
                    PDC DESC('Format') UNAVAIL(ZUT10) MNEM(1) ACC(ALT+F1)
                     ACTION RUN(ISRROUTE) PARM('U11')
                    PDC DESC('SuperC') UNAVAIL(ZUT11) MNEM(1) PDSEP(ON) ACC(CTRL+F2)
                     ACTION RUN(ISRROUTE) PARM('U12')
                    PDC DESC('SuperCE') UNAVAIL(ZUT12) MNEM(3) ACC(CTRL+F3)
                     ACTION RUN(ISRROUTE) PARM('U13')
                    PDC DESC('Search-For') UNAVAIL(ZUT13) MNEM(2) ACC(CTRL+F4)
                     ACTION RUN(ISRROUTE) PARM('U14')
                    PDC DESC('Search-ForE') UNAVAIL(ZUT14) MNEM(4) ACC(CTRL+F5)
                     ACTION RUN(ISRROUTE) PARM('U15')
                    PDC DESC('Table Utility') UNAVAIL(ZUT15) MNEM(3) ACC(CTRL+F6)
                     ACTION RUN(ISRROUTE) PARM('U16')
                    PDC DESC('Directory List') UNAVAIL(ZUT16) MNEM(2) ACC(CTRL+F7)
                     ACTION RUN(ISRROUTE) PARM('U17')
                    )ABCINIT
                    .ZVARS=PDFUTIL
                         &zut9 = '1'
                    )ABC DESC('Compilers') MNEM(1)
                    PDC DESC('Foreground Compilers') MNEM(1) ACTION RUN(ISRROUTE) PARM('FGD')
                    PDC DESC('Background Compilers') MNEM(1) ACTION RUN(ISRROUTE) PARM('BKG')
                    PDC DESC('ISPPREP Panel Utility...') MNEM(1) ACTION RUN(ISPPREP)
                    PDC DESC('DTL Compiler...') MNEM(1) ACTION RUN(ISPDTLC)
                    )ABCINIT
                    .ZVARS=ISRLANG
                    )ABC DESC('Options') MNEM(1)
                    PDC DESC('General Settings') MNEM(1) ACTION RUN(ISRROUTE) PARM('SET')
                    PDC DESC('CUA Attributes...') MNEM(1) ACTION RUN(CUAATTR)
                    PDC DESC('Keylists...') MNEM(1) ACTION RUN(KEYLIST)
                    PDC DESC('Point-and-Shoot...') MNEM(1) ACTION RUN(PSCOLOR)
                    PDC DESC('Colors...') MNEM(2) ACTION RUN(COLOR)
                    PDC DESC('Dialog Test appl ID...') MNEM(1) ACTION RUN(ISRROUTE) PARM('DAP')
                    )ABCINIT
                    .ZVARS=PDFOPTM
                    )ABC DESC('Status') MNEM(1)
                    PDC DESC('Session') UNAVAIL(ZCSTA) MNEM(1) ACTION RUN(ISRROUTE) PARM('SES')
                    PDC DESC('Function keys') UNAVAIL(ZCSTB) MNEM(1)
```

```
 ACTION RUN(ISRROUTE) PARM('FUN')
PDC DESC('Calendar') UNAVAIL(ZCSTC) MNEM(1) ACTION RUN(ISRROUTE) PARM('CAL')
PDC DESC('User status') UNAVAIL(ZCSTD) MNEM(1) ACTION RUN(ISRROUTE) PARM('USE')
PDC DESC('User point and shoot') UNAVAIL(ZCSTE) MNEM(3)
 ACTION RUN(ISRROUTE) PARM('UPS')
PDC DESC('None') UNAVAIL(ZCSTF) MNEM(1) ACTION RUN(ISRROUTE) PARM('OFF')
)ABCINIT
.ZVARS=PDFSTA
IF (&ZSCREEN = '1')
  VGET (ZSAREA1)
  &ZSAREA = &ZSAREA1
  GOTO A
IF (&ZSCREEN = '2')
  VGET (ZSAREA2)
  &ZSAREA = &ZSAREA2
  GOTO A
IF (&ZSCREEN = '3')
  VGET (ZSAREA3)
  &ZSAREA = &ZSAREA3
  GOTO A
IF (&ZSCREEN = '4')
  VGET (ZSAREA4)
  &ZSAREA = &ZSAREA4
  GOTO A
ELSE
  VGET (ZSAREA5)
  &ZSAREA = &ZSAREA5
A:
&zcsta = 0
&zcstb = 0
&zcstc = 0
&zcstd = 0
&zcste = 0
&zcstf = 0
IF (&ZSAREA = 'SES') &zcsta = 1
IF (&ZSAREA = 'FUN') &zcstb = 1
IF (&ZSAREA = 'CAL') &zcstc = 1
IF (&ZSAREA = 'USE') &zcstd = 1
IF (&ZSAREA = 'UPS') &zcste = 1
IF (&ZSAREA = 'OFF') &zcstf = 1
&PDFSTA = ' '
)ABC DESC('Help') MNEM(1)
PDC DESC('General') MNEM(1) ACTION RUN(TUTOR) PARM('ISR01000')
PDC DESC('Settings') MNEM(1) ACTION RUN(TUTOR) PARM('ISP05000')
PDC DESC('View') MNEM(1) ACTION RUN(TUTOR) PARM('ISR10000')
PDC DESC('Edit') MNEM(1) ACTION RUN(TUTOR) PARM('ISR20000')
PDC DESC('Utilities') MNEM(1) ACTION RUN(TUTOR) PARM('ISR30000')
PDC DESC('Foreground') MNEM(1) ACTION RUN(TUTOR) PARM('ISR40000')
PDC DESC('Batch') MNEM(1) ACTION RUN(TUTOR) PARM('ISR50000')
PDC DESC('Command') MNEM(1) ACTION RUN(TUTOR) PARM('ISR60010')
PDC DESC('Dialog Test') MNEM(1) ACTION RUN(TUTOR) PARM('ISP70000')
PDC DESC('IBM Products') MNEM(1) ACTION RUN(TUTOR) PARM('ISRD0000')
PDC DESC('SCLM') MNEM(3) ACTION RUN(TUTOR) PARM('FLMTD')
PDC DESC('Workplace') MNEM(1) ACTION RUN(TUTOR) PARM('ISR00400')
PDC DESC('Exit') MNEM(2) ACTION RUN(TUTOR) PARM('ISP90100')
PDC DESC('Status Area') MNEM(2) ACTION RUN(TUTOR) PARM('ISPSAMHP')
PDC DESC('About...') MNEM(1) ACTION RUN(TUTOR) PARM('ISR@LOGO')
PDC DESC('Changes for this Release') MNEM(2) ACTION RUN(TUTOR) PARM('ISR00005')
PDC DESC('Tutorial') MNEM(4) ACTION RUN(TUTOR) PARM('ISR00000')
PDC DESC('Appendices') MNEM(2) ACTION RUN(TUTOR) PARM('ISR00004')
PDC DESC('Index') MNEM(2) ACTION RUN(TUTOR) PARM('ISR91000')
)ABCINIT
.ZVARS=PRIMHELP
)BODY  CMD(ZCMD)
.. Menu. Utilities. Compilers. Options. Status. Help.
.------------------------------------------------------------------------
.                          .ISPF Primary Option Menu.                    .
```

Sample modified main menu panel

