

# **Advantage™ VISION:Inquiry®**

## **for CICS®**

### **Installation Guide**

**6.5**



Computer Associates®

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# 1 Introduction

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Thank you for choosing Advantage™ VISION:Inquiry® 6.5. Before you install the software, read this chapter for important information.

This book describes how to install VISION:Inquiry. Any questions regarding the installation should be directed to Computer Associates Technical Support. For more information, see [Contacting Computer Associates on page 1-12](#).

## About this Guide

Read this chapter to acquire an understanding of the elements and processes that comprise the installation of VISION:Inquiry at your site.

Read [Chapter 2, “Installation”](#), and the accompanying appendices, before starting the installation process so that you can have all of the details regarding the installation, customization, and maintenance of VISION:Inquiry.

**Note:** Throughout this document, OS/390® is synonymous with z/OS®, unless specified differently.

## Audience

The System Programming Group is usually responsible for software product installation and maintenance because of their SMP/E (System Modification Program Extended) knowledge. This guide assumes a working knowledge of the SMP/E Facility and its processes.

A basic standalone SMP/E installation and maintenance approach is presented. For the knowledgeable SMP/E user, there is enough information provided in this guide, and the supplied JCL and Control Statements, to allow integration with any site specific SMP/E standards. For the SMP/E novice, this book and the SMP/E documentation should provide enough of the information and concepts you need to complete the SMP/E installation process.

## OS/390 SMP/E Facility

Starting with version 6.5 of VISION:Inquiry and its features, the installation and maintenance is managed by, and under control of, the OS/390 SMP/E facility provided by IBM. This process differs significantly from previous releases of VISION:Inquiry.

## Licensed Management Program

VISION:Inquiry uses the Computer Associates License Management Program (LMP), which provides a standardized and automated approach to the tracking of licensed software.

## Installation Process

The installation process consists of the following:

- Pre-installation activities that include:
  - CICS System Generation
  - DB2 Attach Facility Specifications
  - Licensing Requirements
- Installation steps to:
  - Load the installation preparation libraries from the tape
  - Generate the required JCL using the Installation Preparation Dialog
  - Set up SMP/E and allocate libraries
  - RECEIVE and APPLY the VISION:Inquiry elements into the Global and target zones/ libraries
- Post-installation activities to:
  - Build IMS control blocks
  - Create and initialize the VISION:Inquiry work databases
  - Create and load the system database
  - Create and load the test databases
- Verifying the Installation
- Installation steps to ACCEPT the VISION:Inquiry elements and build the distribution libraries
- Customizations and setups

**Note:** The installation process also has some references to the Definition Process described in Chapter 5, The Definition Process of the *Advantage VISION:Inquiry for CICS Technical Reference Guide*.

A worksheet for determining and listing various installation-dependent items and a check list describing the installation activities, step-by-step, are also provided.

When a new release of VISION:Inquiry is distributed, you receive the distribution tape, this Installation Guide, and the *Advantage VISION:Inquiry for CICS Technical Reference Guide*, which contains complete installation and customization instructions. However, because some of the steps involved in a new installation are unnecessary when upgrading to a new release, you will also receive the *Advantage VISION:Inquiry for CICS Release Summary* which contains instructions for migrating from any supported release to the current release of VISION:Inquiry.

With a new release of VISION:Journey, you receive a CD containing the software and the related documentation.

With a new release of Intraccess, you receive a tape and CD containing the software and the related documentation.

## Pre-Installation Activities

You must complete a number of pre-installation activities before VISION:Inquiry can run, some of which you can perform before the actual installation steps. In a typical data processing installation, some of these tasks should be scheduled well in advance of the intended implementation time. The first of these is to review the supplied documentation to determine the specifics (options, database names, and so on) that apply to the installation. The following sections relate to activities recommended for advance preparation.

- Installation worksheet starting on page [2-1](#).
- Installation check list starting on page [2-10](#).
- CICS generation specifications starting on page [2-21](#).
- DB2 Attach Facility specifications starting on page [2-26](#)

This chapter contains information for sites licensed with the VISION:Inquiry DB2 option, and without the DB2 option. Text containing DB2 is specifically applicable to DB2 licensed sites.

- PC specifications and requirements.

For Intraccess or VISION:Journey specifications and requirements, see the Intraccess or VISION:Journey documentation.

## Pre-Installation Aids

This section contains materials to help you install your system in a procedural fashion, and it provides a means of documenting the installation. There is a worksheet to identify the names of the various VISION:Inquiry components, and a check list to describe each step of the installation process.

Before beginning your installation, become familiar with the information in this chapter and the *Advantage VISION:Inquiry for CICS Release Summary* (formerly the Customer Bulletin); also fill out the [Installation Worksheets](#) starting on page [2-1](#) and review the [Installation Check List on page 2-10](#).

## System Components

VISION:Inquiry is an effective tool for easy access to information stored in IMS (DL/I) databases, DB2 tables or views, and VSAM data sets. To use VISION:Inquiry, the end user needs relatively little data processing experience or knowledge of database and file structures, display terminal characteristics, or knowledge of the CICS environment.

This chapter contains information for sites licensed with the VISION:Inquiry DB2 option and without the DB2 option. Text containing DB2 is specifically applicable to DB2 licensed sites. Terms such as database, database map, user database, and so on, refer equally to IMS (DL/I) databases, DB2 tables or views, and VSAM data sets, unless explicitly qualified.

The native VISION:Inquiry system consists of a system database, the inquiry processing programs, and utility programs.

The VISION:Inquiry system database is the heart of the system and can be implemented as an IMS (DL/I) HDAM database (OSAM or VSAM), consisting of root segments only, an RRDS VSAM data set, or a two-column DB2 table. The utility programs are used to create and maintain the system database. The two native inquiry processing programs (inquiry processors) are:

- CICS online program
- Batch program

The Automatic Query Facility (AQF) is a menu-driven component of the VISION:Inquiry system. AQF consists of a set of BMS screens and programs.

The Text Editor facility is the stored inquiry editor component of the VISION:Inquiry system. The Text Editor consists of a set of BMS screens and programs.

The DB2 option of VISION:Inquiry allows access to the DB2 tables. When the DB2 option is installed, there is an independent load module and the other DB2-specific routines are link edited with the other VISION:Inquiry processing programs.

Intraccess is a Java-based tool that communicates with VISION:Inquiry using TCP/IP.

The VISION:Journey facility allows you to do all interactions on the PC. The VISION:Journey host component consists of a VSAM download data set, file transfer processing programs, and utility programs.

The VISION:Inquiry test data are used for installation verification and to demonstrate VISION:Inquiry's capability of diagnosing problems. The test data supplied with VISION:Inquiry are two IMS (DL/I) databases, DB2 tables, DB2 views, and four VSAM data sets. You can find more detailed information about the structure and test data in Chapter 3, System Components, of the *Advantage VISION:Inquiry for CICS Technical Reference Guide*.

## VISION:Inquiry Configuration Requirements

- Operates as a CICS online application, a DL/I batch program, or an ordinary (non-DL/I) batch program.
- Operates in MVS in the CICS and batch environments.
- Utilizes standard coding and design conventions for application programs executing in these environments.
- Supports terminals, display stations, and printers supported by Basic Mapping Support (BMS).

## Product Terminology

The following terms (in alphabetical order) are used to reference different parts of VISION:Inquiry.

Automatic Query Facility (AQF)	The menu driven portion of VISION:Inquiry.  AQF uses different menus to build the inquiry and then passes control to native VISION:Inquiry to process the inquiry and send the output to the terminal.
Database database map user database	Database, database map, and user database apply equally to IMS (DL/I) databases, DB2 tables/views, and VSAM data sets except where specifically noted.
Intraccess	A Java-based tool that communicates with VISION:Inquiry using TCP/IP. Use it to run queries stored in the VISION:Inquiry system data base, deliver the data to PCs, and make the data available to end users.
Native SQL Syntax	A facility of native VISION:Inquiry which provides you with the capability to use embedded SQL SELECT statements to access DB2 tables.
Native VISION:Inquiry	The free-form portion of VISION:Inquiry (not including AQF).
VISION:Journey for Windows	Facility which provides users with the capability to download the data or report to a PC file using Microsoft® Windows. VISION:Journey is licensed separately.
VISION:Journey download data set	Staging file used to hold data for download processing. For VISION:Journey, this is a VSAM data set. The person who installs the product must specify the data set type at installation time.
VISION:Inquiry	The complete system, comprising Native VISION:Inquiry and AQF.
VSAM hierarchical data sets	VSAM data sets with fixed or variable occurrences of data items. These types of VSAM data sets are defined differently for VISION:Inquiry than other VSAM data sets which, in this guide, are called <i>VSAM non-hierarchical data sets</i> .

The following notation is used in the VISION:Inquiry documents:

DB2 tables/views	The same as DB2 tables or views.
DL/I database	The same as IMS (DL/I) database.
LLLLLL (MMMMMM)	Indicates that MMMMMM is a member of the LLLLLL library.

## Associated Documents

The following books are available for VISION:Inquiry. All of the VISION:Inquiry books are on the VISION:Inquiry documentation compact disc.

<i>Advantage VISION:Inquiry for CICS Getting Started</i>	<p>Contains a brief introduction to the product and an overview of the installation.</p> <p>This document was previously known as the CD booklet.</p>
<i>Advantage VISION:Inquiry for CICS Release Summary</i>	<p>This environment-specific document contains practical techniques for using VISION:Inquiry more efficiently. It also contains information pertinent to new releases of the system as well as useful information from our customers and Technical Support staff.</p> <ul style="list-style-type: none"><li>■ Use this environment-specific document in conjunction with its corresponding <i>Advantage VISION:Inquiry for CICS Technical Reference Guide</i>.</li><li>■ This document was previously called the <i>VISION:Inquiry Customer Bulletin</i>.</li></ul>
<i>Advantage VISION:Inquiry for CICS Installation Guide</i>	<p>This environment-specific document contains the installation instructions and the Post-Installation Dialog.</p>

*Advantage  
VISION:Inquiry  
for CICS Technical  
Reference Guide*

This environment-specific document contains descriptions of the system components, information on defining the system, using the system utilities, programming and operation considerations, user exits, system modules and system macros.

- Use this environment-specific document, in conjunction with its corresponding *Advantage VISION:Inquiry for CICS Release Summary*.
- This document was previously called the *VISION:Inquiry Technical Reference Manual*.

*Advantage  
VISION:Inquiry  
for IMS and CICS  
Automatic Query  
Facility (AQF)  
User Guide*

Provides end users with information about using VISION:Inquiry Automatic Query Facility (AQF). It explains the use of the menu-driven system and provides examples of simple and complex inquiries. This document may be referred to as the *AQF User Guide*.

This document was previously called the *VISION:Inquiry for IMS and CICS Automatic Query Facility User's Guide*.

*Advantage  
VISION:Inquiry  
Reference Guide*

Provides end users with information about using VISION:Inquiry. It explains command statements, provides syntax rules, and contains examples showing how the language works.

- This document was previously called the *VISION:Inquiry for IMS, CICS, and TSO User's Guide*.
- The *VISION:Inquiry Reference Summary* is now included in an appendix in the *VISION:Inquiry Reference Guide*. It is an easy-to-use summary of VISION:Inquiry statements and commands and their relationships to each other.

*Advantage  
VISION:Inquiry  
Messages Guide*

Lists and explains the various input and output error messages that can be issued by AQF, native VISION:Inquiry, and VISION:Journey for Windows.

This document was previously called *VISION:Inquiry for IMS, CICS, and TSO Error and Informational Messages*.

The following is a list of associated documents for VISION:Inquiry:

*VISION:Journey  
for Windows  
System  
Administrator's  
Guide* Provides the hardware and software requirements, the PC software installation procedure, and the steps necessary by the system administrator to establish and maintain the user profiles for VISION:Journey for Windows.

This document is on the VISION:Journey compact disc.

*VISION:Journey  
for Windows  
User's Guide* Explains the menu commands, dialog boxes, and functions available to the end user and how to use them.

This document is on the VISION:Journey compact disc.

*Intraccess help* Explains the menu commands, dialog boxes, and functions available to both the user with administrative authority and the end user.

This documentation is on the Intraccess compact disc.

## CD-ROM Contents

- Online documentation
- Adobe® Acrobat® Reader software and Acrobat Help

### About the Online Documentation

The CD-ROM contains the documentation for VISION:Inquiry. The documents, called books, are in Adobe Acrobat Portable Document Format (PDF) and are designed for you to read online using the Acrobat Reader.

Each online document contains a table of contents, index, and cross-references.

**Note:** You can install the online documentation only on a Windows® system.

### Installing Online Documentation and the Acrobat Reader

You can install the online documentation on your local hard drive or on a network server. Alternately, you can access the documentation directly from the CD-ROM.

If you do not have Acrobat Reader installed, you can install it from the CD-ROM.

To install the online documentation, the Acrobat Reader, or both:

1. Close all application programs.
2. Insert the CD-ROM into the CD-ROM drive.
3. Click the Start menu and select Run.
4. In the Run dialog box, type: D:\Books\Setup.exe (where D:\ is the CD-ROM drive) and click OK.
5. Follow the instructions. Computer Associates recommends that you install the online documentation in the default directory (C:\ProgramFiles\CA\Advantage VISION\_Inquiry 6.5 CICS\Books\) or a directory of your choice (for example, C:\VISION\_Inquiry 6.5 CICS\Books\).

### Viewing Online Documentation

Regardless of the location of the online documentation (on a local drive, a network server, or CD-ROM), you can view the online documentation using the following methods:

- In Windows, click the Start menu, point to Programs, point to Advantage VISION\_Inquiry 6.5 CICS. Double-click the PDF file name.

- In Windows Explorer, point to the Books directory on the hard drive where you installed the online documentation. Double-click the PDF file name.
- In Windows Explorer, point to the Books directory on the CD-ROM drive and double-click the PDF file name.

## Using Adobe Acrobat Reader

Use Acrobat Reader to view the online documentation, adjust the size of the page, and perform searches. For more information, use the Acrobat Help menu.

## Contacting Total License Care (TLC)

TLC is available Monday-Friday 7 am - 9 pm Eastern Time in North America and 7 am - 7 pm United Kingdom time. Additionally, 24-hour callback service is available for after hours support. Contact TLC for all your licensing requirements.

Be prepared to provide your site ID for product activation.

To activate your product, use one of the following:

Location	Phone	email
North America:	800-338-6720 (toll free) 631-342-5069	help@licensedesk.cai.com
Europe:	00800-1050-1050	euro.tlc@ca.com
If your company or local phone service does not provide international access, please call your local Computer Associates office and have them route you to the above number.		
Australia:	1-800-224-852	
<b>New Zealand:</b>	0-800-224-852	
Asia Pacific:	800-224-852	
Brazil:	55-11-5503-6100	
Japan:	Not available	JPNTLC@ca.com

## Contacting Computer Associates

For technical assistance with this product, contact Computer Associates Technical Support on the Internet at [SupportConnect.ca.com](http://SupportConnect.ca.com). Technical support is available 24 hours a day, 7 days a week.

# 2 Installation

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This chapter tells you how to install VISION:Inquiry. The installation of the product requires the OS/390 SMP/E facility and the Computer Associates License Management Program (LMP).

## Installation Worksheets

Use the worksheets to help you identify and name various items required during installation of VISION:Inquiry. The data is broken down into various logical groupings; within each group you are given descriptions of items for which names are required. The supplied names are listed for items created or loaded from the tape during installation, and blank spaces are provided for you to enter in the names you use. If you are installing many transactions or separate test and production systems, you should make copies of the worksheet before filling in the blanks.

If you are viewing this documentation on-screen, you need to print this chapter to use the Installation Worksheet.

VISION:Inquiry Installation Worksheet			
CICS Requirements for Native VISION:Inquiry			
	TRANSACTION 1	TRANSACTION 2	SUPPLIED AS
Transaction ID			
Start native VISION:Inquiry			IQIO
Program names native VISION:Inquiry			
Inquiry front-end (also PSB) PSB for installations using a DL/I system or user database only.			INQIO
Main inquiry processor			IXXSTR
Sort processor			IXCSORT
Transient data set IDs			
Language Environment messages			CEEMSG
EXTRACT command			DYL1
BMS mapset names for native VISION:Inquiry			INQMAP1M INQMAP2M

CICS Requirements for AQF			
	TRANSACTION 1	TRANSACTION 2	SUPPLIED AS
Transaction ID			
Start AQF			IQBE
Program names			
AQF main (also PSB) PSB for installations using a DL/I system database only.			IDBI01
BMS mapset names			IDBEHnnM <sup>1</sup> IDBEMnnM <sup>1</sup> IDBERRSM <sup>1</sup>

<sup>1</sup> nn is a 2-digit number

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<b>VISION:Inquiry Installation Worksheet</b>			
<b>CICS Requirements for Text Editor</b>			
	TRANSACTION 1	TRANSACTION 2	SUPPLIED AS
Transaction ID			
Start Text Editor			IQED
Program names			
Text Editor processor			INQEDIT
BMS mapset names			
Main screen			IQEMAPMM
Help screen			IQEMAPHM

<b>CICS Requirements for Intraccess</b>			
	TRANSACTION 1	TRANSACTION 2	SUPPLIED AS
Front-end program			INQINTRA
Transient data set ID			
CICS TCP/IP			TCPM

<b>VISION:Inquiry Installation Worksheet</b>			
<b>DL/I Requirements</b>			
	TRANS. 1	TRANS. 2	SUPPLIED AS
System database DBD name			IXXDB
ddname			IXXDB
Data set name			II.IXXDB
PLANT test database DBD name			IIDBDDM
Prime ddname			IIDBDDM
Overflow ddname			IIDBDDMO
Prime data set name			II.PLANT
Overflow data set name			II.PLANTOV
SKILL test database DBD name			IIDBDDS
Prime ddname			IIDBDDS
Overflow ddname			IIDBDSSO
Prime data set name			II.SKILL
Overflow data set name			II.SKILLOV

<b>PSB Names for Batch Inquiry and Utility Programs</b>		
	TRANSACTION 1	SUPPLIED AS
Initialize system database		IIPSB01
Maintenance utilities		IIPSB02
Build test databases		IIPSB03
Batch inquiries		INQIO
System database randomizer		IMSVS.RESLIB (IXXRMODL)

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**VISION:Inquiry Installation Worksheet**

<b>DB2 Requirements</b>			
	TRANS. 1	TRANS. 2	SUPPLIED AS
Subsystem name			DSN
Plan name			II
System database			DYLINQ.IISYSTEM
IBM® test table AUTHID			DSN82
Test tables/views			DYLINQ.IIPLANT
			DYLINQ.IIPLANT_PROD
			DYLINQ.IIPLANT_EMP
			DYLINQ.IIEMP_SAL
			DYLINQ.IIEMP_ED
			DYLINQ.IIEMP_ED_SUB
			DYLINQ.IISKILL
			DYLINQ.IISKILL_PLANT
			DYLINQ.IISKILL_EMP
			DYLINQ.IIPRODUCTS
			DYLINQ.IISALARIES
			DYLINQ.IIEDUCATION
			DYLINQ.IISKILLS

**VISION:Inquiry Installation Worksheet**

<b>VSAM Requirements</b>			
	TRANS. 1	TRANS. 2	SUPPLIED AS
System database ddname			IXXDB
Data set name			II.IXXDB
Sort work data set ddname The sort work data set is only required if the option of using the VSAM work file is selected for online sort in the online processing parameters module, CVLCPARM.			SORTWORK
Data set name			VS.SORTDS
VSPLANT test file ddname			VSPLDS
Data set name			VS.VSPLDS
VSSKILL test file ddname			VSSKDS
Data set name			VS.VSSKDS
VSHPLANT test file ddname			VSHPLDS
Data set name			VS.VSHPLDS
VSHSKILL test file ddname			VSHSKDS
Data set name			VS.VSHSKDS

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VISION:Inquiry Installation Worksheet		
Existing Libraries Required		
		ASSUMED DATA SET NAME
CICS online program library		
CICS load library		CTS130.CICS530. SDFHLOAD
CICS macro library		CTS130.CICS530. SDFHMAC
IMS ACBLIB		
IMS DBDLIB		
IMS PSBLIB		
IMS RESLIB		IMSVS.RESLIB
DB2 link/load library		DSN510.SDSNLOAD
Language environment library for PL/I compatibility entry points		CEE.SIBMCALL
Language environment library for resident routines		CEE.SCEELKED

IMS RESLIB, ACBLIB, DBDLIB, and PSBLIB are required only if DL/I system or user data is used.

The TCP/IP support and libraries are also required for Intraccess processing.

VISION:Inquiry Installation Worksheet	
New Generated Target Libraries	
	Supplied as
Macro library	II.TCVLMAC
Source library	II.TCVLSRC
Job control library	II.TCVLCNTL
Object library	II.TCVLOBJ

<b>VISION:Inquiry Installation Worksheet</b>			
Program library		II.TCVLPGM	
CLIST library		II.TCVLCLST	
Panel library		II.TCVLPLIB	
Skeleton library		II.TCVLSLIB	
Message library		II.TCVLMLIB	
<b>New Generated Distribution Libraries</b>			
		<b>Supplied as</b>	
Macro library		II.DCVLMAC	
Source library		II.DCVLSRC	
Job control library		II.DCVLCNTL	
Object library		II.DCVLOBJ	
Program library		II.DCVLPGM	
CLIST library		II.DCVLCLST	
Panel library		II.DCVLPLIB	
Skeleton library		II.DCVLSLIB	
Message library		II.DCVLMLIB	
<b>Installation Procedures and JCL</b>			
	<b>Trans. 1</b>	<b>Trans. 2</b>	<b>Supplied as</b>
CICS table generation			Samples in II.TCVLMAC (INQYDCT and INQYRCT).  Alternatively, and for INQYRCT, you can modify and use DB2ENTRY AND DB2TRAN entries in the JCL member IQDB2CSD in II.TCVLCNTL.
CICS startup JCL			Sample in II.TCVLCNTL(CICSJCL).

<b>VISION:Inquiry Installation Worksheet</b>	
CICS System Definition (CSD) utility JCL	Samples in II.TCVLCNTL (INQCSDUP and IQDB2CSD).
BMS mapset generation	MAPASM
DBD generation	DBDGEN
PSB generation	PSBGEN
ACB generation	ACBGEN
DL/I batch procedure	DLIBATCH

DBD, PSB, and ACB are required only if DL/I system or user databases are used.

### Notes on the Library Requirements

- New Generated Target and Distribution Libraries/The high-level qualifier for the target and distribution libraries can be changed.
- New Generated Target Libraries/CLIST, Panel, Skeleton, and Message library items are for Post-Installation only.

For the VISION:Journey option of VISION:Inquiry, the following additional preparation is required:

<b>VISION:Journey Installation Worksheet</b>			
<b>CICS Requirements</b>			
	TRANSACTION 1	TRANSACTION 2	SUPPLIED AS
Transaction IDs <ul style="list-style-type: none"> <li>■ The transaction ID FTS1 always ends with the numeric character 1.</li> <li>■ The transaction ID DYDL is standard and cannot be modified in the installation.</li> </ul>			FTS1 DYDL

VISION:Journey Installation Worksheet			
Program names CICS online.			DYLC0SS DYLC010 DYLC020 DYLC030
BMS mapset name			IDFTSP7M

VISION:Journey VSAM Download Data Set Requirements			
	TRANSACTION 1	TRANSACTION 2	SUPPLIED AS
Download file: ddname data set name			VSFTSDS VS.VSFTSDS

For VISION:Journey, you can find PC requirements and installation in the *VISION:Journey for Windows System Administrator's Guide*.

## Installation Check List

A check list is provided to help you plan the installation of VISION:Inquiry.

Sections of the check list designated as pre-installation contain steps that can be performed before the actual installation steps. This may be necessary for the CICS generation portion of the installation, if CICS generations must be scheduled at your installation. If special scheduling is unnecessary, these steps can be performed when the installation steps are completed.

If you are viewing this documentation on-screen, you need to print this chapter to use the Installation Check List.

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**VISION:Inquiry Installation Checklist (Page 1 of 11)**

<b>ACTIVITY</b>	<b>SECTION</b>	<b>✓</b>
<b>Preparation (Pre-Installation)</b>		
1. Read the:		<input type="checkbox"/>
■ <i>Advantage VISION:Inquiry for CICS Technical Reference Guide</i> (previously called VISION:Inquiry Technical Reference Manual)		<input type="checkbox"/>
■ <i>Advantage VISION:Inquiry Reference Guide</i> (previously called VISION:Inquiry User's Guide), and		<input type="checkbox"/>
■ <i>Advantage VISION:Inquiry for CICS Release Summary</i> (previously called VISION:Inquiry Customer Bulletin) to become familiar with VISION:Inquiry and how to use it.		<input type="checkbox"/>
2. Complete the installation worksheets.	<a href="#">Installation Worksheets on page 2-1</a>	<input type="checkbox"/>
<b>CICS System Generation Specification (Pre-Installation)</b>	<a href="#">CICS Generation Specifications on page 2-21</a>	<input type="checkbox"/>
3. Verify that the BMS paging and routing support facilities of CICS are available. AQF and Text Editor facility also need the temporary storage facility of CICS.	<a href="#">CICS Generation Specifications on page 2-21</a>	<input type="checkbox"/>
4. Verify that the Language Environment (LE) support and the LE libraries are available in the CICS region.		<input type="checkbox"/>

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## VISION:Inquiry Installation Checklist (Page 2 of 11)

ACTIVITY	SECTION	✓
5. Add program and transaction entries for native VISION:Inquiry to CSD file:		<input type="checkbox"/>
■ Front-end program (INQIO)		
■ Main and sort programs (IXXSTRT and IXCSORT)		
■ BMS mapsets (INQMAP1M and INQMAP2M)		
■ Transaction (IQIO)		
6. Add program and transaction entries for AQF to CSD file:		<input type="checkbox"/>
■ Program (IDBI01)		
■ BMS mapsets (IDBEM01M through IDBEM07M, IDBEH01M through IDBEH07M, IDBEM10M, IDBEM13M, IDBEH10M, IDBEH13M, and IDBERRSM)		
■ Transaction (IQBE)		
7. Add program and transaction entries for Text Editor to CSD file:		<input type="checkbox"/>
■ Program (INQEDIT)		
■ BMS mapsets (IQEMAPMM and IQEMAPHM)		
■ Transaction (IQED)		
8. Add program entries to CSD file for the following load modules needed for processing:		<input type="checkbox"/>
■ CVLCPARM (for native mode)		
■ CUYSHMG (for native mode)		
■ CVLCAJPR (for AQF)		
■ CVLCAMOD (for AQF)		
■ CUYXEMSG (for Text Editor)		
■ DIOSQLC (for DB2 option)		

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### VISION:Inquiry Installation Checklist (Page 3 of 11)

ACTIVITY	SECTION	✓
9. Verify that TCP/IP support and libraries are available in the CICS region. Add program entry, INQINTRA, for Advantage Intraccess. Intraccess also requires the temporary storage facility of CICS.		<input type="checkbox"/>
10. Add program and transaction entries for VISION:Journey: <ul style="list-style-type: none"><li>■ Programs (DYLC0SS, DYLC010,DYLC020, and DYLC030)</li><li>■ BMS mapset (IDFTSP7M)</li><li>■ Transactions (FTS1 and DYDL)</li></ul>		<input type="checkbox"/>
11. Add CICS file entries to CSD for: <ul style="list-style-type: none"><li>■ The system database (if it is VSAM RRDS file)</li><li>■ VSAM sort work data set (if used)</li><li>■ Any VSAM user files (including the VSAM test files if they are to be installed).</li></ul>		<input type="checkbox"/>
12. If you are accessing DL/I databases, generate the necessary APPLCTN and DATABASE macros in the DBCTL region. Add the necessary dd statements to the DBCTL region.		<input type="checkbox"/>
13. Add DB2 entries to CSD for native VISION:Inquiry if accessing DB2 user and/or system databases. Add DB2 entries to CSD for AQF if accessing the DB2 system database.		<input type="checkbox"/>
14. Add a CICS file entry to CSD for the VISION:Journey download data set.		<input type="checkbox"/>
15. Define transient data set IDs for Language Environment support, and for the EXTRACT command.		<input type="checkbox"/>
16. Add all JCL DD statements to the CICS startup for defined databases and files. See the sample in IL.TCVLCNTL (CICSJCL).		<input type="checkbox"/>

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## VISION:Inquiry Installation Checklist (Page 4 of 11)

ACTIVITY	SECTION	✓
<b>DB2 Attachment Facility Specifications (Pre-Installation)</b>	<a href="#">DB2 Attach Facility Specifications on page 2-26</a>	
17. Ensure that the connection between DB2 and CICS is available and accesses the appropriate plan for your VISION:Inquiry transaction.		<input type="checkbox"/>
18. Bind a new plan for VISION:Inquiry. If you do not have BINDADD authority, have an authorized user create the plan for you ahead of time by binding a dummy plan using the name you select, then grant BIND and EXECUTE WITH GRANT OPTION authorities over the plan.		<input type="checkbox"/>
19. When you define the VISION:Inquiry CICS transaction to DB2, assign the authorization ID by transaction instead of by user ID to avoid having a production version and a test version of the VISION:Inquiry programs.  The different authorization IDs will automatically point to different system databases (do not specify the authorization ID to VISION:Inquiry). This approach allows you to point to different VISION:Inquiry system databases.		<input type="checkbox"/>
<b>Loading the Installation Tape Files</b>		
20. Make sure the Computer Associates Licensing System is available on your System.	<a href="#">Licensing Requirements on page 2-27</a>	<input type="checkbox"/>
<b>Installation Steps</b>		
21. Copy the first file on tape to disk.	<a href="#">Step 1 – Copy System Tape File 1 to a Sequential Data Set on page 2-32</a>	<input type="checkbox"/>

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**VISION:Inquiry Installation Checklist (Page 5 of 11)**

<b>ACTIVITY</b>	<b>SECTION</b>	<b>✓</b>
22. Copy files 2 thru 6 on tape to disk.	<a href="#">Step 2 – Copy System Tape File 2 through 6 to Disk Data Sets on page 2-33</a>	<input type="checkbox"/>
23. Complete the IP Dialog.	<a href="#">Step 3 - Complete the IP Dialog on page 2-39</a>	<input type="checkbox"/>
24. Allocate data sets.	<a href="#">Step 4 – Allocate Data Sets on page 2-69</a>	<input type="checkbox"/>
25. Define CSI and SMP/E zones.	<a href="#">Step 5 – Define the Global, Distribution, and Target Zones in the SMP/E CSI on page 2-70</a>	<input type="checkbox"/>
26. Receive and Apply VISION:Inquiry base into the Global and Target Zones/data sets.	<a href="#">Step 6 – RECEIVE the MCS and SYSMODS into the Global Zone on page 2-70 and Step 7 – APPLY the VISION:Inquiry Elements (SYSMODS) to the Target Libraries on page 2-70</a>	<input type="checkbox"/>
27. Add the DB2 library definition to the Target and Distribution Zones. This step is only required if you are installing the DB2 option alone.	<a href="#">Step 8 – ADD DB2 Library Definition to the Target and Distribution Zones on page 2-70</a>	<input type="checkbox"/>
28. Receive and Apply the VISION:Inquiry DB2 option into the Global and Target Zones/data sets.	<a href="#">Step 9 – RECEIVE the MCS and SYSMODS for the DB2 option to the Global Zone on page 2-71 and Step 10 – APPLY the Elements (SYSMODS) of the DB2 Option to the Target Libraries on page 2-71</a>	<input type="checkbox"/>

