



Installation Guide

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Chapter 1: Getting Started

This installation guide is to assist in the installation of InfoQuest with COMUS and in the setup of the Business Information System (BIS) program interface of InfoQuest. Since the first part of the installation process involves using COMUS, it is recommended that the COMUS User Reference Manual be consulted. Also, since parts of this installation require BIS coordination activities (only required when installing the BIS-based InfoQuest), the 1100 Series BIS Coordinator's Reference is recommended as a supplemental reference.

1.1 Using the InfoQuest Installation Guide

The InfoQuest Installation Guide is written for the person needing to install InfoQuest with COMUS and the person responsible for InfoQuest Maintenance and BIS coordination.

1.2 Special Conventions Used in This Guide

The following conventions are used throughout this manual:

- Changes to this document since its last publication are marked with a change bar (an elongated vertical bar) as shown to the right of this paragraph.
- Important notes and warnings are encased in a blue box as shown around this paragraph.
- User input is shown in **boldface** font in the examples of this guide.

1.3 Supporting Software Levels

The following KMSYS Worldwide software product is necessary for the generation, installation, and operation of InfoQuest:

Q-LINK Version 6R6 (see Q-LINK Minimum Configuration, Section 1.6)

Any supported base release of the Unisys OS 2200 software may be used for the generation, installation and operation of InfoQuest.

Special note: InfoQuest CANNOT be generated to use the ACOB C\$DML routines. A PART-LIB-CB ACOB must be used in all cases. For more information on the ACOB parameters, please refer to the on-line help in COMUS and Chapter 7, "ACOB Library Considerations", before continuing.

Additional Unisys software may be required depending on the file systems to be accessed by InfoQuest through the Q-LINK interface (see Supporting Software Levels in Section 1.4 of the Q-LINK Installation and Operation Guide).

1.4 Migration from Level 4R1 of InfoQuest

For InfoQuest Version 5R6, the various InfoQuest parameters (views, DBMs, tables, etc.) are stored and maintained in a series of EXEC files instead of BIS RIDs, as with earlier levels of InfoQuest. You must retrieve (INFOQUEST*INFOQUTIL.77H) and register the run NMLOAD. This run must be registered in the Department (System) of the InfoQuest Mode (Cabinet) from which you want to migrate.

1.5 Migration from Level 5R5 of InfoQuest

Once you have installed InfoQuest level 5R6, you MUST execute the IQPARAM program in the INFOQUEST*INFOQUTIL file to adjust the internal key structure of the IQ\$PDIR file.

1.6 Q-LINK Minimum Configuration

Q-LINK is an integral part of InfoQuest and must be configured through COMUS accordingly. The minimum configuration requirements shown are established by KMSYS Worldwide in order to compile the InfoQuest programs during InfoQuest generation and execution. If you chose to use the "Quick Installation" procedure shown in Chapter 1 of the Q-LINK Installation Guide, the following minimum values are built into Q-LINK as it was released from KMSYS Worldwide, Inc.

```

                                                                    SCREEN: BUILD
These parameters define information which can only be changed by a Q-LINK
system generation. Enter a question mark (?) in any field and transmit for
information on how to configure that parameter. DMS1100 related parameters
can be viewed with a selection from the main menu (use the BACK command).

MAX VARIABLE NAMES                               400
DATA STORAGE AREA (DOUBLE WORDS)                 1000
PROGRAM STORAGE SIZE (COMMANDS)                  1800
MAXIMUM LABELS IN A PROGRAM                       400
MAXIMUM FILES (DEF F DIRECTIVES)                  10

Q-LINK DBANK START ADDRESS                        0154000
DB4 PRODUCT LIBRARY FILE                          NONE
DTM PROC FILE
DTM SCHDLR INTERFACE BDI                          0403133
QWIZZ PRODUCT FILE
DDP-PPC RELOCATABLE FILE
DDP-PPC PROC FILE

```

If you choose to generate Q-LINK at your site, these minimum configuration values (shown above) must be set on the Q-LINK configuration screen, "Basic Parameters for Q-LINK Generation (SCREEN: BUILD)," prior to starting the COMUS BUILD runstream for Q-LINK. PROGRAM STORAGE SIZE = 1800 is only required for the server used to generate (compile) the InfoQuest programs. The server used for report creation could be from a Q-LINK generation configured for 1200 commands or less.