```
                    .Option ===>.Z                                                          .
                    .SAREA39                                         ..GRPBOX1
                    .                                                ...TMPROWS,TMPSHDW      ..
                    .                                                ...                     ..
                    .                                                ...                     ..
                    .                                                ...                     ..
                    .                                                ...                     ..
                    .                                                ...                     ..
                    .                                                ...                     ..
                    .                                                ...                     ..
                    .                                                ...                     ..
                    .                                                ...                     ..
                    .                                                ...                     ..
                    .                                                .... .
                    .                                                .
                    .ZEXI.. .
                    .     .Enter.Z.to Terminate using log/list defaults.
                    .     .BRowse EDit VIew OList TSO DSC DSC?.are available from any panel.
                    )AREA SAREA39
                    .0 .Settings     .Terminal and user parameters       .
                    .1 .Browse       .Display source data or listings    .
                    .2 .Edit         .Create or change source data       .
                    .V .View         .Display/change source data         .
                    .3 .Utilities    .Perform utility functions          .
                    .4 .Foreground   .Interactive language processing    .
                    .5 .Batch        .Submit job for language processing .
                    .6 .Command      .Enter TSO or Workstation commands  .
                    .7 .Dialog Test  .Perform dialog testing             .
                    .9 .IBM Products .IBM program development products   .
                    .10.SCLM         .SW Configuration Library Manager   .
                    .11.Workplace    .ISPF Object/Action Workplace       .
                    .12.z/OS System  .z/OS system programmer applications .
                    .13.z/OS User    .z/OS user applications             .
                    .O .Olist        .DSC Object/Data set list           .
                    )INIT
                    .ZVARS = '(ZCMD ZEXX)'
                    .HELP = ISR00003
                    &ZPRIM = YES
                    &ZEXX = 'X'
                    &ZEXI = ' '
                    .CURSOR = ZCMD
                    &TMPROWS = &ZSDATA
                    &TMPSHDW = &ZSSHDW
                    IF (&ZHILITE = YES OR &ZGUI = &Z)
                      .ATTRCHAR(19)='PAS(ON) COLOR(WHITE)'
                      .ATTRCHAR(1A)='PAS(ON) COLOR(RED)'
                      .ATTRCHAR(1B)='PAS(ON) COLOR(BLUE)'
                      .ATTRCHAR(1C)='PAS(ON) COLOR(GREEN)'
                      .ATTRCHAR(1D)='PAS(ON) COLOR(PINK)'
                      .ATTRCHAR(1E)='PAS(ON) COLOR(YELLOW)'
                      .ATTRCHAR(1F)='PAS(ON) COLOR(TURQ)'
                    IF (&ZGUI = &Z AND &ZGUI = 'CLIENT')
                      &ZPASICON = 'ON'
                      &ZPASTEXT = 'OFF'
                      IF (&ZSCREEN = '1')
                        VGET (ZSAREA1)
                        &ZSAREA = &ZSAREA1
                        GOTO A
                      IF (&ZSCREEN = '2')
                        VGET (ZSAREA2)
                        &ZSAREA = &ZSAREA2
                        GOTO A
                      IF (&ZSCREEN = '3')
                        VGET (ZSAREA3)
                        &ZSAREA = &ZSAREA3
                        GOTO A
                      IF (&ZSCREEN = '4')
```

```
     VGET (ZSAREA4)
     &ZSAREA = &ZSAREA4
     GOTO A
   ELSE
     VGET (ZSAREA5)
     &ZSAREA = &ZSAREA5
   A:
  &zcstf = 0                    /* initialize Status AB unavail flags */
  IF (&ZSAREA = 'OFF') &zcstf = 1
ELSE
  &ZPASICON = 'OFF'
  &ZPASTEXT = 'ON'
VGET (ZSCML ZSCBR ZSCED ZTAPPLID) PROFILE /*   @V6A*/
IF (&ZSCML = ' ') &ZSCML = 'PAGE'         /*                    @V6A */
IF (&ZSCBR  = ' ') &ZSCBR  = 'PAGE'       /*                    @V6A */
IF (&ZSCED  = ' ') &ZSCED  = 'PAGE'       /*                    @V6A */
IF (&ZTAPPLID = ' ') &ZTAPPLID = 'ISR'
VPUT (ZSCML ZSCBR ZSCED ZTAPPLID) PROFILE /*   @V6A*/
&ZHTOP = ISR00003   /* TUTORIAL TABLE OF CONTENTS        */
&ZHINDEX = ISR91000 /* TUTORIAL INDEX - 1ST PAGE         */
&ZSCLMPRJ = &Z      /* TUTORIAL INDEX - 1ST PAGE      @L1A*/
IF (&ZLOGO = 'YES')                                       /* CK@MJC*/
   IF (&ZSPLIT = 'NO')      /* Not in split screen           @L5A*/
     IF (&ZCMD = &Z)        /* No command pending            @L5A*/
       IF (&ZLOGOPAN = 'DONE') /* No logo displayed yet      @L5A*/
         .MSG = ISRLO999    /* Set logo information          @L5A*/
         .RESP = ENTER      /* Simulate enter                @L5A*/
         &ZLOGOPAN = 'DONE' /*                               @L5A*/
         &ZCLEAN = 'NO'     /*                               @L5A*/
     IF (&ZCMD = &Z) &ZLOGOPAN = 'DONE'   /* command pending @L5A*/
     VPUT (ZLOGOPAN) SHARED /*                               @L5A*/
   IF (&ZSPLIT = 'YES') &ZLOGOPAN = 'DONE'
VPUT (ZHTOP,ZHINDEX,ZSCLMPRJ) PROFILE
IF (&ZCSTF = 1)   /* Status area = None */
  &ZIMGNAM ='ISPFGIFL'
  &ZIMGROW =3
ELSE
  &ZIMGNAM ='ISPFGIFS'
  &ZIMGROW =15
&ZIMGCOL =56
&GRPBOX1 = ''
IF (&ZCSTF='0') .ATTR(GRPBOX1) = 'WIDTH(22) DEPTH(13)'
ELSE .ATTR(GRPBOX1) = 'WIDTH(0)'
.ATTR(ZEXI)='PADC(NULLS) PAS(&ZPASICON) CSRGRP(99)'
.ATTR(ZEXX)='PAS(&ZPASTEXT) CSRGRP(99)'
)REINIT
.CURSOR = ZCMD
VGET (ZTAPPLID) PROFILE        /*                    Z41@MEA*/
IF (&ZTAPPLID = ' ') &ZTAPPLID = 'ISR'         /* Z41@MEA*/
)PROC
IF (&ZCSTF='1') .ATTR(GRPBOX1) = 'WIDTH(0)'
IF (.CURSOR = TMPROWS AND &ZCMD = ' ')
 &ZSAR  =TRANS(&ZSCREEN 1,&ZSAREA1 2,&ZSAREA2 3,&ZSAREA3 4,&ZSAREA4 *,&ZSAREA5)
 IF (&ZSAR = 'CAL','UPS','SES') &ZCMD = 'SP'
&ZCMDWRK = &Z
IF (&ZCMD = &Z)
  &ZCMDWRK = TRUNC(&ZCMD,'.')
  &ZTRAIL=.TRAIL
  IF (&ZCMDWRK = &Z)
    .MSG = ISRU000
&ZSEL = TRANS (TRUNC (&ZCMD,'.')
  0,'PGM(ISPISM) SCRNAME(SETTINGS)'
  1,'PGM(ISRBRO) PARM(ISRBRO01) SCRNAME(BROWSE)'
  2,'PGM(ISREDIT) PARM(P,ISREDM01) SCRNAME(EDIT)'
  V,'PGM(IQIMSL) PARM(V,<PROMPT>) SCRNAME(VIEW)'
  3,'PANEL(ISRUTIL) SCRNAME(UTIL)'
  4,'PANEL(ISRFPA) SCRNAME(FOREGRND)'
```

Sample modified main menu panel