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### VISION:Inquiry Installation Checklist (Page 6 of 11)

ACTIVITY	SECTION	✓
29. Receive and Apply a USERMOD for the system data base parameters, DB2 options, and VISION:Journey into the Global and Target Zones/data sets.	<a href="#">Step 11 – RECEIVE a USERMOD for the DB2 option, system database information, and/or the Journey feature to the Global Zone on page 2-71 and Step 12 – APPLY the USERMOD for the DB2 option, system database information, and/or the Journey feature to the Target Libraries on page 2-72</a>	<input type="checkbox"/>
30. Receive and Apply a USERMOD for the VISION:Journey feature into the Global and Target Zones/data sets.	<a href="#">Step 13 – RECEIVE a USERMOD for the Journey feature to the Global Zone on page 2-73 and Step 14 – APPLY the USERMOD for the Journey feature to the Target Libraries on page 2-74</a>	<input type="checkbox"/>
31. Receive and Apply the latest PTFs into the Global and Target Zones/data sets.	<a href="#">Step 15 – RECEIVE and APPLY the Latest PTF SYSMODS into the Global Zone and Target Libraries on page 2-74</a>	<input type="checkbox"/>
32. Copy the required entries to the CICS online program library or add the VISION:Inquiry target program library to the online JCL in the program library concatenation.		<input type="checkbox"/>

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VISION:Inquiry Installation Checklist (Page 7 of 11)

ACTIVITY	SECTION	✓
<b>Post-Installation Steps</b>		
<b>Generating IMS Control Blocks</b>	<a href="#">Generating IMS Control Blocks on page 2-78</a>	
33. Edit (as required) member II.TCVLSRC(CIPSB). If using a DL/I system database, edit (as required) members IXXDB, IIPSB01, IIPSB02, and CIPSBQF in the II.TCVLSRC.  If installing the DL/I test databases, also edit (as required) members IIDBDDM, IIDBDDS, and IIPSB03 in the II.TCVLSRC.		<input type="checkbox"/>
34. Edit (as required) the JCL member IIPSBDBD in II.TCVLCNTL and perform the necessary DBDGENS, PSBGENS, and ACBGEN.		<input type="checkbox"/>
<b>Binding the DB2 Plan</b>	<a href="#">Binding the DB2 Plan on page 2-85</a>	
35. Edit (as required) the JCL member DB2BIND in II.TCVLCNTL. Add the necessary JCL and execute it.		<input type="checkbox"/>
36. Use the TSO command <code>EXEC 'control-library (DB2BIND)'</code> to bind the DB2 plan to be used by VISION:Inquiry.		<input type="checkbox"/>
37. Using SPUFI, execute the SQL statement: <code>GRANT EXECUTE ON PLAN plan-name TO PUBLIC</code> to make the plan available to all VISION:Inquiry users.		<input type="checkbox"/>

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## VISION:Inquiry Installation Checklist (Page 8 of 11)

ACTIVITY	SECTION	✓
<b>Defining BMS Mapsets</b>	<a href="#">Defining BMS Mapsets on page 2-85</a>	
38. Edit (as required) the II.TCVLSRC members INQMAP1 and INQMAP2 (default).  Edit (as required) the AQF mapsets IDBERRS, IDBEHnn, and IDBEMnn (nn is a 2-digit number) in II.TCVLSRC.  Edit (as required) the Text Editor mapsets IQEMAPM and IQEMAPH in II.TCVLSRC.		<input type="checkbox"/>
39. Edit (as required) the VISION:Journey member IDFTSP7 in II.TCVLSRC.		<input type="checkbox"/>
40. Edit (as required) the JCL member MAPASM in II.TCVLCNTL and execute it to perform the necessary BMS mapgens.		<input type="checkbox"/>
<b>Installing the Test Databases</b>		
41. If the IMS (DL/I) test databases are to be installed, edit (as required) and submit member IMSDEMO in II.TCVLCNTL.	<a href="#">Installing the Test Data on page 2-87</a>	<input type="checkbox"/>
42. If the DB2 test tables and views are to be installed, edit (as required) and submit as input to SPUFI member DB2DEMO in II.TCVLCNTL followed by the member II.TCVLCNTL(DB2INDEX).	<a href="#">Installing the Test Data on page 2-87</a>	<input type="checkbox"/>
43. If the VSAM test data sets are to be installed, edit (as required) and submit control library members VSAMDEMO and VSMHDEMO in II.TCVLCNTL.	<a href="#">Installing the Test Data on page 2-87</a>	<input type="checkbox"/>
44. Install the system database.	<a href="#">Defining and Initializing the System Database on page 2-92</a>	<input type="checkbox"/>
45. Install the VSAM sort work data set (if used). Edit (as required) the member II.TCVLCNTL(VSMSRTIN), add the necessary JCL, and execute it.		<input type="checkbox"/>

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## VISION:Inquiry Installation Checklist (Page 9 of 11)

ACTIVITY	SECTION	✓
46. Allocate and initialize the VISION:Journey download data set.	<a href="#">Defining and Initializing the VISION:Journey VSAM Download Data Set on page 2-98</a>	<input type="checkbox"/>
47. Define the test data (databases, tables/views, and data sets) to the system database.	<a href="#">Defining a Test Application on page 2-98</a>	<input type="checkbox"/>
48. Edit (as required) the member II.TCVLSRC(CVLCPPARM). Assemble and link the member.		<input type="checkbox"/>
49. For AQF, edit (as required) the members CVLCAMOD and CVLCAJPR in II.TCVLSRC. Assemble and link the members.		<input type="checkbox"/>
<b>Installing the Intraccess or VISION:Journey Option</b>		
50. Install the Intraccess option using the Intraccess documentation.		<input type="checkbox"/>
51. Install the VISION:Journey PC Component  See the VISION:Journey PC installation requirements and procedure in the <i>VISION:Journey for Windows System Administrator's Guide</i> .	<a href="#">Installing the PC Component of VISION:Journey on page 2-106</a>	<input type="checkbox"/>
52. Ensure that your installation meets the requirements.		<input type="checkbox"/>
<b>Verifying the Installation</b>		
	<a href="#">Step 17 - Verifying the Installation on page 2-106</a>	
53. Check that all components have been installed properly.		<input type="checkbox"/>

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## VISION:Inquiry Installation Checklist (Page 10 of 11)

ACTIVITY	SECTION	✓
54. Check that there is at least one valid TERM definition for an online terminal.  If you are going to use the new commands to route output to VISION:Journey or Intraccess (such as your PC), verify that there is at least one dummy terminal called PC and it is defined with PCOUT=YES.		<input type="checkbox"/>
55. Invoke the native VISION:Inquiry transaction:  Invoke the front-end program using its transaction ID for online test (supplied as IQIO).  Enter a valid VISION:Inquiry transaction ID (supplied as IQIO) in the TRANSACTION field.		<input type="checkbox"/>
56. Enter DISPLAY SYSTEM;		<input type="checkbox"/>
57. Enter DISPLAY statements for the test databases/files you have installed. For example:  DISPLAY PLANT PLANT.NAME PLANT.PHONE; DISPLAY PL2PROD DESC AMT; DISPLAY VSPLANT VSEMP.NAME VSEMP.SEX; DISPLAY VSHPLANT VSHPLANT.ID VSHEMP.NO;		<input type="checkbox"/>
58. To test AQF, enter the AQF transaction ID (supplied as IQBE). Build and execute a few sample queries from the <i>Advantage VISION:Inquiry for IMS and CICS Automatic Query Facility (AQF) User Guide</i> .		<input type="checkbox"/>
59. To test the batch version, try a few sample queries using the JCL in II.TCVLCNTL library with the names IQBATV and IQBATD for VSAM and DL/I users respectively.		<input type="checkbox"/>
60. To verify installation and test the Intraccess option, see the Intraccess documentation.		<input type="checkbox"/>

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### VISION:Inquiry Installation Checklist (Page 11 of 11)

ACTIVITY	SECTION	✓
61. Check that all VISION:Journey components have been installed properly.		<input type="checkbox"/>
62. To test VISION:Journey, use the <i>VISION:Journey for Windows User's Guide</i> to download data to a PC file and verify the result.		<input type="checkbox"/>
63. Accept the VISION:Inquiry base, DB2 option, USERMODs, and latest PTFs into the Distribution libraries.	<a href="#">Step 18 – ACCEPT the VISION:Inquiry Base Elements (SYSMODS) to the Distribution Libraries on page 2-112 through Step 22 – ACCEPT the latest PTF SYSMODS into the Distribution Libraries on page 2-114</a>	<input type="checkbox"/>
64. Review the Customizations and Setups section and perform any steps that you require.	<a href="#">Customizations and Setups on page 2-114</a>	<input type="checkbox"/>

## CICS Generation Specifications

VISION:Inquiry executes under CICS as an ordinary transaction using the following facilities:

- The BMS paging facility is used to output the results of an inquiry
- The BMS routing facility is used to implement the OUTPUT command
- The transient data facility is used for the EXTRACT command
- The temporary storage facility is used for the Automatic Query Facility (AQF), the Text Editor facility, and the Intraccess option.
- The auxiliary temporary storage facility can be used for the online SORT command depending on the option selected at link edit time
- The system spooling interface is required for the AQF batch job submission facility.

---

Verify that Language Environment (LE) support for running PL/I application programs is included in your CICS tables. The Language Environment (LE) Version 2 Release 8 run-time library or later, must be available in the DFHRPL concatenation in the CICS startup JCL.

For the Intraccess option, verify that the TCP/IP support and libraries are included in the CICS region. See Chapter 6 of the *Advantage VISION:Inquiry for CICS Technical Reference Guide* for further details.

The default load module and BMS mapset names for VISION:Inquiry are:

- A front-end program INQIO (for which source is supplied) that reads the transaction input, builds the inquiry in an I/O area, and passes it to the inquiry processing program
- A front-end program INQUINTRA for the Intraccess option that sets up the TCP/IP environment and handles the I/O operation through TCP/IP
- The main processing program (IXXSTRT)
- The sort processing program (IXCSORT)
- The native VISION:Inquiry BMS map (INQMAP2M)
- The Text Editor processing program (INQEDIT)
- The Text Editor BMS mapsets (IQEMAPMM and IQEMAPHM)
- The Automatic Query Facility (AQF) program IDBI01
- The Automatic Query Facility (AQF) BMS maps (IDBEH01M through IDBEH07M, IDBEH10M, IDBEH13M, IDBEM01M through IDBEM07M, IDBEM10M, IDBEM13M, and IDBERRSM)

In addition to the above load modules there are some parameter and messages load modules that are loaded and used during the process of queries. The names of these load modules are standard and can not be changed. These modules are:

- The online processing parameters module, CVLCPARM, used for online native mode processing.
- The hard coded messages module, CUYSHMG, used for online native mode processing.
- The AQF job submission parameter module, CVLCAJPR.
- The AQF BMS mapset names module, CVLCAMOD.
- The Text Editor messages module, CUYXEMSG.
- The DB2 option module, DIOSQLC.

The VISION:Inquiry resources can be defined to CICS before, during, or after the SMP/E installation of the product. The sample VISION:Inquiry resource entries are included in the following members of the installation tape.

---

## II.TCVLMAC library

- INQYDCT  
Entries for the EXTRACT data set, TCP/IP, and LE messages
- INQYRCT  
RCT entries for using the DB2 option of VISION:Inquiry
- INQDBCTL  
Macros for accessing DL/I system and user databases through DBCTL facility

## II.TCVLCNTL library

- INQCSDUP  
RDO commands to define VISION:Inquiry resources to the CICS System Definition (CSD) file using DFHCSDUP utility
- IQDB2CSD  
RDO commands to define VISION:Inquiry resources in the CICS CSD file to access DB2 tables
- CICSJCL  
DD statements to be included in the CICS startup JCL

Note that some of the above members do similar functions using different techniques. IQDB2CSD (recommended to use) defines the same entries to CICS as INQYRCT. Additional parameters could be required in the above members to conform your installation standards.

## Transaction IDs

In order to define VISION:Inquiry to CICS, entries are required for the transactions, processing programs, and BMS mapsets in the CICS System Definition (CSD) file. The default transaction IDs for VISION:Inquiry are:

- IQIO transaction ID for native VISION:Inquiry
- IQED transaction ID for Text Editor facility
- IQBE transaction ID for AQF system

- 
- FTS1 and DYDL transaction IDs for VISION:Journey

Additionally, the host computer part of VISION:Journey for Windows consists of two online transactions and four programs whose entries are added to the CICS System Definition (CSD) file. A program entry is also required for the BMS map used by VISION:Journey for Windows. The VISION:Journey for Windows transaction IDs supplied are FTS1 and DYDL:

- Transaction ID FTS1 can be changed by the user, but must end with the numeric character 1. The program associated with this transaction is DYLC0SS.
- Transaction ID DYDL cannot be changed by the user and must be defined as it is. The program associated with this transaction is DYLC010.

Programs DYLC020 and DYLC030 are subprograms of DYLC010 and are loaded using the CICS LOAD command.

- For front-end programs  
Different transaction identifications can be defined in the CICS System Definition (CSD) file for the front-end program. All transactions specifying the same program name will access the same system database, but the transaction ID determines the application definition within the system database to be used. See Chapter 4 of the *Advantage VISION:Inquiry for CICS Technical Reference Guide* for details about the use of the system database to name and control access to user data.  
For the AQF batch job submission facility, specify SPOOL=YES in the System Initialization Table (SIT).
- For Language Environment (LE), a transient data set with the standard destination ID of CESE needs to be defined and created.
- If the EXTRACT facility of VISION:Inquiry is to be used from CICS, an extra-partition transient data set with the destination ID DYL1 are defined and created.  
Chapter 6 of the *Advantage VISION:Inquiry for CICS Technical Reference Guide* has more detailed information about the EXTRACT command and its related characteristics.

## DL/I Databases

The DL/I databases can be accessed by VISION:Inquiry through DBCTL facility of IMS.

- The DL/I control blocks (DBD and PSB) must be generated.

- 
- The name of the PSB for native VISION:Inquiry must be the same name as the front-end program.
  - The PSB is required for AQF if the system database type is DL/I and its name must be the same name as the main AQF program (default is IDBI01).

You can have more than one system database in your installation; the PSB scheduled for a transaction determines the system database as the first DBD in the PSB with a DBD name beginning IXXDB, if any; otherwise the last DBD in the PSB. AQF facility and utilities assume that the system database is the only database PCB defined.

The databases and processing programs must be defined to DBCTL through DATABASE and APPLCTN macros.

## VSAM Files

The default VSAM file ddnames for VISION:Inquiry are:

- IXXDB for system database
- SORTWORK for sort work data set (if used)
- VSFTSDS for VISION:Journey download data set

The default names can be changed at the installation time if necessary.

Generally, the STRINGS attribute of RDO match the maximum number of VISION:Inquiry tasks to be allowed to run simultaneously in CICS. More than this number are not needed, but can be provided.

---

## DB2 Attach Facility Specifications

When running under CICS, VISION:Inquiry uses the CICS Attach Facility to access DB2 data. Before attempting to use VISION:Inquiry to access DB2 data under CICS, be certain that this facility has been installed and the connection to CICS activated. In the batch version, VISION:Inquiry uses the IMS Attach Facility of DB2 to access DB2 data when running under DLIBATCH. VISION:Inquiry uses the Call Attach Facility of DB2 in the ordinary batch environment (that is, a non-DL/I environment).

### Specify CICS DB2ENTRY Definitions

The DB2 plan name to be used must be specified for each VISION:Inquiry CICS transaction in the CICS DB2ENTRY definition to CSD file. (If PLNEXITName(DSNCUEXT) is specified, the DBRM name passed to the exit program will be INQDBRM.) Care must also be taken that the DB2 authorization ID determined from the DB2ENTRY definition has access to the appropriate resources.

The member IQDB2CSD in IL.TCVLCNTL contains the sample DB2ENTRY definitions for VISION:Inquiry system accessing DB2 tables. The parameters of the sample DBE2NTRY definitions can be changed or added by your system administrator to conform to your installation standards.

You can find documentation for the specifications necessary to use the CICS Attach Facility for DB2 in the IBM Database 2 Administration Guide.

### Bind a Plan for VISION:Inquiry

After SMP/E installation of the product, you will eventually need to bind a DB2 plan for use by VISION:Inquiry. If you do not have DB2 BINDADD authority, you could have an authorized user create the plan for you ahead of time by binding a dummy plan (using any available DBRM) under the plan name you use and executing the SQL statements:

```
GRANT BIND ON PLAN plan-name TO your-authid;  
GRANT EXECUTE ON PLAN plan-name TO your-authid WITH GRANT OPTION;
```

under SPUFI, or in the batch mode using the DSNTIAD module.

---

## Licensing Requirements

VISION:Inquiry interfaces with the Computer Associates Licensing System using the CA TNG Framework for OS/390 Common Services CAIRIM and its CA-LMP facility, which is used to track licensed software.

For more information regarding the CA TNG Framework for OS/390 Common Service CAIRIM and its CA-LMP facility, refer to the *Unicenter TNG Framework for OS/390 Reference Guide* and the *Unicenter TNG Framework for OS/390 Installation and Maintenance Guide*.

CA-LMP (License Management Program) is a standardized and automated approach for tracking licensed software. CA-LMP is provided as an integral part of CAIRIM, and is required for VISION:Inquiry to execute properly.

If CAIRIM has not already been installed on your system, you must install it before you install and use VISION:Inquiry. See the Unicenter TNG Framework for OS/390 documentation for information about installing CAIRIM.

**Note:** Once CAIRIM has been installed or maintained at GenLevel 9212 or above, CA-LMP support will be available for all Computer Associates products that support CA-LMP.

Before the Installation of VISION:Inquiry, you should get your Computer Associates Licensing Key information coded and integrated into the CAIRIM CA-LMP facility. An LMP Product key certificate that contains your execution key for each CPU licensed at your site is delivered with the VISION:Inquiry system tape.

CA-LMP is a standard function for all Computer Associates software products. You must add a record with your VISION:Inquiry CA-LMP Execution Key information, as provided on the key certificate, to the KEYS member in the CAIRIM parameter data set, at the OPTLIB DD statement; this ensures that VISION:Inquiry executes properly.

---

The parameter structure for member KEYS is:

PROD(pp) DATE(ddmmyy) CPU(tttt-mmmm/ssssss) LMPCODE(kkkkkkkkkkkkkk)

pp	The two-character product code for VISION:Inquiry and its DB2 optional feature; required.
TI	CA-VISION:Inquiry for CICS Engine and its Components.
K8	CA-VISION:Inquiry DB2 Option.
ddmmyy	The CA-LMP licensing agreement expiration date (for example, 15JAN02).
tttt-mmmm	The CPU type and model (for example, 3090-0600) on which the product is to run; required. If the CPU type and/or model are less than four characters, insert blank spaces for the unused characters.
ssssss	The serial number of the CPU on which the product is to run; required.
kkkkkkkkkkkkkk	The execution key needed to run the product; required. The CA-LMP execution key can be found on the key certificate that was shipped with the product.

Here is an example of the parameter entry for the CA-LMP:

PROD(TI) DATE(31JAN03) CPU(3090-0600/315109) MPCODE(5149K01131R08ES)

For more information about defining the CA-LMP execution keys using the CAIRIM parameters, refer to the *Unicenter TNG Framework for OS/390 Installation and Maintenance Guide*.

## Installation Steps

This section describes the step-by-step installation process. VISION:Inquiry is delivered on a Tape Cartridge. An LMP Product key certificate contains your execution key for each CPU licensed at your site.

For future reference, save all the output generated during the installation along with the system tape.

The basic SMP/E setup and installation process is identical for all users. The first file on the system tape contains the JCL for a job to transfer the next five tape files to disk data sets. These are the files that are used for preparing and generating the required JCL to complete the installation, customizing, and maintenance processes. It uses a simple interactive ISPF dialog invoked by a REXX Exec to tailor the JCLs.

## System Tape

The VISION:Inquiry system tape supplied for the OS/390 operating system in the CICS environment is a standard labeled tape cartridge containing 22 files. The following table shows the order and content of the files on the tape.

File	File name	Description
1	INQY.PREP.JCL	A JCL for a job that transfers the next five files on the tape to disk data sets.
2-6		The data sets needed to run the Installation Preparation Dialog under ISPF.
2	II.PREP.CNTL	Contains the JCL, Usermods, PTFs (Program Temporary Fixes), and APARs (Authorized Program Analysis Reports) used during the installation, customization, and maintenance processes. This PDS will be populated with the JCL and Control statements generated as described in <a href="#">Installation Preparation Dialog on page 2-35</a> through <a href="#">Step 3 - Complete the IP Dialog on page 2-39</a> .
3	II.PREP.CLIST	Contains the REXX Execs used under ISPF to run the dialog.
4	II.PREP.MLIB	Contains the Dialog Messages.
5	II.PREP.PLIB	Contains the Dialog Panels and Helps.

<b>File</b>	<b>File name</b>	<b>Description</b>
6	II.PREP.SLIB	Contains the JCL and Control statement models that needs "tailoring." These will be "File Tailored" by the Dialog into the II.PREP.CNTL data sets.
7	CCVL650.SMPMCS	A sequential data set that contains the SMP/E Modification Control Statements (MCS) to install the base VISION:Inquiry product and its features as well as the DB2 option of the product.
8-17	CCVL650.F1 Thru F10	VISION:Inquiry relative files used for SMP/E installation.
8	CCVL650.F1	The SMP/E JCLLIB statements used for VISION:Inquiry installation.
9	CCVL650.F2	Contains the VISION:Inquiry Macro library members.
10	CCVL650.F3	Contains the VISION:Inquiry Source library members.
11	CCVL650.F4	Contains the VISION:Inquiry Object library members in link-edited format.
12	CCVL650.F5	Contains the VISION:Inquiry Control library members.
13	CCVL650.F6	Contains the VISION:Inquiry Program library members.
14	CCVL650.F7	Contains the VISION:Inquiry Panel library members for post-installation processes.
15	CCVL650.F8	Contains the VISION:Inquiry Skeleton library members for post-installation processes.
16	CCVL650.F9	Contains the VISION:Inquiry Message library members for post-installation processes.
17	CCVL650.F10	Contains the VISION:Inquiry Clist library members for post-installation processes.
18-22	CDIP650.F1 Thru F5	Relative files for the DB2 option of VISION:Inquiry used for SMP/E installation.

<b>File</b>	<b>File name</b>	<b>Description</b>
18	CDIP650.F1	The SMP/E JCLLIB statements used for installation of the DB2 option.
19	CDIP650.F2	Contains the Source library members for the DB2 option.
20	CDIP650.F3	Contains the Object library members in link-edited format for the DB2 option.
21	CDIP650.F4	Contains the Control library members for the DB2 option.
22	CDIP650.F5	Contains the Load library members for the DB2 option.

## System Tape Unload

In this portion of the VISION:Inquiry installation, you copy the elements and components that you need for installation of the product from the system tape to disk data sets. The following two steps are performed to create a group of disk data sets that contain the installation preparation portion of the VISION:Inquiry software system:

- Step 1 - Copy System Tape File 1 to a Sequential Data Set
- [Step 2 – Copy System Tape File 2 through 6 to Disk Data Sets on page 2-33](#)

## Step 1 – Copy System Tape File 1 to a Sequential Data Set

File 1 on the system tape is a sequential file containing the JCL to transfer the next five files on the tape to disk data sets. These files are used for the SMP/E installation preparation and required JCL generation. Use the IBM utility IEBGENER to copy the first file from tape to disk, as shown in [Figure 2-1 on page 2-32](#). Customize the bold italic text with the appropriate values for your installation and run the job.

The output is the JCL that is used in Step 2 as shown in [Figure 2-2 on page 2-34](#).

You may also need to replace (in the JCL shown in [Figure 2-1 on page 2-32](#)):

```
LABEL=n
```

with

```
LABEL=(n,SL,EXPDT=98000)
```

for compatibility with some tape management systems at your installation.

You can find the tape volume serial number (tape-volser) on the external label of the VISION:Inquiry tape.

```
//COPY      EXEC PGM=IEBGENER,REGION=1M
//SYSUT1    DD DISP=OLD,DSN=INQY.PREP.JCL,
//          LABEL=1,
//          UNIT=CART,VOL=SER=TAPE-VOLSER
//SYSUT2    DD DISP=(NEW,CATLG),UNIT=SYSDA,
//          SPACE=(TRK,(1,1)),DSN=YOUR.INSTALL.JCL
//SYSPRINT  DD SYSOUT=*
//SYSIN     DD DUMMY
```

Figure 2-1 IEBGENER Utility

## Step 2 – Copy System Tape File 2 through 6 to Disk Data Sets

In Step 2, you transfer the VISION:Inquiry installation preparation files from tape to disk data sets. The disk data sets created in Step 2, along with tape files 7 through 22 are used for the installation of VISION:Inquiry base product and its optional features.

Customize the bold italic JCL in [Figure 2-2](#) with appropriate values for your installation and run the job. Note that you can only modify the High Level Qualifier (II) of the disk data set names in [Figure 2-2](#). The SPACE parameter in [Figure 2-2](#) shows the number of blocks for the data sets on 3390 direct access storage device.

Upon execution of the job shown in [Figure 2-2](#), the tape files 2 through 6 are copied into the disk data sets created in this job.

You may also need to replace (in the JCL shown in [Figure 2-2](#)):

```
LABEL=n
```

with

```
LABEL=(n,SL,EXPDT=98000)
```

for compatibility with some tape management systems at your installation.

You can find the tape volume serial number (tape-volser) on the external label of the VISION:Inquiry tape.

```

//COPY1    JOB (ACCT-INFO),'YOUR-NAME',CLASS=1,
//          MSGCLASS=A,NOTIFY=YOUR-ID,USER=YOUR-ID
//ROUTE PRINT LOCAL
//*
//*
//* *=====
//* *==== JCL TO COPY FILES 2-6 FROM THE VISION:Inquiry *====
//* *==== INSTALLATION TAPE TO THE IN-STREAM ALLOCATED *====
//* *==== DISK FILES. THESE FILES ARE THE PREPARATION *====
//* *==== DIALOGS USED FOR THE INSTALLATION OF THE PRODUCT. *====
//* *=====
//*
//*
//COPY      EXEC PGM=IEBCOPY,REGION=1M
//SYSPRINT DD SYSOUT=*
//SYSUT3   DD UNIT=SYSDA,SPACE=(TRK,10)
//SYSUT4   DD UNIT=SYSDA,SPACE=(TRK,10)
//TAPE1    DD DISP=OLD,DSN=II.PREP.CNTL,
//          LABEL=2,
//          UNIT=CART,VOL=SER=TAPE-VOLSER
//TAPE2    DD DISP=OLD,DSN=II.PREP.CLIST,
//          LABEL=3,VOL=REF=* .TAPE1
//TAPE3    DD DISP=OLD,DSN=II.PREP.MLIB,
//          LABEL=4,VOL=REF=* .TAPE1
//TAPE4    DD DISP=OLD,DSN=II.PREP.PLIB,
//          LABEL=5,VOL=REF=* .TAPE1
//TAPE5    DD DISP=OLD,DSN=II.PREP.SLIB,
//          LABEL=6,VOL=REF=* .TAPE1
//*
//DASD1    DD DISP=(NEW,CATLG),UNIT=SYSDA,
//          SPACE=(3120,(70,10,6)),
//          DSN=II.PREP.CNTL
//DASD2    DD DISP=(NEW,CATLG),UNIT=SYSDA,
//          SPACE=(3120,(60,2,3)),
//          DSN=II.PREP.CLIST
//DASD3    DD DISP=(NEW,CATLG),UNIT=SYSDA,
//          SPACE=(3120,(10,2,2)),
//          DSN=II.PREP.MLIB
//DASD4    DD DISP=(NEW,CATLG),UNIT=SYSDA,
//          SPACE=(3120,(60,2,5)),
//          DSN=II.PREP.PLIB
//DASD5    DD DISP=(NEW,CATLG),UNIT=SYSDA,
//          SPACE=(3120,(75,2,5)),
//          DSN=II.PREP.SLIB
//*
//SYSIN    DD *
COPY O=DASD1,I=TAPE1
COPY O=DASD2,I=TAPE2
COPY O=DASD3,I=TAPE3
COPY O=DASD4,I=TAPE4
COPY O=DASD5,I=TAPE5
/*

```

Figure 2-2 IEBCOPY Utility

## Installation Preparation Dialog

In order to generate and build all the JCL and Control Statements needed during the installation, customization, and maintenance of processes of VISION:Inquiry, an Interactive ISPF Installation Preparation dialog (sometimes referred to as IP Dialog in this guide) is provided as part of VISION:Inquiry. The ISPF Dialog is controlled by a REXX exec that is started from TSO/ISPF Option 6. The data sets containing the REXX Exec and ISPF Dialog elements are the data sets copied in the previous section. The displays within the dialog prompt you for the various values needed to generate and tailor all the JCL and Control statements required for the installation of the product and referenced in this guide. There are no special requirements for your ISPF system in order to run the dialog. Your TSO Logon Region Size should be at least 4096.

All values entered during the Dialog Sessions are saved in your Profile Variables and returned to the displays on subsequent Dialog invocations. The Dialog can be terminated and restarted at any time. The generated JCLs and Control Statements are placed into a PDS data set (II.PREP.CNTL) for subsequent use during the Installation, Customizing and Maintenance procedure detailed in this guide. The IP Dialog contains a HELP facility and detailed descriptions of each panel and field value presented during your session. The same information is provided here for easy reference.

### Tips and Hints about Using the Installation Preparation Dialog

- Initially, during the first invocation of the IP Dialog, all the values that are displayed are the default values.
- Once the values are accepted or changed, those values that are entered become the values displayed in subsequent invocations of the IP Dialog.
- The IP Dialog can be started and stopped at any time. All entered and saved information is available in the next session. The information is saved in your profile variables.
- You can erase all the profile variables created by the IP Dialog from your profile pool. This causes the next invocation of the IP Dialog to display the default values again.

To ERASE all profile variables created by this Dialog, enter the following execute command on the TSO/ISPF Option 6 screen:

```
EXEC `II.PREP.CLIST(IQDEL)`
```

'II.PREP.CLIST(IQDEL)' is the data set and member containing the REXX Exec.

**Note:** The data set name must match the name assigned to the file that was unloaded from the VISION:Inquiry system tape in [Step 2 – Copy System Tape File 2 through 6 to Disk Data Sets on page 2-33](#).

- This Dialog only prepares the JCLs and control statements. The instructions for using and submitting the JCLs are described later in this guide.
- This Dialog assumes a working knowledge of the SMP/E facility and its processes. The HELP facility provides enough basic information to guide the novice through the process.
- You can go to the HELP panels associated with the main panels by pressing the (PF1/F1) key and then the Enter key for page forward.

## Dialog Navigation

The IP dialog allows you to select the installation of VISION:Inquiry base and all the optional features or to just install the Journey and/or DB2 option of the product if you have already installed the VISION:Inquiry base product.

- The Dialog moves forward, panel-to-panel, gathering the necessary information.
- You press Enter to advance from one panel to another panel and to save the values you have entered.
- When you need to change information or go back to a previous screen, use the END (PF3/F3) command. The information you have just entered at an input panel is not saved.
- When you get back to the VISION:Inquiry Installation Selection Panel, the END (PF3/F3) command EXITs the IP Dialog.