InfoQuest programs use a minimum of three dummy PCIOS file definitions internally. While these do not relate to actual files, they reduce the number of PCIOS files available to the user. If any DBM will access more than seven user PCIOS files, the parameter, "MAXIMUM FILES (DEF F DIRECTIVES)", should be increased. Note: Increasing the maximum number of files does not increase the file table space appreciably.

InfoQuest requires a minimum RDA size of 4,000 words to function properly. This parameter is a dynamic configuration parameter (not shown here) found on the continuation screen for the "Basic Q-LINK Dynamic Configuration Parameters". Its default as released by KMSYS Worldwide is 4,000 words but may be increased as required.

When InfoQuest is first installed, Q-LINK must be configured with a "PROD1" server class. Note: When Q-LINK is initially installed, it is already configured with a batch server named PROD1; however, if this name is changed initial access to InfoQuest will fail.

All remaining Q-LINK configuration parameters will depend on the individual site's local requirements.

1.7 The InfoQuest Release Tape

The InfoQuest release tape contains all the files necessary for installation of InfoQuest through COMUS. A tape is also included containing the latest version of Q-LINK required for InfoQuest.

File	Type	Name	Description
1	UTIL	IQF0	This is the COMUS utility file.
2	BASE	IQF1	This is the product base source file and contains the source elements for InfoQuest/EX.
3	REL	IQF2	This is the relocatable file containing all the procs and relocatables from the last COMUS build.
4	ABS	IQF3	This is the absolute file and contains all the absolutes for the InfoQuest/EX, InfoQuest Client and maintenance utilities. This is also the SYS\$LIB\$*INFOQ(mode) file (see Chapter 2).
5	BASE	IQF4	This is the base source for the BIS runs required for the BIS-based InfoQuest and the Q-LINK programs required for both InfoQuest/EX and the BIS-based InfoQuest.
6	OMB	IQF5	This is the omnibus file for the IQF4 file and contains the outputs from the compiled Q-LINK programs. This file is installed as SYS\$LIB\$*INFOQ(mode)-1 (see Chapter 2).
7	SYM	IQF6	This is the output file for the BIS RIDs necessary for the BIS-based InfoQuest. This file is installed as SYS\$LIB\$*INFOQ(mode)-2 (see Chapter 2).
8	PCF	IQF7	This is the product PCF file for all components.
9	DB	IQF8	This is the DPS screen file from the last product generation. This file is copied into the configured screen file during the install process.

File	Type	Name	Description
10	EXTRA	IQSO	This is the combined source output for all components.
11	DB	IQ\$VIEW	InfoQuest database file.
12	DB	IQ\$DBM	InfoQuest database file.
13	DB	IQ\$USER	InfoQuest database file.
14	DB	IQ\$APP	InfoQuest database file.
15	DB	IQ\$RDIR	InfoQuest database file.
16	DB	IQ\$PDIR	InfoQuest database file.
17	DB	IQ\$MAIL	InfoQuest database file.
18	DB	IQ\$HELP	InfoQuest database file.
19	DB	IQ\$STORAGE	InfoQuest database file.
20	DB	IQ\$SRHVAL	InfoQuest database file.
21	EXTRA	IQ\$DEMO	This file contains all the views, DBMs, tables and reports required for the InfoQuest Validation Demonstration Application.
22	DB	CURR-ORD-IDX	This file is a data item index file for the InfoQuest Validation Demonstration.
23	DB	ORD-HIST-IDX	This file is a data item index file for the InfoQuest Validation Demonstration.
24	DB	CUSTFILE	This is an MSAM file containing data for the InfoQuest Validation Demonstration.
25	DB	ORDERFILE	This is an MSAM file containing data for the InfoQuest Validation Demonstration.
26	DB	ORDERHIST	This is a PCIOS sequential file containing data for the InfoQuest Validation Demonstration.
27	EXTRA	INFOQUTIL	This file contains file utility programs.
28		CHANGE	COMUS support file.
29		PLE	COMUS support file.
30		UCF	COMUS support file.

1.8 Additional InfoQuest Documentation

InfoQuest administration is performed using the InfoQuest maintenance utility, "@IQMNT[x]" (where x is dependent upon the mode used to install InfoQuest – see Chapter 2), provided with the InfoQuest release. Detailed instructions for generating views, generating DBMs, providing security and performing general maintenance functions for InfoQuest may be found in the InfoQuest System User Guide, which is included with the release of InfoQuest.