```
  5,'PGM(ISRJB1) PARM(ISRJPA) SCRNAME(BATCH) NOCHECK'
  6,'PGM(ISRPTC) SCRNAME(CMD)'
  7,'PGM(ISPYXDR) PARM(&ZTAPPLID) SCRNAME(DTEST) NOCHECK'
  9,'PANEL(ISRDIIS) ADDPOP'
 10,'PGM(ISRSCLM) SCRNAME(SCLM) NOCHECK'
 11,'PGM(ISRUDA) PARM(ISRWORK) SCRNAME(WORK)'
 12,'PANEL(ISR@390S) SCRNAME(OS390S)'
 13,'PANEL(ISR@390U) SCRNAME(OS390U)'
  O,'PGM(IQIPLST) PARM(-,&WTRAIL) NEWAPPL(ISR) PASSLIB NOCHECK SCRNAME(OLIST)'
  X,EXIT
 SP,'PGM(ISPSAM) PARM(PNS)'
 ' ',' '
   *,'?')
)PNTS
FIELD(ZPS01001) VAR(ZCMD) VAL(0)
FIELD(ZPS01002) VAR(ZCMD) VAL(1)
FIELD(ZPS01003) VAR(ZCMD) VAL(2)
FIELD(ZPS01004) VAR(ZCMD) VAL(3)
FIELD(ZPS01005) VAR(ZCMD) VAL(4)
FIELD(ZPS01006) VAR(ZCMD) VAL(5)
FIELD(ZPS01007) VAR(ZCMD) VAL(6)
FIELD(ZPS01008) VAR(ZCMD) VAL(7)
FIELD(ZPS01009) VAR(ZCMD) VAL(9)
FIELD(ZPS01010) VAR(ZCMD) VAL(10)
FIELD(ZPS01011) VAR(ZCMD) VAL(11)
FIELD(ZPS01012) VAR(ZCMD) VAL(12)
FIELD(ZPS01013) VAR(ZCMD) VAL(13)
FIELD(ZEXI) VAR(ZCMD) VAL(X) DEPTH(2) IMAGE(ISPEXIT) PLACE(L)
FIELD(ZEXX) VAR(ZCMD) VAL(X)
)END
/* 5694-A01    COPYRIGHT IBM CORP 1982, 2009 */
/* ISPDTLC Release: 7.1.  Level: PID                                 */
/* z/OS 02.01.00.  Created - Date: 27 Aug 2012, Time: 15:23          */
/*-----------------------------------------------------------------*/
/* 5635-ISP (C) COPYRIGHT IBM CORP 2005,2013.                       */
/* Data Set Commander: 8.1.0                                        */
/*-----------------------------------------------------------------*/
```

Appendix E. Data Set Commander and other products

While Data Set Commander enhances ISPF functions, it works with other products. This section explains how you should customize Data Set Commander if you have other products in your system.

Security packages (RACF, ACF2, TOP SECRET)

Data Set Commander uses only documented system interfaces and does not bypass any standard security mechanisms that may be used by your installation. As a general rule, Data Set Commander does not require any change in the authorization rules you have already established for ISPF. Users should read authority for the libraries concatenated in the LOGON procedure.

Some security products, for example, ACF2 and Top Secret, control the commands that TSO users or ISPF users are allowed to issue. If access to any Data Set Commander command (for example, DSC or MSL) is denied, they must be added to the list of allowable commands.

Program pathing

Some security packages offer the option of access to certain files only through restricted lists of programs, and sometimes only if the program names come from a particular library or calling path. The following paragraphs describes the program structure in Data Set Commander so that you can inform your security package appropriately.

If a user is invoking standard ISPF, the task structure is unchanged. If Data Set Commander is active, ISPF, ISPSTART, and PDF are aliases of Data Set Commander that are attached by the TMP. Internally, they reattach Data Set Commander. Data Set Commander then attaches ISRPCP (an entry point to ISPF itself). The following diagram illustrates this relationship:

ISRPCP (an alias of the IBM-supplied ISPF) starts ISPF normally, and then links to module IQIITH, which in turn displays the main panel or invokes the program or CLIST entered on the ISPF/PDF/ISPSTART command line.

When the user selects option 1 (BROWSE), 2 (EDIT), or 6 (TSO), Data Set Commander uses its own versions of ISRBRO, ISREDIT, and ISRPTC as follows:

Note: None of the Data Set Commander programs run in authorized mode.

User option	Original IFPF Module	DSC replacement
1 (BROWSE)	ISRBRO	IQIMSL
2 (EDIT)	ISREDIT	IQIMSL
6 (TSO)	ISRPTC	IQITSO

ACF2

You need to customize Data Set Commander under ACF2. Customization of Data Set Commander depends on the following factors:

- The security features of ACF2 you use
- Where you want to place the Data Set Commander load modules
- What level of ACF2 you have installed.

Perform the following procedure to customize Data Set Commander as needed:

1. If your security specifications include a list of TSO commands that users are allowed to run, add the following commands to that list: IQIMAIN, IQIEXPN, ISPICP and ISRPCP.

2. Determine whether your installation uses program pathing rules that apply to the ISPF environment. If not, your installation of Data Set Commander under ACF2 is complete.

3. Consider whether it is acceptable to bypass some program path checking by specifying PATH(IGNORE) in the access rules. If you do so, your installation of Data Set Commander under ACF2 is complete.

4. Determine the GEN level of your ACF2 installation. If you have a GEN level below 9208, apply APARs TW95948 and TW95931 to CSECT ACF99@RB.

5. Apply USERMOD UM95948 to ACF99@RB.

6. If you do not require that the Data Set Commander load modules reside in a trusted library, add the NOSYSLIB keyword to the @RB macro definitions of the commands IQIMAIN, ISPF, PDF, and ISPSTART in ACF99@RB. Once you do so, your installation of Data Set Commander under ACF2 is complete.

7. If the Data Set Commander load modules are not in LPALIB or another system library, specify both the Data Set Commander LPA library and the DSC LOAD library in IEAAPFxx (in PARMLIB).

   Note: MVS removes the authorization from the STEPLIB libraries if the STEPLIB includes the concatenation of any library that is not APF- authorized. If the Data Set Commander libraries are in STEPLIB and you have not specified NOSYSLIB for the Data Set Commander commands, make sure that all your STEPLIB libraries are marked as APF-authorized.

8. If the IBM commands ISPF, PDF, and ISPSTART are defined in member IKJTSOxx (in PARMLIB), define the command IQIMAIN in the same way. (If you are using an older version of TSO that uses CSECTs IKJEFTE2 and IKJEFTE8 instead of IKJTSOxx, include the command DSC in these CSECTs as you have included ISPF, PDF, and ISPSTART.) Once you do so, your installation of Data Set Commander under ACF2 is complete.

TSO dynamic STEPLIB facility

The TSO Dynamic STEPLIB Facility can be used instead of the DD names STEPLIB and ISPLLIB in the TSO logon procedure to point to the DSC LPA load library (SIQILPA) and the DSC load library (SIQILOAD).

Products with direct directory update protection

Some products (such as MIM-Multi-Image Manager) control which programs are allowed to update a library directory directly. The Data Set Commander command EXPDIR invokes such a program. To permit EXPDIR to work, you must add the name of the module it invokes, IQIEXDIR, to the list of programs that are authorized to update directory entries.

PDSMAN

PDSMAN sometimes dynamically alters directory update requests in a nonstandard way. If you indicated during Data Set Commander installation that PDSMAN is installed and also specified a member name to ignore (such as $$$SPACE), the EXPDIR command is handled by a CLIST named IQIXPDSM. See the documentation included in member IQIXPDSM of Data Set Commander CLIST library (SIQICLIB) for how to enable it to use the PDSMAN ALTERDIR statement, or to entirely disable the EXPDIR command.

File transfer programs

Some file transfer programs expect ISPF option 6 (TSO) to display a panel with only one input field. The Data Set Commander TSO Command Shell enhances ISPF option 6 in a number of ways, modifying the panel in a way that causes some of these programs to fail. To access the original ISPF option 6 panel for use with a file transfer program, a user can enter the following command from any panel:

```
TSO /IS
```

or

```
TSO -TSO
```

The user can also enter the command /IS on the command line of the TSO Command Shell. Users can turn off the Data Set Commander TSO Command Shell and use the ISPF TSO shell instead.

If you have a workstation connection through the ISPF workstation program, you can use the OLIST XFER line command instead of your file transfer program.

Appendix F. OLIST reference list

You can get a reference list of OLISTs by blanking out the name of the OLIST currently on display and pressing ENTER or, on any panel entering the command

```
OLIST *
```

(shortcuts O* and OL*).

The OLIST reference list only contains OLISTs that the user has created or invoked. When you copy OLIST members from other OLIST libraries into your active OLIST library, you must first validate and register such copied members before they can be used as OLISTs. To do so, a user should enter the following command when the OLIST reference list is on display:

```
VALIDATE
```

Once the user references a shared OLIST, it appears on that user's OLIST reference list.

Note: If the first line of the OLIST is a comment line (a line that starts with an exclamation mark), that comment appears as the description of the OLIST in the OLIST reference list.

OLIST reference list

Appendix G. Supported objects

The following table lists the objects supported by every Data Set Commander function:

Object type	Object identification	Supported product	Example
Sequential, PDS data sets	Standard data set syntax	None needed, built-in support.	`ACCOUNTS.PAYABLE.COBOL` `PAYROL.NORTEAST.TRANS`
VSAM files	Standard data set syntax	FileManager, FileAid, Data-Xpert, Ditto, MacKinney VSAM utility, a sample browser. Open architecture supports installation written agents.	`ACCOUNTS.MASTER.DATA`
Panvalet or Librarian files	Standard data set syntax (requires OLE link during installation).	Panvalet-ISPF, Librarian ELIPS, and installation written interfaces.	`TAXES.MASTER.SOURCE`
DB2 tables	a leading hyphen (not part of the table name)	RC-UPDATE, PRO-EDIT, PRO-ALTER, CDB-EDIT, FileAid-DB2, and installation written interfaces.	`-ACCOUNTS.PAYABLE.NORTH`
DD NAMES	@DD. followed by a DDNAME	None needed, built-in support.	`@DD.STEPLIB` `@DD.ISPPLIB.#2`
SCLM hierarchies	Leading less-than sign	None needed, built-in support.	`<PROJECT.DEVGROUP.TYPE`
DSLIST or OLIST entries	Data set level with patterns (% or * included in the name)	None needed, built-in support.	`SYS1.*LIB`
z/OS UNIX System Services files	Leading forward slash, tilde or dot (not part of the name)	Automatically supported for MVS system that support z/OS UNIX System Services	`/ROOT/TEST/ACCOUNTS-PAY/AP.C`
z/OS UNIX System Services files	Leading right parenthesis (not part of the name)	None needed, built-in support.	`)/samples/compile.c`
PC File names	Name enclosed in double quotation marks		`"C:\WINDOWS\SYSTEM\SPFE5.DLL"`

Supported objects

Object type	Object identification	Supported product	Example
User Defined	Indicated by greater-than sign	User defined process through open architecture.	>MY-OBJECT_is/HERE

The Data Set Commander OLIST also supports these additional objects:

Object type	Object identification	Examples
Comments	Leading exclamation mark	! This is a comment
Dynamic OLIST	Leading :LISTX command	:LISTC sys1.*mac* :LISTV VOL001 ACCOUNTS.*COBOL* :LISTA ISPPLIB :LISTS LINKLIST :LISTS LPALIB
ISPF hierarchies	Leading equal sign	=PROJECT GROUP1 GROUP2 GROUP3 TYPE
Immediate commands	Leading plus sign (the command may include reference to another entry. Specify a slash followed by the entry number)	+LISTDS 'USER12.TEST.DATA' LABEL +RECEIVE +ISPEXEC SELECT PGM(MYPROG) PARM(A) +%MYTEST DSN(/2) TODSN(/3)
Prompt commands	Leading question mark (the command may include reference to another entry. Specify a slash followed by the entry number)	?LISTDS 'USER12.TEST.DATA' LABEL ?RECEIVE ?ISPEXEC SELECT PGM(MYPROG) PARM(A) ?%MYTEST DSN(/2) TODSN(/3)

Appendix H. Invoking ISPF through an alternate program

With Data Set Commander installed, ISPF is invoked from its internal entry point ISRPCP. If you want Data Set Commander to invoke a program other than ISRPCP, allocate a DD as follows (where NEWNAME is the name of the program you want to invoke):

```
//SPFPNAME DD DSN=DSNAME(NEWNAME)
```

or

```
ALLOC FILE(SPFPNAME) DA('DSNAME(NEWNAME)')
```

The DSNAME can be any data set, for example, the panel library. Data Set Commander only inspects the member name.

Note: The program name cannot be ISPF, PDF or ISPSTART.

Invoking ISPF through an alternate program

Appendix I. The customization wizard IQIWIZRD

The customization wizard IQIWIZRD provides the means for a complete customization of Data Set Commander. Once you start the wizard, it is a matter of filling in the appropriate fields, and moving from one panel to the next. The following panels show you what is available in the wizard.

Change bars have only been placed against significant changes to the panels, not against changes attributable to the change of product name.