**Note:** All your saved information re-displays the next time you start the IP Dialog.

You use the CANCEL command to immediately EXIT the IP Dialog. Any information that you just entered is not saved when you use the CANCEL command.

When you EXIT the IP Dialog using the END or CANCEL commands, one of the following screens displays before you return to TSO/ISPF Option 6.

```
*****
***                                     ***
***               The Dialog was "ENDED" by User ***
***                                     ***
*****
***
```

Figure 2-3 Screen: The Dialog was ENDED by User

```
*****
***                                     ***
***               The Dialog was "CANCELLED" by User ***
***                                     ***
*****
***
```

Figure 2-4 Screen: The Dialog was CANCELLED by User

The following is an example of an input panel with an error message.

```
----- VISION:Inquiry SMP/E Information -----
OPTION ==>
The CSI Data Set Name must end with '.CSI' .
The OS/390 SMP/E Facility is designed to manage the Installation of
Software Products and track any modifications. SMP/E uses the CSI
(Consolidated Software Inventory) to keep records about the software and
SMPTLIB dataset as temporary storage for relative files that are loaded
from product tape.
Please provide the SMP/E Information below: (Use HELP for details)

Will the CSI be New ? => YES          Enter YES or NO
CSI Data Set Name     => II.CSA
CSI VOLUME ("NEW" CSI) =>              (If Blank, No VOLUME Used)

SMPTLIB Data Set Name Prefix => II
SMPTLIB VOLSER        =>              (If Blank, No VOLSER Used)
SMPTLIB Unit          => SYSDA

Distribution library zone name => INQYDST
Target      library zone name => INQYTG

Use ENTER to Process the Information
Use END   to Goto the Previous Display Without Saving the Information
Use CANCEL to Exit the Dialog Without Saving the Entered Information
```

Figure 2-5 Example of an Input Panel with an Error Message

## Basic SMP/E Concepts

SMP/E uses the following zones to organize and structure the information and elements of a software system:

- The global zone contains information regarding the elements staged in the SMP/E work data sets, and the indexes to the related distribution and target zones.
- The distribution and target zones contain information about the elements in the distribution and target libraries.

The software system elements (SYSMODS) are RECEIVED and the information is recorded into the global zone and staged in the work or the indirect data sets.

An APPLY run places elements into the target libraries using information from the target zone and recording the activity in the global zone. The target library elements are exercised and tested by the user to make sure they are satisfied with the performance and stability of the SYSMOD elements.

If everything works as expected, an ACCEPT run places elements into the distribution libraries using information from the distribution zone and records the activity in the global zone.

**Note:** Once an element (SYSMOD, USERMOD, PTF, or APAR) is ACCEPTED into the Distribution Libraries, you cannot RESTORE items back to their previous state or level.

Any future modifications (USERMOD, PTF, and APAR SYSMODS) to the software system follow the same basic flow.

There are points within this flow where Elements (SYSMODS) can be REJECTED from the global zone or RESTORED from the distribution libraries to the target libraries. These will be discussed later in this guide.

## Step 3 - Complete the IP Dialog

A REXX exec controls the TSO/ISPF Installation Preparation Dialog. The IP Dialog is started from the TSO/ISPF Option 6 screen.

The IP Dialog contains the following sections:

Initialization Display	Use the panels in this section to get the default high-level index name for the SMP/E data sets and VISION:Inquiry target and distribution libraries. The high-level index name is also used to tailor the JCL and control statements.
Panel Display	Consists of different sets of panels. Use the panels in this section mainly to review and change all the variables needed for tailoring the JCL and control statements used during the installation, customization, and maintenance tasks associated with VISION:Inquiry.

The unloaded system tape data sets used by the IP Dialog are the II.PREP.CLIST,PLIB, MLIB, SLIB, and CNTL. The high level qualifier, II, can be changed while downloading the files from tape as shown in [Step 2 – Copy System Tape File 2 through 6 to Disk Data Sets on page 2-33](#).

### Initialization Display

At the Command line on the TSO/ISPF Option 6 screen, enter an execute command, data set, and member name in the following format:

```
EXEC `II.PREP.CLIST(IQPRINST)`
```

'II.PREP.CLIST(IQPRINST)' is the data set and member containing the REXX exec.

**Note:** The data set name must match the name assigned the file that was unloaded from the VISION:Inquiry system tape in [Step 2 – Copy System Tape File 2 through 6 to Disk Data Sets on page 2-33](#).

Once you have keyed the command, press Enter to start the Initialization Display section of the IP Dialog.

The first screen displayed is the Welcome Screen.

```

*****
***                               ***
***      Welcome to the VISION:Inquiry      ***
***                               ***
***      Installation Preparation Dialog      ***
***                               ***
***      Press ENTER to Continue            ***
***                               ***
*****
***

```

Figure 2-6 Welcome Screen

Press Enter to see the High-Level Index Information Screen, displaying the Default Parameter.

```

The High-Level Index Name you provided is:

      > II <

This value will be used to reference all the data sets
that you "UNLOADED" from the VISION:Inquiry System Tape
in the "COPY1" job.

Is this High-Level Index Name correct? Enter Y or N

Enter END to terminate.

```

Figure 2-7 High-Level Index Information Screen (Default Parameter)

You need to respond to this screen with a Y or N in order to continue the IP Dialog.

If you respond with Y, indicating that the high-level index name is correct, you continue with the Panel Display section of the IP Dialog. The high-level index is used as a prefix to form the Data Set Names (DSNs) of the SMP/E data sets and VISION:Inquiry target and distribution libraries.

There is an intervening display telling you that the Panel Display section of the IP Dialog is about to start. The TSO/ISPF processing load on your system determines how long the start-up takes. If your system is very fast, you might not be able to see the intervening display:

```
Data Sets are being allocated.
```

```
The Panel Display Section will start in a few moments.....
```

If you respond with N to the High-Level Index Information Screen, you are given the chance to key another value:

```
The High-Level Index Name you provided is:
      > II <
This value will be used to reference all the data sets
that you "UNLOADED" from the VISION:Inquiry System Tape
in the "COPY1" job.
Is this High-Level Index Name correct? Enter Y or N
ENTER the High-Level Index you would like to use.
IF Blank, The Default Value used will be > II <
Enter END to terminate.
```

Figure 2-8 High-Level Index Information Screen (with response of N)

Key in your new High-Level Index Name or key nothing (leave blank for the default), and press Enter.

The High-Level Index Information Screen displays again for you to verify your input. You have the opportunity again to respond Y or N.

If you enter an invalid value, such as something inappropriate for High-Level Index Names, an error condition displays indicating and asking for a new value:

```
The High-Level Index value you provided is:
      > 123 <
it contains invalid characters.
1ST POS   = A-Z or $,#,@ (National Std)
2ND to nTH = A-Z or $,#,@ or 1-9 or . (Period)
ENTER the High-Level Index you would like to use.
IF Blank, The Default Value used will be > II <
```

Figure 2-9 High-Level Index Information Screen (with error condition)

During the transition from the Initialization Display section to the Panel Display section, the high-level index is used as a prefix to form the DSNs of the data sets used by the IP Dialog. If there is a problem with the data sets, error displays describe the condition. Here is a sample of one such display:

```
Data Sets are being allocated.
The Panel Display Section will start in a few moments.....
'II.PREP.MLIB' DATASET NOT FOUND, Dialog will not run
'II.PREP.PLIB' DATASET NOT FOUND, Dialog will not run
'II.PREP.SLIB' DATASET NOT FOUND, Dialog will not run
'II.PREP.CNTL' DATASET NOT FOUND, Dialog will not run
***-----***
***                                     ***
***          THE PROCESS HAS TERMINATED WITH AN ERROR.          ***
***                                     ***
***          PRESS THE ENTER KEY                                     ***
***-----***
***
```

Figure 2-10 Example of error condition description

Press Enter and the IP Dialog terminates, returning you to the TSO/ISPF Option 6 Screen.

If there are no problems or errors, the VISION:Inquiry SMP/E Installation Panel ([Figure 2-11](#)) displays.

**Note:** There are several other conditional displays that are self-explanatory. Most likely, you will never see these other displays.

## Panel Display

The Panel Display section of the IP Dialog is where you review and provide values for the variables that are placed into the JCL and control statements that are used during the installation, customization, and maintenance activities described in this guide.

The first panel displayed in this section of the IP Dialog is the Introduction panel. This panel provides some general information that is supplemented with more details by using the standard HELP facility.

```

----- VISION:Inquiry Installation -----
OPTION ==>
          VISION:Inquiry SMP/E Installation

This Dialog will help you prepare all the JCL and Control Statements
needed for the SMP/E Installation, the Customizing, and the SMP/E
Maintenance of your VISION:Inquiry Software System and its Components.

This Dialog will present all the variables used within the JCLs and
Control Statements that are needed to complete the SMP/E Installation,
the Customizing, and the SMP/E Maintenance Tasks associated with your
VISION:Inquiry Software System.

Standard Helps and detailed descriptions are associated with each
panel presented by the Dialog. The same information is also provided
in the VISION:Inquiry Installation Guide.

This Dialog can be rerun at any time. All information entered during
a session is saved in your profile variables. These values will be
redisplayed in subsequent sessions.

Use  ENTER to get started
Use  END or CANCEL to Exit the Dialog

```

Figure 2-11 Introduction panel

Essentially, you provide information to be merged into the JCL and control statement models that are stored in the II.PREP.SLIB data set. The resulting File Tailored members are placed in the II.PREP.CNTL data set, ready for use during the installation, customization, and maintenance tasks described in this guide.

The Panel Display is subdivided to Selection Panels, SMP/E Information Panels, Product Features Panels, and JCL Panels. To start the Selection Panels section of the IP Dialog, press Enter.

## Selection Panels

The VISION:Inquiry Installation Selection Panel is the first panel displayed.

```
----- VISION:Inquiry Installation Selection Panel -----  
OPTION ===>  
  
Select an installation option:  
  
    1  VISION:Inquiry Base with or without Optional Features  
  
    2  DB2 Interface and/or VISION:Journey Feature Only  
  
Note: You can select option 2 if you have already  
      installed the VISION:Inquiry base.  
  
Use  ENTER  to Process the Information  
Use  END or CANCEL to Exit the Dialog
```

Figure 2-12 VISION:Inquiry Installation Selection Panel

Select option 1 when you want to install the VISION:Inquiry base product with or without the Optional Features such as DB2 or Journey. Select option 2 if you have already installed the VISION:Inquiry base product and you want to add the optional features: DB2 and Journey.

**Note:**

- The Intracess feature of VISION:Inquiry is installed with the selection of option 1.
- If you select option 2, the IP Dialog assumes that the saved values from the installation of VISION:Inquiry base is in place and continue with the Product Features Panel on [VISION:Inquiry Product Features Panel \(option 2 or option F\) on page 2-54](#). To check the validity of the saved values for option 2, you can select option 1 first, browse through the panels and verify the values, then return to the above panel and select option 2.

The following panel displays if you select option "1" to install VISION:Inquiry base and its optional features, if any.

```
----- VISION:Inquiry Selection Panel -----  
OPTION ==>  
  
Select one of the following options:  
  
  S  SMP/E Datasets and System libraries information  
  
  F  Product features specific parameters  
  
  D  System database specific parameters  
  
  J  JCL generation  
  
Use ENTER to Process the Information  
Use END   to Goto the Previous Display  
Use CANCEL to Exit the Dialog
```

Figure 2-13 VISION:Inquiry Selection Panel (option 1)

You have four options to select:

- S Allows you to go through the SMP/E Information Panels to verify and change the information such as system libraries, SMP/E data sets, and VISION:Inquiry target and distribution data set names. If you are installing VISION:Inquiry version 6.5 for the first time, Computer Associates recommends selecting this option first. You are returned to this panel again after completion of option "S". Then, you can continue with option "F" for the features (if any), continue with option S for system data bases parameters, or continue with option "J" for the generation of the JCLs.
- F Goes to the [Product Features Panels on page 2-54](#) that ask for the parameters of the VISION:Inquiry optional features, DB2 option and/or Journey, if any. The default for this option is no optional features. You will be returned to this panel again after completion of option "F". Then, you can continue with option S for system data bases parameters or continue with option "J" for the generation of the JCLs.
- D Goes to the [System Database Information Panel on page 2-59](#) To enter system database information such as type. Then, you can continue with option "J" for the generation of JCLs.
- J Goes to the [JCL Panels on page 2-62](#) to generate the installation JCLs based on the default or previously saved values for options "S", "F", and "D".

## SMP/E Information Panels

The following SMP/E Information Panel displays if you select option “S” on the VISION:Inquiry Selection panel.

```

----- VISION:Inquiry SMP/E Information -----
OPTION ==>
Please enter the following information to be used for the install

  DASD unit    => SYSDA          Permanent DASD unit
  Tape unit    => CART           Generic tape unit
  Tape Volser  =>                Product tape volume serial number
  Work unit    => SYSDA          Generic work unit
  SMP/E Volser =>                SMP/E volser (If Blank, No VOLUME Used)

  CICS Macro Library => CICS.SDFHMAC
  CICS Load Library  => CICS.SDFHLOAD
  System Maclib      => SYS1.MACLIB
  LE PL/I PLICALLA/B => CEE.SIBM CALL
  LE Resident Library => CEE.SCEELKED
  TCP/IP Library     => TCPIP.SEZATCP
  IMS Reslib        =>

Use ENTER to Process the Information
Use END   to Goto the Previous Display Without Saving the Information
Use CANCEL to Exit the Dialog Without Saving the Entered Information

```

Figure 2-14 SMP/E Information Panel (option S)

Verify the information on this panel and change them if necessary.

The following is a description of the information on this panel.

DASD unit	Required. The unit value used for the creation of VISION:Inquiry target and distribution data sets. It is also used for the SMPTLIB, SMPPTS, SMPLOG, SMPLOGA, SMPSCDS, SMPLTS, SMPMTS, and SMPSTS data sets. This entry can later be changed on the following panels for the individual data sets.
Tape unit	Required. The unit value of the tape drive that is used for the product tape. The tape contains the SMP/E relative files containing the product elements.
Tape Volser	Required. The volume serial number of the product tape that contains the SMP/E relative files.
Work unit	Required. The unit value for SMP/E work data sets, SMPWRK1-6 and SYSUT1-4.

SMP/E Volser	Optional. Enter the Volser value to be used for the CSI, SMPTLIB, SMPPTS, SMPLOG, SMPLOGA, SMPSCDS, SMPLTS, SMPMTS, SMPSTS data sets as well as the target and distribution libraries. This entry can later be changed on the following panels for the individual data sets.
CICS Macro Library	Required. The name of the CICS Macro library.
CICS Load Library	Required. The name of the CICS Load library.
System Maclib	Required. The name of the IBM System Macro library.
LE PL/I PLICALLA/B	Required. The IBM Language Environment library data set name to provide PLICALLA and PLICALLB compatibility.
LE Resident Library	Required. The IBM Language Environment Resident library data set name.
TCP/IP Library	Required. The name of the TCP/IP load library.
IMS Reslib	Optional. The IBM IMS resident library data set name. This entry is only required if you want to access IMS(DL/I) system and/or user data base in the product.

After you have verified and keyed the necessary information, press Enter to save the information and go to the next SMP/E Information panel.

The following panel contains information needed for defining the SMP/E CSI (Consolidated Software Inventory) and SMPTLIB data sets for VISION:Inquiry. The CSI data set is used by SMP/E to contain all the information needed to manage and track your installed software.

```

----- VISION:Inquiry SMP/E Information -----
OPTION  ===>

The OS/390 SMP/E Facility is designed to manage the Installation of
Software Products and track any modifications.  SMP/E uses the CSI
(Consolidated Software Inventory) to keep records about the software and
SMPTLIB dataset as temporary storage for relative files that are loaded
from product tape.
Please provide the SMP/E Information below:  (Use HELP for details)

Will the CSI be New ? => YES          Enter YES or NO
CSI Data Set Name     => II.CSI
CSI VOLUME ("NEW" CSI) =>              (If Blank, No VOLUME Used)

SMPTLIB Data Set Name Prefix => II
SMPTLIB VOLSER        =>              (If Blank, No VOLSER Used)
SMPTLIB Unit          => SYSDA

Distribution library zone name => INQYDST
Target      library zone name => INQYTG

Use ENTER to Process the Information
Use END   to Goto the Previous Display Without Saving the Information
Use CANCEL to Exit the Dialog Without Saving the Entered Information

```

Figure 2-15 VISION:Inquiry SMP/E Information (SMP/E CSI and SMPTLIB data set definition)

The following is a description of the entries on the panel in [Figure 2-15](#).

Will the CSI be New?	Required. Enter YES or NO to indicate whether new CSI Data Sets should be defined to hold VISION:Inquiry information.
	In the basic SMP/E approach described in this guide, you set up a new CSI to keep track of VISION:Inquiry. This is not a requirement since a single group of CSI data sets can be used to track many different software systems.
CSI Data Set Name (...CSI)	Required. Enter the data set name of your CSI VSAM Cluster. The default is the High-Level Index you supplied during the Initialization Display Section of the IP Dialog suffixed with .CSI. When a new CSI is being created, this is the VSAM Cluster Name. If you use an existing CSI, supply the Cluster name here.

CSI VOLUME ("NEW" CSI)	Optional. This entry only applies to a new CSI. This entry is used in the VOLUME parameter of the VSAM Cluster definition for the new CSI. If left blank, no VOLUME parameter is specified.
SMPTLIB Data Set Name Prefix	Optional. Enter the High-Level Index prefix for SMPTLIB data sets. The SMPTLIB data sets are used as temporary storage for relative files that are loaded from the product tape during RECEIVE processing. The default is the High-Level Index you supplied during the Initialization Display Section of the IP Dialog suffixed by ".Fmid.Fn", where "Fmid" is CCVL650 and CDIP650 for the VISION:Inquiry base product and the DB2 option of the product, respectively. The "Fn" matches the number of relative file on the product tape (for example, F1, F2). If you delete this field, no high level qualifier is assigned to the SMPTLIB data sets and the data sets will be in the form of "Fmid.Fn".
SMPTLIB VOLSER	Optional. It is used in the VOL=SER= parameter of the SMPTLIB data set when it is created. The default is the Volser you supplied on the previous panel. If left blank, no VOL=SER is specified.
SMPTLIB Unit	Required. It is the UNIT value to be used when the SMPTLIB data sets are created. The default is the DASD unit you supplied on the previous panel.
Distribution library zone name	Required. It is the SMP/E Name assigned to identify the Distribution Zone. The installation assumes that the distribution library zone is new and does not exist in your system.
Target library zone name	Required. It is the SMP/E Name assigned to identify the Target Zone. The installation assumes that the target library zone is new and does not exist in your system.

After you have verified and keyed the necessary information, press Enter to save the information and go to the next SMP/E Information panel.

The following panel shows the data set names, volsers, and unit values for all the SMP/E data sets that are created for the installation of the product. The information is mainly based on the values you entered on the prior panels. You can change the high level qualifier for all the data sets, change the values for individual data sets, or go the next panel with no change by pressing Enter. If you selected an existing CSI data set on the previous panel, the SMPPTS data set name must be an already-created data set. The SMPLOG and SMPLOGA data sets are optional and can be deleted to make them dummy data sets. If you make a global change to the high level qualifier of all the data sets in the HLQ for SMP/E Datasets field below and press Enter, the panel re-displays with the new data set names for verification.

```

----- VISION:Inquiry SMP/E Information -----
OPTION ==>

The following are the SMP/E dataset information.
Please verify and make appropriate changes if necessary.
You may change the dataset names individually or globally.

HLQ for SMP/E Datasets => II

DD NAME          DSNAME                                VOLSER  UNIT
-----
SMPPTS           II.SMPPTS                                SYSDA
SMPLOG           II.SMPLOG                                SYSDA
SMPLOGA          II.SMPLOGA                               SYSDA
SMPSCDS          II.SMPSCDS                               SYSDA
SMPLTS           II.SMPLTS                                SYSDA
SMPMPTS          II.SMPMPTS                               SYSDA
SMPSTS           II.SMPSTS                                SYSDA

**** NOTE: SMPLOG and SMPLOGA datasets are optional, you may ****
****       delete the DSNAME(s) to make them dummy datasets ****
Use ENTER to Process the Information
Use END   to Goto the Previous Display Without Saving the Information
Use CANCEL to Exit the Dialog Without Saving the Entered Information

```

Figure 2-16 VISION:Inquiry SMP/E Information (SMP/E data set names, volsers, and unit values)

After you have verified and keyed the necessary information, press Enter to save the information and go to the next SMP/E Information panel.

The following panel shows the data set names, volsers, and unit values for all the VISION:Inquiry target libraries that are created and loaded during installation. The information is mainly based on the values you entered on the prior panels. You can change the high level qualifier for the data sets and change the VOLSER and UNIT values for individual data sets, or go to the next panel with no change by pressing Enter. If you make a global change to the high level qualifier of all the data sets in the HLQ for Target Libraries field below and press Enter, the panel re-displays with the new data set names for verification.

```
----- VISION:Inquiry SMP/E Information -----
OPTION ==>

The following are the VISION:Inquiry Target library information.
Please verify and make appropriate changes if necessary.

HLQ for Target Libraries => II

DESCRIPTION  DSNAME                                VOLSER  UNIT
-----
Control Lib. II.TCVLNTL                      SYSDA
Source Lib.  II.TCVLSRC                      SYSDA
Object Lib.  II.TCVLOBJ                      SYSDA
Program Lib. II.TCVLPGM                      SYSDA
Macro Lib.   II.TCVLMAC                      SYSDA
Clist Lib.   II.TCVLCLST                    SYSDA
Panel Lib.   II.TCVLPLIB                    SYSDA
Msg Lib.     II.TCVLMLIB                    SYSDA
Skel Lib.    II.TCVLSLIB                    SYSDA

Use ENTER to Process the Information
Use END   to Goto the Previous Display Without Saving the Information
Use CANCEL to Exit the Dialog Without Saving the Entered Information
```

Figure 2-17 VISION:Inquiry SMP/E Information (Target Library data set names, volsers, and unit values)

After you have verified and keyed the necessary information, press Enter to save the information and go to the next SMP/E Information panel.

The following panel shows the data set names, volsers, and unit values for all the VISION:Inquiry distribution libraries that are created and loaded during installation. The information is mainly based on the values you entered on the prior panels. You can change the high level qualifier for the data sets and change the VOLSER and UNIT values for individual data sets, or go to the next panel with no change by pressing Enter. If you make a global change to the high level qualifier of all the data sets in the HLQ for Distribution Libraries field below and press Enter, the panel re-displays with the new data set names for verification.

```

----- VISION:Inquiry SMP/E Information -----
OPTION  ===>

The following are the VISION:Inquiry Distribution library information.
Please verify and make appropriate changes if necessary.

HLQ for Distribution Libraries => II

DESCRIPTION  DSNAME                                VOLSER  UNIT
-----
Control Lib. II.DCVLCNTL                                SYSDA
Source Lib.  II.DCVLSRC                                SYSDA
Object Lib.  II.DCVLOBJ                                SYSDA
Program Lib. II.DCVLPGM                                SYSDA
Macro Lib.   II.DCVLMAC                                SYSDA
Clist Lib.   II.DCVLCLST                               SYSDA
Panel Lib.   II.DCVLPLIB                               SYSDA
Message Lib. II.DCVLMLIB                               SYSDA
Skel Lib.    II.DCVLSLIB                               SYSDA

Use ENTER to Process the Information
Use END   to Goto the Previous Display Without Saving the Information
Use CANCEL to Exit the Dialog Without Saving the Entered Information

```

Figure 2-18 VISION:Inquiry SMP/E Information (Distribution Library data set names, volsers, and unit values)

After you have verified and keyed the necessary information, press Enter to save the information.

At this point you have completed and saved the information about SMP/E data sets, system libraries, and VISION:Inquiry target and distribution libraries. You are returned to the VISION:Inquiry Selection Panel [Figure 2-13 on page 2-45](#). If you have the DB2 and/or Journey optional features, select option "F" and press Enter to go to the VISION:Inquiry Product Features Panels (below). Otherwise, select option D to go to the [System Database Information Panel on page 2-59](#) to enter the system database parameters and then select option "J" to go to the [JCL Panels on page 2-62](#) to generate the JCLs.

## Product Features Panels

The following panel displays if you select option 2 or option F on the first or second panel of the Selection Panels, respectively.

```
----- VISION:Inquiry Product Features Information -----  
OPTION ==>  
  
Please select the following options/features that you are licensed to  
use in your product by typing a character in front of that feature.  
  
      DB2 Option  
  
      Journey Feature  
  
Use ENTER  to Process the Information  
Use END    to Goto the Previous Display Without Saving the Information  
Use CANCEL to Exit the Dialog Without Saving the Entered Information
```

Figure 2-19 VISION:Inquiry Product Features Panel (option 2 or option F)

Select the features you are licensed to use as explained on the panel and press Enter.

- Selecting no feature and pressing Enter returns you to [Figure 2-13 on page 2-45](#). You can then select option D to go to the [System Database Information Panel on page 2-59](#) to enter the system database parameters or select option "J" to go to the [JCL Panels on page 2-62](#) to generate the necessary JCLs for the installation of the product.
- Selecting the DB2 option displays [Figure 2-20 on page 2-55](#) to enter the DB2 information.
- Selecting the Journey feature only displays [Figure 2-21 on page 2-56](#) to enter VISION:Journey information.

The following panel displays if you selected the DB2 option on the previous panel.

```

----- VISION:Inquiry Product Features Information -----
OPTION ===>

Enter any modifications at your installation

DB2 Subsystem Id      => DSN
DB2 Plan Name         => II
DB2 Load Library      => DSN510.SDSNLOAD

Use ENTER  to Process the Information
Use END    to Goto the Previous Display Without Saving the Information
Use CANCEL to Exit the Dialog Without Saving the Entered Information

```

Figure 2-20 VISION:Inquiry Product Features Panel (DB2 option)

The following is a description of the entries on this panel.

DB2 Subsystem Id	Required. It is the DB2 subsystem name for connecting to DB2.
DB2 Plan Name	Required. It is the VISION:Inquiry DB2 plan name to access DB2 tables.
DB2 Load Library	Required. It is the DB2 load library data set name in your system.

After you have verified and keyed the necessary information, press Enter to save the information. The panel in [Figure 2-21](#) displays to enter the Journey information if you have also selected the Journey feature. Otherwise, you are returned to the panel displayed in [Figure 2-13 on page 2-45](#) to select option D to go to the [System Database Information Panel on page 2-59](#) to enter the system database parameters or select option "J" to go to the [JCL Panels on page 2-62](#) to generate the JCLs.

The following panel displays if you selected the Journey feature on the VISION:Inquiry Selection Panel.

```

----- VISION:Inquiry Product Features Information -----
OPTION ==>

ENTER ANY MODIFICATIONS REQUIRED AT YOUR INSTALLATION FOR THE
VISION:JOURNEY FEATURE:

Transaction Code Base => FTS          ( 1 will be appended
BMS Mapset Name      => IDFTSP7      to the base name )

VISION:Journey installed for VISION:Results => YES    (YES, NO)

Use ENTER  to Process the Information
Use END    to Goto the Previous Display Without Saving the Information
Use CANCEL to Exit the Dialog Without Saving the Entered Information
    
```

Figure 2-21 VISION:Inquiry Product Features Panel (Journey Feature)

The following is a description of the entries on this panel.

Transaction Code Base	The transaction code prefix for the VISION:Journey feature to download a data/report. It must be known to VISION:Inquiry. This entry is appended with the suffix of 1 to make the transaction name. Make sure that the transaction name is defined to your CICS system definition.
BMS Mapset Name	The BMS used to indicate to the PC that it is ready to download a data/report (sometimes referred as the "shift-shift" screen).
VISION:Journey installed for VISION:Results	If you have already installed VISION:Journey for VISION:Results leave this field as YES, otherwise type NO in this field. Except the first load module, the existing VISION:Journey load modules installed for VISION:Results will also be used for VISION:Inquiry if "YES" specified.

The following panel displays if you selected "NO" for the VISION:Journey installed for VISION:Results: entry on the panel shown on [Figure 2-21](#).

```

----- VISION:Inquiry Product Features Information -----
OPTION ==>

ENTER ANY MODIFICATIONS REQUIRED AT YOUR INSTALLATION FOR THE
VISION:JOURNEY FEATURE:

Transaction Code Base => FTS          ( 1 will be appended
BMS Mapset Name       => IDFTSP7      to the base name )

VISION:Journey installed for VISION:Results => NO      (YES, NO)

First load module name => DYLC0SS
Second load module name => DYLC010
Third load module name => DYLC020
Fourth laod module name => DYLC030

Use ENTER to Process the Information
Use END   to Goto the Previous Display Without Saving the Information
Use CANCEL to Exit the Dialog Without Saving the Entered Information

```

Figure 2-22 VISION:Inquiry Product Feature Panel (Journey Feature)

The following is a description of the entries on this panel.

Transaction Code Base	The transaction code prefix for the VISION:Journey feature to download a data/report. It must be known to VISION:Inquiry. This entry is appended with the suffix of 1 to make the transaction name. Make sure that the transaction name is defined to your CICS system definition.
BMS Mapset Name	The BMS used to indicate to the PC that it is ready to download a data/report (sometimes referred as the "shift-shift" screen).
VISION:Journey installed for VISION:Results	If you have already installed VISION:Journey for VISION:Results leave this field as YES, otherwise type NO in this field. Except the first load module, the existing VISION:Journey load modules installed for VISION:Results will also be used for VISION:Inquiry if "YES" specified.
First load module name	The name of the first VISION:Journey load module that gets control before the actual download.

Second load module name	The load module name of the send/receive program that sends or receives data to or from the PC workstation. It calls the programs that perform the functions either to read/write the data from/to the download file or to compress the data to the PC workstation.
Third load module name	The load module name of the read/write program that reads or writes the data from or to the download file.
Fourth load module name	The load module name of the compress program that compresses the data obtained from the download file before sending it down to the PC workstation.

Pressing Enter displays the second panel for the Journey feature to enter information about the Journey download data set.

The following panel is the Journey information panel about the download data set.

```

----- VISION:Inquiry Product Features Information -----
OPTION ==>

ENTER ANY ADDITIONAL MODIFICATIONS TO THE VISION:JOURNEY VSAM DOWNLOAD
DATA SET REQUIRED AT YOUR INSTALLATION:

NOTE: IF VSAM FILE NOT PASSWORD PROTECTED, PASSWORD NOT REQUIRED.

DD Name           ==> VSFTSDS

Password          ==>           ( Password not displayed )

FOR VERIFICATION ENTER PASSWORD AGAIN:

Password          ==>

Use ENTER to Process the Information
Use END   to Goto the Previous Display Without Saving the Information
Use CANCEL to Exit the Dialog Without Saving the Entered Information
    
```

Figure 2-23 VISION:Inquiry Product Feature Panel (Journey Feature download data set information)

The following is a description of the entries on this panel.