1.9 Prior to Installing InfoQuest

If you are installing the BIS-based version of InfoQuest, it is strongly recommended that InfoQuest be installed after the PURGE/PRESTR or CYCLE/MERGE.

Chapter 2: Installing with COMUS

COMUS is required to generate, install and configure InfoQuest. Please refer to your Series 1100 COMUS End User Reference Manual, 7830 7758, for general instructions on using COMUS.

COMUS help screens are available for all InfoQuest parameters by typing a question mark (?) on any prompt.

In general, the COMUS method of InfoQuest installation will require the following steps:

- 1) REGISTER the InfoQuest release tape into the COMUS database.
- 2) Set up your local configuration parameters using the COMUS CONFIGURE command (don't issue a PROCESS command yet). The COMUS configure interface provides a simple "fill in" format to complete the configuration. On-line help is available for every configuration parameter.
- 3) Perform a product BUILD.
- 4) INSTALL InfoQuest.
- 5) Establish the run-time configuration using the COMUS CONFIGURE and PROCESS commands.

2.1 The Product and Support Files

The installation process will create the files and components of InfoQuest. The installation process is the same for all InfoQuest components: the BIS-based InfoQuest, InfoQuest/EX or InfoQuest Client. All InfoQuest components are on the same release tape, and are all installed in one COMUS INSTALL. Each component is configured separately during the COMUS CONFIGURE process. The following product files will be installed:

- SYS\$LIB\$*INFOQ.

The file name is determined from the MODE parameter on the COMUS INSTALL command. The allowable modes (not the same as BIS modes) are INFOQ (the default), and INFOQA through INFOQK. If the mode is INFOQA, this file name will be

SYS\$LIB\$*INFOQA (using a different mode might be desirable when installing a new version of InfoQuest so as not to disturb your production InfoQuest environment). The first of the three product files contains the InfoQuest absolutes used for maintenance, scheduling, etc. The file also contains the programs for the InfoQuest/EX and InfoQuest Client systems.

- SYS\$LIB\$*INFOQ-1.

This file is also dependent upon the MODE parameter on the COMUS INSTALL command. If the mode is set to INFOQA, this file will be SYS\$LIB\$*INFOQA-1. This product file will contain the Q-LINK object programs used by the InfoQuest system.

SYS\$LIB\$*INFOQ-2.

This file is also dependent upon the MODE parameter on the COMUS INSTALL command. If the mode is set to INFOQA, this file will be SYS\$LIB\$*INFOQA-2. This product file will contain the BIS runs used by the BIS-based InfoQuest system. This file will be used when retrieving the InfoQuest BIS runs during run registration and installation.

INFOQ*INFOQLOG.

This file is also dependent upon the MODE parameter on the COMUS INSTALL command. If the mode is set to INFOQA, this file will be INFOQA*INFOQLOG. This product file will be used by the IQMON utility in the scheduling and tracing of off-line requests.

INFOQ*INFOQLOCK.

This file is also dependent upon the MODE parameter on the COMUS INSTALL command. If the mode is set to INFOQA, this file will be INFOQA*INFOQLOCK. This product file will be used by the IQMON utility in the scheduling and tracing of off-line requests.

SYS\$LIB\$*INFOQ\$CONF.

This file contains the InfoQuest system configuration for batch ports and runstreams (see Chapter 4, "External Configuration").

Support files are created during InfoQuest installation but are not secured from rollout or other local site procedures that may periodically remove infrequently used or expired files. All of the following support files are essential to InfoQuest execution and must be made available for access (not rolled out) at all times:

- SYS\$LIB\$*INFOQ\$CONF.
- INFOQ*INFOQLOG.
- INFOQ*INFOQLOCK.
- INFOQ*IQ\$VIEW.
- INFOQ*IQ\$DBM.
- INFOQ*IQ\$USER.
- INFOQ*IQ\$APP.
- INFOQ*IQ\$RDIR.
- INFOQ*IQ\$PDIR.
- INFOQ*IQ\$MAIL.
- INFOQ*IQ\$PSTORAGE.
- INFOQ*IQ\$SRHVAL.
- INFOQ*IQ\$HELP.
- INFOQ*APP\$\$LOCK.
- INFOQ*USER\$\$LOCK.
- INFOQ*VIEW\$\$LOCK.
- INFOQ*DBM\$\$LOCK.
- INFOQ*RDIR\$\$LOCK.
- INFOQ*MAIL\$\$LOCK.
- INFOQ*PDIR\$\$LOCK.
- INFOQ*PSTOR\$\$LOCK.
- INFOQ*SHRVL\$\$LOCK.