```
 READY
%IQIWIZRD
```

```
PLEASE ENTER THE NAME OF THE -DSC- TABLE LIBRARY OR JUST PRESS ENTER TO EXIT.
EXAMPLE: IQI.SIQITLIB

  ===> IQI.V8R1M0.SIQITLIB
```

```
PLEASE ENTER THE NAME OF THE -DSC- TABLE LIBRARY OR JUST PRESS ENTER TO EXIT.
EXAMPLE: IQI.SIQITLIB

  ===> IQI.V8R1M0.SIQITLIB

PLEASE ENTER THE NAME OF THE -DSC- PANEL LIBRARY OR JUST PRESS ENTER TO EXIT.
EXAMPLE: IQI.SIQIPLIB

  ===> IQI.V8R1M0.SIQIPLIB
```

```
----------------------- IBMDSC - Customization Wizard ----------------------------
Command ===> 1

Please select which tasks you want to perform:

1 Customization      - Set up IBMDSC options and defaults.

X EXIT               - Exit - do not customize, do not set up password.

===================== Web Link ======================================
     http://www.ibm.com/software/products/us/en/data-set-commander
====================================================================

     Make your selections in the following screens and then:
     Press the Enter key to continue, or the END key to exit.








     -------------------------------------------------------------------
     | + PREVIOUS DEFAULTS WERE UPDATED BY -IBM- ON 01/11/14 AT 11:39:18 |
     -------------------------------------------------------------------
```

The customization wizard IQIWIZRD

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

+-----------------------------------------------------------------------------+
| Welcome to the IBMDSC customization wizard.  You will be presented with a    |
| series of screens where you will fill in different customization options.    |
|                                                                              |
| The selected options will determine which screens will be displayed, so      |
| don't be surprised if you get different results when you run this utility     |
| again with different selected options.                                       |
|                                                                              |
| Some of the options you select will force a change on all IBMDSC users,       |
| while others will only change their defaults. Those options that change       |
| default values will only affect new IBMDSC users. Existing users have         |
| their defaults already set in their ISPF profile.                            |
|                                                                              |
| Note that IBMDSC users can change their defaults via the SET command (by      |
| entering "DSC SET" or shortcut "ISET" on any ISPF panel).                     |
|                                                                              |
| You may display a list of all command shortcuts by entering main command     |
|  "DSC?" from any ISPF panel.                                                 |
+-----------------------------------------------------------------------------+
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===> _____

    Please select the options you would like to inspect or specify:
    (some options are pre-selected by IBMDSC)

Select   Option                              Notes
-------  -----------------------------------  ----------------------
  S      DASD storage management             Activate built-in support
  S      Browse/View preferences             Specify VIEW data integrity
  S      Obtain info about -DSC- objects     Recommended for new installation
  _      Install -DSC- session exits         Specify CLIST/REXX/module names
  N      Install -DSC- command user exit     Specify load-module name
  _      Change names of general commands    Rename -DSC- command names
  S      Copy/Move/Compress utility options  Specify IEBCOPY utility options
  _      Session diagnostics options         Control PANELID and other options
  S      User interface options              Action bars, hotbars, etc.
  N      Disable -DSC- at startup by default Command DSCON manually enables DSC
  S      Panel-Extension-Language options    Support for user defined panels
  S      -DSC- Monitor Options               Specify monitor execution options
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

Verify Object List (OLIST) defaults (for first time IBMDSC users):
Default OLIST command                ===> B (B=Browse, E=Edit, V=View)
 (When a line is selected by number, with the S line command, or with cursor)
Check edit recovery when list opens  ===> N (Y=Yes, N=No)
Default cursor position              ===> M (M=Main command, L=Line command)
Show VOLSER of cataloged data-sets   ===> Y  (Y=Yes, N=No)
Insert VOLSER in OLIST invoked CLISTs ===> N (Y=Yes, N=No)
Native (generic) DSNAME patterns     ===> Y (Y=Yes, N=No)
Allow OLIST name of a cataloged alias ===> N (Y=Yes, N=No)
Maximum size of permanent OLIST      ===>  2000 (Min=10 Max=99999)
Maximum size of temporary OLIST      ===> 20000 (Min=10 Max=99999)
Maximum size of Dataset-History list ===>   100 (Min=10 Max=999)
Temporary OLIST prompt threshold     ===>  1000 (Min=10 Max=99999)
 (When threshold is reached user is prompted to stop or resume filling list)
Implicitly created OLIST library UNIT name       ===> SYSALLDA
Implicitly created utility work files UNIT name  ===> SYSALLDA
Default suffix qualifier for CLONE data sets     ===> CLONE
Catalog search pattern rules         ===> 1 (0, 1, 2)
  (0) Unrestricted dataset name patterns
  (1) First character may not be a "wild card"
  (2) High level qualifier may not have any "wild card" characters
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

IBMDSC searches for the user PRIVATE OLIST library in the following order:
1. In the list of allocated files, for a DD name PLSTLIBW . If it is
   pre-allocated (before OLIST is invoked), IBMDSC will use it.
2. In the catalog. If a library by the name "qual1.PLIST.LIBRARY" is
   catalogued, IBMDSC will use it. "qual1" stands for the first level
   qualifier you specify on this screen.
3. In the list of allocated files, for a DD name IPITBLIB . If it is
   pre-allocated (before OLIST is invoked), IBMDSC will use it.
If IBMDSC cannot find the library pre-allocated or catalogued (as
explained above), it will try to allocate a new PDSE library, using the
name "qual1.PLIST.LIBRARY" with the UNIT name specified below.
Enter/Verify OLIST library defaults (as explained above):
  PREFIX ("qual1")      ===> U        ( U USERID, P TSO PREFIX)
  Allocation UNIT name  ===> SYSALLDA (Unit name, blank for SYSALLDA,
                                       or * for default TSO unit name)
IBMDSC also uses DD(IPITBLIB) for specifying a personal library as a
  repository of persistent tables, such as CUT/PASTE clipboards and
  the TSO-SHELL command lists. This library may be dynamically allocated
  at IBMDSC startup whenever DD(IPITBLIB) is omitted from the logon procedure.
Elect persistent table library use:  Y (yes), N (no) ===> Y
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

When a user selects a permanent OLIST, IBMDSC searches for an ISPF table
member with a similar name. The search is done in the following order:
1. The PUBLIC OLIST library that is allocated to DD name PLSTLIBP .
   A public OLIST can only be imported for use and never be replaced by
   the user. He may modify it and save it as a PRIVATE OLIST with a
   different (non public) name.
2. The PRIVATE OLIST library that is allocated to DD name PLSTLIBW .
   The user has complete control over his private OLISTs.
   A private OLIST name can not be same as of a public OLIST or any of
   the following reserved names: "@DD", "@H", "@HH", "@L" . It is also
   not allowed to start with "@LIST" or "IQI" .
3. The READ-ONLY OLIST library that is allocated to DD name PLSTLIBR .
   A read-only OLIST can be imported for use, modified and stored as
   a PRIVATE OLIST with the same (or different) name.
You may specify here the default names of the public and read-only OLIST
libraries to be dynamically allocated by DSC when their corresponding
DD statement is either omitted from the DSC logon procedure, or specifies
a dummy data set.
   PUBLIC OLIST library ==> IQI.OLIST.PUBLIC.LIBRARY
READ-ONLY OLIST library ==> IQI.OLIST.READONLY.LIBRARY
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

  IBMDSC uses object-oriented technology to provide users with access to
  different classes of objects they commonly use. The most common object
  class is a data set. Within the DATA SET object class, IBMDSC supports
  several subclasses (for example sequential data sets, PDS data sets).

  Each object class is internally associated with a "METHOD" - an access
  mechanism that indicates how IBMDSC should handle each class. This is
  similar to the "OLE" concept in Microsoft's Windows on the PC.

  Some methods are provided internally by IBMDSC (for example the method
  that handles PDS libraries and display the MSL -the Member Selection
  List). Other methods are IBMDSC interfaces to third party products - for
  example the DB2-table class method requires a third party product that
  can browse or edit DB2 tables.

  The following screens you will select which object classes should be
  supported by IBMDSC, and which methods each supports.
```

The customization wizard IQIWIZRD

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===> _____

    Select the optional object classes to be supported.  Internal
    object classes are already preselected.  If you are unsure, select
    all options to get more information about each one.  You will be
    able to de-select undesired option later.