DD Name	The DD name of the VISION:Journey feature VSAM download data set.
---------	---

Password	The VSAM password for the VISION:Journey VSAM download data set. This parameter is optional. If used, the password will not be displayed, thereby requiring a re-verification that the password entered is correct.
----------	---

Pressing Enter returns you to the VISION:Inquiry Selection Panel (see [Figure 2-13 on page 2-45](#)). You can then select option “D” to go to the [System Database Information Panel on page 2-59](#) to enter the system database parameters. Otherwise, select option “J” to go to the [JCL Panels on page 2-62](#) to generate the necessary JCLs for the installation of the product.

### System Database Information Panel

The following panel displays when you select option “D” on the VISION:Inquiry Selection Panel to enter the necessary system database information. Depending on the options you have selected on previous panels and the system database type entered on this panel, the panel may be re-displayed and asking for additional information to be entered.

```

-----VISION:InquirySystemDatabaseInformation-----OPTION====>

ENTER ANY MODIFICATIONS REQUIRED AT YOUR INSTALLATION FOR THE
SYSTEM DATABASE:

System Database Type ==> IMS           ( IMS, DB2, or VSAM )

Use ENTER to Process the Information
Use END   to Goto the Previous Display Without Saving the Information
Use CANCEL to Exit the Dialog Without Saving the Entered Information

```

Figure 2-24 VISION:Inquiry System Database Information Panel for system data base type of IMS

The following two panels are displayed when the system database type of VSAM or DB2 is entered on the above panel.

```

----- VISION:Inquiry System Database Information -----
OPTION ==>

ENTER ANY MODIFICATIONS REQUIRED AT YOUR INSTALLATION FOR THE
SYSTEM DATABASE:

System Database Type ==> VSAM          ( IMS, DB2, or VSAM )

System DB DD Name    ==> IXXDB

NOTE: IF VSAM FILE NOT PASSWORD PROTECTED, PASSWORD NOT REQUIRED.

System DB Password   ==>              ( Password not displayed )

FOR VERIFICATION ENTER PASSWORD AGAIN:

System DB Password   ==>

Use ENTER to Process the Information
Use END   to Goto the Previous Display Without Saving the Information
Use CANCEL to Exit the Dialog Without Saving the Entered Information
    
```

Figure 2-25 VISION:Inquiry System Database Information Panel for system data base type of VSAM

```

----- VISION:Inquiry System Database Information -----
OPTION ==>

ENTER ANY MODIFICATIONS REQUIRED AT YOUR INSTALLATION FOR THE
SYSTEM DATABASE:

System Database Type ==> DB2          ( IMS, DB2, or VSAM )

System DB Table Name ==> DYLINQ.IISYSTEM      (Authid.Name)

Use ENTER to Process the Information
Use END   to Goto the Previous Display Without Saving the Information
Use CANCEL to Exit the Dialog Without Saving the Entered Information
    
```

Figure 2-26 VISION:Inquiry System Database Information Panel for system data base type of DB2

The following is a description of the entries on the system database information panel.

System Database Type	The type of the system database. It can be VSAM, DB2, or IMS. The type IMS can only be specified if the IMS Reslib has been previously specified on the SMP/E information panel. The type DB2 can only be specified if the DB2 option has been selected on the Product Features panel.
System DB Table Name	The VISION:Inquiry System Database table name when the type is DB2. The table name consists of two parts, the authorization id and the object name.
System DB DD Name	The VISION:Inquiry System Database DD name when the type is VSAM.
System DB Password	The VSAM password for the System Database when the type is VSAM. This parameter is optional. If used, the password will not be displayed, thereby requiring a re-verification that the password entered is correct.

Pressing Enter returns you to the VISION:Inquiry Selection Panel (see [Figure 2-13 on page 2-45](#)). You can then select option "J" to go to the [JCL Panels on page 2-62](#) to generate the necessary JCLs for the installation of the product.

## JCL Panels

The following panel displays when you select option “J” on the VISION:Inquiry Selection Panel to generate the necessary installation JCLs. It contains the job statement information. The job statements start each JCL set that is created by the tailoring process.

```

----- VISION:Inquiry JCL Information -----
OPTION ==>

          Generate JCL - Part 1 - Setup the JOB Control Statements

The JCL and Jobs that will be created for the Installation, Customizing,
and Maintenance Tasks associated with your VISION:Inquiry System and
its Components are ready to be generated.

Please provide the JOB Control Statement information for the JCL:

Your JOB Name      =>          Leave BLANK and default Job Names will be used
JOB Stmt Info     => (ACCT)
Additional Stmts:
/**
/**
/**
/**
/**

Use ENTER to Process the Information
Use END   to Goto the Previous Display Without Saving the Information
Use CANCEL to Exit the Dialog Without Saving the Entered Information

```

Figure 2-27 VISION:Inquiry Selection Panel (Generate JCL - Part 1)

The following is a description of the entries on the Generate JCL Part 1 panel.

- |                  |  |
|------------------|--|
| Your JOB Name    | Optional. This name is used to form a JOB Name for each JCL that is created by this Dialog Process. The name is suffixed with a Character (a number or letter) to form the complete JOB Name. You can leave the JOB Name blank, and the system will supply a default JOB Name that matches the member name of the created JCL. |
| JOB Stmt Info    | Optional. This is the JOB Statement information; generally your accounting information.  |
| Additional Stmts | Optional. There is room for five additional JCL statements in the JOB Statement group.   |

**Note:** These follow the JOB Statement and precede all other JCL statements. If you blank out a line, it will not be part of the statements in the JOB group.

After you have keyed in the necessary information, press Enter to edit and save the information.

The JCL Part 2 panel displays next, showing you what your JOB Statement group looks like.

```
----- VISION:Inquiry JCL Information -----
OPTION ==>

          Generate JCL - Part 2 - Verify the JOB Control Statements

The JCL and Jobs that will be created for the Installation, Customizing,
and Maintenance Tasks associated with your VISION:Inquiry System and
its Components are ready to be generated.

Here are the JOB Control Statements that will start each JCL Member.

//*DEFAULT* JOB (ACCT)
//*
//*
//*
//*
//*

Use ENTER  to Continue the Dialog with the Next Display
Use END    to Goto the Previous Display
Use CANCEL to Exit the Dialog
```

Figure 2-28 VISION:Inquiry Selection Panel (Generate JCL - Part 2)

- If the information is correct, press Enter to continue the IP Dialog with the next panel.
- To change the information, use END (or PF3/F3) to go back to the JCL Part 1 Input Panel.

The JCL part 3 panel displays next.

```

----- VISION:Inquiry JCL Information -----
OPTION ==>

      Generate the JCL and Control Statements

The JCL and Control Statements will now be generated in the dataset named

      'II.PREP.CNTL'

      by using the

      ISPF File Tailoring Facility.

Press ENTER to Start the File Tailoring Process.

* * * * *
* The process will take a few moments to complete. *
* * * * *

Use ENTER to Start the File Tailoring Process
Use END to Go to the Previous Display
Use CANCEL to Exit the Dialog
    
```

Figure 2-29 (Generate JCL - Part 3)

This panel is just an information display that tells you the ISPF file tailoring process will start as soon as you press Enter. There is a note reminding you that this will take a few moments to complete, so be patient.

When the file tailoring is completed, all the prepared JCL and Control Statement Members have been added or replaced into the PDS data set (II.PREP.CNTL), ready for you to use in the actual installation, customization, and maintenance processes described in the following steps.

The final screen tells you that you have completed the process and that the prepared members are in the named data set.

```

*****
***                                     ***
***          THANK YOU. You have COMPLETED the          ***
***                                     ***
*** VISION:Inquiry Installation Preparation Dialog. ***
***                                     ***
*** Now refer to the Installation Guide for the ***
*** instructions on Running the prepared JOBS. ***
***                                     ***
*** The prepared items are in the data set named ***
***                                     ***
*** > 'II.PREP.CNTL' < ***
***                                     ***
*****
***
    
```

Figure 2-30 VISION:Inquiry Installation Preparation Dialog (Final Screen)

Now you are ready to perform the SMP/E setup and the basic VISION:Inquiry installation, described in the following steps.

## SMP/E Setup and Basic Installation

The SMP/E relative files on the system tape and the job streams generated in the II.PREP.CNTL data set are used for the installation.

At this point, you need to execute Steps 4 through 15 to establish and define the SMP/E CSI and zones, install the VISION:Inquiry base product, and install the optional features, DB2 and Journey.

The following members are generated in the II.PREP.CNTL data set by completing the IP dialogs as explained in [Step 3 - Complete the IP Dialog on page 2-39](#).

Member Name	Function of the Job within this Member
IQSMPE#1	Allocate the SMP/E CSI, the SMP/E work data sets, and all the associated data sets for the distribution and target libraries.
IQSMPE#2	Define the SMP/E global, distribution, and target zones.
IQSMPE#3	RECEIVE the MCS control statements and SYSMODs into the SMP/E global zone and work data sets for the VISION:Inquiry base product. The execution of this job requires the relative files on the system tape.
IQSMPE#4	APPLY the SYSMODs (modules and elements) of the VISION:Inquiry base product to the target libraries.
IQSMPE#5	ACCEPT the SYSMODs (modules and elements) of the VISION:Inquiry base product to the distribution libraries.
IQSMPE#6	Add DB2 library definition to the target and distribution zones. This member is only created if you have already installed the VISION:Inquiry base product and are installing the DB2 option of the product only.
IQSMPE#7	RECEIVE the MCS control statements and SYSMODs into the SMP/E global zone and work data sets for the DB2 option of the product. The execution of this job requires the relative files on the system tape. This member is only created if you selected the installation of the DB2 option in the IP dialog.
IQSMPE#8	APPLY the SYSMODs (modules and elements) of the DB2 option to the target libraries. This member is only created if you selected the installation of the DB2 option in the IP dialog.

---

IQSMPE#9	ACCEPT the SYSMODs (modules and elements) of the DB2 option to the distribution libraries. This member is only created if you selected the installation of the DB2 option in the IP dialog.
IQJRN#1	RECEIVE a USERMOD SYSMOD for the Journey feature of the product into the SMP/E global zone and work data sets. This member is only created if you selected the installation of the Journey feature in the IP dialog.
IQJRN#2	APPLY the USERMOD of the Journey feature to the target libraries. This member is only created if you selected the installation of the Journey feature in the IP dialog.
IQJRN#3	ACCEPT the USERMOD of the Journey feature to the distribution libraries. This member is only created if you selected the installation of the Journey feature in the IP dialog.
IQSYS#1	RECEIVE a USERMOD SYSMOD for the DB2 option, system database information, and/or the Journey feature of the product into the SMP/E global zone and work data sets.
IQSYS#2	APPLY the USERMOD of the DB2 option, system database information, and/or the Journey feature to the target libraries.
IQSYS#3	ACCEPT the USERMOD of the DB2 option, system database information, and/or Journey feature to the distribution libraries.
IQPTF#1	RECEIVE and APPLY the latest PTFs for VISION:Inquiry into the SMP/E global zone and to the target libraries. This member is only created if the II.PREP.CNTL(PTFS) member contains any PTF sent with the system tape.
IQPTF#2	ACCEPT the latest PTFs for VISION:Inquiry to the distribution libraries. This member is only created if the II.PREP.CNTL(PTFS) member contains any PTF sent with the system tape.

---

The following members are additional JCLs in the II.PREP.CNTL data set that are generated as a model for your reference.

<b>Member Name</b>	<b>Function of the Job within this Member</b>
IQSMPE#A	RECEIVE a PTF, APAR, or USERMOD into the Global Zone/Data sets.
IQSMPE#B	APPLY a PTF, APAR, or USERMOD to the target libraries.
IQSMPE#C	ACCEPT a PTF, APAR, or USERMOD to the distribution libraries.
IQSMPE#D	RESTORE (remove) a PTF, APAR, or USERMOD from the target libraries.
IQSMPE#E	REJECT (remove) a PTF, APAR, or USERMOD from the global zone/data sets.

## Step 4 – Allocate Data Sets

**Note:** If you are only installing the DB2 option and/or the Journey feature of VISION:Inquiry, skip to [Step 8 – ADD DB2 Library Definition to the Target and Distribution Zones on page 2-70](#). You must have already installed the VISION:Inquiry base product for this case.

In Step 4, you allocate all the data sets needed by SMP/E to manage, control, and maintain VISION:Inquiry and its components. This includes the SMP/E CSI, the associated work data sets, and the distribution and target libraries.

Using the JCL in member IQSMPE#1 in the II.PREP.CNTL data set, run the job to allocate the data sets.

Any existing or previously defined data sets with the same names are deleted before the new data sets are allocated.

The following data sets are allocated in this step. They are shown with the default high-level qualifier. Check the JCL in member IQSMPE#1 for your high-level qualifier values, if they differ from the default.

II.CSI	II.TCVLCLST	II.DCVLCLST
II.CSI.DATA	II.TCVLCNTL	II.DCVLCNTL
II.CSI.INDEX	II.TCVLMAC	II.DCVLMAC
II.SMPLOG (Optional)	II.TCVMLLIB	II.DCVMLLIB
II.SMPLOGA (Optional)	II.TCVLOBJ	II.DCVLOBJ
II.SMPLTS	II.TCVLPGM	II.DCVLPGM
II.SMPMTS	II.TCVLPLIB	II.DCVLPLIB
II.SMPPTS	II.TCVLSLIB	II.DCVLSLIB
II.SMPSCDS	II.TCVLSRC	II.DCVLSRC
II.SMPSTS		

### Notes:

1. The CSI and SMPPTS data sets are not allocated in this step if you have chosen not to use the new CSI data set in the IP dialogs. The existing data sets are used instead.
2. You can find the description of the target and distribution libraries and the list and description of the members in the source and control libraries in [Appendix B, “VISION:Inquiry Target and Distribution Libraries”](#).

## Step 5 – Define the Global, Distribution, and Target Zones in the SMP/E CSI

In Step 5, you define the VISION:Inquiry global, distribution, and target zones into the CSI. This is the information needed by SMP/E to manage, control, and maintain VISION:Inquiry.

Using the JCL in member IQSMPE#2 in the II.PREP.CNTL data set, run the job to define the VISION:Inquiry global, distribution, and target zones into the CSI.

## Step 6 – RECEIVE the MCS and SYSMODS into the Global Zone

In Step 6, you RECEIVE the Modification Control Statements (MCS) and VISION:Inquiry software system elements (SYSMODS) into the global zone and SMP/E data sets.

Using the JCL in member IQSMPE#3 in the II.PREP.CNTL data set, run the job to RECEIVE VISION:Inquiry into the global zone and SMP/E data sets. The execution of this step requires the SMP/E relative files on the VISION:Inquiry system tape.

## Step 7 – APPLY the VISION:Inquiry Elements (SYSMODS) to the Target Libraries

In Step 7, you APPLY the VISION:Inquiry software system elements (SYSMODS) into the target libraries.

Using the JCL in member IQSMPE#4 in the II.PREP.CNTL data set, run the job to APPLY VISION:Inquiry into the target libraries. This loads the target libraries with the VISION:Inquiry load modules and elements. Skip to Step 9 after completing this step.

## Step 8 – ADD DB2 Library Definition to the Target and Distribution Zones

**Note:** This step is required if you are installing the DB2 option alone. If you do not have the DB2 option go to Step 11. If you are installing the DB2 option along with the VISION:Inquiry base product, go to Step 9.

In Step 8, you add the DB2 load library definition to the target and distribution zones.

Using the JCL in member IQSMPE#6 in the II.PREP.CNTL data set, run the job to add the definition.

---

## Step 9 – RECEIVE the MCS and SYSMODS for the DB2 option to the Global Zone

**Note:** If you are not installing the DB2 option, skip to Step 11.

In Step 9, you RECEIVE the Modification Control Statements (MCS) and elements (SYSMODS) of the DB2 option of VISION:Inquiry into the global zone and SMP/E data sets.

Using the JCL in member IQSMPE#7 in the IL.PREP.CNTL data set, run the job to RECEIVE the DB2 option of VISION:Inquiry into the global zone and SMP/E data sets. This step requires the SMP/E relative files on the VISION:Inquiry system tape.

## Step 10 – APPLY the Elements (SYSMODS) of the DB2 Option to the Target Libraries

In Step 10, you APPLY the elements (SYSMODS) of the DB2 option of VISION:Inquiry into the target libraries.

Using the JCL in member IQSMPE#8 in the IL.PREP.CNTL data set, run the job to APPLY the DB2 option of VISION:Inquiry into the target libraries. This adds the DB2 option to the VISION:Inquiry target libraries.

## Step 11 – RECEIVE a USERMOD for the DB2 option, system database information, and/or the Journey feature to the Global Zone

In Step 11, you RECEIVE a USERMOD into the global zone and SMP/E data sets. This USERMOD is required for the installation of the DB2 option, system database information, and/or the Journey features and adds the necessary parameters such as DB2 plan name, system database type, and subsystem ID used in your system to the VISION:Inquiry Identification module, IXSIDENT.

Using the JCL in member IQUSYS#1 in the IL.PREP.CNTL data set, run the job to RECEIVE the USERMOD into the global zone and SMP/E data sets.

**Note:** The USERMOD member IQUSYS#1 is created every time you go through the Product Features Panel or the System Database Information Panel of the Installation Preparation Dialog. The system modification identifier (sysmod\_id) created for this USERMOD is always IQSYS01. If you are going to process this USERMOD more than once, you have to edit the member IQUSYS#1 and increase the sysmod\_id suffix by 1 and add the appropriate SUP option to the ++VER MCS statement.

The following example shows part of the generated USERMOD member, IQUSYS#1, with the changes that need to be made (shown in bold letters) to process it for the second time and to override the first invocation of the module.

```
      .  
      .  
//SMPPTEIN DD *  
++USERMOD(IQSYS02)  
/* SYSTEM IDENTIFICATION MODULE USERMOD.                */  
      .  
++VER(Z038)  
  FMID(CCVL650)  
  SUP(IQSYS01)  
      .  
++SRC(IXSIDENT) DISTLIB(INQSRCD)  
      .  
      .  
/*  
//SMPCNTL DD *  
  SET BDY(GLOBAL).  
  RECEIVE SYSMODS SELECT(IQSYS02) LIST.  
/*
```

Figure 2-31 Example: Part of the Generated Usermod Member IQUSYS#1

## Step 12 – APPLY the USERMOD for the DB2 option, system database information, and/or the Journey feature to the Target Libraries

In Step 12, you APPLY the USERMOD into the target libraries.

Using the JCL in member IQUSYS#2 in the IL.PREP.CNTL data set, run the job to APPLY the USERMOD into the target libraries. This step re-links the VISION:Inquiry load modules to include the modified Identification module, IXSIDENT, for the DB2 option, system database information, and/or the Journey feature.

**Note:** The member IQUSYS#2 is created every time you go through the Product Features Panel or the System Database Information Panel of the Installation Preparation Dialog. The system modification identifier (sysmod\_id) created for this USERMOD is always IQSYS01. If you are going to process this USERMOD more than once, you have to edit the member IQUSYS#2 and change the sysmod\_id in the APPLY command according to the changes made to the sysmod\_id in the member IQUSYS#1.

## Step 13 – RECEIVE a USERMOD for the Journey feature to the Global Zone

**Note:** If you are not installing the Journey feature or have not changed the default names for the Journey load modules in the Installation Preparation Dialog, skip to Step 15.

In Step 13, you RECEIVE the second USERMOD for the Journey feature into the global zone and SMP/E data sets. This USERMOD is required for the installation of the Journey feature and incorporates the Journey load module names to the module, DJCSECT.

Using the JCL in member IQUJRN#1 in the II.PREP.CNTL data set, run the job to RECEIVE the USERMOD into the global zone and SMP/E data sets.

**Note:** The USERMOD member IQUJRN#1 is created every time you go through the Product Features Panel of the Installation Preparation Dialog. The system modification identifier (sysmod\_id) created for this USERMOD is always IQJRN01. If you are going to process this Usermod more than once, you have to edit the member IQUJRN#1 and increase the sysmod\_id suffix by 1 and add the appropriate SUP option to the ++VER MCS statement.

**Example:** The following example shows part of the generated USERMOD member, IQUJRN#1, with the changes that should be made (shown in bold letters) to process it for the second time and to override the first invocation of the module.

```

      .
      .
      .
//SMPPTFIN DD *
++USERMOD(IQJRN02)
/* VISION:JOURNEY FEATURE USERMOD.          */
      .
++VER(Z038)
  EMID(CCVL650)
  SUP(IQJRN01)
      .
++SRC(DJCSECT) DISTLIB(INQSRCD)
      .
      .
      .

```

Figure 2-32 Example: Part of the Generated Usermod Member IQUJRN#1

## Step 14 – APPLY the USERMOD for the Journey feature to the Target Libraries

In Step 14, you APPLY the USERMOD into the target libraries.

Using the JCL in member IQUJRN#2 in the II.PREP.CNTL data set, run the job to APPLY the USERMOD into the target libraries. This step re-links the Journey load modules to include the modified DJCSECT module for the Journey feature.

**Note:** The member IQUJRN#2 is created and replaces the old one every time you go through the Product Features Panel of the Installation Preparation Dialog. The system modification identifier (sysmod\_id) created for this USERMOD is always IQJRN01. If you are going to process this USERMOD more than once, you have to edit the member IQUJRN#2 and change the sysmod\_id in the APPLY command according to the changes made to the sysmod\_id in the member IQUJRN#1.

## Step 15 – RECEIVE and APPLY the Latest PTF SYSMODS into the Global Zone and Target Libraries

**Note:** Prior to VISION:Inquiry version 6.5, PTFs were known as SMs or GSMs (General System Modifications). These types of patches apply to all systems and correct or enhance the software system.

If you are installing the Journey feature, the member PTF101 in the II.PREP.CNTL data set contains a PTF for the Journey feature. Use the JCL in members IQSMPE#A and IQSMPE#B in the II.PREP.CNTL data set as a sample to RECEIVE and APPLY the member PTF101 with SYSMOD ID of IQ00101, respectively.

The members, IQPTF#1 and IQPTF#2, in the II.PREP.CNTL data set are generated if one or more PTFs are sent with the system tape in the II.PREP.CNTL(PTFS) member.

If the member IQPTF#1 is created continue with this step; otherwise, skip to Step 16.

Using the JCL in member IQPTF#1 (if it is created) in the II.PREP.CNTL data set, run the job to RECEIVE and APPLY the VISION:Inquiry software system PTF(s).

---

## Management of the Target Libraries

After you have completed Step 15, the basic SMP/E installation of the VISION:Inquiry system into the target libraries is complete.

Since in the following steps the members in the target libraries can be modified, there are two basic approaches you can take regarding the management of the target libraries. The approach you choose depends on how you want to manage the customized elements and your Target Libraries. As a basic rule, you should save the original versions of any elements you change, and you should have a step-by-step procedure describing how and what you customize (so that you can repeat the process, if needed).

The two basic approaches to the management of your customizing activities are:

1. This approach is straight-forward and requires the minimum amount of management intervention. All customizing and tailoring is done directly into the Target Libraries. Any future PTFs also go into the same Target Libraries via the SMP/E APPLY process. The Target Libraries (or copies) are then used in production. This is the default approach, and all the JCL and associated control statements in the VISION:Inquiry CNTL data set, IL.TCVLCNTL have been built for this method. Of course, the changed elements (source, panels, clist, and so on) require saving and you should document the various changes in case they need to be repeated.
2. This approach requires more attention to details and procedures regarding the management of your customizing activities.  
First, copy the Target Libraries. These copies are where the customizing and tailoring is applied. As you do the customizing, tailoring and setups, you keep step-by-step details of what was done so it can be repeated. Whenever a PTF is put into the Target and Distribution Libraries via the SMP/E APPLY, you rebuild your copied Libraries and repeat the customization. In most cases, only the Load Library is changed via PTFs or APARs.

## Interface with IMS (DL/I)

In order for any program to access data managed by IMS (DL/I), it must be run in one of several ways:

- Using the DLIBATCH JCL procedure
- Running under CICS and calling DL/I to schedule a PSB that associates with the task. The PSB (Program Specification Block) includes a PCB (Program Communications Block) for each DL/I database to be accessed.

When the system database utility programs (such as IIINIT and IXULOAD) are run against a DL/I system database under control of IMS or AQF running under CICS, they use the first database PCB in the PSB for the system database.

When the native VISION:Inquiry uses a DL/I system database, it determines the PCB (and thus the DL/I database) to be used as the first database PCB in the PSB with a DBD name beginning IXXDB, if any; otherwise, the last database PCB in the PSB is used.

It is possible for one copy of VISION:Inquiry to access different DL/I system databases merely by changing the PSB used.

### Interface with VSAM

To access a VSAM data set as the system database, VISION:Inquiry needs to know the ddname to which the data set is assigned. If the data set is password protected, the password must also be known (except under CICS, where the password is defined to CICS rather than to VISION:Inquiry). This information is supplied through the identification module that is installed through the SMP/E USERMOD in the installation process.

### Interface with DB2

- CICS Attach can be used in a CICS region. To use CICS Attach, the connection is established elsewhere and the programs use the transaction monitor's attachment facility. For more information, see the *IBM Database 2 System and Database Administration Guide*.
- CALL Attach can be used in batch region. To use CALL Attach, VISION:Inquiry must know the subsystem name and plan name to specify to DB2 when creating the connection.

To access a DB2 table as the system database, VISION:Inquiry needs to know the authorization ID and table name of the table in addition to the DB2 connection specifications.

The DB2 information is specified in an identification module that is installed through the SMP/E USERMOD in the installation process.

## Step 16 – Post-Installation

In this step, you need to edit, possibly make changes, and then run some post-installation jobs to prepare and define the other components of the system for operation. Alternatively, this step can be done using the TSO/ISPF dialog discussed in [Appendix A, “Post-Installation Dialog”](#). By using Appendix A, you go through a series of panels and fill the information that is used to generate the jobs required to complete this step.

The post-installation step is done outside of SMP/E control and affects independent members and modules.

All the references to the VISION:Inquiry libraries in this step are to the target libraries that could be a copy made from the target libraries.

## Generating IMS Control Blocks

VISION:Inquiry requires that certain IMS control blocks be generated for its use. The source for each control block resides in the source library II.TCVLSRC.

Listed below are the source library members required for the generation phase, and their associated control blocks. Edit these members and make any modifications based upon the names specified on the installation worksheet ([Installation Worksheets on page 2-1](#)).

### II.TCVLSRC (IXXDB)

Source library member II.TCVLSRC (IXXDB) contains the DBD for the IMS (DL/I) system database. It contains the following source statements:

```
DBD      NAME=IXXDB, ACCESS= (HDAM, VSAM) , RMNAME= (IXXRMODL, 1)
DATASET  DD1=IXXDB, DEVICE=3390, BLOCK=2046
SEGM     NAME=IXXROOT, BYTES=2040
FIELD   NAME=(IXXKEY, SEQ, U) , START=1, BYTES=2, TYPE=C
DBDGEN
FINISH
END
```

Figure 2-33 DBD for the IMS (DL/I) System Database

#### Notes:

- The number of root anchor points can be modified in the DBD through the RMNAME=(IXXRMODL,1). If this is modified, the SIZE= parameter must be changed accordingly. It is also recommended that PTR=NOTWIN be used.
- The DBD names are the ddnames that must correspond with the names specified on the installation worksheet.
- If you use ISAM/OSAM databases instead of VSAM, it must be specified in the ACCESS parameter of the DBD statement.
- The device type specified in the "DEVICE=" parameter should correspond to your installation DASD type.

## II.TCVLSRC (IIBDDM)

Source library member II.TCVLSRC (IIBDDM) contains the DBD for the IMS (DL/I) test database, PLANT. It contains the following source statements:

```

DBD      NAME=IIBDDM, ACCESS=(HISAM, VSAM)
DATASET DD1=IIBDDM, DEVICE=3390, OVFLW=IIBDDMO,           X
        RECORD=(80, 80), BLOCK=(10, 10)
SEGM     NAME=PLANT, PARENT=0, BYTES=40
FIELD   NAME=(PLANTKEY, SEQ, U), START=1, BYTES=5, TYPE=C
SEGM     NAME=PROD, PARENT=PLANT, BYTES=35
FIELD   NAME=(PRODKEY, SEQ, U), START=1, BYTES=2, TYPE=C
SEGM     NAME=EMP, PARENT=PLANT, BYTES=31
FIELD   NAME=(EMPKEY, SEQ, U), START=1, BYTES=5, TYPE=C
SEGM     NAME=SAL, PARENT=EMP, BYTES=11
FIELD   NAME=(SALKEY, SEQ, U), START=1, BYTES=2, TYPE=C
FIELD   NAME=SALYTD, START=3, BYTES=5, TYPE=C
SEGM     NAME=ED, PARENT=EMP, BYTES=14
FIELD   NAME=(EDKEY, SEQ, U), START=1, BYTES=2, TYPE=C
SEGM     NAME=SUB, PARENT=ED, BYTES=12
FIELD   NAME=(SUBKEY, SEQ, U), START=3, BYTES=10, TYPE=C
DBDGGEN
FINISH
END

```

Figure 2-34 DBD for the IMS (DL/I) Test Database, PLANT

## II.TCVLSRC (IIBDDS)

Source library member II.TCVLSRC (IIBDDS) contains the DBD for the IMS (DL/I) test database, SKILL. It contains the following source statements:

```

DBD      NAME=IIBDDS, ACCESS=(HISAM, VSAM)
DATASET DD1=IIBDDS, DEVICE=3390, OVFLW=IIBDDSO,           X
        RECORD=(80, 80), BLOCK=(10, 10)
SEGM     NAME=SKILL, PARENT=0, BYTES=23
FIELD   NAME=(SKILLKEY, SEQ, U), START=1, BYTES=2, TYPE=C
SEGM     NAME=PLANT, PARENT=SKILL, BYTES=4
FIELD   NAME=(PLANTKEY, SEQ, U), START=1, BYTES=4, TYPE=C
SEGM     NAME=EMP, PARENT=PLANT, BYTES=5
FIELD   NAME=(EMPKEY, SEQ, U), START=1, BYTES=5, TYPE=C
DBDGGEN
FINISH
END

```

Figure 2-35 DBD for the IMS (DL/I) Test Database, SKILL

## II.TCVLSRC (IIPSB01)

Source library member II.TCVLSRC (IIPSB01) contains the PSB to initialize the system database.

```

*****
*
* IIPSB01 - THIS PSB IS USED BY IINIT FOR SYSTEM DATABASE INITIALIZATION *
*
*****
PCB      NAME=IXXDB,TYPE=DB,PROCOPT=L,KEYLEN=2
SENSEG  NAME=IXXROOT
PSBGEN  PSBNAME=IIPSB01,LANG=PL/I,CMPAT=YES
END
    
```

Figure 2-36 PSB to Initialize the System Database

**Note:** CMPAT=YES is required.

## II.TCVLSRC (IIPSB02)

Source library member II.TCVLSRC (IIPSB02) contains the PSB to maintain the system database.

```

*****
* IIPSB02 - THIS PSB IS USED BY IIGEN, IXUUNLD, IXULOAD, IXUSQRY, *
* IXUIQRY, AND IXUSTAT FOR SYSTEM DATABASE MAINTENANCE *
*****
PCB      NAME=IXXDB,TYPE=DB,PROCOPT=GR,KEYLEN=2
SENSEG  NAME=IXXROOT
PSBGEN  PSBNAME=IIPSB02,LANG=PL/I,CMPAT=YES
END
    
```

Figure 2-37 PSB to Maintain the System Database

## II.TCVLSRC (IIPSB03)

Source library member II.TCVLSRC (IIPSB03) contains the PSB to load and test the IMS (DL/I) test databases, PLANT and SKILL.

```

*****
* IIPSB03 - THIS PSB IS USED BY IIDEMO FOR SAMPLE DATABASE *
* LOADING *
*****
PCB NAME=IIDBDDM,TYPE=DB,PROCOPT=LS,KEYLEN=22
SENSEG NAME=PLANT
SENSEG NAME=PROD,PARENT=PLANT
SENSEG NAME=EMP,PARENT=PLANT
SENSEG NAME=SAL,PARENT=EMP
SENSEG NAME=ED,PARENT=EMP
SENSEG NAME=SUB,PARENT=ED
PCB NAME=IIDBDDS,TYPE=DB,PROCOPT=LS,KEYLEN=11
SENSEG NAME=SKILL
SENSEG NAME=PLANT,PARENT=SKILL
SENSEG NAME=EMP,PARENT=PLANT
PSBGEN NAME=IIPSB03,LANG=PL/I
END

```

Figure 2-38 PSB to Load and Test the PLANT and SKILL Test Databases

## II.TCVLSRC (CIPSB)

Source library member II.TCVLSRC(CIPSB) contains the inquiry PSB for accessing the DL/I system database, DL/I test databases, and any user databases through IIBATCH and IXXSTRT. However, the PSB must be modified to access DL/I user databases, if the system database is not DL/I or if you do not have the FTS feature option on your system.