The qualifier for the above files is dependant upon the MODE used on the COMUS INSTALL command. The default, INFOQ, is shown. If MODE=INFOQA was used on the install, the qualifier would be INFOQA.

If the InfoQuest Demonstration Application is to be used, the following installed InfoQuest files should be secured:

- IQ\$DEMO*IQ\$DEMO.
- IQ\$DEMO*CURRE-ORD-IDX.
- IQ\$DEMO*ORD-HIST-IDX.
- IQ\$DEMO*CUSTFILE.
- IQ\$DEMP*ORDERFILE.
- IQ\$DEMO*ORDERHIST.

2.2 REGISTER InfoQuest

The first step in installing InfoQuest is to register the InfoQuest product release tape with your COMUS database. You may register InfoQuest with an existing COMUS database, or use COINIT to create a separate COMUS database for InfoQuest. The following is an example of an InfoQuest COMUS registration using a separate COMUS database which has already been initialized. User input is shown in boldface font.

The release tape, as shipped from KMSYS Worldwide, is an unlabeled tape. If the product defaults in your COMUS database are set for labeled tapes, you may use the "TTYTYPE=TJ" parameter on the REGISTER command to override the labeled default.

Note: When registering, building or installing InfoQuest, it should always be identified as the "INFOQ" product. For example:

```
register,s reel=540000 PRODUCT=INFOQ,5R6
```

```
▶@qual qkms
▶I:002333 QUAL complete.
▶@comus
▶COMUS 6R5 (950112 0918:55) 1999 May 30 Tue 1051:05
▶Copyright (c) 1999 Unisys Corporation.
▶All rights reserved.
▶UNISYS PROPRIETARY
▶COMMAND ? ▶register,s reel=560000 product=infoq,5R6
▶DATABASE DOES NOT CONTAIN A KEYWORD DICTIONARY. NO KEYWORDS INSERTED.
▶REGISTER PRODUCT 'INFOQ 5R6' -<Y>/N/E(END) ? ▶y
```

At this point, as a result of using the "S" option on the REGISTER command, a series of screens containing current InfoQuest installation information will be displayed. You should read this information carefully. Note: This same information is contained on the first file (F0) of the release tape in the element, "INFO/5R6" (the version name will change with each subsequent release level; e.g., 5R6A, 5R6B, etc.). Once you have browsed through the information pertaining to this release level, you should see the following:

```
▶@BRKPT PRINT$/053099153238 .
▶@SYM 053099153238.,,RB1P1 .
▶@CO$COS$PF.COMUS,ZT ,KMS
▶INSERT TASK COMPLETED *****
▶COMMAND ? ▶exit
▶END COMUS
```

The print file above shows the COMUS registration process, and is of little use to the user. The responses shown above may vary at your site due to differences in your COMUS default settings or COMUS release level.

2.3 CONFIGURE InfoQuest for BUILD/INSTALL

To begin setting up your product configuration under COMUS, you must first enter the COMUS CONFIGURE command. The following is an example of executing the CONFIGURE command:

```

▶▶@qual qkms
▶I:002333 QUAL complete.
▶@comus
▶COMUS 6R5 (990112 0918:55) 1999 Jun 20 Tue 1506:57
▶Copyright (c) 1995 Unisys Corporation.
▶All rights reserved.
▶UNISYS PROPRIETARY
▶COMMAND ? ▶configure mode=update

```

At this point COMUS should go into full-screen mode. If your terminal is not in full-screen mode, type “\SCR” and transmit. This command will give you full-screen capability if your terminal type supports full-screen operations (UTS compatible terminals).

In full-screen mode, COMUS will display the first configuration menu. However, if no user set names are present in the COMUS database, it will be necessary to create one by using one of the COMUS COPY commands shown below.