Select   Object Class                         Notes
-------   ------------------------------------ ---------------------
  S      Open Edition files (IQI$UNIX CLIST)  Requires z/OS UNIX Services
  S      PC files (IQI$PC CLIST)              Requires ISPF workstation
  S      IBM BookManager data sets            Interfaces to IBM BookManager
  S      IBM SCLM support                     Activates built-in support
  _      Panvalet libraries                   Interfaces to third party product
         Librarian files                      Interfaces to third party product
  _      PDSMAN libraries                     Activates built-in support
  S      VSAM data sets                       Interfaces to third party product
  S      DB2 tables                           Interfaces to third party product
  S      User defined objects                 Define your own interface
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>
Specify DASD management products support:

Name of MIGRATION/ARCHIVAL system  ===> HSM    (HSM, DMS, ASM2, ABR or BLANK)
Name of secondary ARCHIVAL system  ===>        (ABR or blank)

Name of MIGRATION/ARCHIVAL volume  ===> MIGRAT (e.g. MIGRAT, ARCIVE)
Name of secondary ARCHIVAL volume  ===>

Name of "DELETE migrated" command  ===> HDELETE   (e.g. HDELETE)
  (Command name, CLIST, or REXX EXEC to be used instead of the DELETE command
  when a user tries to delete a migrated/archived data set in OLIST).

  Notes: - If you leave this field BLANK, IBMDSC will recall/restore the
           data set and then display a confirmation screen (that displays the
           data set contents if the DSORG is PO or PS).
         - If you do specify a command, CLIST or REXX EXEC, IBMDSC will
           invoke that command after receiving a confirmation on a panel
           that only lists the name of the data set (no contents displayed).
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>
IBMDSC VIEW FUNCTION CUSTOMIZATION:

    IBMDSC provides two types of VIEW: SHARED-VIEW and EXCLUSIVE-VIEW .

    EXCLUSIVE-VIEW is similar to EDIT - only one user can access the
    file (member) at a time.  Additionally, a confirmation screen will
    be displayed before changes are saved back to the file.

    SHARED-VIEW does not issue ENQ on the file, thus allowing others to
    edit the file at the same time.  Under SHARED-VIEW the save command
    is disabled, but the REPLACE/CREATE commands can still be used.

    Specify the type of VIEW for your installation:
      VIEW TYPE ===> S (E=Exclusive, S=Shared)

    Should users be allowed to override the above setting?
      USER CAN OVERRIDE THE VIEW TYPE ===> Y (N=No, Y=Yes-Override is allowed)
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>
DEFAULT PROCESS FOR MAIN PANEL OPTION 1 (BROWSE, VIEW)

  The program used to invoke BROWSE on the ISPF main menu can have two
  modes - BROWSE or VIEW. The program ("ISRBRO") is invoked by a statement
  in the ")PROC" section of the panel: "PGM(ISRBRO)"

  When PGM(ISRBRO) is invoked, IBMDSC displays an entry screen that
  includes a "DEFAULT ACTION ===>" field which provides the ability
  to set the action to B rowse, V iew, or E dit.

  The "DEFAULT ACTION" settings on this screen determines how IBMDSC
  handle browse requests. This setting is easily overridden by users
  via the SET command which can be issued on the same panel.

  The advantages of VIEW are the ability to change the file, to use CUT
  and PASTE, and to exclude lines. The disadvantage is that VIEW
  pre-loads the entire file and uses more resources.

  Specify the default action when PGM(ISRBRO) is invoked:
      DEFAULT ACTION ===> B (B=Browse, V=View)
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
OPTION ===>
Please select data integrity option (for COMPRESS/EXPAND/FREE TRACK functions):
Integrity option ===> 2 (1 or 2)
1 EXCLUSIVE CONTROL:
  IBMDSC will use ISPF's COMPRESS function to compress libraries (ISPF uses
  DISP=OLD for compression).  IBMDSC will also use DISP=OLD for the expand
  directory and FREE tracks functions.  The deficiencies of DISP=OLD are:
  - The operation cannot be executed if other users/jobs access the file.
  - To allow other users to access the file following the exclusive operation,
    any other function that is allocated to the file (browse, edit, etc.) must
    be terminated since MVS has upgraded all existing allocations to the file
    to DISP=OLD.  Note that this problem currently exists in ISPF.
2 SHARED WRITE:
  IBMDSC will use DISP=SHR with compress/expand, but will utilize the ISPF
  serialization protocol to ensure that no program that adheres to that
  protocol writes to the file while it is being processed.  SHARED WRITE avoids
  the EXCLUSIVE CONTROL problems.  SHARED WRITE does not introduce a new
  integrity exposure - programs that do not adhere to the ISPF protocol can
  always corrupt files by writing to the same file which ISPF performs a
  copy/save/create operation.

Specify name of COPY and COMPRESS program ===> IQISPFBU (Default=IQIBUTIL)
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

You have indicated that you need to provide support for the IBMDSC
Panel-Extension-Language (PEL) in certain user defined panels.
All panel names starting with "IQI" are already PEL-eligible.
You may enter here the panel name mask of your other PEL-eligible panels.

Following are the panel name mask rules:
- It may contain only alphanumerics, national symbols, and * or % .
- First character cannot be numeric.
- There must be at least one alphanumeric character or national symbol .
- An * will automatically be appended to a nonblank short name.
PEL-eligible user panel name mask ===> *AB%X*