It is also used for accessing the FTS feature DL/I download data set. The FTS feature PCB must be deleted from the PSB if the FTS feature is not used or its download data set is not DL/I.

CIPSB contains the following source statements:

```

*****
*INQIO - THIS PSB IS USED BY THE IXXSTRT AND IIBATCH FOR SYSTEM *
*      DATABASE AND SAMPLE DATABASE ACCESS, *
*      AND FOR FTS FEATURE IMS DOWNLOAD DATABASE. *
*      ADDITIONAL PCBs CAN BE ADDED TO ALLOW ACCESS *
*      TO THE OTHER DATABASES. *
*****
PCB      NAME=IXXDB,TYPE=DB,PROCOPT=GR,KEYLEN=2
SENSEG   NAME=IXXROOT
PCB      NAME=IIDBDDM,TYPE=DB,PROCOPT=GOP,KEYLEN=22,POS=M
SENSEG   NAME=PLANT
SENSEG   NAME=PROD,PARENT=PLANT
SENSEG   NAME=EMP,PARENT=EMP
SENSEG   NAME=SAL,PARENT=EMP
SENSEG   NAME=ED,PARENT=EMP
SENSEG   NAME=SUB,PARENT=ED
PCB      NAME=IIDBDDS,TYPE=DB,PROCOPT=GOP,KEYLEN=11,POS=M
SENSEG   NAME=SKILL
SENSEG   NAME=PLANT,PARENT=SKILL
SENSEG   NAME=EMP,PARENT=PLANT
*
*      THE FOLLOWING PCB IS USED FOR FTS FEATURE
*      THIS PCB MUST BE DELETED FROM YOUR PSB IF YOU DO NOT HAVE
*      FTS FEATURE ON YOUR SYSTEM.
*
PCB      NAME=IDXFTS,TYPE=DB,PROCOPT=A,KEYLEN=16,POS=M
SENSEG   NAME=FTSROOT
SENSEG   NAME=FTSDESC,PARENT=FTSROOT
SENSEG   NAME=FTSRECS,PARENT=FTSROOT
PSBGGEN  PSBNAME=INQIO,LANG=ASSEM,CMPAT=YES
END

```

Figure 2-39 PSB to Access the DL/I System Database

Consider the following guidelines when modifying the online PSB:

- If you do not use the FTS feature option on your system or you do not specify FTSTY=IMS, remove the FTS feature PCB (IDXFTS) from the member CIPSB.
- The VISION:Inquiry PSB name must be the same as the program name associated with the transaction (for example, INQIO).
- When a DL/I system database DBD name starts with the name IXXDB, the PCB for this database can be anywhere in the PSB. If the DBD name is anything else, the system database PCB must be the last PCB in the PSB.
- User database PCBs can appear in the PSB subject to the rules above. There are also some other restrictions for several PCBs with the same DBD name. (See MAPGEN Statement in Chapter 4 of the *Advantage VISION:Inquiry for CICS Technical Reference Guide*.)
- All user database PCBs must specify PROCOPT=GOP and POS=M.

## II.TCVLSRC (CIPSBAQF)

Source library member II.TCVLSRC (CIPSBAQF) contains PCB source used by the online AQF system to generate queries for the users. Be sure to change the name of the PSB to be the same name as the AQF main program (default IDBI01). CIPSBAQF contains the following source statements:

```
*****
*
*          IDBI01 - THIS PSB IS USED BY IDBI01 (AQF)
*          NOTE COULD USE CIPSB INSTEAD (IF PROCOPT=GR OK)
*
*****
PCB      NAME=IXXDB,TYPE=DB,PROCOPT=G,KEYLEN=2
SENSEG   NAME=IXXROOT
PSBGEN   PSBNAME=IDBI01,LANG=PL/I,CMPAT=YES
END
```

Figure 2-40 PCB Used by the Online AQF System to Generate Inquiries

If you are not using a DL/I system database, CIPSBAQF is not required.

The system database PCB is the first or only PCB in the PSB used by AQF (CIPSBAQF).

## II.TCVLCNTL (IIPSBDBD)

The control library member II.TCVLCNTL (IIPSBDBD) contains the JCL for generating the supplied DBDs and PSBs. Edit this member making any necessary modifications. Verify that the correct PROC name and member names are specified, and that the JCL overrides are correctly specified. When you are satisfied that all is correct, submit the job for processing.

The source library member II.TCVLSRC (CIPSB) should be edited/replaced to include the databases you want VISION:Inquiry to access.

The following is an example of the JCL stream to be executed.

```
//IXXDB EXEC DBDGEN,MBR=IXXDB
//C.SYSIN DD DSN=II.TCVLSRC (IXXDB) ,DISP=SHR
//IIPSB01 EXEC PSBGEN,MBR=IIPSB01
//C.SYSIN DD DSN=II.TCVLSRC (IIPSB01) ,DISP=SHR
//IIPSB02 EXEC PSBGEN,MBR=IIPSB02
//C.SYSIN DD DSN=II.TCVLSRC (IIPSB02) ,DISP=SHR
//*
//* THE FOLLOWING DBD AND PSB'S ARE FOR FTS FEATURE
//* THEY MUST BE DELETED IF YOU DO NOT HAVE FTS FEATURE
//* ON YOUR SYSTEM.
//*
//IDXFTS EXEC DBDGEN,MBR=IDXFTS
//C.SYSIN DD DSN=II.TCVLSRC (IDXFTS) ,DISP=SHR
```

Figure 2-41 JCL to Generate the Supplied DBDs and PSBs (Page 1 of 2)

```

//FTSPSBL EXEC PSBGEN, MBR=FTSPSBL
//C.SYSIN DD DSN=II.TCVLSRC (FTSPSBL) , DISP=SHR
//FTSPSBC EXEC PSBGEN, MBR=FTSPSBC
//C.SYSIN DD DSN=II.TCVLSRC (FTSPSBC) , DISP=SHR
//IDFTSC EXEC PSBGEN, MBR=IDFTSC
//C.SYSIN DD DSN=II.TCVLSRC (FTSPSB2) , DISP=SHR
//IDFTSD EXEC PSBGEN, MBR=IDFTSD
//C.SYSIN DD DSN=II.TCVLSRC (FTSPSB3) , DISP=SHR
//*
//DYLI0SS EXEC PSBGEN, MBR=DYLI0SS
//C.SYSIN DD DSN=II.TCVLSRC (JRNPSB1) , DISP=SHR
//DYLI010 EXEC PSBGEN, MBR=DYLI010
//C.SYSIN DD DSN=II.TCVLSRC (JRNPSB2) , DISP=SHR
//*
//* THE REMAINING DBD'S AND PSB'S ARE FOR THE
//* TEST DATABASES. THEY CAN BE GENERATED
//* ALONG WITH THESE DBD'S AND PSB'S.
//*
//IIBDDM EXEC DBDGEN, MBR=IIBDDM
//C.SYSIN DD DSN=II.TCVLSRC (IIBDDM) , DISP=SHR
//IIBDDS EXEC DBDGEN, MBR=IIBDDS
//C.SYSIN DD DSN=II.TCVLSRC (IIBDDS) , DISP=SHR
//IIPSB03 EXEC PSBGEN, MBR=IIPSB03
//C.SYSIN DD DSN=II.TCVLSRC (IIPSB03) , DISP=SHR
//II EXEC PSBGEN, MBR=INQIO
//C.SYSIN DD DSN=II.TCVLSRC (CIPSB) , DISP=SHR
//IDBI01 EXEC PSBGEN, MBR=IDBI01
//C.SYSIN DD DSN=II.TCVLSRC (CIPSBQF) , DISP=SHR
//ACBGEN EXEC ACBGEN
//SYSIN DD *
BUILD PSB=ALL
/*
//

```

Figure 2-41 JCL to Generate the Supplied DBDs and PSBs (Page 2 of 2)

**Notes:**

- The parameter name “MBR” and the stepnames “C” and “G” used in the JCL, match with the names used in the standard DBDGEN, PSBGEN, and ACBGEN procedures. If your installation uses different names, change the names accordingly in the JCL.
- The control blocks in the ACBGEN step may be built separately by specifying their names in the BUILD control statement. PSB=ALL in the BUILD control statement generates the ACBs for all the PSBs currently residing in your PSB library.
- If you do not have the FTS feature on your system, you should delete JCL for generating FTS feature DBDs and PSBs in the member IIPSBDBD.

If your installation has a different technique for generating DBDs and PSBs, use that technique.

---

## Binding the DB2 Plan

The control library member II.TCVLCNTL (DB2BIND) contains the TSO command language statements to bind a plan for use by VISION:Inquiry. You need to edit this member to change the subsystem ID, plan name, and object library name, to those for your installation. If you are re-binding an existing plan, change ACTION (ADD) to ACTION (REPLACE). Use the TSO or batch TSO command

```
EXEC 'control-library-name (DB2BIND) '
```

to perform the BIND.

Under SPUFI, or in batch mode using the DSNTIAD module, grant execution authority to all users by executing this SQL statement:

```
GRANT EXECUTE ON PLAN plan-name TO PUBLIC;
```

## Defining BMS Mapsets

The source library II.TCVLSRC contains members used to define BMS mapsets for the native VISION:Inquiry, Text Editor, AQF, and VISION:Journey.

### Native VISION:Inquiry Mapsets

The names of the mapsets for native VISION:Inquiry are INQMAP1 and INQMAP2. The default mapset name is INQMAP2 (see Chapter 6, Programming and Operation Considerations, in the *Advantage VISION:Inquiry for CICS Technical Reference Guide*, for the differences between INQMAP1 and INQMAP2).

### AQF Mapsets

The names of the mapsets for AQF start with IDBE in II.TCVLSRC.

The AQF mapset names must match with the names specified in the parameters of the II.TCVLSRC(CVLCAMOD) member discussed in [Changing the BMS Mapset Names of the AQF Screens on page 2-105](#).

Member IDBERRS in II.TCVLSRC contains the AQF error messages; you can change the text of the messages. See Chapter 6, Programming and Operation Considerations, in the *Advantage VISION:Inquiry for CICS Technical Reference Guide*, for the parts of the AQF mapsets which can and cannot be changed.

## Text Editor Mapsets

The names of the mapsets for Text Editor facility are IQEMAPM (main panel) and IQEMAPH (help panel).

The Text Editor mapset names must match the names specified in the parameters of the II.TCVLSRC(CVLC Parm) member discussed in [Changing the CICS processing parameters on page 2-102](#).

## VISION:Journey Mapsets

The name of the mapset for VISION:Journey is member II.TCVLSRC(IDFTSP7) (default BMS map). VISION:Journey uses a single BMS output panel during initiation of the PC using the VISION:Inquiry Download Facility.

For VISION:Journey, this panel indicates that the extract of data is completed and the system is ready for download. VISION:Journey will then start the download process automatically.

The contents of this panel are not modifiable for VISION:Journey and must be used as supplied.

The panel also contains lower case text, and during BMS screen processing it is not uncommon to receive warning messages relating to these characters. These messages can be ignored.

The name of the map (IDFTSP7) must match with the Journey BMS screen name specified at Installation Preparation dialog during SMP/E installation (refer to [Installation Preparation Dialog on page 2-35](#)).

## JCL for BMS Mapsets

Control library member II.TCVLCNTL (MAPASM) contains the JCL to assemble and link all the maps needed for VISION:Inquiry. If you change any information except the name of the mapset, you need to reassemble and link the map. If your installation uses a different technique for compile and link of the BMS mapsets, then use that technique.

Member MAPASM uses the in-stream procedure CIFORMAT. The first two steps create an image of the map being assembled and place it into the II.IMAGE data set. This can be allocated on a direct access storage device using JCL, such as the following, before executing the MAPASM JCL.

The first two steps are not required, but are recommended for self-documentation.

```
//ALLOC EXEC PGM=IEFBFR14
//IMAGE DD DISP=(NEW,CATLG),UNIT=SYSDA,DSN=II.IMAGE,
// SPACE=(3120,(25,10,10)),
// DCB=(RECFM=FB,LRECL=80,BLKSIZE=3120)
```

Figure 2-42 JCL to Allocate Map Image Data Set to a Direct Storage Device

Check that the parameters specified in CIFORMAT match your installation parameters.

If you do not have VISION:Journey or the FTS feature on your system, you can delete the JCL to assemble the map IDFTSP7 at the end of the member MAPASM in II.TCVLCNTL.

After completion of the MAPASM job, you will notice that a number of assembly steps (ASM02) will receive a return code of 0004. This is acceptable and you can continue with the installation.

## Installing the Test Data

Control library members contain the JCL to allocate and load the test databases.

### II.TCVLCNTL (IMSDEMO)

Control library member II.TCVLCNTL (IMSDEMO) contains the following JCL to allocate and load the IMS (DL/I) test databases, PLANT and SKILL, with data from II.TCVLSRC (IIDATA).

```
/* IMS SAMPLE DATABASE ALLOCATION AND LOADING JCL:
/* - THIS JOB WILL DEFINE THE SAMPLE (TEST)
/* IMS DATABASES TO VSAM AND LOAD THE TEST DATA.
/* BEFORE SUBMITTING THIS JOB:
/* - ADD YOUR INSTALLATION'S JOB STATEMENT.
/* - VERIFY OR CHANGE THE DSNAMES TO MATCH THOSE YOU WILL USE.
/* - REPLACE ?????? IN THE DEFINE COMMANDS WITH THE VOLUME SERIAL
/* NUMBERS OF THE VOLUMES ON WHICH THE DATABASES WILL RESIDE.
/* - THE SMP/E INSTALLATION MUST BE COMPLETE AND THE DBDS AND
/* PSBS GENERATED.
/* DEFINE THE PLANT AND SKILL TEST IMS DATABASES CLUSTERS TO VSAM
/*
//DEFINE EXEC PGM=IDCAMS,REGION=500K
//SYSPRINT SYSOUT=*
//SYSIN DD *
DEFINE CLUSTER ( NAME(II.PLANT) -
                VOLUMES(??????) -
                SPEED -
                TRACKS(10 1) -
```

Figure 2-43 JCL to Allocate and Load the IMS (DL/I) Test Databases (Page 1 of 2)

```

        DATA ( INDEXED ) -
              KEYS (5,6) -
              RECORDSIZE(80,80) -
              FREESPACE(10,10) -
              CONTROLINTERVALSIZE(1024) )
DEFINE CLUSTER ( NAME (II.PLANTOV) -
              VOLUMES(?????) -
              SPEED -
              TRACKS(5 5) -
              NONINDEXED -
              RECORDSIZE(80 80) -
              CONTROLINTERVALSIZE(1024) )
DEFINE CLUSTER ( NAME (II.SKILL) -
              VOLUMES(?????) -
              SPEED -
              TRACKS(10 1) -
              INDEXED ) -
        DATA ( KEYS (2,6) -
              RECORDSIZE(80 80) -
              FREESPACE(10 10) -
              CONTROLINTERVALSIZE(1024) )
DEFINE CLUSTER ( NAME (II.SKILLOV) -
              VOLUMES(?????) -
              SPEED -
              TRACKS(5 5) -
              NONINDEXED -
              RECORDSIZE(80 80) -
              CONTROLINTERVALSIZE(1024) )
/*
/** LOAD THE TEST IMS DATABASES
//IIDEMO EXEC DLIBATCH,PSB=IIPSB03,MBR=IIDEMO,RGN=2048K
//STEPLIB DD
// DD DISP=SHR,DSN=II.TCVLPGM

//IEFRDER DD DUMMY,DCB=(BLKSIZE=1408,RECFM=VBS)
//SYSPRINT DD SYSOUT=*
//DFSVSAMP DD *
2048,6
4096,6
//IIBDDM DD DISP=OLD,DSN=II.PLANT
//IIBDDMO DD DISP=OLD,DSN=II.PLANTOV
//IIBBDS DD DISP=OLD,DSN=II.SKILL
//IIBBDSO DD DISP=OLD,DSN=II.SKILLOV
//SYSIN DD DISP=SHR,DSN=II.TCVLSRC(IIDATA)

```

Figure 2-43 JCL to Allocate and Load the IMS (DL/I) Test Databases (Page 2 of 2)

## II.TCVLCNTL (DB2DEMO)

Control library member II.TCVLCNTL (DB2DEMO) contains SQL statements to be input to SPUFI or to the “DSNTIAD” module in batch mode to create and load the DB2 test tables and views. The authorization ID DYLINQ and the database specification in DATABASE IIDB are used throughout.

You can do a global change (for example, in ISPF edit), by entering

```
CHANGE ALL DYLINQ your-authid
```

and

```
CHANGE ALL 'IN DATABASE IIDB' 'IN DATABASE.tablespace'
```

to substitute values appropriate to your installation.

## II.TCVLCNTL (DB2INDEX)

Control library member II.TCVLCNTL (DB2INDEX) contains the following SQL statements to be input to SPUFI or to the “DSNTIAD” module in batch mode to create and define the index for DB2 test tables.

If you want, add SQL statements to define new indices for different fields of the test DB2 tables. It is also highly recommended that you build indices for user DB2 tables, especially for those fields specified in the IF clause of the query. These indices produce better response time.

You can change the authorization ID DYLINQ throughout this member if you have already changed it in DB2DEMO member.

```
CREATE INDEX INQ_IIPLANT      ON DYLINQ.IIPLANT      (PLANT ASC);
CREATE INDEX INQ_IIPLANT_PROD ON DYLINQ.IIPLANT_PROD (PLANT ASC);
CREATE INDEX INQ1_IIPLANT_EMP ON DYLINQ.IIPLANT_EMP (PLANT ASC);
CREATE INDEX INQ2_IIPLANT_EMP ON DYLINQ.IIPLANT_EMP (EMPLOYEE ASC);
CREATE INDEX INQ_IIEMP_SAL    ON DYLINQ.IIEMP_SAL    (EMPLOYEE ASC);
CREATE INDEX INQ_IIEMP_ED     ON DYLINQ.IIEMP_ED     (EMPLOYEE ASC);
CREATE INDEX INQ_IIEMP_ED_SUB ON DYLINQ.IIEMP_ED_SUB (EMPLOYEE ASC);
CREATE INDEX INQ_IISKILL      ON DYLINQ.IISKILL      (SKILL ASC);
CREATE INDEX INQ_IISKILL_PLANT ON DYLINQ.IISKILL_PLANT (SKILL ASC);
CREATE INDEX INQ1_IISKILL_EMP ON DYLINQ.IISKILL_EMP (SKILL ASC);
CREATE INDEX INQ2_IISKILL_EMP ON DYLINQ.IISKILL_EMP (EMPLOYEE ASC);
```

Figure 2-44 SQL Statements to Create and Define Indices for Test DB2 Tables

## II.TCVLCNTL (VSAMDEMO)

Control library member II.TCVLCNTL (VSAMDEMO) contains the following model JCL to allocate and load the VSAM test data sets, VSPLANT and VSSKILL, with data from II.TCVLSRC (VSDATAK) and II.TCVLSRC (VSDATAR).

```

/* VSAM SAMPLE FILE ALLOCATION AND LOADING JCL:
/* - THIS JOB WILL DEFINE THE SAMPLE (TEST) VSAM
/*   FILES, VSPLANT AND VSSKILL, TO VSAM AND LOAD THE TEST DATA.
/*
/* BEFORE SUBMITTING THIS JOB:
/* - ADD YOUR INSTALLATION'S JOB STATEMENT.
/* - VERIFY OR CHANGE THE DSNAMES AS NEEDED.
/* - REPLACE ?????? IN THE DEFINE COMMANDS WITH THE VOLUME SERIAL
/*   NUMBERS OF THE VOLUMES ON WHICH THE DATA SETS WILL RESIDE.
/*
/*
/* DEFINE AND LOAD THE PLANT AND SKILL TEST VSAM FILE CLUSTERS
/*
/*VSMDEMO EXEC PGM=IDCAMS,REGION=500K
//SYSPRINT DD SYSOUT=*
//VSDATAK DD DISP=SHR,DSN=II.TCVLSRC(VSDATAK)
//VSDATAR DD DISP=SHR,DSN=II.TCVLSRC(VSDATAR)
//SYSIN DD *
    DEFINE CLUSTER ( NAME(VS.VSPLDS) -
                    VOLUMES(?????) -
                    SPEED -
                    RECORDS(26) -
                    INDEXED ) -
    DATA ( KEYS(5,5) -
            RECORDSIZE(80,80) -
            CONTROLINTERVALSIZE(1024) )
    DEFINE CLUSTER ( NAME(VS.VSSKDS) -
                    VOLUMES(?????) -
                    SPEED -
                    RECORDS(26) -
                    NUMBERED -
                    RECORDSIZE(80 80) -
                    CONTROLINTERVALSIZE(1024) )
    REPRO IFILE(VSDATAK) ODS(VS.VSPLDS)
    REPRO IFILE(VSDATAR) ODS(VS.VSSKDS)
/*

```

Figure 2-45 JCL to Allocate and Load the VSAM Test Data Sets, VSPLANT and VSSKILL

## II.TCVLCNTL (VSMHDEMO)

Control library member II.TCVLCNTL (VSMHDEMO) contains the following model JCL to allocate and load the VSAM hierarchical test data sets, VSHPLANT and VSHSKILL, with data from II.TCVLSRC (VSDATAH).

```

/** VSAM HIERARCHICAL SAMPLE FILE ALLOCATION AND LOADING JCL:
/** - THIS JOB WILL DEFINE THE SAMPLE (TEST) VSAM
/** HIERARCHICAL FILES, VSHPLANT and VSHSKILL,
/** TO VSAM AND LOAD THE TEST DATA.
/**
/** BEFORE SUBMITTING THIS JOB:
/** - ADD YOUR INSTALLATION'S JOB STATEMENT.
/** - VERIFY OR CHANGE THE DSNAMES AS NEEDED.
/** - REPLACE ?????? IN THE DEFINE COMMANDS WITH THE VOLUME SERIAL
/** NUMBERS OF THE VOLUMES ON WHICH THE DATA SETS WILL RESIDE.
/** - THE SMP/E INSTALLATION MUST BE COMPLETED.
/**
/**
/** DEFINE THE PLANT AND SKILL TEST VSAM HIERARCHICAL FILE CLUSTERS
/**
/**VSMHDEMO EXEC PGM=IDCAMS,REGION=500K
/**SYSPRINT DD SYSOUT=*
/**SYSIN DD *
    DEFINE CLUSTER ( NAME(VS.VSHPLDS) -
                    VOLUMES(??????) -
                    SPEED -
                    TRACKS(1 1) -
                    INDEXED ) -
    DATA ( KEYS(5 0) -
            RECORDSIZE(500 747) -
            CONTROLINTERVALSIZE(1024) )
    DEFINE CLUSTER ( NAME(VS.VSHSKDS) -
                    VOLUMES(??????) -
                    SPEED -
                    TRACKS(1 1) -
                    INDEXED ) -
    DATA ( KEYS(2 0) -
            RECORDSIZE(44 90) -
            CONTROLINTERVALSIZE(1024) )

/**
/**
/** LOAD THE TEST VSAM HIERARCHICAL FILES
/**
/**IVDEMO EXEC PGM=IVDEMO,REGION=500K
/**STEPLIB DD DSN=II.TCVLPGM,DISP=SHR
/**SYSPRINT DD SYSOUT=*
/**SYSIN DD DSN=II.TCVLSRC(VSDATAH),DISP=SHR
/**VSHPLDS DD DSN=VS.VSHPLDS,DISP=SHR
/**VSHSKDS DD DSN=VS.VSHSKDS,DISP=SHR

```

Figure 2-46 JCL to Allocate and Load the VSAM Hierarchical Test Data Sets, VSHPLANT and VSHSKILL

## Defining and Initializing the System Database

Before a system database can be used, it must exist and it must be initially loaded using the IINIT program. It is also necessary to load the error messages and the standard system vocabulary using the IIGEN program. (A full description of the IIGEN program and error message and system vocabulary definition is contained in Chapter 5, Utilities, in the *Advantage VISION:Inquiry for CICS Technical Reference Guide*.)

- If you do not have VISION:Journey on your system, you can delete the commands, PCEXTRACT, PCE, PCLOAD, PCL, PCDELETE, and PCD, from the source library member II.TCVLSRC (IIVOCAB) before loading your vocabulary.
- If you try to execute these commands in a non-VISION:Journey environment, VISION:Inquiry issues an error message.

### II.TCVLCNTL (IMSINIT)

Control library member II.TCVLCNTL (IMSINIT) contains the following model JCL to allocate and initialize an IMS (DL/I) system database and load the error messages II.TCVLSRC (IIERROR) and system vocabulary II.TCVLSRC (IIVOCAB).

```

/* IMS SYSTEM DATABASE ALLOCATION AND INITIALIZATION JCL:
/* - THIS JOB WILL DEFINE AN IMS SYSTEM DATABASE
/* TO VSAM, PERFORM AN INITIAL LOAD, AND LOAD
/* ERROR MESSAGES AND THE STANDARD SYSTEM VOCABULARY.
/*
/* BEFORE SUBMITTING THIS JOB:
/* - ADD YOUR INSTALLATION'S JOB STATEMENT.
/* - VERIFY OR CHANGE THE DSNAMES AS NEEDED.
/* - REPLACE ?????? IN THE DEFINE COMMAND WITH THE VOLUME SERIAL
/* NUMBER OF THE VOLUME ON WHICH THE SYSTEM DATABASE WILL RESIDE.
/* - IF YOU ARE CUSTOMIZING MESSAGES, CHANGE II.TCVLSRC (IIERROR).
/* - IF YOU ARE CUSTOMIZING THE SYSTEM VOCABULARY (NOT RECOMMENDED),
/* CHANGE II.TCVLSRC (IIVOCAB).
/* - THE SMP/E INSTALLATION MUST BE COMPLETE AND THE DBDS AND
/* PSBS GENERATED.
/*
/*
/*
/* DEFINE THE SYSTEM DATABASE CLUSTER TO VSAM
/*
//DEFINE EXEC PGM=IDCAMS,REGION=500K
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
        DEFINE CLUSTER ( NAME(II.IXXDB) -
                        VOLUMES(??????) -
                        SPEED -
                        RECORDS(206) -
                        NONINDEXED -
                        RECORDSIZE(2553,2553) -
                        CONTROLINTERVALSIZE(2560) )
/*
/*
/* INITIALIZE THE SYSTEM DATABASE
/*

```

Figure 2-47 JCL to Allocate and Initialize an IMS (DL/I) System Database (Page 1 of 2)

```
//IIINIT EXEC DLIBATCH,MBR=IIINIT,PSB=IIPSB01,RGN=2048K
//STEPLIB DD
// DD DISP=SHR,DSN=II.TCVLPGM
//IEFRDER DD DUMMY,DCB=(BLKSIZE=1408,RECFM=VBS)

//IXXDB DD DISP=OLD,DSN=II.IXXDB
//SYSPRINT DD SYSOUT=*
//DFSVSAMP DD *
2048,6
4096,6
//SYSIN DD *
INDEX=4,DIRECTORY=200;
/*
/*
/*
/* LOAD THE STANDARD ERROR MESSAGES & SYSTEM VOCABULARY
/*
//IIGEN EXEC DLIBATCH,MBR=IIGEN,PSB=IIPSB02,RGN=2048K
//STEPLIB DD
// DD DISP=SHR,DSN=II.TCVLPGM
//IEFRDER DD DUMMY,DCB=(BLKSIZE=1408,RECFM=VBS)
//IXXDB DD DISP=OLD,DSN=II.IXXDB
//SYSPRINT DD SYSOUT=*
//DFSVSAMP DD *
2048,6
4096,6
//IXGERR DD SYSOUT=*
//IXGOUT DD SYSOUT=*
//SYSIN DD DISP=SHR,DSN=II.TCVLSRC (IIERROR)
// DD DISP=SHR,DSN=II.TCVLSRC (IIVOCAB)
```

Figure 2-47 JCL to Allocate and Initialize an IMS (DL/I) System Database (Page 2 of 2)

## II.TCVLCNTL (DB2CREAT)

Control library member II.TCVLCNTL (DB2CREAT) contains the following SQL statements to be input to SPUFI or to the “DSNTIAD” module in batch mode to create and define a DB2 system database and its index.