For a new configuration set with KMSYS Worldwide release level defaults for all parameters, create a set for the new InfoQuest release level using the following command:

```
COPY PRODUCT=INFOQ LEVEL=5R6 TO=your-set-name
```

If the set name (*your-set-name*) already exists in the COMUS database and contains a previous configuration of InfoQuest, the configured parameter values will be replaced by the release defaults. As a result of using the COPY command, any site-specific values must be re-entered (see the COPY MERGE command below).

For a new configuration set that retains existing (i.e., site specified) parameter values, create a set for the new InfoQuest release level using the COPY MERGE command:

```
COPY MERGE FROM=old-set-name TO=new-set-name PRODUCT=INFOQ LEVEL=5R6
```

The COPY MERGE retains any settings of existing configuration parameters and establishes the default values for any new parameters. This command will allow you to migrate from one release level to another, without having to re-enter parameter values that were set for the previous release level.

The COPY MERGE command can also be used to provide another execution level of InfoQuest. For example, 4R1 can be used for production while 5R6 is being examined. If a second execution level is desired, a separate installation mode must be used so that both versions of InfoQuest can co-exist (see the MODE parameter on page 2-21).

When you are ready to put the new release level into production, you can use the COMUS COPY command to copy from the test configuration set to the production set and use the COMUS DELETE command to delete the test set. This procedure will require a reinstallation of InfoQuest utilizing the production installation mode. Also, the product file name on the “Environmental Parameters for InfoQuest” screen should be changed back to the original product file name.

From the opening COMUS menu, select the configuration set you wish to configure. In the example below, two configuration sets exist for two different products. The set named

INFOQ5R6 (number 2) has been selected. Change any parameter values shown on the screens of this set and then use the COMUS BUILD command to generate a BUILD runstream. During the BUILD dialog, answer the configuration query with this configuration SET name and the BUILD will extract your parameter choices from the COMUS database and use them to tailor InfoQuest for your site's particular needs.

```

6 ■
      Set Name(s)                select the set you wish to use.
1  QLINK6R3
2  INFOQ5R3
3  INFOQ5R4
4  INFOQ5R5
5  QLINK6R6
6  INFOQ5R6

```

Next, select product INFOQ to display the main InfoQuest configuration menu.

```

1 ■
Master Menu for Set=INFOQ5R6      select the product you wish to configure
  PRODUCT      LEVEL      UPDATED
1  INFOQ      5R6      *

```

2.3.1 InfoQuest Main Configuration Menu

Configuration processing through COMUS replaces the usage of generation SGSs for configuring the InfoQuest processors and utilities. While some InfoQuest parameters are still generation dependent (COMUS BUILD), all configuration information is entered via COMUS configure screens. The BUILD process will extract the generation-time configuration information from the COMUS database in order to tailor BUILD dependent information. Many InfoQuest parameters are dynamically configurable and can be changed by the

system administrator without requiring a reBUILD. The parameters in the default configuration set should provide a minimally functional InfoQuest. You can and should tailor this configuration to your site's requirements as you become familiar with the product.

```

1 ■
                                     SCREEN: MAIN
This is the main menu for updating the configuration parameters for
InfoQuest. You may view or modify the configuration information for the
installation and the runtime changeable parameters. You may use COMUS
commands such as PROCESS, EXIT, OMIT, BACK, MODE=UPDATE, and '?', or enter
a number to select from the following categories:

1) Infoquest Product License Information           SCREEN: LICENSE
2) Environmental Parameters for Infoquest         SCREEN: ENVIRON
3) Execution Parameters for Infoquest            SCREEN: EXECUTION

Configuration for ( SYS$LIB$*INFOQ )

```

Normally, the first parameter values to enter are those required to validate operation of the software for the licensed computer system. Selection 1 will present the screen for "InfoQuest Product License Information".

A detailed explanation of each parameter affecting the COMUS BUILD can be found by typing a question mark (?) over the first position of a particular parameter and transmitting.

2.3.2 InfoQuest Product License Information

This information is used by InfoQuest to validate operation of the software for the licensed computer system. You have received one or more unique product license key sheets for each computer system on which you have been licensed to use this software package. Please contact KMSYS Worldwide if the product key information you have received does not agree with the hardware configuration which you utilize for operation of this software package, or if you have any questions concerning the setup of this information.