You may also specify values (alphameric) of PEL optional user dialog variables:
UDLG1 = 1 to be used in a ))IF-VAR.UDLG1=? statement
UDLG2 = 2 to be used in a ))IF-VAR.UDLG2=? statement
UDLG3 = 3 to be used in a ))IF-VAR.UDLG3=? statement
UDLG4 = 4 to be used in a ))IF-VAR.UDLG4=? statement
```

The customization wizard IQIWIZRD

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

  IBMDSC includes an APF authorized started task Monitor (IQIMONTR).
  It is protected via the following RACF defined resource entities:
    ENTITY=IQIMONTR.OPER of CLASS=FACILITY
    ENTITY=IQIMONTR.TSO  of CLASS=FACILITY

  A user may have one of the following Monitor related authority levels:
    FULL - Complete control to start, stop, modify, and display Monitor status.
    LIBS - Modify monitored LLA libraries status and display Monitor status.
    VIEW - May only display Monitor status.
    NONE - No authority at all.

  The expected RACF user authorization levels are:
    FULL - LEVEL=CONTROL for ENTITY=IQIMONTR.OPER of CLASS=FACILITY
    LIBS - LEVEL=ALTER   for ENTITY=IQIMONTR.OPER of CLASS=FACILITY
    LIBS - LEVEL=UPDATE  for ENTITY=IQIMONTR.OPER of CLASS=FACILITY
    LIBS - LEVEL=CONTROL for ENTITY=IQIMONTR.TSO  of CLASS=FACILITY
    VIEW - LEVEL=READ    for ENTITY=IQIMONTR.OPER of CLASS=FACILITY
    VIEW - LEVEL=UPDATE  for ENTITY=IQIMONTR.TSO  of CLASS=FACILITY
    VIEW - LEVEL=READ    for ENTITY=IQIMONTR.TSO  of CLASS=FACILITY
    NONE - All other possible RACF levels.

  Set the default user authority ===> V (Libs, View, None)
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

Specify the default User Interface options for users who have not yet
used IBMDSC. (Enter Y for YES, N for NO):
Activate HOTBARS (on IBMDSC panels)  ===> Y (Cursor sensitive command fields)
Globally activate action bars        ===> Y (CUA style pulldown menus)
If action bars are globally active:
  Use action bars in edit/BROWSE   ===> Y (Note:action bar takes 2 panel lines)
  Use action bars in MSL           ===> Y (IBMDSC's Member Selection List)
  Use action bars in OLIST         ===> Y (IBMDSC's Object list)
  Use action bars in DSLIST        ===> Y (ISPF option 3.4)
Notes  1. Users can change these defaults.  The recommended method of changing
          these options is by entering the DSC SET command on the main menu.
       2. Pre-processing ISPF panels will prevent IBMDSC from changing these
          options on ISPF panels.  IBMDSC panels should never be pre-processed.
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

Specify the default for BROWSE/EDIT/VIEW main menu display of
reserved name @H :
Display OLIST of History-List                  ===> Y (Y=Yes, N=No)
Prompt with FIND command after a Global FIND  ===> Y (Y=Yes, N=No)
Insert VOLSER in MSL invoked CLISTs           ===> N (Y=Yes, N=No)
Support PDSE member generations (z/OS V2.1)   ===> N (Y=Yes, N=No)
Default SAVE NEWGEN (PDSE member generation)  ===> N (Y=Yes, N=No)

Specify the default User Interface options for CUT and PASTE
command handling :
  Cut and Paste Options    ===> 1   (1, 2)
  (1) DSC CUT/PASTE        CUT/PASTE commands are DSC's for all applications
                                    (ISPF, SDSF, OMVS, etc.)
  (2) ISPF CUT/PASTE       CUT/PASTE commands are ISPF's for all applications

Specify the site-wide member name for storing library member titles:
  Member title list name  ===> Z999TITL
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

MSL (Member Selection List) is the IBMDSC built-in method of displaying
member lists in ISPF. MSL provides stacking of multiple commands,
filtering of the member list, global actions (global find, change,
edit), member-preview windows, and other powerful functions.
Specify below the following MSL defaults:
 Disable STATS command: disallow to manually change   ==> N (N=No, Y=Yes)
                        directory entry ISPF statistics data.
 Disable J line command: disallow to submit a member  ==> N (N=No, Y=Yes)
                        as a JCL JOB. To prevent from accidental submission.

              User modifiable defaults (via the SET command of MSL)
 Automatic preview: display top of member window      ==> Y (N=No, Y=Yes)
                    following the Locate, Find, or FindText commands.
 Enable special characters support in target member   ==> N (N=No, Y=Yes)
                              names of line commands: Alias, Copy, Rename.
 Enable support for IEBCOPY member name convention:   ==> Y (N=No, Y=Yes)
  accept "_" (x'6D') and "{" (x'C0') in a member name. Also implied by above.
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

      IBMDSC has a built-in printing engine that directs printouts to a
      SYSOUT file without the intermediate ISPF LIST data set.

      Users can direct their IBMDSC print requests to the ISPF
      list data set, or use IBMDSC's faster method.

      When the IBMDSC method is selected, IBMDSC dynamically allocates
      a SYSOUT file using the specifications that reside in each
      user's profile. On the following screen you will specify the
      defaults for users who have not yet run under IBMDSC. Users who
      have already run under IBMDSC have their defaults saved in their
      ISPF profile.

      To change the defaults, users can use the SET PRINT command (in
      MSL or OLIST).
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

In case IBMDSC print requests directed to the IBMDSC print engine rather then
the ISPF LIST dataset, specify the SYSOUT allocation defaults (for users who
have not yet used IBMDSC).
IBMDSC users can change these options via the SET command.

Enter/Verify SYSOUT attributes:
    DESTINATION ID     ===>                  (Node-id<.User-id>)
    CLASS              ===> A        (or Sysout class)
    Lines per page     ===> 60       (page size)
    Keep in HOLD queue ===> N        (Y=Yes, N=No)
    FORM number        ===>
    FCB name           ===>
    WRITER name        ===>          (Output WRITER)
```

The customization wizard IQIWIZRD

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

IBMDSC provides an alternative TSO command shell that provides
command history, permanent commands entries, execution of ISPF dialog
manager statements, and substitution of data sets pointed by the
cursor (create your own point-and-shoot commands).
For example, if a permanent entry number 5 is defined as:
     %TRANSFER SYSB.JONES DSN(/)
then by entering "TSO 5" on any ISPF screen while placing the cursor
on a data set name appearing on that screen would execute the %TRANSFER
command on the pointed data set.
The SET command is used to activate or deactivate the IBMDSC TSO command shell.
For users who have not yet used IBMDSC, indicate the desired defaults:
  Use IBMDSC shell    ===> Y  (Y=Yes - Use the IBMDSC TSO shell, N=No)
  Initial screen      ===> H  (H=History list, P=Permanent list)
  Command list limit ===> 100 (History and Permanent maximum number of entries)
  Automatic filling  ===> Y  (Y=Yes - Automatically fill permanent list, N=No)
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

Specify DSLIST (option 3.4) parameters:

IBMDSC adds the ability to invoke OLIST (Object/dataset list) directly
from the DSLIST panel. These object lists are faster and more powerful
than the ISPF Data set list (DSLIST).

The following option specifies the DEFAULT action taken on the DSLIST panel
when the user presses the ENTER key with a blank "OPTION ===>" field:

Default action ===> TP (DS DSLIST, PL Permanent List, TP Temporary List)

Notes: - Regardless of the selected default, users can select any other
           option by explicitly entering one of the other DSLIST
           panel options (like DS, V, PV, etc).
         - The default action may also be set by each user via the
            SET command on the DSLIST panel.
```

```
 ----------------------- IBMDSC - Customization Wizard -----------------------
 Command ===>

SCLM is ISPF's Software Configuration and Library Manager. SCLM provides
controlled edit capabilities within standard PDS libraries (with member locking,
check-in/check-out), full development life cycle of applications (including
a "MAKE"), and extensive reporting. SCLM is an integrated part of ISPF.

IBMDSC can provide significant benefits to SCLM users by integrating SCLM
support into the standard member list, DSLIST and OLIST. If your installation
uses SCLM, it is recommended that you activate the SCLM support on this screen.