The authorization ID DYLINQ and the database specification in DATABASE IIDB are used throughout; you can do a global change, (for example, in ISPF edit), by entering

```
CHANGE ALL DYLINQ your-authid
```

and

```
CHANGE 'IN DATABASE IIDB' 'IN DATABASE.tablespace'
```

to substitute values appropriate to your installation.

```
CREATE TABLE DYLINQ.IISYSTEM
  (IIKEY      SMALLINT      NOT NULL
   IIDATA     VARCHAR(2038) NOT NULL)
  IN DATABASE IIDB;

CREATE UNIQUE INDEX DYLINQ.IIINDEX ON DYLINQ.IISYSTEM (IIKEY)
  PCTFREE 0 CLUSTER;

GRANT SELECT,UPDATE(IIDATA) ON TABLE DYLINQ.IISYSTEM TO PUBLIC;
```

Figure 2-48 SQL Statements to Create and Define a DB2 System Database

## II.TCVLCNTL (DB2INIT)

Control library member II.TCVLCNTL (DB2INIT) contains the following model JCL to initialize a DB2 system database, load the error messages II.TCVLSRC (IIERROR), and load the system vocabulary II.TCVLSRC (IIVOCAB).

```

/** DB2 SYSTEM DATABASE INITIALIZATION JCL:
/** - THIS JOB WILL INITIALIZE A DB2 SYSTEM DATABASE AND
/**   LOAD THE STANDARD ERROR MESSAGES AND SYSTEM VOCABULARY.
/**
/** BEFORE SUBMITTING THIS JOB:
/** - ADD YOUR INSTALLATION'S JOB STATEMENT.
/** - VERIFY OR CHANGE THE DSNAMES AS NEEDED.
/** - VERIFY OR CHANGE THE DB2 SUB-SYSTEM, PLAN, AND TABLE NAMES IN
/**   THE PARM FIELDS; OR YOU MAY OMIT THE PARMS ENTIRELY IF THIS
/**   INFORMATION IS SPECIFIED AT SMP/E INSTALLATION TIME.
/** - IF YOU ARE CUSTOMIZING MESSAGES, CHANGE II.TCVLSRC (IIERROR).
/** - IF YOU ARE CUSTOMIZING THE SYSTEM VOCABULARY (NOT RECOMMENDED),
/**   CHANGE II.TCVLSRC (IIVOCAB).
/** - THE SMP/E INSTALLATION AND INSTALLATION STEPS USING
/**   II.TCVLCNTL MEMBERS DB2BIND AND DB2CREAT MUST BE COMPLETE.
/** - (RE)CREATE THE DB2 SYSTEM DATA BASE USING II.TCVLCNTL MEMBER
/**   DB2CREAT.
/**
/**
/** INITIALIZE THE SYSTEM DATABASE
/**
//IIINIT EXEC PGM=IIINIT,REGION=1500K,
//      PARM='TYPE=DB2,SSID=DSN,PLAN=II,NAME=DYLIHQ.IISYSTEM'
//STEPLIB DD DISP=SHR,DSN=II.TCVLPGM
//      DD DISP=SHR,DSN=DSN510.SDSNLOAD
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
INDEX=4,DIRECTORY=200;
/*
/**
/** LOAD THE STANDARD ERROR MESSAGES & SYSTEM VOCABULARY
/**
//IIGEN EXEC PGM=IIGEN,REGION=1500K,
//      PARM='TYPE=DB2,SSID=DSN,PLAN=II,NAME=DYLIHQ.IISYSTEM'
//STEPLIB DD DISP=SHR,DSN=II.TCVLPGM
//      DD DISP=SHR,DSN=DSN510.SDSNLOAD
//SYSPRINT DD SYSOUT=*
//IXGERR DD SYSOUT=*
//IXGOUT DD SYSOUT=*
//SYSIN DD DISP=SHR,DSN=II.TCVLSRC (IIERROR)
//      DD DISP=SHR,DSN=II.TCVLSRC (IIVOCAB)
//

```

Figure 2-49 JCL to Initialize a DB2 System Database

## II.TCVLCNTL (VSAMINIT)

Control library member II.TCVLCNTL (VSAMINIT) contains the following model JCL to allocate and initialize a VSAM system database, load the error messages II.TCVLSRC (IIERROR), and load the system vocabulary II.TCVLSRC (IIVOCAB).

```

/* VSAM SAMPLE DATABASE ALLOCATION AND INITIALIZATION JCL:
/* - THIS JOB WILL DEFINE A VSAM SYSTEM DATABASE
/* TO VSAM, PERFORM AN INITIAL LOAD, AND LOAD
/* ERROR MESSAGES AND THE STANDARD SYSTEM VOCABULARY.
/*
/* BEFORE SUBMITTING THIS JOB:
/* - ADD YOUR INSTALLATION'S JOB STATEMENT.
/* - VERIFY OR CHANGE THE DSNAME AS NEEDED.
/* - REPLACE ?????? IN THE DEFINE COMMAND WITH THE VOLUME SERIAL
/* NUMBER OF THE VOLUME ON WHICH THE SYSTEM DATABASE WILL RESIDE.
/* - IF AN UPDATE PASSWORD IS REQUIRED FOR THE SYSTEM DATABASE,
/* ADD TO THE PARM FIELDS OF THE IIINIT AND IIGEN STEPS ,LOCK=X
/* WHERE X IS THE LOCK VALUE GIVEN BY THE IIIDENT MACRO IN
/* IX(B/O/P/S/T) IDENT FOR THIS SYSTEM DATABASE; OR YOU MAY OMIT
/* THE PARMS ENTIRELY IF THE SYSTEM DATABASE IS DESCRIBED IN
/* IXSIDENT, AND, IF THE NAME SPECIFIED IN IXSIDENT IS NOT IXXDB,
/* YOU CHANGE THE DDNAME IN THIS JOB ACCORDINGLY.
/* - IF YOU ARE CUSTOMIZING MESSAGES, CHANGE II.TCVLSRC(IIERROR).
/* - IF YOU ARE CUSTOMIZING THE SYSTEM VOCABULARY (NOT RECOMMENDED),
/* CHANGE II.TCVLSRC(IIVOCAB).
/* - THE JOB CONTAINED IN II.TCVLCNTL(SYSLINK) MUST BE COMPLETE.
/*
/* DEFINE THE SYSTEM DATABASE CLUSTER TO VSAM
/*
//DEFINE EXEC PGM=IDCAMS,REGION=500K
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
    DEFINE CLUSTER ( NAME(II.IXXDB) -
                    VOLUMES(?????) -
                    SPEED -
                    RECORDS(206) -
                    NUMBERED -
                    RECORDSIZE(2040,2040))
/*
/*
/* INITIALIZE THE SYSTEM DATABASE
/*
//IIINIT EXEC PGM=IIINIT,REGION=1500K,
// PARM='TYPE=VSAM'
//STEPLIB DD DISP=SHR,DSN=II.TCVLPGM
//IXXDB DD DISP=OLD,DSN=II.IXXDB
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
INDEX=4,DIRECTORY=200;
/*
/*
/* LOAD THE STANDARD ERROR MESSAGES & SYSTEM VOCABULARY
/*
//IIGEN EXEC PGM=IIGEN,REGION=1500K
// PARM='TYPE=VSAM'
//STEPLIB DD DISP=SHR,DSN=II.TCVLPGM
//IXXDB DD DISP=OLD,DSN=II.IXXDB
//SYSPRINT DD SYSOUT=*
//IXGERR DD SYSOUT=*
//IXGOUT DD SYSOUT=*
//SYSIN DD DISP=SHR,DSN=II.TCVLSRC(IIERROR)
// DD DISP=SHR,DSN=II.TCVLSRC(IIVOCAB)
//

```

Figure 2-50 JCL to Allocate and Load the VSAM System Database

## Defining and Initializing the VSAM Sort Work Data Set

This step is only required if you are using the VSAM sort work data set for CICS online sort. In addition, the parameter SORTIOM=VS must be specified in the II.TCVLSRC(CVLCPPARM) member discussed in [Changing the CICS processing parameters on page 2-102](#).

### II.TCVLCNTL (VSMSRTIN)

Control library member II.TCVLCNTL (VSMSRTIN) contains the following JCL to allocate and initialize the VSAM sort work data set.

```

/** FILE ALLOCATION AND INITIALIZATION JCL FOR VSAM SORT WORK DATASET:
/**
/** - THIS JOB WILL DEFINE A VSAM SORT WORK DATASET
/**   AND INITIALIZE IT WITH A DUMMY RECORD.
/**
/** BEFORE SUBMITTING THIS JOB :
/** - ADD YOUR INSTALLATION'S JOB STATEMENT.
/** - VERIFY OR CHANGE THE DSNNAME AS NEEDED.
/** - VERIFY OR CHANGE THE SIZE OF THE FILE AS NEEDED.
/** - REPLACE ?????? IN THE DEFINE COMMAND WITH THE VOLUME SERIAL
/**   NUMBER OF THE VOLUME ON WHICH THE SORT WORK DATASET WILL RESIDE.
/**
/**
/** DEFINE AND INITIALIZE THE VSAM SORT WORK DATASET
/**
/**VSAMSRT EXEC PGM=IDCAMS,REGION=1000K
/**SYSPRINT DD SYSOUT=*
/**VSDATAS DD DISP=SHR,DSN=II.TCVLSRC(VSDATAS)
/**SYSIN DD *
      DEFINE CLUSTER ( NAME(VS.SORTDS) -
                      VOLUMES(??????) -
                      SPEED -
                      RECORDS(500 5) -
                      INDEXED ) -
                    DATA ( KEYS(6,0) -
                          RECORDSIZE(20480 22500) )
      REPRO IFILE(VSDATAS) ODS(VS.SORTDS)
/**

```

Figure 2-51 JCL to Allocate and Initialize the VSAM Sort Work Data Set

## Defining and Initializing the VISION:Journey VSAM Download Data Set

Before using VISION:Journey, create (allocate and initialize) the VISION:Journey VSAM download data set.

### II.TCVLCNTL (VSMFTSIN)

Control library member II.TCVLCNTL (VSMFTSIN) contains the following model JCL to allocate and initialize the VISION:Journey VSAM download data set.

```

/* VSAM SAMPLE FILE ALLOCATION AND INITIALIZATION JCL FOR
/* VISION:Journey/FTS FEATURE DOWNLOAD DATA SET:
/* - THIS JOB WILL DEFINE A VSAM DOWNLOAD DATA SET
/*   AND INITIALIZE IT WITH A DUMMY RECORD.
/*
/* BEFORE SUBMITTING THIS JOB:
/* - ADD YOUR INSTALLATION'S JOB STATEMENT.
/* - VERIFY OR CHANGE THE DSNNAME AS NEEDED.
/* - VERIFY OR CHANGE THE SIZE OF THE FILE AS NEEDED.
/* - REPLACE ?????? IN THE DEFINE COMMAND WITH THE VOLUME SERIAL
/*   NUMBER OF THE VOLUME ON WHICH THE DATA SET WILL RESIDE.
/*
/*
/* DEFINE AND INITIALIZE THE VSAM DOWNLOAD DATA SET
//VSAMFTS EXEC PGM=IDCAMS,REGION=1000K
//SYSPRINT DD SYSOUT=*
//VSDATAF DD DISP=SHR,DSN=II.TCVLSRC(VSDATAF)
//SYSIN DD *
        DEFINE CLUSTER ( NAME(VS.VSFTSDS) -
                        VOLUMES(?????) -
                        SPEED -
                        RECORDS(50 5) -
                        INDEXED )-
                        DATA ( KEYS(16,0) -
                        RECORDSIZE(80 8020) )
        REPRO IFILE(VSDATAF) ODS(VS.VSFTSDS)
//

```

Figure 2-52 JCL to Allocate and Initialize the VISION:Journey VSAM Download Data Set

## Defining a Test Application

Before VISION:Inquiry can be used, at least one application containing definitions for the test databases and your terminals must be added to the system database using the IIGEN utility. The source library member II.TCVLSRC (IIDMGEN) contains model definitions for a sample application containing all supplied test databases.

Review and edit this member carefully, checking these points:

- Application name matches one of your VISION:Inquiry online transactions
- Test databases are defined by the proper names

- The terminal definitions correctly describe your terminals and BMS definition

You can also add definitions for any user databases you wish to include for initial testing. If you choose not to install all of the test databases, delete the IIGEN definitions for the MAPGENs and their corresponding DIRECTORY NAME MAPs that you will not use. Chapter 4, *The Definition Process*, in the *Advantage VISION: Inquiry for CICS Technical Reference Guide*, contains a full explanation of the IIGEN utility and the statements needed to define an application.

For native SQL syntax inquiries, you do not need to include the user DB2 table definitions (MAPGEN groups) in the system database and reference them in the DIRECTORY statement.

For VISION:Journey users, the source library member II.TCVLSRC (IIDMGEN) contains model definitions for the VISION:Journey download data set. With VISION:Journey, you can run inquiries (such as the DISPLAY command) against the download data set using this definition, and display information about the extracted data residing in the database which has not been downloaded yet. (See Chapter 6, *Programming and Operation Considerations*, in the *Advantage VISION: Inquiry for CICS Technical Reference Guide*.)

If you do not have VISION:Journey or the FTS feature installed, delete the MAPGEN groups and corresponding DIRECTORY NAME reference for the FTS feature download data base in the member IIDMGEN.

## II.TCVLCNTL (IMSELEM)

Control library member II.TCVLCNTL (IMSELEM) contains the following model JCL for application maintenance to an IMS (DL/I) system database.

```

/** SAMPLE DATABASE MAP GENERATION JCL FOR IMS SYSTEM DATABASE:
/** - THIS JOB WILL RUN THE SYSTEM GENERATION AND MAINTENANCE
/** UTILITY. IT MAY BE USED TO DEFINE THE TEST DATABASES/FILES
/** IN AN IMS SYSTEM DATABASE.
/**
/** BEFORE SUBMITTING THIS JOB:
/** - ADD YOUR INSTALLATION'S JOB STATEMENT.
/** - VERIFY OR CHANGE THE DSNAME AS NEEDED.
/** - CHANGE II.TCVLSRC(IIDMGEN) AS NEEDED TO DEFINE THE
/** APPLICATIONS, DATA BASES, AND TERMINALS YOU WILL BE USING.
/** - THE JOB CONTAINED IN II.TCVLCNTL(IMSINIT) MUST BE COMPLETE.
/**
/**
/** IIGEN EXEC DLIBATCH, MBR=IIGEN, PSB=IIPSB02, RGN=2048K
/** STEPLIB DD
/** DD DISP=SHR, DSN=II.TCVLPGM
/** IEFRDER DD DUMMY, DCB=(BLKSIZE=1408, RECFM=VBS)
/** IXXDB DD DISP=SHR, DSN=II.IXXDB
/** SYSPRINT DD SYSOUT=*
/** DFSVSAMP DD *
2048,6
4096,6
/** IXGERR DD SYSOUT=*
/** IXGOUT DD SYSOUT=*
/** SYSIN DD DISP=SHR, DSN=II.TCVLSRC(IIDMGEN)

```

Figure 2-53 JCL for Application Maintenance to an IMS (DL/I) System Database

## II.TCVLCNTL (DB2ELEM)

Control library member II.TCVLCNTL (DB2ELEM) contains the following model JCL for application maintenance to a DB2 system database.

```

/** SAMPLE DATABASE MAP GENERATION JCL FOR DB2 SYSTEM DATABASE:
/** - THIS JOB WILL RUN THE SYSTEM GENERATION AND MAINTENANCE
/** UTILITY. IT MAY BE USED TO DEFINE THE TEST
/** DATABASES/FILES IN A DB2 SYSTEM DATABASE.
/**
/** BEFORE SUBMITTING THIS JOB:
/** - ADD YOUR INSTALLATION'S JOB STATEMENT.
/** - VERIFY OR CHANGE THE DSNAME AS NEEDED.
/** - VERIFY OR CHANGE THE DB2 SUB-SYSTEM, PLAN, AND TABLE NAMES IN
/** PARM FIELD; OR YOU MAY OMIT THE PARM ENTIRELY IF THIS
/** INFORMATION IS SPECIFIED AT SMP/E INSTALLATION TIME.
/** - CHANGE II.TCVLSRC(IIDMGEN) AS NEEDED TO DEFINE THE
/** APPLICATIONS, DATA BASES, AND TERMINALS YOU WILL BE USING.
/** - THE JOB CONTAINED IN II.TCVLCNTL(DB2INIT) MUST BE COMPLETE.
/**
/**
/** IIGEN EXEC PGM=IIGEN, REGION=1500K,
/** PARM='TYPE=DB2, SSID=DSN, PLAN=II, NAME=DYLIHQ.IISYSTEM'
/** STEPLIB DD DISP=SHR, DSN=II.TCVLPGM
/** DD DISP=SHR, DSN=DSN510.SDSNLOAD
/** SYSPRINT DD SYSOUT=*
/** IXGERR DD SYSOUT=*
/** IXGOUT DD SYSOUT=*
/** SYSIN DD DISP=SHR, DSN=II.TCVLSRC(IIDMGEN)

```

Figure 2-54 JCL for Application Maintenance to a DB2 System Database

**Notes:**

Using the IIGEN utility to re-create an existing directory causes the stored inquiries, stored functions, or both, to be deleted from the directory. To avoid losing stored inquiries or functions, do the following:

1. Run the IXUSQRY utility (discussed in Chapter 5, Utilities, in the *Advantage VISION: Inquiry for CICS Technical Reference Guide*) to copy the stored items to a sequential data set.
2. Run the IIGEN utility to recreate the directory.
3. Run the VISION:Inquiry batch version to restore the items from the sequential data set to the recreated directory.

**II.TCVLCNTL (VSAMELEM)**

Control library member II.TCVLCNTL (VSAMELEM) contains the following model JCL for application maintenance to a VSAM system database.

```

/** SAMPLE DATABASE MAP GENERATION JCL FOR VSAM SYSTEM DATABASE:
/** - THIS JOB WILL RUN THE SYSTEM GENERATION AND MAINTENANCE
/** UTILITY. IT MAY BE USED TO DEFINE THE TEST DATABASES/FILES
/** IN A VSAM SYSTEM DATABASE.
/**
/** BEFORE SUBMITTING THIS JOB:
/** - ADD YOUR INSTALLATION'S JOB STATEMENT.
/** - VERIFY OR CHANGE THE DSNAMES AS NEEDED.
/** - THE SMP/E INSTALLATION MUST BE COMPLETE.
/** - VERIFY OR CHANGE THE DDNAME "IXXDB" TO
/** MATCH WITH THE NAME SPECIFIED AT SMP/E
/** INSTALLATION TIME.
/** - CHANGE II.TCVLSRC(IIDMGEN) AS NEEDED TO DEFINE THE APPLICATIONS,
/** DATABASES, AND TERMINALS YOU WILL BE USING.
/** - THE JOB CONTAINED IN II.TCVLCNTL(VSAMINIT) MUST BE COMPLETE.
/**
/**
/**IIGEN EXEC PGM=IIGEN,REGION=1500K,
/** PARM=`TYPE=VSAM'
/**STEPLIB DD DISP=SHR,DSN=II.TCVLCPGM
/**IXXDB DD DISP=SHR,DSN=II.IXXDB
/**SYSPRINT DD SYSOUT=*
/**IXGERR DD SYSOUT=*
/**IXGOUT DD SYSOUT=*
/**SYSIN DD DISP=SHR,DSN=II.TCVLSRC(IIDMGEN)

```

Figure 2-55 JCL for Application Maintenance to a VSAM System Database

## Changing the CICS processing parameters

The source.library member II.TCVLSRC(CVLC Parm) contains the parameters and the default values supplied which are used during the CICS online processing of the product. Verify and modify the parameter values if you want. You should assemble and link the CVLC Parm member using the member ASMCParm in II.TCVLCNTL library. The created load module is placed in the target library II.TCVLPGM and a program entry definition should be created in the CICS CSD file. You cannot change the load module name, CVLC Parm.

The parameters are:

Parameter	Description
IQMAIN=IXXSTRT	The name of the main VISION:Inquiry processor (up to eight characters). The name should also be defined in the CICS System Definition (CSD) file.
IQINTRA=INQINTRA	The name of the Intraccess front-end load module (up to eight characters). The name should also be defined in the CICS System Definition (CSD) file. This module is used with the Intraccess option only.
AQFTRAN=IQBE	The AQF transaction identifier (up to four characters). The name should also be defined in the CICS System Definition (CSD) file.
MAPSET=INQMAP2	The VISION:Inquiry default BMS mapset name (up to seven characters) which formats the screen for inquiry processing.
FOOTLEN=2	The length of output trailer map that formats the screen for inquiry processing. If the trailer map does not exist, the parameter should be set to zero. The default is 2 that is the length of the trailer map, FOOTING, used in INQMAP2.
INTERM=TERM	Specifies how terminals are defined to VISION:Inquiry. They can be defined by: <ul style="list-style-type: none"><li>■ 3-character CICS operator ID (INTERM=OPER)</li><li>■ 4-character terminal ID (INTERM=TERM)</li><li>■ 8-character user ID (INTERM=USER)</li></ul>

---

Parameter	Description
OUTTERM=TERM	Specifies how terminals are defined in the OUTPUT command. They can be defined by: <ul style="list-style-type: none"><li>■ 3-character CICS operator ID (OUTTERM=OPER)</li><li>■ 4-character terminal ID (OUTTERM=TERM)</li></ul>
EDTRAN=IQED	The Text Editor transaction identifier (up to four characters). The name should also be defined in the CICS System Definition (CSD) file.
EDMAPM=IQEMAPM	The Text Editor BMS mapset name (up to seven characters) for the main panel. It formats the screen for editing stored inquiries. The name should also be defined in the CICS System Definition (CSD) file.
EDMAPH=IQEMAPH	The Text Editor BMS mapset name (up to seven characters) for the help panel. The name should also be defined in the CICS System Definition (CSD) file.
HELPPG=7	Member IQEMAPH in IL.SRCLIB contains the BMS mapset used for the Text Editor help screens. There are seven BMS maps in this member representing seven pages of help screens. This parameter specifies the number of help pages (BMS maps) in this member. By adding or deleting BMS maps to this member, you can change the number of help pages. The default is seven.
MAXLEN=1440	The maximum input area length on the native BMS screen in the form of number of bytes (for example, 1440), or number of lines times line width (such as 20 * 72). During the PASS or SAVE/PASS command processing of the Text Editor, this value will be checked to make sure the inquiry fits on the input area of the native BMS screen. The default is 20 lines and 72 characters per line or 1440 characters.
SORTMOD=IXCSORT	The online SORT routine load module name (up to eight characters). The name should also be defined in the CICS System Definition (CSD) file.

---

Parameter	Description
SORTSIZ=125	<p>The maximum number of records to be sorted online. The parameter is mainly used for performance purposes. If the number of records to be sorted exceeds the maximum, the sort program issues an error message and terminates processing. Up to 8 digits are allowed. However, the actual maximum number of records that can be sorted depends on the following factors and the number of records decreases as:</p> <ul style="list-style-type: none"><li>■ The length of the sort fields increases.</li><li>■ The output record length increases.</li><li>■ The distribution of the sort fields in the user data set/data base gets more random.</li></ul> <p>SORTSIZ=0 (no maximum) is not supported.</p> <p>For example, the CICS sort routine can sort 268,100 records when the lengths of the output record and the sort fields are 81 and 25 bytes, respectively.</p> <p>However, we highly recommend using the batch version of the product for the large number of records to be sorted.</p>
SORTWKDD=	<p>Online sort VSAM work data set ddname. This parameter is used only if the SORTIOM parameter (below) is set to VS for online sort technique using VSAM work data set.</p>
SORTIOM=MS	<p>Online sort technique. It can be MS (Main Storage, default), TS (using Temporary Storage), or VS (using VSAM work data set).</p>

**Note:** The BMS mapset names specified in this member should match the names specified in [Defining BMS Mapsets on page 2-85](#).

## Changing the BMS Mapset Names of the AQF Screens

The default BMS mapset names for all the AQF screens are defined in the source library member II.TCVLSRC(CVLCAMOD). These names correspond to the mapset names for the AQF BMS screens supplied in the source library. It also specifies the number of help screens available for each main screen.

The mapset names for the AQF BMS screens specified in [Defining BMS Mapsets on page 2-85](#) Must match the names in the CVLCAMOD. The mapset names are defined in CVLCAMOD as a 7-character constant enclosed within parentheses.

Use the control library member II.TCVLCNTL (ASMCAMOD) as a model JCL to assemble and link the CVLCAMOD. The created load module is placed in the target library II.TCVLPGM and is used in AQF online processing.

You cannot change the load module name, CVLCAMOD, and program entry definition should be created in the CICS CSD file for this module.

## Changing the AQF Batch Job Submission Parameters

The member CVLCAJPR in II.TCVLSRC contains the parameters used in the job control statements when the AQF user submits the inquiry for batch processing.

If the job control statement parameters are left null, the system defaults are used.

If you want to modify any of those values, you should assemble and link this member using the member ASMCAJPR in II.TCVLCNTL. The created load module is placed in the target library II.TCVLPGM and a program entry definition should be created in the CICS CSD file. You cannot change the load module name, CVLCAJPR.

The parameters are:

Parameter	Description
REGSIZE	Indicates the size of the REGION required by the job (1 to 4 digits ending with the character K). The region size varies depending on the complexity of the inquiry. The typical size for the REGSIZE parameter is 2000K.
JOBCLASS	Assigns the job to a job class (one character).
MSGLEVL	Indicates the job control information to be printed in the job log; example, (1,1).
MSGCLAS	Assigns the job log to an output class (one character).

Parameter	Description
PRIORITY	Assigns the job's priority (1 or 2 digits).
ACFUSER	Identifies the job's owner to RACF (seven characters).
ACFPSWD	Identifies the RACF password (eight characters).

## Installing the PC Component of VISION:Journey

Installation procedures for the PC component of VISION:Journey are contained in the *VISION:Journey for Windows System Administrator's Guide*.

## Step 17 - Verifying the Installation

Because VISION:Inquiry is designed primarily for online usage, the verification procedure is designed for the online environment. However, the steps outlined in this section can be used in the batch environment.

The steps listed below are sufficient to determine if VISION:Inquiry is installed properly:

1. Verify that all components specified on the Installation Worksheet (see [Installation Worksheets on page 2-1](#)) are identified in your online system. Check the following:
  - CICS entries for VISION:Inquiry processing programs and transaction IDs
  - DBCTL entries for the IMS (DL/I) system data base and IMS (DL/I) test data bases if using DBCTL facility
  - CICS file entries for the VSAM system database and VSAM test files
  - DCT entries for Language Environment (LE) messages
  - DCT entry for the EXTRACT command file
  - RCT entries if DB2 tables are accessed by VISION:Inquiry
  - PSBLIB contains the IMS (DL/I) database PSB(s)
  - DBDLIB contains the IMS (DL/I) database DBD(s)
  - ACBLIB contains the IMS (DL/I) database ACB(s)
  - BMS library contains the mapset modules

- Program library contains
  - INQIO (contained in the online library)
  - IIBATCH
  - IXXSTRT (contained in the online library)
  - INQEDIT (contained in the online library)
  - IDBI01 (contained in the online library)
  - CUYGCHK
  - CUYSHDG
  - CUYSHMG (contained in the online library)
  - CUYXEMSG (contained in the online library)
  - CVLCAJPR (contained in the online library)
  - CVLCAMOD (contained in the online library)
  - CVLCPARM (contained in the online library)
  - DIOSQLC (if using DB2 option, it should also be contained in the online library)
- RESLIB contains the randomizer for IMS (DL/I) databases
- Startup JCL contains the databases/VSAM files to be accessed:
  - A system database
  - PLANT and SKILL test databases
  - VSPLANT, VSSKILL, VSHPLANT, and VSHSKILL VSAM test files
  - II.TCVLCNTL member CICSJCL contains the sample JCL to be added to your CICS startup JCL.
- Samples of the required CICS entries are provided in:
  - II.TCVLMAC members with the prefix of INQY (such as INQYDCT) which contain the CICS definition macros for VISION:Inquiry resources.
  - II.TCVLMAC member INQDBCTL for accessing DL/I data bases through DBCTL facility.
  - II.TCVLCNTL members INQCSDUP and IQDB2CSD which contain the CICS commands for VISION:Inquiry resources to be defined in the CICS System Definition (CSD) file.
  - II.TCVLCNTL member CICSJCL contains the sample JCL to be added to your CICS startup JCL.

The sample entries and JCL are for the access to the IMS (DL/I), VSAM, and DB2 system and test data bases. See the comments in the above members for the appropriate entries based on your system configuration.

2. Verify that at least one of your online terminals is identified in the IIGEN TERM statements. If you have completed [Defining a Test Application on page 2-98](#), a terminal is already defined; otherwise see “Defining Logical Terminals” in Chapter 4 of the *Advantage VISION:Inquiry for CICS Technical Reference Guide*, for terminal definition.
3. At this point, you are ready to invoke VISION:Inquiry in your CICS region. At your online terminal, clear the screen and enter the following:

```
IQIO
```

This formats the screen so you can enter your inquiry.

- The response to step 3 is a screen containing the literals PAGE, TRANSACTION, and Enter Inquiry Below. TRANSACTION is set to IQIO (you can change it as needed). On the first line of input (below Enter Inquiry Below:), type in:

```
DISPLAY SYSTEM;
```

Then press Enter.

The online response is similar to the following:

```
PAGE: P/N          TRANSACTION: IQIO
                                Enter Inquiry Below:
DISPLAY SYSTEM;
```

```
VISION:Inquiry 6.5 FOR CICS          ID: LMC000
SYSTEM DATABASE:          IMS: IXXDB
  FREE SPACE:    INDEX BYTES: 07290  DATA SEGMENTS: 00059
  DB2 CONNECTION:    CICS ATTACH
```

The batch response is similar to the following:

```
VISION:Inquiry 6.5 FOR CICS          ID: LMC000
SYSTEM DATABASE:          IMS: IXXDB
  FREE SPACE:    INDEX BYTES: 07290  DATA SEGMENTS: 00059
  DB2 CONNECTION:  SUBSYSTEM ID: DSN    PLAN NAME: II
```

The information displayed consists of:

- The title of your release
- Your release tape number (ID: LMC000. Use this number to identify your installation tape whenever you call Computer Associates Technical Support.
- The system database in use (IMS: DBD name, VSAM: ddname, or DB2: authid.tablename)
- The amount of free space remaining in the system database
- The type of connection to DB2 — for DB2 licensed sites only (CALL Attach using the SUBSYSTEM ID and PLAN NAME shown, IMS Attach, or CICS Attach)
- A list of the system modifications applied, if any

5. If step 4 is completed successfully and you have installed the DL/I test databases, PLANT and SKILL, type over the Enter Inquiry Below entry with the following:

```
DISPLAY PLANT PLANT.NAME EMP.NAME ; ;
```

Clear the PAGE field, then press Enter. The result wanted is the values of the fields specified in the inquiry.

6. If you have installed the VSAM test files, VSPLANT and VSKILL, type over the Enter Inquiry Below entry with the following:

```
DISPLAY VSPLANT VSPLANT.ID VSEMP.NAME ; ;
```

Clear the PAGE field, then press Enter. The result wanted is the values of the fields specified in the inquiry.

7. If you have installed the VSAM test hierarchical files, VSHPLANT and VSHSKILL, type over the Enter Inquiry Below entry with the following:

```
DISPLAY VSHPLANT VSHPLANT.ID VSEMP.NAME ; ;
```

Clear the PAGE field, then press Enter. The result wanted is the values of the fields specified in the inquiry.

8. If you have installed the DB2 test tables, type over the Enter Inquiry Below entry with the following:

```
DISPLAY PLANT2 PLANT.ID NAME PHONE ; ;
```

Clear the PAGE field, then press Enter. The result wanted is the values of the fields specified in the inquiry.

9. To test Text Editor, you must first save an inquiry in the native mode. Type over the Enter Inquiry Below entry with the following:

```
DDI PLANT 'TEST1' DISPLAY PLANT PLANT.NAME EMP.NAME ; ;
```

Then press Enter.

After successfully saving, type over the Enter Inquiry Below entry with the following:

```
EDITSQ PLANT 'TEST1' ; ;
```

Then press Enter. The saved inquiry should be displayed in the Text Editor mode. You can now edit the inquiry and test the primary and/or line commands using the VISION:Inquiry User Guide.

10. To test AQF, clear the screen and enter your AQF transaction:

```
IQBE
```

This displays the first screen of AQF. Try out a few sample queries from the *Advantage VISION:Inquiry for IMS and CICS Automatic Query Facility (AQF) User Guide*.

A successful display indicates that all components have been installed properly.

11. For a more thorough check, enter some of the inquiry examples shown in the *Advantage VISION:Inquiry Reference Guide*. Try to enter one of each command identifier.
12. To verify VISION:Inquiry with Intraccess check if the following have been specified and installed correctly in your CICS online region.
- Program entry for the front-end load module INQINTRA used. Program library (online library) contains the front-end load module for Intraccess (supplied as INQINTRA), and it matches with the IQINTRA parameter specified in the CVLCPARM member. The CICS region has TCP/IP support, and the startup JCL contains the TCP/IP libraries.
  - Use the instructions from Intraccess documentation to try some queries.