The values entered on the product license screen(s) are required for BUILD/INSTALL and run-time processing. If they are not entered exactly as shown on the product key sheet packaged in the release shipment, validation errors will occur. These errors may occur at any stage (generation, installation or execution). If an error occurs, first check the information entered on this screen against the product key sheet for correctness. If it appears to be correct, determine the system type and site-id of your system (as generated in the EXEC) by entering the following SSG runstream:

```

@SSG
SKEL
*DISPLAY `SITE=([SYSTEM$,1,1,2]) SYSTEM TYPE = ([SYSTEM$,1,3,1])'
@EOF
@EOF

```

The entries in the fields on the product license screens **MUST** match the product license key information you received with the product unless you are advised otherwise by KMSYS Worldwide personnel.

There are four COMUS configuration screens dedicated to the licensing of InfoQuest. Each of these screens contains the product license parameters required to validate InfoQuest and specific InfoQuest components (InfoQuest/EX, the BIS-based InfoQuest and InfoQuest Client) for use. You need only configure those license screens for the InfoQuest components for which you are licensed.

The first license screen contains licensing parameters that are global to InfoQuest and all InfoQuest components. The values for these parameters can be found on any InfoQuest Product License Key Information sheet.

```
+■
Enter + or - to view continuations of this screen.
                                                                    SCREEN: LICENSE
These parameters define the computer system and conditions under which
operation of this product is licensed by KMSystems. Enter the information
EXACTLY as it is printed on the product key sheet which was included with
your distribution tape. Please contact KMSystems if you have any questions
concerning this information.

Site Name                    KMSYSTEMS, INC.
1100/2200 System Type       2200/8010
Site ID Configured in the EXEC  KMS
```

Use the plus (+) keystroke followed by a transmit to view the next license screen.

The second license screen must be configured if your site is licensed to use InfoQuest/EX (the DPS-based InfoQuest).

```
+■
Enter + or - to view continuations of this screen.
                                                                    SCREEN: LICENSE1
These parameters define the conditions under which operation of this product
is licensed by KMSystems. Enter the information EXACTLY as it is printed on
the product key sheet which was included with your distribution tape. Please
contact KMSystems if you have any questions concerning this information.

InfoQuest/EX

License Expiration (YYYY-MM-DD)          NONE
Product Serial Number                    560001
Product Validation Key
```

The third license screen is used to validate the use of InfoQuest Client if your site is licensed for the InfoQuest Client component.

```
+■
Enter + or - to view continuations of this screen.
                                                                    SCREEN: LICENSE2
These parameters define the conditions under which operation of this product
is licensed by KMSystems. Enter the information EXACTLY as it is printed on
the product key sheet which was included with your distribution tape. Please
contact KMSystems if you have any questions concerning this information.

InfoQuest Client

License Expiration (YYYY-MM-DD)          NONE
Product Serial Number                    560001
Product Validation Key
```

The fourth license screen must be configured if your site is licensed to use the BIS-based InfoQuest.

```
DISP SCREEN=ENVIRON
Enter + or - to view continuations of this screen.

                                SCREEN: LICENSE3
These parameters define the conditions under which operation of this product
is licensed by KMSystems. Enter the information EXACTLY as it is printed on
the product key sheet which was included with your distribution tape. Please
contact KMSystems if you have any questions concerning this information.

InfoQuest MAPPER

License Expiration (YYYY-MM-DD)      NONE
Product Serial Number                560001
Product Validation Key
```

The DISPLAY command can be used to access the next screen if the screen name is known, or use the BACK command to return to the main menu.

2.3.3 Environmental Parameters for InfoQuest

The parameters on the following screens may only be changed with an InfoQuest build using the COMUS BUILD command. Their values are used to supply the BUILD and INSTALL process with the location of several required product files.

Enter your choices for the parameter values shown on these screens, and then use the COMUS BUILD command to create a generation runstream and the COMUS INSTALL command to create an installation runstream. By entering the name of the COMUS configuration set during the BUILD and INSTALL dialog, COMUS will extract your parameter choices from the COMUS database and use them to tailor InfoQuest for your site's particular needs.

```

BACK ■
                                                                    SCREEN: ENVIRON
These parameters define information which can only be changed by an
InfoQuest BUILD using COMUS. Enter a question mark (?) in any field and
transmit for information on how to configure that parameter.

InfoQuest Installation File          SYS$LIB$*INFOQ
Q-LINK Product File                 SYS$LIB$*QLINK

ACOB Library CBEP$$ACOB File        THIS SYSTEM
ACOB C$DML Bank type                THIS SYSTEM
ACOB C$DML Bank size                THIS SYSTEM
Use common banked SORT Library      THIS SYSTEM

DPS Library CBEP$$DPS File          SYS$LIB$*DPS
DPS Screen file qualifier           SYS$
DPS Screen file name                INFOQ$SCRN

```

The installation and product file names entered are dependent upon the mode used to install the various products with one exception.