Activate SCLM support ===> D Y =Yes - Support SCLM for all users
                             N =No  - Do not provide SCLM support
                             D =Conditional support.  SCLM will only be
                             supported for users who at the time IBMDSC is
                             started, have a preallocated DD "IQISCLM" .
                             This DD can be allocated in the LOGON PROC/CLIST.
                             Example: ALLOC DD(IQISCLM) DUMMY
                                  or   //IQISCLM DD DUMMY
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

Verify SCLM options:
SCLM parameter prompt  ===> F Y =Yes - Whenever an SCLM library is accessed.
                               N =No - Users must preset the parameters with
                                  the SCLMPARM command (in the Member List).
                               F =A prompt screen is displays only on first time
                                  access to a specific library. Thereafter the
                                  previous parameters for that library are used.

Note:the above option can be changed by individual users via the SET command.

Override SCLMCHK value ===> * (W=WARN, E=ERROR, N=NONE, *=no override)
 This setting allows you to override the value of the "SCLMCHK" field in
 ISRCONFG (ISPF's configuration table). This field defines how edit should
 react when attempting to edit an SCLM-saved file without SCLM locking.

 SCLMCHK values (See ISPF Customization for more details):
  WARN  -Display a warning message if edited project/member is SCLM controlled.
  NONE  -No checking is done. No warning messages issued.
  ERROR -Reject editing of SCLM-saved members without SCLM or IBMDSC locking.
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>
IBMDSC recognizes BookManager BOOK and BOOKSHELF data sets by their special
suffixes. It may further verify certain attributes before passing control
to BookManager.

Set BookManager interface EXEC name  ===> IQI$BMGR
Set BookManager BOOKSHELF defaults:
Data set name suffix    ===> BKSHELF
Data set record format ===> VB   (specify N to ignore)
Data set record length ===> 259

Set BookManager BOOK defaults:
Data set name suffix    ===> BOOK
Data set record format ===> FB   (specify N to ignore)
Data set record length ===> 4096
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>
When IBMDSC detects a VSAM data set (in BROWSE, EDIT, VIEW, DSLIST, or object
list), it may use an interface to process it. You may select which kind
of VSAM support you want in your installation, if any. The table below
shows what CLIST will handle the support you have selected.
     VSAM interface ===> 2   (Select one of the following options)
Option Invoked VSAM interface                           Interface CLIST
------ --------------------------------------------------------- --------------
  0    None (IBMDSC will not handle VSAM files.) . . . . . . Not applicable
  1    Installation-written VSAM interface . . . . . . . . . IQIVSAM
  2    IBM File Manager for z/OS . . . . . . . . . . . . . . IQI$FMGR
  3    File-Aid VSAM browser/editor(For Version 6 or below) . IQI$FAID
  4    File-Aid VSAM browser/editor(Version 7.0). . . . . . . IQI$XPRT
  5    File-Aid VSAM browser/editor(Version 8.0 or above) . . IQI$FAR8
  6    Data-Xpert VSAM browser/editor . . . . . . . . . . . . IQI$XPRT
  7    MacKinney ISPF VSAM Utility  . . . . . . . . . . . . . IQI$MCKN
  8    IBM Ditto/ESA . . . . . . . . . . . . . . . . . . . . IQI$DIT
  9    Serena STARTOOL . . . . . . . . . . . . . . . . . . . IQI$STOL
 10    VSAM RECORD BROWSER (A SAMPLE WORKING INTERFACE) . . . IQIVBRO

Notes: Options 2-9 require a third-party product. If such a product uses
       LIBDEFS, include the LIBDEF statements in the interface CLIST.
```

The customization wizard IQIWIZRD

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

When IBMDSC detects a data set name that starts with a hyphen (in BROWSE
EDIT, VIEW, and the object list), it assumes that the text string
following the hyphen is the name of a DB2 table.  You may select which
kind of DB2 support you want in your installation, if any.  The table
below shows what CLIST will handle the support you have selected.
  DB2 interface ===> 9 (Select one of the following options)
ption Description                                                    CLIST
----- ----------------------------------------------------------- --------
  0    None (IBMDSC will not handle DB2 tables.) . . . . . . . . . . None
  1    Installation-written DB2 interface  . . . . . . . . . . . . . IQIDB2
  2    Computer Associates Pro-EDIT Version 5.0 or earlier . . . . . IQI$PRED
  3    Computer Associates Pro-EDIT Version 5.1 or above . . . . . . IQI$PR51
  4    Computer Associates Pro-EDIT Version 7.0 or above . . . . . . IQI$PR70
  5    Platinum Technology's RC/UPDATE browser/editor  . . . . . . . IQI$RCUD
  6    Platinum Technology's RC/UPDATE browser/editor VER 2 or above . IQI$RCU2
  7    Compuware's FileAID for DB2 table browser/editor  . . . . . . IQI$FAB2
  8    CDB Software's CDB/EDIT table editor  . . . . . . . . . . . . IQI$CDBE
  9    IBM File Manager/DB2 for z/OS table browser/editor  . . . . . IQI$FMD2
Note: If you use LIBDEFs to invoke your DB2 editor, include
      the LIBDEF statements in the appropriate CLIST named above.
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

You have indicated that you want to define user objects.

IBMDSC will assume that a data set name (in BROWSE, EDIT, VIEW, and OLIST)
that starts with the greater-than sign (>) is a user object, and pass
control to a CLIST (or REXX EXEC) to handle the object.  A skeleton CLIST,
indicating the available parameters, resides in the IBMDSC CLIST library
under the name IQI$USER.

Specify below the name of the user object handler:

CLIST/REXX EXEC name    ===> IQI$OUT  (Leave BLANK for no user-object support)

NOTE: A sample object handler called IQI$OUT is in the IBMDSC CLIST library.
```

```
----------------------- IBMDSC - Customization Wizard -----------------------
Command ===>

The customization wizard has completed the first phase of interviewing you for
the installation options.

You can now proceed to finalize the customization process (press the ENTER key)
or you may cancel (press the END key) and redisplay the initial screen.
```

```
-DSC- ------------ TSO COMMAND SHELL - RESTRICT HISTORY RECORD Row 1 to 2 of 2
COMMAND    ===>                                           SCROLL ===> CSR

Main commands: CANCEL, DOWN, END, UP
Line commands:I insert, D delete

     +-----------------------------------------------------------------+
     | TSO commands (or CLIST or REXX EXECS) specified here with the    |
     | "No History" set to Y (YES) will not be recorded in the command  |
     | history list of the TSO Command Shell (option 6).                |
     +-----------------------------------------------------------------+
               Line       Command  No
               COMMAND    or CLIST History
               --------- -------- ------
                  _        PASSWORD   Y
                  _        PROTECT    Y
               -----------------------
```

```
                    Specify Disposition of Log Data Set
Command ===>

Log Data Set (INTT225.SPFLOG1.LIST) Disposition:
Process Option . . . .    1. Print data set and delete
                          2. Delete data set without printing
                          3. Keep data set - Same
                             (allocate same data set in next session)
                          4. Keep data set - New
                             (allocate new data set in next session)
Batch SYSOUT class . .
Local printer ID or
writer-name  . . . . .
Local SYSOUT class . .

List Data Set Options not available

Press ENTER key to complete ISPF termination.
Enter END command to return to the primary option menu.

Job statement information:  (Required for system printer)
 ===>
 ===>
 ===>
 ===>




                     ┌─────────────────────────────────┐
                     │  INSTALLATION DEFAULTS WERE SAVED │
                     └─────────────────────────────────┘
```

The customization wizard IQIWIZRD

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