13. To verify VISION:Inquiry with VISION:Journey, check if the following have been specified or installed correctly in your CICS online system.
  - Program and transition entries for the host components of VISION:Journey
  - File entry for the VSAM download data set.
  - BMS library contains the mapset module for VISION:Journey.
  - Program library (online library) contains the host components of VISION:Journey (supplied as DYLC0SS, DYLC010, DYLC020, AND DYLC030).
  - Startup JCL contains the JCL for the VSAM download data set.
  - Start VISION:Journey by trying some queries using the *VISION:Journey for Windows User's Guide*.
  
14. If the output is not correct, check the following:
  - The APPL=name defined by IIGEN to the system database matches the CICS transaction identifier you are using.
  - Your CICS operator ID, terminal ID, or user ID (depending on the installation option selected) is defined within the VISION:Inquiry application.
  - Your vocabulary is not restricted.
  - The ddnames and program names are consistent.
  - The DL/I randomizer is in an appropriate IMS library.
  - The DB2 connection has been established correctly.

## Step 18 – ACCEPT the VISION:Inquiry Base Elements (SYSMODS) to the Distribution Libraries

In Step 18, you ACCEPT the VISION:Inquiry base software system elements (SYSMODS) into the distribution libraries.

Using the JCL in member IQSMPE#5 in the II.PREP.CNTL data set, run the job to ACCEPT VISION:Inquiry into the distribution libraries; this loads the VISION:Inquiry elements into the distribution libraries.

**Note:** Once you ACCEPT an element into the distribution libraries, there is no direct method for restoring the previous version of an element.

## Step 19 – ACCEPT the Elements (SYSMODS) of the DB2 option to the Distribution Libraries

**Note:** If you do not have the DB2 option of VISION:Inquiry, skip to Step 20.

In Step 19, you ACCEPT the elements (SYSMODS) of the DB2 option of VISION:Inquiry into the distribution libraries.

Using the JCL in member IQSMPE#9 in the IL.PREP.CNTL data set, run the job to ACCEPT the DB2 option of VISION:Inquiry into the distribution libraries. This loads the elements of the DB2 option of VISION:Inquiry into the distribution libraries.

**Note:** Once you ACCEPT an element into the distribution libraries, there is no direct method for restoring the previous version of an element.

## Step 20 – ACCEPT the USERMOD for the DB2 option, system database information, and/or the Journey feature to the Distribution Libraries

In Step 20, you ACCEPT the USERMOD SYSMOD for the DB2 option, system database information, and/or the Journey feature into the distribution libraries.

Using the JCL in member IQUSYS#3 in the IL.PREP.CNTL data set, run the job to ACCEPT the USERMOD into the distribution libraries.

**Note:** The member IQUSYS#3 is created every time you go through the Product Features Panel and/or the System Database Parameter Panel of the Installation Preparation Dialog. The system modification identifier (sysmod\_id) created for this USERMOD is always IQSYS01. If you are going to process this USERMOD more than once, you have to edit the member IQUSYS#3 and change the sysmod\_id in the ACCEPT command according to the changes made to the sysmod\_id in the member IQUSYS#1.

Once you ACCEPT an element into the distribution libraries, there is no direct method for restoring the previous version of an element.

## Step 21 – ACCEPT the USERMOD for the Journey feature to the Distribution Libraries

**Note:** If you are not installing the Journey feature or have not changed the default names for the Journey load modules in the Installation Preparation Dialog, skip to Step 22.

In Step 21, you ACCEPT the USERMOD SYSMOD for the Journey feature into the distribution libraries.

Using the JCL in member IQUJRN#3 in the II.PREP.CNTL data set, run the job to ACCEPT the USERMOD into the distribution libraries.

**Note:** The member IQUJRN#3 is created every time you go through the Product Features Panel of the Installation Preparation Dialog. The system modification identifier (sysmod\_id) created for this USERMOD is always IQJRN01. If you are going to process this USERMOD more than once, you have to edit the member IQUJRN#3 and change the sysmod\_id in the ACCEPT command according to the changes made to the sysmod\_id in the member IQUJRN#1.

Once you ACCEPT an element into the distribution libraries, there is no direct method for restoring the previous version of an element.

## Step 22 – ACCEPT the latest PTF SYSMODS into the Distribution Libraries

If you are installing the Journey feature, ACCEPT member PTF101 in the II.PREP.CNTL data set. You can use the JCL member IQSMPE#C in the II.PREP.CNTL data set as a sample for this purpose.

If you have applied any PTF using the member II.PREP.CNTL(IQ#PTF1) in Step 15 (see [Step 15 – RECEIVE and APPLY the Latest PTF SYSMODS into the Global Zone and Target Libraries on page 2-74](#)), use the member II.PREP.CNTL(IQPTF#2) to run the job to ACCEPT those PTFs into the distribution Libraries.

**Note:** Once you ACCEPT an element into the distribution libraries, there is no direct method for restoring the previous version of an element.

## Customizations and Setups

In a software system as diverse as VISION:Inquiry, there are several capabilities and facilities that can be customized, set up, and tailored to meet specific environmental and operational requirements. The steps described in this section (Steps 23 thru 27) are optional, and the ones that apply to your site are dependent on how the software system and components are used.

Some customizations described in this section are done through SMP/E, such as APARs and User Exits. Some other customizations are done outside of SMP/E control and affect independent modules. The non-SMP/E customizations are directed to the target libraries or a copy of the target libraries.

Keep track of the various customization jobs that you perform. This may be important if you ever need to go back to the default VISION:Inquiry software system and rebuild your customized system.

## Step 23 – APPLY Customizing APARs (Optional)

Prior to VISION:Inquiry version 6.5, PTFs were known as SMs or GSMs (General System Modifications). These types of patches apply to all systems and correct or enhance the software system.

In VISION:Inquiry, an SMP/E APAR is a customization to the system that satisfies a unique site requirement. Prior to version 6.5, these patches were known as RSMs (Restricted System Modifications). These type of patches only apply, if at all, to sites with unique requirements. If you previously installed RSMs with VISION:Inquiry, you may need to install the current release of the APARs into your new VISION:Inquiry version 6.5 system.

You can identify if any APAR/RSM modifications have been previously applied to your current VISION:Inquiry release which is prior to version 6.5 by looking at the output of the DISPLAY SYSTEM query or at the end of the output report generated by the IXUSTAT utility of the VISION:Inquiry. Any modification number that is between 51 and 99 is an APAR/RSM and a candidate for a comparable upgraded APAR for the current release. The modification numbers starting at 101 are the PTFs/GSMs.

Some common APARs for VISION:Inquiry, are delivered on the system tape and are downloaded in the II.PREP.CNTL data set. The members in the II.PREP.CNTL data sets whose names start with APAR are some common APARs used in customer sites. Check the description of the APARs at the beginning of each member to see if it is suitable for your site or not.

For example, the member II.PREP.CNTL(APAR051) is required for parallel processing and when you are going to run inquiries in more than one region simultaneously.

In this release, the PTFs and APARs are identified using the following format:

IQnnnnn

where:

**IQ** indicates VISION:Inquiry engine

**nnnnn** is the Modification Number Identifier:

00051 to 00099 Numbers assigned to APARs, special patches

00101 to 00500 Numbers assigned to PTFs, general patches

The APAR control statements contain comments for each item that describes the situation addressed by the APAR. Review the description of any APAR you are considering for your system. Contact Computer Associates Technical Support if you have any questions, concerns, or if you just need more information regarding an APAR. See [Contacting Computer Associates on page 1-12](#).

You can use the following model JCL members, provided in the II.PREP.CNTL data set to RECEIVE, APPLY, RESTORE, and ACCEPT the APARs. The comments in the JCL members direct you to changes that you should make before running the job. At most sites, there are ISPF-driven facilities that can just as easily be used to perform these SMP/E processes.

JCL Member	Description
IQSMPE#A	RECEIVE a PTF or APAR into the Global Zone/Data sets.
IQSMPE#B	APPLY a PTF or APAR to the target libraries.
IQSMPE#C	ACCEPT a PTF or APAR to the distribution libraries.
IQSMPE#D	RESTORE (remove) a PTF or APAR from the target libraries.

**Note:** Once you ACCEPT an element, such as an APAR, into the distribution libraries, there is no direct method for restoring the previous version of an element.

The decision to APPLY and ACCEPT APARs is made at your site. As a rule, any APAR (formerly RSM) that is applied to your previous release of VISION:Inquiry is probably a standard part of your system. These would be the APARs that you can comfortably ACCEPT. If you are evaluating a new APAR, you probably should wait awhile before you ACCEPT the modification into your distribution libraries.

## Step 24- User Exit Routines (Optional)

User Exits are logical points in the VISION:Inquiry system flow that you can interface to VISION:Inquiry with your own routines.

A dummy routine is installed with the VISION:Inquiry system for every user exit. You should incorporate your User Exit routines (if any) to the system as a USERMOD by using the SMP/E facility.

The detailed information about the User Exits, techniques to code the routines, and how to incorporate them to your system are discussed in Chapter 7, User Exits, in the *Advantage VISION:Inquiry for CICS Technical Reference Guide*.

## Step 25 - Customize the Parameter and Message Modules (Optional)

After you have completed Step 24, the SMP/E activities are finished and the target and distribution libraries are built for the VISION:Inquiry system. Only the installation of any future PTFs, APARs, or User Exits are done under the control of SMP/E.

All the subsequent customizing, tailoring, and setup tasks described in this step and the following steps are done outside the control of SMP/E and to the target libraries.

The VISION:Inquiry base and its components contain parameters, messages, options, and settings that can be tailored for each installation. The default values are contained in modules that can be modified, assembled, and link-edited as needed at any time. The customizations for these modules are done outside of the SMP/E control.

The default modules are delivered as source and executable load module with the system tape and loaded in the VISION:Inquiry target library. The sample JCL to assemble and link these modules are also provided in the VISION:Inquiry CNTL target library.

The names of the load modules are standard and cannot be changed.

The module names and their description are:

Module Name	Description
CUYGCHK	Changes Checkpoint Intervals in the IIGEN Utility
CUYSHMG	VISION:Inquiry Base Hard-Coded Messages
CUYSHDG	Utility Programs Report Headings
CUYXEMSG	Text Editor Hard-Coded Messages
CVLCAJPR	Online Processing Parameters
CVLCAMOD	AQF BMS Mapset Names
CVLCPARM	AQF Batch Job Submission Parameters

All the above load modules except CUYGCHK and CUYSHDG must be in the online load library. The name of the modules must be as shown above and cannot be changed. There should also be a CICS program definition entry in the CICS CSD file for the load modules.

**Note:** In addition to the above load modules, the load module DIOSQLC is also loaded to the program library during installation of the DB2 option of the product. DIOSQLC is required for processing DB2 tables and must also be available in the online library. The name of load module, DIOSQLC, cannot be changed.

The following sections describe the structure of each module and the way you can customize it.

## Changing Checkpoint Intervals in IIGEN

When the system database maintenance utility IIGEN is executed, checkpoints are taken at intervals depending on which and how many commands have been executed. These intervals are specified in source library member II.TCVLSRC (CUYGCHK). The first full word specifies the number of commands of any type after which a checkpoint call is issued; each of the remaining full words specifies the number of occurrences of a specific command after which a checkpoint is taken. A value of "0" specifies that the associated count does not trigger checkpointing.

Use the control library member II.TCVLCNTL (ASMCHKI) as a model JCL to assemble and link the CUYGCHK.

### Customizing the Hard-Coded Messages for VISION:Inquiry Base

The hard-coded messages, which are not stored in the system database are defined in source library members II.TCVLSRC(CUYSHMG).

- Do not change anything in this member except the text of the messages. The text can be changed to be longer than the existing one.
- The changed text should include the variable text insertion character (“#”) if, and only if, the original text included it.

Use control library member II.TCVLCNTL(ASMMSG) as a model JCL to assemble and link the CUYSHMG.

### Customizing the Utility Program Report Headings

The report headings produced by the programs IIGEN, IXULOAD, IXUSQRY, IXUSTAT, and IXUUNLD and the item labels produced by IXUSTAT are defined in the member II.TCVLSRC(CUYSHDG). The text of these headings and labels can be changed.

The headings in the CUYSHDG member preceded by a comment that specifies the heading belongs to which utility.

Use the control library member II.TCVLCNTL (ASMSHDG) for directions and JCL for this task.

### Customizing the Messages for the Text Editor facility

The messages for the Text Editor facility of VISION:Inquiry is defined in source library members II.TCVLSRC(CUYXEMSG).

Do not change anything in this member except the text of the messages.

Use control library member II.TCVLCNTL(ASMEMSG) as a model JCL to assemble and link the CUYXEMSG.

### Changing VISION:Inquiry Front-End Program and AQF Program

The source of the VISION:Inquiry front-end program (INQIO) is in II.TCVLSRC. You can modify and assemble and link them if you do not want to use the defaults. For example, you can modify:

Logic when entering native VISION:Inquiry from AQF program in INQIO.

Notes in the program describe the options to run the query immediately or to allow the user a chance to modify the query before actually executing it.

The member ASMINQIO in II.TCVLCNTL is provided to assemble and link the INQIO program.

## Step 26 - DB2 Catalog Program (Optional)

The DB2 catalog program generates MAPGEN and FIELD statements for your DB2 tables and applies to sites with the VISION:Inquiry DB2 option only. The program is written in Assembler and uses the TSO Attach Facility of DB2 (that is, TSO Attach). For more information about how to use the program, see Using the DB2 Catalog Program in Chapter 4 of the *Advantage VISION:Inquiry for CICS Technical Reference Guide*.

### Installing the DB2 Catalog Program II.TCVLSRC (DB2CATA)

Source code for the DB2 catalog program is in II.TCVLSRC (DB2CATA). The program can be assembled and link edited using your standard DB2 procs. The TSO language interface module, DSNELI, must be included in the link edit step. The following sample JCL uses the standard DB2 assembly link edit procedure.

```
//ASSEMBLY JOB
//STEP1 EXEC DSNHASM,USER=XXXXXXX,MEM=DB2CATA
//PC.SYSLIB DD DUMMY
//PC.SYSIN DD DSN=YOUR.SOURCE.LIBRARY(DB2CATA),DISP=SHR
//LKED.SYSLMOD DD DSN=YOUR.PROGRAM.LOAD.LIBRARY,DISP=SHR
//LKED.SYSIN DD *
INCLUDE SYSLIB(DSNELI)
NAME DB2CATA(R)
/*
```

Figure 2-56 JCL for the DB2 Catalog Program

Next, the program must be bound into your DB2 system. The following JCL can be used to bind it.

```
//BIND JOB
/* BEFORE EXECUTION CHANGE THE PLAN NAME
/* DYIQTSO2 IF NECESSARY
//STEP1 EXEC PGM=IKJEFT01
//STEPLIB DD DSN=YOUR.DB2.LOAD.LIBRARY,DISP=SHR
//DBRMLIB DD DSN=YOUR.DBRM.LIBRARY,DISP=SHR
//SYSTSPRT DD SYSOUT=*
//SYSTSIN DD *
DSN SYSTEM(YOUR DB2 SUBSYSTEM ID)
BIND PLAN(DYLQTSO2) MEMBER(DB2CATA) ACTION(REP) RETAIN -
ISOLATION(CS)
END
/*
```

Figure 2-57 JCL to Bind the DB2 Catalog Program

## Step 27 - Installing the COBOL Converter (Optional)

The COBOL converter creates field definitions for your IMS (DL/I) database or VSAM data set. It generates IIGEN acceptable field definition statements from COBOL copy books in MVS Partitioned Data Set (PDS), CA-Librarian, and CA-Panvalet libraries. For more information about how to use this feature, see Using the COBOL Converter in Chapter 4 of the *Advantage VISION:Inquiry for CICS Technical Reference Guide*.

The COBOL converter is contained in the program library of VISION:Inquiry as a link edited load module.

If your COBOL copybooks reside in the MVS Partitioned Data Set (PDS), you can use the load modules without any customization.

### Linking the COBOL Converter to Access CA-Panvalet or CA-Librarian

The VISION:Inquiry COBOL converter provides automatic access to CA-Librarian and CA-Panvalet source libraries. Before using this facility, you must link edit the COBOL definition generator with the appropriate interface module. This interface module (FAIR for CA-Librarian or PAM for CA-Panvalet) was included with your copy of the library system. It may also be necessary to apply a patch to INQCOBCV. This patch frees up extra memory for I/O buffers for the source library.

The following JCL links the interface with the COBOL definition converter. Select the link edit control statements for the library system you have.

```
//STEP02 EXEC PGM=IEWL, PARM='LET,LIST,XREF,NCAL', REGION=150K
//SYSPRINT DD SYSOUT=A
//SYSUT1 DD UNIT=SYSDA, SPACE=(CYL,(2,1))
//LIBSYS DD DSN=YOUR.LIB.MAINT.LOAD.LIBRARY, DISP=SHR
//SYSLMOD DD DSN=YOUR.VISION:INQUIRY.LOAD.LIBRARY, DISP=SHR
//SYSLIN DD *
        LINK EDIT CONTROL STATEMENTS
/*
```

Figure 2-58 JCL to Link the Interface with the COBOL Definition Converter

**Note:** You may have to replace INCLUDE LIBSYS(PAM) with several INCLUDEs. See your CA-Panvalet manual for what you may need.

The following are CA-Panvalet link edit control statements.

```
INCLUDE LIBSYS(PAM)
INCLUDE SYSLMOD(DYL280P)
ENTRY DYL280P
NAME DYL280P(R)
```

**Note:** You may have to replace INCLUDE LIBSYS(FAIR) with several INCLUDEs. See your CA-Librarian manual for what you may need. (Unresolved externals will occur when link editing the CA-Librarian interface.)

The following are CA-Librarian link edit control statements.

```
INCLUDE LIBSYS(FAIR)
INCLUDE SYSLMOD(DYL280L)
ENTRY DYL280L
NAME DYL280L(R)
```

Following the link of the interface, the COPYL/COPYP COBOL statements should operate correctly. If you run out of memory using COPYL/COPYP COBOL, apply one of the following patches to change the amount of memory available for buffers:

CA-Librarian	CA-Panvalet
NAME INQCOBCV FVCOPY	NAME INQCOBCV FVCOPY
VER 0B80 0000F000	VER 0B7C 0000F000
REP 0B80 yyyyyyyy	REP 0B7C yyyyyyyy

yyyyyyyy is the hexadecimal equivalent of the amount of memory to be released. The default is 60K.

The amount of memory required is the sum of the link edited size of DYL280L or DYL280P, and space equal to at least one block of your CA-Librarian or CA-Panvalet master file.

---

## Maintenance and Support

During the life of a version of VISION:Inquiry, PTFs, formerly known as System Modifications (SMs), are developed to enhance, maintain, and customize the product and components. Any problems that arise are fixed by PTFs (SMs), which are numbered in sequence as they are developed for each release, beginning with 101. There are other patches called APARs, formerly known as Restricted System Modifications (RSMs), that are special customizations to the product and do not apply to all sites. The user should always review the APAR description carefully before applying them to a system.

PTFs and APARs are identified using the following format:

IQnnnnn

where:

**IQ** indicates VISION:Inquiry engine

**nnnnn** is the Modification Number Identifier:

00051 to 00099 Numbers assigned to APARs, special patches

00101 to 00500 Numbers assigned to PTFs, general patches

Example: IQ00200

### Maintenance – Installing the PTFs and APARs

All PTFs and APARs are installed to VISION:Inquiry and its components under the control of SMP/E. The SMP/E process for handling PTFs and APARs has the following basic steps:

1. Record and save the PTF or APAR into the global zone using the RECEIVE command.
2. Use the APPLY command to install the PTF or APAR to the target libraries.
3. Use the ACCEPT command to install the PTF or APAR into the distribution libraries.

The PTFs are general modifications that are designed for all users and all systems. These should always be installed into VISION:Inquiry and its components in order to keep the system up to date. PTFs should be installed in both the Target and Distribution Libraries.

The APARs are special modifications that are designed for unique situations. The APARs do not apply to all users and systems. The PTFs and APARs supplied with the product tape are loaded to the IL.PREP.CNTL data set during the installation preparation. The member names start with PTF and APAR, respectively. The

control statements in these members contain comments for each item that describe the situation addressed by the PTF or APAR. Review the description of any APAR you are considering for your system. Contact Computer Associates Technical Support if you have any questions, concerns, or if you just need more information regarding an APAR. See [Contacting Computer Associates on page 1-12](#).

When installing APARs, there may be some time between the APPLY to the target libraries and the ACCEPT to the distribution libraries. You should take this time to evaluate whether the APAR satisfies the special need for your system. If you decide that the APAR is not appropriate, you can use an SMP/E RESTORE command to remove the APAR from the target libraries. Additionally, you can use an SMP/E REJECT command to remove the APAR for the global zone.

**Note:** Once you ACCEPT an element, such as APAR or PTF, into the distribution libraries, there is no direct method for restoring the previous version of an element in your target libraries.

The II.PREP.CNTL data set contains some model jobs for performing the various maintenance activities described above. Here are the member names and their functions:

JCL Member	Description
IQSMPE#A	RECEIVE a PTF or APAR into the Global Zone/Data sets.
IQSMPE#B	APPLY a PTF or APAR to the target libraries.
IQSMPE#C	ACCEPT a PTF or APAR to the distribution libraries.
IQSMPE#D	RESTORE (remove) a PTF or APAR from the target libraries.
IQSMPE#E	REJECT (remove) a PTF or APAR from the Global Zone/Data sets.

There are other Tools and Facilities that are available for invoking SMP/E commands and functions. Any of these will work because VISION:Inquiry only uses the standard SMP/E processes. The Systems Group at each site has their favorite tools and procedures, and any of those should work just fine.

# A

## Post-Installation Dialog

---

The Post-Installation step, described in [Chapter 2, “Installation”](#), can also be done using the TSO/ISPF dialog discussed in this Appendix and referenced as Post-Installation Dialog. The Post-Installation Dialog allows you to go through a series of panels and fill the information that is used to generate the jobs required to complete this step as opposed to edit the jobs in the Control library. Additionally, it creates a member that contains the macros needed to be added to your IMS system generation macros for the operation of the VISION:Inquiry.

The Post-Installation Dialog allows you to set up VISION:Inquiry test data and to modify most of the Post-Installation Dialog JCL and control statements to correspond to your production system.

- The installation panels referenced in this appendix require TSO and ISPF/PDF.
- It is essential to read [Chapter 2, “Installation”](#) in this guide before using the Post-Installation Dialog.
- It is recommended that you use both the worksheet and check list with the Post-Installation Dialog. The worksheet and check list (in [Chapter 2, “Installation”](#)) will facilitate understanding the VISION:Inquiry options in the installation procedure.

## How to Start the Post-Installation Dialog

To use the Post-Installation Dialog panels, you should be familiar with TSO and ISPF (Dialog Management Services). After completion of [Step 15 – RECEIVE and APPLY the Latest PTF SYSMODS into the Global Zone and Target Libraries on page 2-74](#) that builds and loads your VISION:Inquiry target libraries, copy the libraries II.TCVLPLIB, II.TCVLMLIB, II.TCVLSLIB, and II.TCVLCLST, to your installation’s corresponding ISPF libraries using the ISPF copy utility (3.3).

- The CLIST loaded from the tape has a fixed record and cannot be mixed with variable record CLISTs if you have any in your system. You should copy the members of the CLIST loaded from the tape to a variable record CLIST and then use it. The following settings are recommended:

```
DCB=(RECFM=VB,LRECL=255,BLKSIZE=1680),DSORG=PO,SPACE=(TRK,(2,1,10))
```

- Next, reallocate your ISPF libraries (logging on reallocates them). Within ISPF, choose Option 6 and enter the startup CLIST, CVLCSTRT to begin the Post-Installation Dialog.

## Post-Installation Dialog Tutorial

Each panel of the Post-Installation Dialog has online help. Press PF1 to access the Post-Installation Dialog Tutorial. [Figure A-1](#) shows the first page of the online Tutorial.

```
TUTORIAL ----- VISION:Inquiry PRODUCT TYPE AND FEATURES -----TUTORIAL
SELECTION ==>

          |-----|
          |  General Information  |
          | Product Type And Features |
          |-----|

This dialog generates the JCL required for post-install of VISION:Inquiry.
A series of panels are displayed. Each panel displays appropriate
defaults. The user completes each panel as it pertains to the
installation requirements. At the end of the dialog, JCL is generated.

This first panel presents the different options that may be used with
VISION:Inquiry. Choose the option, and everything needed for that
option of VISION:Inquiry will be automatically generated. Your choices
are VISION:Journey or FTS feature, or neither of the two options.

You must also specify whether your VISION:Inquiry system has a DB2
and/or VISION:Intraccess option or not.
The DB2 and VISION:Intraccess options are licensed separately.

(Continued On Next Panel - Press Enter)
```

Figure A-1 Tutorial - General Information

## Post-Installation Dialog Panels

The Post-Installation Dialog panels present the online post-installation instructions for VISION:Inquiry.

- The JCL generated by these panels is not identical to the JCL examples in this guide.
- The number and content of the panels, which you will complete, depend on your selection in the Introduction panel and your response to the DB2 or Intraccess option specification.  
Do not attempt to load any VISION:Journey, Intraccess, or DB2 option that you have not purchased.

The names of the panels are:

- VISION:Inquiry Product Type and Features panel or Introduction panel
- Libraries panel
- Processing Parameters First panel
- Processing Parameters Second panel
- Text Editor Parameters panel
- AQF Batch Submission Parameters panel
- VISION:Journey Parameters panel
- FTS Feature Generation Parameters panel
- FTS Feature and VISION:Journey Parameters panel
- DB2 Parameters panel
- System Database Parameters panel
- Sort Work Dataset Parameters
- AQF Map Set Changes panel
- Job Generation panel

[Figure A-2](#) shows the first panel of the Post-Installation Dialog. The VISION:Inquiry Product Type and Features Panel is hereafter referred to as the Introduction panel.

```
----- VISION:Inquiry PRODUCT TYPE AND FEATURES -----  
COMMAND ==>  
  
Installing VISION:Inquiry for CICS  
Enter the option you are installing at this time:  
    1 VISION:Inquiry with no FTS feature or VISION:Journey  
    2 VISION:Inquiry with FTS feature  
    3 VISION:Inquiry with VISION:Journey  
Intracess Option? (Licensed Separately) ==> NO    ( NO, YES )  
  
DB2 Option? (Licensed Separately) ==> NO    ( NO, YES )  
  
ENTER INSTALLATION'S HIGH LEVEL QUALIFIER(S):  
    High Level Qualifier(s) ==> II  
Press END To Exit
```

Figure A-2 Introduction Panel

When using the Post-Installation Dialog, you can:

- Review the previous panel by pressing the End (PF3) key; or
- Go forward to the next panel by pressing Enter.

You must complete each panel in order. For instance, you may not complete the first and second panels and then go forward to the last panel (Job Generation).

```
----- LIBRARIES -----
COMMAND ==>
ENTER THE DATA SET NAMES USED AT YOUR INSTALLATION:

Macro Library          ==> II.TCVLMAC
Source Library         ==> II.TCVLSRC
Program Load Library   ==> II.TCVLPGM
Cntl Library           ==> II.TCVLCNTL
Map Image Library      ==> II.IMAGE
NOTE: IF IMAGE LIBRARY NOT REQUIRED, ERASE DEFAULT LIBRARY

CICS Macro Library     ==> CTS130.CICS530.SDFHMAC
CICS Load Library      ==> CTS130.CICS530.SDFHLOAD

IMS Resident Library   ==> IMSVS.RESLIB
NOTE: IF NO DL/I, ERASE THE DEFAULT IMS RESIDENT LIBRARY
DB2 Link Library       ==> DSN510.SDSNLOAD
DBRM Supplied Library  ==> DSN510.RUNLIB.LOAD

Press END For Prior Panel  ENTER To Save
```

Figure A-3 Libraries Panel

DB2 Link Library and DBRM Supplied Library lines in [Figure A-3](#) only appear if you select the DB2 option (DB2 Option? ==>YES) in the Introduction panel (see [Figure A-2 on page A-4](#)). For the DB2 Option? ==>YES, if the source library you choose on this panel does not contain the DB2 DBRM member, INQDBRM, an error message is issued.

When you press Enter, the Post-Installation Dialog saves selections and displays the next panel. These selections become statements in the post-installation JCL.

Returning to a previous panel by pressing the End (PF3) key cancels the previously saved selections. The message NOT SAVED appears in the top right corner.

```
----- PROCESSING PARAMETERS -----  
COMMAND ==>  
  
    ENTER ANY MODIFICATIONS REQUIRED AT YOUR INSTALLATION:  
Native Transaction Name    ==> IQIO      ( Please define in CSD file )  
Front-end Module Name     ==> INQIO    ( Please define in CSD file )  
Main Module Name          ==> IXXSTRT  ( Please define in CSD file )  
Sort Module Name          ==> IXCSORT  ( Please define in CSD file )  
Sort Size ( # of records ) ==> 125    ( Minimum Size = 1 )  
Sort Technique             ==> MS      ( MS, TS, or VS )  
AQF Transaction Name      ==> IQBE    ( Please define in CSD file )  
AQF Main Module Name      ==> IDBI01  ( Please define in CSD file )  
Intraccess Front-end Module Name ==> INQINTRA ( Please define in CSD file )  
Press END For Prior Panel  ENTER To Save
```

Figure A-4 Processing Parameters First Panel

The Intraccess Front-end Module Name in [Figure A-4](#) only displays if you select Intraccess option (Intraccess Option?==>YES) in the Introduction panel (see [Figure A-2](#) on page A-1).

```
----- PROCESSING PARAMETERS -----  
COMMAND ==>  
  
  ENTER ANY MODIFICATIONS REQUIRED AT YOUR INSTALLATION:  
  
Default Mapset Name      ==> INQMAP2  ( Please define in CSD file )  
System Database Type     ==> DL/I     ( DL/I, VSAM or DB2 )  
Demo Database Type      ==> DL/I     ( DL/I, VSAM or DB2 )  
Demo Volume Serial      ==>          ( Optional if Demo type is DB2 )  
Output Destination      ==> TERM     ( TERM = Terminal ID  
                                         OPER = Operator ID )  
Unit Name                ==> SYSDA  
Terminal Definition      ==> TERM     ( TERM = Terminal ID  
                                         USER = User ID  
                                         OPER = Operator ID )  
  
Press END For Prior Panel  ENTER To Save
```

Figure A-5 Processing Parameters Second Panel

See the [Index](#) to find more information on such topics as the system database type. The term “Demo Database” (seen in the Post-Installation Dialog) is the same as the terms “test data” and “test databases” used in this document.

```
----- TEXT EDITOR PARAMETERS -----
COMMAND ==>

ENTER ANY MODIFICATIONS REQUIRED AT YOUR INSTALLATION:

Text Editor Transaction Name ==> IQED      ( Please define in CSD file )

Text Editor Load Module Name ==> INQEDIT   ( Please define in CSD file )

Text Editor Main Mapset Name ==> IQEMAPM   ( Please define in CSD file )

Text Editor Help Mapset Name ==> IQEMAPH   ( Please define in CSD file )

Number of Help Pages          ==> 7

Edited Inquiry Maximum Length ==> 1440

Press END For Prior Panel  ENTER To Save
```

Figure A-6 Text Editor Parameters Panel

See the [Index](#) to find more information about the Text Editor facility.

```
----- AQF BATCH SUBMISSION PARAMETERS -----
COMMAND ==>

ENTER ANY MODIFICATIONS REQUIRED AT YOUR INSTALLATION:
NOTE: IF THERE ARE SYSTEM PARAMETER DEFAULTS, PARAMETERS BELOW
MAY BE LEFT BLANK.

Job Class          ==>

Region Size        ==>                    ( Must be 4 digits long
                                           in kilobytes)

Message Class      ==>

Message Level      ==>                    ( (0,0), (0,1), (1,0),
                                           (1,1), (2,0), or (2,1) )

Priority           ==>

RACF/ACF2 User     ==>

RACF/ACF2 Password ==>                    ( Password not displayed )
FOR VERIFICATION ENTER PASSWORD AGAIN:
RACF/ACF2 Password ==>

Press END For Prior Panel  ENTER To Save
```

Figure A-7 AQF Batch Submission Parameters Panel

See the [Index](#) to find more information about the AQF Batch Submission facility.

```
----- VISION:Journey PARAMETERS -----  
COMMAND ==>  
  
    ENTER ANY MODIFICATIONS REQUIRED AT YOUR INSTALLATION:  
  
VISION:Journey installed for VISION:Results ==> YES  ( YES, NO )  
  
  
  
Press END For Prior Panel  ENTER To Save
```

Figure A-8 VISION:Journey Parameters Panel

This panel appears only if you have selected VISION:Journey installation (selection 3 on the Introduction Panel). VISION:Journey is a separately licensed option.

```
----- VISION:Journey PARAMETERS -----  
COMMAND ==>  
  
    ENTER ANY MODIFICATIONS REQUIRED AT YOUR INSTALLATION:  
  
VISION:Journey installed for VISION:Results ==> NO  ( YES, NO )  
  
Load module name(s):  
  
First module name    ==> DYLC0SS    ( Please define in CSD file )  
Second module name  ==> DYLC010    ( Please define in CSD file )  
Third module name   ==> DYLC020    ( Please define in CSD file )  
Fourth module name  ==> DYLC030    ( Please define in CSD file )  
  
Press END For Prior Panel  ENTER To Save
```

Figure A-9 Response from NO Selection on VISION:Journey Parameters Panel

This panel appears only if you have selected VISION:Journey option (selection 3 on the Introduction Panel). VISION:Journey is a separately licensed option.