The InfoQuest Installation File name must be set based on the mode to be used on the COMUS INSTALL of InfoQuest. The allowable modes are INFOQ (the default) and INFOQA through INFOQK. If the mode is INFOQA, this file name must be SYS\$LIB\$*INFOQA. The default value, "SYS\$LIB\$*INFOQ" is for the default mode.

The Q-LINK Product File name must correspond to the mode used to install Q-LINK. The possible modes are QLINK (the default) and QLINKA through QLINKK. If the mode is QLINKA, this file name must be SYS\$LIB\$*QLINKA. The default value, "SYS\$LIB\$*QLINK" is for the default mode.

Four of the generation parameters have a default value of "THIS SYSTEM". When set to "THIS SYSTEM", the generation process will automatically determine the operating environment for InfoQuest.

If you want to use this automated feature, **make sure** that you do not have a permanent SGS that points to an ACOB library (e.g., INCLUDE or EXTRALIB) left over from a previous BUILD of InfoQuest. This permanent SGS may have been entered when the InfoQuest products defaults were defined during a previous COMUS BUILD session. You may view and/or reenter any permanent SGSs entered in this manner by using the "Q" option on the COMUS BUILD.

If you are building on one system to be installed on another system, you must either ensure that the configuration of these five parameters will not be different between the two

systems, or you must explicitly fill in these parameters for the system on which InfoQuest will execute.

Special note: InfoQuest **CANNOT** be generated to use the ACOB C\$DML routines. A PART-LIB-CB ACOB must be used in all cases. For more information on the ACOB parameters, please refer to the on-line help in COMUS and Chapter 7, "ACOB Library Considerations", before continuing.

The Use Common Banked SORT Library parameter is used to determine if InfoQuest is generated to utilize the common banked sort subroutines. Possible values are THIS SYSTEM, TRUE and FALSE. For more information, see the on-line help.

The DPS Library CBEP\$\$DPS File parameter is the location of the DPS product file containing the CBEP\$\$DPS relocatable element.

Special note: If your site has more than one installation of DPS and you wish to use other than the default DPS file, you **MUST** supply a CO\$PROCESSOR SGS to specify the correct processor names for each of the following DPS processors: DPSIF, FLMU and FLDP (see "Permanent SGSs" on page 2-17).

The InfoQuest BUILD will create a DPS non-configured screen file to hold all of its screens. The qualifier must match the qualifier specified during the install of DPS. You may use the HELPER program (@SYS\$LIB\$*DPS.HELPER) in breakpoint to determine the required qualifier (see the second parameter on the QUAL image).

The DPS Screen File Name is the name of the InfoQuest screen file that will be initialized during the installation of InfoQuest. This file name is used along with the DPS Screen File Qualifier to catalog the file at installation time.

The DPS to be used by InfoQuest must be configured to allow 200 screens in a non-configured screen file. Increasing the number of screens in DPS can be accomplished with a COMUS CONFIGURE PROCESS of DPS.

2.3.4 Execution Parameters for InfoQuest

These parameters may be changed without an InfoQuest generation or installation; however, the "Q-LINK class for compiles" parameter is used during InfoQuest generation (BUILD) and must match a class configured in Q-LINK with COMUS. The values entered are used to provide run-time defaults that are used during InfoQuest request generation and execution.

```

e █
                                                                    SCREEN: EXECUTION
These parameters define execution options for the InfoQuest product.
Each of these parameters may be changed by a process after the update
has been completed. Enter a question mark (?) in any field and
transmit for information on how to configure that parameter.

Stop after first error                FALSE
Automatic Session Termination        FALSE

Q-LINK class for compiles              PROD1
Maximum offline request runs          2

```

Once all of the parameters have been entered, the COMUS "E" command can be used to terminate the COMUS configuration process, without exiting COMUS, in preparation for performing the COMUS BUILD.