The FTS Feature and VISION:Journey Parameters panel (the next panel) contains the transaction identifier associated with the “First module name . .” line module.

The transaction identifier associated with the “Second module name . .” line module is DYDL which should be defined in CICS System Definition (CSD) file.

```
----- VISION:Journey PARAMETERS -----
COMMAND ==>

  ENTER ANY MODIFICATIONS REQUIRED AT YOUR INSTALLATION:

VISION:Journey installed for VISION:Results ==> YES ( YES, NO )

Load module name(s) :

First module name      ==> DYLCOSS      ( Please define in CSD file )

Press END For Prior Panel  ENTER To Save
```

Figure A-10 Response from YES Selection on VISION:Journey Parameters Panel

This panel appears only if you have selected VISION:Journey option (selection 3 on the Introduction Panel). VISION:Journey is a separately licensed option.

The FTS Feature/VISION:Journey Parameters panel ([Figure A-11 on page A-11](#)) contains the transaction identifier associated with the “First module name . .” line module in [Figure A-10](#).

If you specify “YES” on the previous panel, the DDIUDF parameter of the installation macro of VISION:Journey for VISION:Results must match with the ddname of the VSAM download data set specified on Initial VISION:Journey Parameters panel of the Installation Dialog.

```
----- VISION:Journey/FTS Feature PARAMETERS -----  
COMMAND ==>  
  
  ENTER ANY MODIFICATIONS REQUIRED AT YOUR INSTALLATION:  
  
Transaction Code Prefix ==> FTS          ( 1 will be appended to the  
                                         prefix. Please define in CSD file)  
EMS Mapset Name          ==> IDFTSP7    ( Please define in CSD file )  
  
Download dataset Type    ==> VSAM  
  
  ENTER ANY ADDITIONAL MODIFICATIONS TO THE VSAM DOWNLOAD DATA SET:  
NOTE: IF VSAM FILE NOT PASSWORD PROTECTED, PASSWORD NOT REQUIRED.  
  
Volume Serial            ==>  
DD Name                  ==> VSFTSDS  
Dataset Name             ==> II.VS.VSFTSDS  
Password                 ==>          ( Password not displayed )  
  FOR VERIFICATION ENTER PASSWORD AGAIN:  
Password                 ==>  
  
Press END For Prior Panel  ENTER To Save
```

Figure A-11 VSAM Response FTS Feature and VISION:Journey Parameters Panel (FTS Feature and VISION:Journey VSAM Download Data Set)

This panel appears if you have selected Install option 3 on the Introduction panel for the VISION:Journey for Windows installation. VISION:Journey is a separately licensed option.

In the “Transaction Code Prefix . .” line shown in [Figure A-11](#), number 1 will be appended to the transaction prefix for VISION:Journey.

```
----- DB2 PARAMETERS -----  
COMMAND ==>  
  
ENTER ANY MODIFICATIONS REQUIRED AT YOUR INSTALLATION:  
  
Subsystem ID          ==> DSN  
Plan Name             ==> II  
Version and Release   ==> 51  
  
Press END For Prior Panel  ENTER To Save
```

Figure A-12 DB2 Parameters Panel (Page 1 of 3)

This panel is only selected if no database type was selected as DB2, such as Demo, System, and Download databases.

DB2 users do not need to enter SPUFI to issue SQL statements; such as GRANT. These statements have been inserted into the four jobs created by the Installation Dialog.

```

----- DB2 PARAMETERS -----
COMMAND ==>

ENTER ANY MODIFICATIONS REQUIRED AT YOUR INSTALLATION:

Subsystem ID          ==> DSN
Plan Name             ==> II
Version and Release   ==> 51
DATABASE Name         ==> IIDB

Authid Name           ==> DYLIHQ

Press END For Prior Panel  ENTER To Save

```

Figure A-13 DB2 Parameters Panel (Page 2 of 3)

This panel only displays if the demo database type has been selected as DB2 on Processing Parameters Panel and the System Database is not DB2.

```

----- DB2 PARAMETERS -----
COMMAND ==>

ENTER ANY MODIFICATIONS REQUIRED AT YOUR INSTALLATION:
NOTE: SYSTEM'S AUTHID ALSO USED AS THE FIRST QUALIFIER
      FOR THE DEMO TABLE NAMES.

Subsystem ID          ==> DSN
Plan Name             ==> II
Version and Release   ==> 51
DATABASE Name         ==> IIDB

System DB Table Name  ==> DYLIHQ.IISYSTEM          ( Authid.Name )
System DB Index Name  ==> DYLIHQ.IIINDEX           ( Authid.Name )

Press END For Prior Panel  ENTER To Save

```

Figure A-14 DB2 Parameters Panel (Page 3 of 3)

The panel shown in [Figure A-14 on page A-13](#) only appears if the system database has been selected as DB2 on Processing Parameters panel.

```

----- SYSTEM DATA BASE PARAMETERS -----
COMMAND ==>

ENTER ANY MODIFICATIONS TO DL/I SYSTEM DATA BASE:
NOTE: 1ST DATASET QUALIFIER ALSO USED FOR DEMO DS NAMES.

DBD Name           ==> IXXDB
Device Type        ==> 3390
Volume Serial      ==>
DD Name            ==> IXXDB
Dataset Name       ==> II.IXXDB

Press END For Prior Panel  ENTER To Save
    
```

Figure A-15 System Database Parameters Panel (Page 1 of 2)

This panel only appears if the system database has been selected as DL/I on the Processing Parameters Second panel.

```

----- SYSTEM DATA BASE PARAMETERS -----
COMMAND ==>

ENTER ANY MODIFICATIONS TO VSAM SYSTEM DATA BASE:
NOTE: 1ST DATASET QUALIFIER ALSO USED FOR DEMO DS NAMES.
      IF VSAM FILE NOT PASSWORD PROTECTED, PASSWORD NOT REQUIRED.

Volume Serial      ==>
DD Name            ==> IXXDB
Dataset Name       ==> II.IXXDB
ENQ                ==> NO           ( Yes or No )
Password           ==>             ( Password not displayed )
FOR VERIFICATION ENTER PASSWORD AGAIN:
Password           ==>

Press END For Prior Panel  ENTER To Save
    
```

Figure A-16 System Database Parameters Panel (Page 2 of 2)

This panel only appears if the system database has been selected as VSAM on the Processing Parameters Second panel.

```

----- SORT WORK DATASET PARAMETERS -----
COMMAND ==>

ENTER ANY MODIFICATIONS TO VSAM WORK DATASET FOR ONLINE SORT:

  DD Name                ==> SORTWORK
  Dataset Name           ==> II.VS.SORTDS
  Volume Serial          ==>
  Primary Space in Records ==> 500
  Secondary Space in Records ==> 5

Press END For Prior Panel  ENTER To Save

```

Figure A-17 Sort Work Data Set Parameters Panel

This panel only appears if the sort technique has been selected as VS on Processing Parameters first panel.

```

----- AQF MAPSET CHANGES -----
COMMAND ==>

ENTER MODIFICATIONS TO AQF MAPSET NAMES AND DEFINE IN CSD FILE:
AQF Entry Screen                ==> IDBEM01
AQF Data Base Selection         ==> IDBEM02
AQF Field Selection             ==> IDBEM03
AQF Define Temporary Fields     ==> IDBEM04
AQF Define IF Conditions        ==> IDBEM05
AQF Display Controls            ==> IDBEM06
AQF Stored Query Selection      ==> IDBEM07
AQF Batch Submission Screen     ==> IDBEM13
AQF Reentry Screen              ==> IDBEM10
AQF Help Entry Screen           ==> IDBEH01
AQF Help Data Base Selection    ==> IDBEH02
AQF Help Field Selection        ==> IDBEH03
AQF Help Define Temporary Fields ==> IDBEH04
AQF Help Define IF Conditions   ==> IDBEH05
AQF Help Display Controls       ==> IDBEH06
AQF Help Stored Query Selection ==> IDBEH07
AQF Help Batch Submission Screen ==> IDBEH13
AQF Help Reentry Screen         ==> IDBEH10
AQF Error Messages              ==> IDBERRS
Press END For Prior Panel  ENTER To Save

```

Figure A-18 AQF Map Set Changes Panel

Press Enter. You will wait approximately 30-40 seconds while the Installation Dialog generates your installation JCL. When the JCL has been successfully generated, the Installation Dialog forwards you to the Job Generation panel, [Figure A-19 on page A-16](#).

```

----- JOB GENERATION -----
COMMAND ==>

THE FOLLOWING JOBS HAVE BEEN CREATED AS MEMBERS WITHIN THE
AMAME02.CICS.BASE.CCVL650.TCVLCNTL LIBRARY:

Job 1  ==> IQJOB1   ( Creates VISION:Inquiry load modules )
Job 2  ==> IQJOB2   ( Creates VISION:Inquiry BMS screen maps )
Job 3  ==> IQJOB3   ( Creates the system and/or download data base )
Job 4  ==> IQJOB4   ( Defines and loads the demo data sets )
Job 5  ==> IQJOB5   ( Contains the required CICS entries )

Press END Or ENTER To Return To The First Panel
    
```

Figure A-19 Job Generation Panel

Five jobs are generated by the Installation Dialog.

- Jobs 1, 2, and 3 must be run for post-installation of VISION:Inquiry and its options.
- Job 4 (installation of the VISION:Inquiry demo data sets) is optional.
- Job 5, IQJOB5, contains:
  - The CICS entries and
  - The DD statements required for the CICS start-up JCL based on the information entered on the panels of the installation dialog.

**Notes:**

- Jobs 1 through 4 must be run in consecutive order. That is, Job 2 cannot be run before Job 1. Job 3 cannot be run before Job 2.
- You can treat these jobs as sample JCL, modifying them or using them to create JCL specific to your installation.

Before executing the jobs created by the dialog, customize the JOB statement. Read the following notes and add any customization required by your installation.

- Job 1 will create 3 load modules in the program library, The online processing parameters, the AQF batch job submission parameters, and the AQF BMS mapset names modules. You must move these modules to your online VISION:Inquiry library.
- The BMS maps generated in Job 2 will have the suffix “M.”
- Member IQJOB5 contains:
  - The macros to define VISION:Inquiry resources to the CICS tables.
  - The DD statements to be added the CICS start-up JCL.
  - The commands input to the DFHCSDUP utility to define resources to the CICS System Definition File (CSD).
  - The macros for IMS(DL/I) databases if using IMS system and/or demo databases.
- For DL/I users, all the DL/I demo DBD names in Job 3 are the default names. The PSB names used by utility programs are the default names, IIPSB01, IIPSB02, and IIPSB03 in Job 3.
- For VSAM demo files, the ddnames in Job 4 are the default names. The data set names in Job 4 are the default names with the high qualifier specified for the System Database data set name as a prefix.
- For DL/I demo files, the data set names in Job 4 are the default names with the high level qualifier specified for the System Database data set name as a prefix. The device type and the DBD names in Job 3 and the ddnames in Job 3 and Job 4 are the default values.
- If you are using DL/I on your system, the last step in Job 3 is the ACBGEN which builds the PSBs only. If the DBDs generated by Job 3 are replacing the existing DBDs in your DBDLIB, a BUILD DBD control statement must be added for the DBDs to the ACBGEN step.
- The dialog panels allow you to create only one type of demo database or file (such as DL/I, DB2, or VSAM). If you want to create a combination of demo types, do the following:
  - Rename Job 4 and Job 5 (IQJOB4 and IQJOB5) created by the dialog panels in the control library II.TCVLCNTL. If your first selection for demo type was DL/I, rename Job 3 IQJOB3.
  - Rerun the post-installation steps, selecting the new demo type.

- If your first selection for demo type was DL/I, merge the DBDGENS for the DL/I demo databases (PLANT and SKILL) and the PSBGENS for loading and accessing the DL/I demo databases from the old (renamed) Job 3 to the existing Job 3.
- Copy all but the last step of the old (renamed) Job 4 to the existing Job 4. Merge all the MAPGEN group statements for the last step of the old (renamed) Job 4 to the existing Job 4 and also change the DIRECTORY statement to include all the map names.
- Execute the created jobs, 1 through 4.
- Compare the old (renamed) Job 5 to the existing Job 5 and remove the duplicate entries. Add the entries of both Jobs to CICS.
- Job 3 and Job 4 use the module, "DSNTIAD" in DSNvr0.RUNLIB.LOAD library (vr is the DB2 version and release specified in DB2 parameters panel) to process SQL statements in batch mode (such as GRANT or CREATE). If the library name in your installation has been changed, make the same change in Job 3 and Job 4.
- The index names for the demo DB2 tables generated in Job 4 are the default names. The demo DB2 table names generated in Job 4 have the default names with the prefix based on the following conditions:
  - Same prefix as the system database name, if it is DB2.
  - Same prefix as the FTS feature download data set name, if it is DB2.
  - The authorization ID specified on the DB2 panel.
- The value of all the default (supplied) names can be found in [Installation Worksheets on page 2-1](#).

[Figure A-20](#) below shows the tutorial panels for the job generation panel. The tutorial panels display information about the job steps created in the generated four jobs.

```

TUTORIAL ----- JOB GENERATION -----TUTORIAL
SELECTION ==>

          |-----|
          | Job Generation |
          |-----|

This panel displays the names of the five jobs created as members within the
Cntl library specified on the VISION:Inquiry Libraries panel. The first
four jobs must be run in the order presented and only the fourth job is
optional. The fifth member contains the necessary CICS entries and the
jcl needed to be added to the CICS startup JCL for VISION:Inquiry
execution based on the options selected on the dialog panels. For the first
Four jobs, all the steps are followed by abend steps that abort the job with
an intentional S806. These abend steps execute only if the previous steps
complete with an unacceptable return code. The conditional parameter on each
abend step determines what is acceptable on the previous step. The jobs
use IBM supplied procs (DBDGEN, PSBGEN, DLIBATCH, ACBGEN). These
procs may require JCL modifications if your company has changed these procs.
Following is a brief description of each job:

(Continued On Next Panel - Press Enter)

TUTORIAL ----- JOB GENERATION -----TUTORIAL
SELECTION ==>

Job 1: JCL required to assemble and link the VISION:Inquiry parameter
modules used for processing the native VISION:Inquiry, AQF, and
Text Editor.
Each step within the job is documented. The JCL generated is
dependent on the features requested. Following is the JCL generated:

b) CVLCPARM - Specifies the parms used in CICS processing.
c) CVLCAMOD - Specifies the BMS mapset names for AQF panels.
d) CVCCAJPR - Specifies the parms used for AQF batch job submission.

(Continued On Next Panel - Press Enter)

```

Figure A-20 Tutorial - Job Generation Panel (Page 1 of 4)

```

TUTORIAL ----- JOB GENERATION -----TUTORIAL
SELECTION ==>

Job 2: JCL required to assemble and link the BMS mapsets.
Following is the JCL generated:

    a) CIFORMAT - A proc that assembles and links the BMS mapsets.  If an
       image library exists, it also creates an image of all the
       BMS maps.

Job 3: JCL required to define, initialize and load the System and Download
datasets.  This job also assembles and links the data base definitions
(DBDs), and program specification blocks (PSBs) if any of those datasets
are defined as DL/I.  If your product has DB2 = YES, the binds and grants
to the DB2 plan is also included.  The JCL generated is dependent on the
products requested.  The JCL steps are divided into the three possible
dataset types - VSAM, DL/I, and DB2.

(Continued On Next Panel - Press Enter)

```

---

```

TUTORIAL ----- JOB GENERATION -----TUTORIAL
SELECTION ==>

For VSAM datasets, the following JOB steps may be generated:
a) DLETVSYS - Deletes the System data base cluster.
b) DEFINE   - Defines the System dataset cluster.
c) IIINIT   - Initializes the System dataset.
d) IIGEN    - Loads the standard error messages and system vocabulary.
e) DLETSRT  - Deletes the VSAM sort work dataset.
f) VSAMSRT  - Defines and initializes the VSAM sort work dataset.
g) DLETVFVS - Deletes the VISION:Journey/FTS VSAM Download dataset.
h) VSAMFVS  - Defines and initializes the Download dataset used by
              the FTS feature and VISION:Journey.

For DL/I datasets the following JOB steps may be generated:
a) DBDGEN(S) - Assembles and links the DBDs for the data bases.
b) PSBGEN(S) - Assembles and links the PSBs for the databases.
               PSBs are documented within the generated JCL.
c) DLETESYS  - Deletes the System data base cluster.
d) DFINESYS  - Defines the System data base cluster.
e) IIINIT    - Initializes the System data base.
f) IIGEN     - Loads the standard error messages and system vocabulary.

(Continued On Next Panel - Press Enter)

```

Figure A-20 Tutorial - Job Generation Panel (Page 2 of 4)

TUTORIAL ----- JOB GENERATION -----TUTORIAL  
SELECTION ==>

- g) DLETEFTS - Deletes the FTS feature download data base cluster.
- h) DFINEFTS - Defines the FTS feature download data base cluster.
- i) INITFTS - Initializes the FTS feature download data base.
- j) ACBGEN - Builds the DL/I control blocks within the ACB library.

For DB2 datasets, the following JOB steps may be generated.

- a) BIND - Binds the VISION:Inquiry DB2 plan.
- b) GRANTDB2 - Grants execute on VISION:Inquiry DB2 plan to public.
- c) CREATE - Creates the table and index for the System data base.
- d) GRANTTAB - Grants System data base to public.
- e) IIINIT - Initializes the System data base.
- f) IIGEN - Loads the standard error messages and system vocabulary.
- g) BINDFTS - Binds the FTS feature plan.
- h) GRANTPLN - Grants execute on FTS feature plan to public.
- i) DB2FTS - Creates table and index for FTS feature download table.
- j) GRANTFTS - Grants access to FTS feature download table to public.

(Continued On Next Panel - Press Enter)

TUTORIAL ----- JOB GENERATION -----TUTORIAL  
SELECTION ==>

Job 4: JCL required to define, initialize and load the Demo datasets. This job also defines the Demo datasets, terminals, and the VISION:Journey/ FTS feature Download File to the System data base. Definitions supplied to the System data base will be for the dataset type selected. This job is optional but recommended. The following JOB steps may be generated:

- a) DLETVSMP - Deleted the VSAM demo datasets.
- b) VSAMDEMO - Creates and initializes vanilla VSAM Demo datasets.
- c) VSMHDEMO - Creates hierarchical VSAM Demo datasets.
- d) IVDEMO - Loads the hierarchical VSAM Demo datasets.
- e) DLETISMP - Deletes the DL/I Demo data base clusters.
- f) DEFINE - Defines the DL/I Demo data base clusters.
- g) IIDEMO - Initializes and loads the DL/I Demo data bases. DBDs and PSBs created in previous job.
- h) CREATE - Creates and initializes the DB2 DEMO tables, views, and indexes
- i) GRANT - Grants the DB2 Demo tables.
- j) IIGEN - Generates the terminals, Demo dataset definitions, and Download File definition needed to be supplied to the System data base. Definitions are included only for files/options selected.

(Continued On Next Panel - Press Enter)

Figure A-20 Tutorial - Job Generation Panel (Page 3 of 4)

```
TUTORIAL ----- JOB GENERATION -----TUTORIAL
SELECTION ==>

Job 5: CICS entries and CICS startup JCL required for execution of
VISION:Inquiry and its option(s). The following shows the JCL and
the CICS entries which will be generated in job 5.

a) DCT - Entries for extra partition datasets.
b) STARTUP JCL - List of the JCL to be included in the CICS
startup JCL for VISION:Inquiry execution such as
DD statements for program library.
c) DFHCSDUP JCL - The JCL to define entries in the CSD file.
d) DBCTL - The macros for DL/I data bases using DBCTL facility.
e) DBCTL - The dynamic allocation macros for DL/I data bases.
f) DBCTL - The dd statements for DL/I data bases. Use either
dynamic allocation macros in step "e" of the dd statements
in this step.

Enter END or press PF3 to continue dialog.
```

Figure A-20 Tutorial - Job Generation Panel (Page 4 of 4)

```
----- ISPF DIALOG ERROR -----
COMMAND ==>

*****
*
*   OUTPUT OVERFLOW
*   LINE TO BE WRITTEN > DATA SET LRECL (0), IMSJOB4 RECORD-26
*
*
*   File tailoring input line:
*   /* THIS MEMBER FOR EACH SUB-SYSTEM AND USE THE &SOURCE MEMBER IXBIDENT
*
*
*   Enter HELP command for further information regarding this error.
*   Press ENTER key to terminate the dialog.
*
*
*
*
*****
```

Figure A-21 Error Message from the ISPF Editor

[Figure A-21](#) is an example of an ISPF error message. Check your IBM ISPF manuals for a list of error messages and diagnostics.



# B

## VISION:Inquiry Target and Distribution Libraries

This appendix contains the information about the content of the VISION:Inquiry target and distribution libraries. It also lists the members in the source and control libraries with a brief description about each member.

The following table shows the default name of the target and distribution libraries:

<b>Target Library Name</b>	<b>Distribution Library Name</b>	<b>Contains</b>
II.TCVLCNTL	II.DCVLCNTL	Sample JCLs for Post-Installation and maintenance of the system
II.TCVLMAC	II.DCVLMAC	Macros for customization, exit routines, and building BMS screens
II.TCVLPGM	II.DCVLPGM	VISION:Inquiry load modules
II.TCVLSRC	II.DCVLSRC	Source for various control blocks, data for test systems, source for BMS screens, and error messages, and vocabulary
II.TCVLOBJ	II.DCVLOBJ	VISION:Inquiry object modules in the link-edited format
II.TCVLCLST	II.DCVLCLST	CLISTs for Post-Installation Dialog
II.TCVLMLIB	II.DCVLMLIB	Messages for Post-Installation Dialog
II.TCVLPLIB	II.DCVLPLIB	Panels for Post-Installation Dialog
II.TCVLSLIB	II.DCVLSLIB	Skeleton JCLs for Post-Installation Dialog

## Source Library

The source library contains the following members

CIPSB	Sample PSB for executing inquiries against the test databases
CIPSB	AQF Sample PSB for AQF accessing DL/I system database
CUYGCHK	IIGEN checkpoint interval control module
CUYSHDG	Utility program headings
CUYSHMG	Hard-coded messages
CUYXEMSG	Text Editor error messages
CVLCAJPR	AQF job submission parameters
CVLCAMOD	AQF BMS mapset names
CVLCPARM	VISION:Inquiry online processing parameters
DB2CATA	DB2 catalog program
DJCSECT	VISION:Journey load module names and download data set ddname CSECT
IDBEHnn IDBEMnn IDBERRS	Source for generating BMS maps for AQF
IDFTSP7	Source for generating BMS map for VISION:Journey
IIDATA	Data for loading the IMS (DL/I) test databases, PLANT and SKILL
IIDBDDM	Sample DBD for the PLANT test database
IIDBDDS	Sample DBD for the SKILL test database
IIDMGEN	Sample IIGEN statements that describe all test databases
IERROR	Standard system error messages
IIPSB	Sample PSB for inquiries against the test IMS (DL/I) databases
IIPSB01	Sample PSB for initializing an IMS (DL/I) system database using the IINIT utility
IIPSB02	PSB for maintaining an IMS (DL/I) system database using the IIGEN, IXUIQRY, IXULOAD, IXUSQRY, IXUSTAT, and IXUUNLD utilities

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IIPSB03	Sample PSB for loading the IMS (DL/I) test databases using IIDEMO
IIVOCAB	Standard system vocabulary
INQIO	VISION:Inquiry front-end program in CICS (online processing)
INQMAP1 INQMAP2	Source for generating BMS maps for native VISION:Inquiry
IQEMAPH IQEMAPM	Source for generating BMS maps for Text Editor facility (main panel and help panel)
IXBIDENT	System identification module for the batch inquiry program
IXCUSDL	Online delete sample user exit (invoked by IXCUSRT)
IXCUSECS	Online security sample user exit
IXCUSRTS	Online sort sample user exit
IXSIDENT	System identification module for the online inquiry program and with VISION:Journey
IXXDB	Sample DBD for IMS (DL/I) system database
IXXUONCP	Sample user conversion exit in PL/I
IXXUONS	Sample user conversion exit in Assembler
IXXUFNCS	Sample user function exit
IXXUINS	Sample user input exit
IXXUOUTS	Sample user output exit
IXXUSECS	Sample user security exit
VSDATAF	Data used to initialize the VISION:Journey VSAM download data set
VSDATAH VSDATAK VSDATAR	Data used to load the VSAM test data sets
VSDATAS	Data used to initialize the sort work data set

## Control Library

The control library contains the following members

ASMCAJPR	JCL to assemble the AQF job submission parameters, CVLCAJPR
ASMCAMOD	JCL to assemble the AQF BMS mapset names module, CVLCAMOD
ASMCHKI	JCL to assemble the IIGEN checkpoint interval control module, CUYGCHK
ASMCPARM	JCL to assemble the VISION:Inquiry online processing parameters, CVLCPARM
ASMEMSG	JCL to assemble the Text Editor messages, CUYXEMSG
ASMHMSG	JCL to assemble the hard-coded messages module, CUYSHMG
ASMINQIO	JCL to assemble the VISION:Inquiry front-end program, INQIO
ASMSHDG	JCL to assemble the utility headings module, CUYSHDG
CICSJCL	Sample JCL to be included in CICS startup JCL
DB2BIND	TSO commands to bind the DB2 plan
DB2CATL	JCL to run the DB2 catalog program DB2CATA
DB2CREAT	SPUFI input to create and index a DB2 system database
DB2DEMO	SPUFI input to create and load the DB2 test tables and views
DB2ELEM	JCL to define the test tables/views to a DB2 system database using the IIGEN utility
DB2INDEX	SPUFI input to create the index for DB2 test tables
DB2INIT	JCL to initialize a DB2 system database using the IINIT utility
DB2IQRY	JCL to convert stored inquiries and functions for a DB2 system database using the IXUIQRY utility
DB2LOAD	JCL to reload a DB2 system database using the IXULOAD utility
DB2SQRY	JCL to unload stored inquiries and functions from a DB2 system database using the IXUSQRY utility

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DB2STAT	JCL to execute the IXUSTAT utility for a DB2 system database
DB2UNLD	JCL to unload a DB2 system database using the IXUUNLD utility
IIPSBDBD	JCL for DBD, PSB, and ACB generations
IMSCOBL	JCL to run COBOL converter program for IMS (DL/I) databases
IMSDemo	JCL to allocate and load the IMS (DL/I) test databases, PLANT and SKILL
IMSELEM	JCL to define the test databases to an IMS (DL/I) system database using the IIGEN utility
IMSINIT	JCL to allocate and initialize an IMS (DL/I) system database using the IINIT utility
IMSIQRY	JCL to convert stored inquiries and functions for an IMS (DL/I) system database using the IXUIQRY utility
IMSLOAD	JCL to reload an IMS (DL/I) system database using the IXULOAD utility
IMSSQRY	JCL to unload stored inquiries and functions from an IMS (DL/I) system database using the IXUSQRY utility
IMSSTAT	JCL to execute the IXUSTAT utility for an IMS (DL/I) system database
IMSUNLD	JCL to unload an IMS (DL/I) system database using the IXUUNLD utility
INQCSDUP	JCL to define VISION:Inquiry entries to the CICS System Definition (CSD) file using DFHCSDUP utility of CICS
IQDB2CSD	JCL to define the DB2 option entries of the VISION:Inquiry to the CICS System Definition (CSD) file using DFHCSDUP utility of CICS
IQBATD	JCL to run batch inquiries in IMS (DL/I) environment
IQBATD 2	JCL to run batch inquiries to access DB2 tables in IMS (DL/I) environment
IQBATV	JCL to run batch inquiries in non-IMS (DL/I) environment
MAPASM	JCL and PROC to build BMS maps
VSAMCOBL	Sample JCL to run COBOL converter program for VSAM data sets

VSAMDEMO	JCL to allocate and load the VSAM test data sets, VSPLANT and VSSKILL
VSAMELEM	JCL to define the test databases in a VSAM system database using the IIGEN utility
VSAMINIT	JCL to allocate and initialize a VSAM system database using the IINIT utility
VSAMIQRY	JCL to execute the IXUIQRY utility for a VSAM system database
VSAMLOAD	JCL to reload a VSAM system database using the IXULOAD utility
VSAMSQRY	JCL to execute the IXUSQRY utility for a VSAM system database
VSAMSTAT	JCL to execute IXUSTAT utility for a VSAM system database
VSAMUNLD	JCL to unload a VSAM system database using the IXUUNLD utility
VSMFTSCL	Sample JCL to execute the IFUCLEN cleanup utility for the VISION:Journey VSAM download data set
VSMFTSIN	Sample JCL to allocate and initialize the VISION:Journey VSAM download data set
VSMFTSRE	JCL to reorganize the VISION:Journey VSAM download data set to eliminate the CI/CA (Control Interval/Control Area) splits
VSMHDEMO	JCL to allocate and load the VSAM test data sets, VSHPLANT and VSHSKILL
VSMSTRIN	Sample JCL to allocate and initialize the VSAM sort work data set VS.SORTDS

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