Note: After InfoQuest is installed, you will once again use the COMUS CONFIGURE command to PROCESS the configuration set (covered later in this chapter) prior to execution.

2.4 The COMUS BUILD Command

Once InfoQuest is registered with COMUS, you may proceed with the BUILD process. This process will generate InfoQuest for installation in your environment. During the COMUS BUILD, you may need to provide local InfoQuest configuration SGSs. These SGSs are described below.

2.4.1 Permanent SGSs

The following SGSs define the default processors and libraries to be used in the generation. These SGSs may be supplied as permanent SGSs when COMUS queries for the "permanent SGSs for this product" during the BUILD process. The defaults for the processors are:

```

CO$FLMUPROCESSOR    CALL NAME IS  'FLMU'
CO$DPSIFPROCESSOR  CALL NAME IS  'DPSIF'
CO$COPYPROCESSOR   CALL NAME IS  'COPY'
CO$FLDPPROCESSOR   CALL NAME IS  'FLDP'
CO$INLINEPROCESSOR CALL NAME IS  'INLINE' ;
                   OPTIONS ARE  'S'
CO$ACOBPROCESSOR   CALL NAME IS  'ACOB' ;
                   OPTIONS ARE  'E' ;
                   LIBRARY FILE IS '$SYS$LIB$*ACOB'
CO$EDPROCESSOR     CALL NAME IS  'ED' ;
                   OPTIONS ARE  'N'
CO$ELTPROCESSOR    CALL NAME IS  'ELT' ;
                   OPTIONS ARE  'LV'
CO$MAPPROCESSOR    CALL NAME IS  'MAP'
CO$MASMPROCESSOR   CALL NAME IS  'MASM' ;
                   OPTIONS ARE  'EVY'
CO$PDPPROCESSOR    CALL NAME IS  'PDP'
CO$PLSPROCESSOR    CALL NAME IS  'PLS' ;
                   OPTIONS ARE  'EMGD' ;
                   LIBRARY FILE IS '$SYS$LIB$*PLS'
CO$SLRRPROCESSOR   CALL NAME IS  'NONE' ;
                   OPTIONS ARE  'NONE' ;
                   LIBRARY FILE IS '$SYS$LIB$*SLRR'
CO$SSGPROCESSOR    CALL NAME IS  'SSG'
CO$TCONPROCESSOR   CALL NAME IS  'TCON'
CO$DCONPROCESSOR   CALL NAME IS  'DCON'
CO$MCONPROCESSOR   CALL NAME IS  'MCON'
CO$SORTPROCESSOR   CALL NAME IS  'NONE' ;
                   OPTIONS ARE  'NONE' ;
                   LIBRARY FILE IS '$SYS$LIB$*SORT'
CO$SRTPROCESSOR    CALL NAME IS  'NONE' ;
                   OPTIONS ARE  'NONE' ;
                   LIBRARY FILE IS '$SYS$*SRT$PAR'
CO$TIPPROCESSOR    CALL NAME IS  'TIP$*TIPRUN$.SUPUR'
                   OPTIONS ARE  'NONE'
CO$PCIOSPROCESSOR  CALL NAME IS  'NONE' ;
                   OPTIONS ARE  'NONE'
CO$SYSLIBPROCESSOR CALL NAME IS  'NONE' ;
                   OPTIONS ARE  'NONE' ;
                   LIBRARY FILE IS '$SYS$LIB$*SYSLIB'
CO$UCSRTSPROCESSOR CALL NAME IS  'NONE' ;
                   OPTIONS ARE  'NONE' ;
                   LIBRARY FILE IS '$SYS$LIB$*UCSRTS'

```

```

CO$FTNPROCESSOR      CALL NAME IS  ''NONE'' ;
                     OPTIONS ARE  ''NONE'' ;
                     LIBRARY FILE IS ''SYS$LIB$*FTN''
CO$DB4PROCESSOR      CALL NAME IS  ''NONE'' ;
                     OPTIONS ARE  ''NONE'' ;
                     LIBRARY FILE IS ''DB41*LIB''

```

If these are not correct for your system, add permanent SGSs to your COMUS BUILD parameters to specify the correct files. Replace only those SGSs that must be different at your site.

With this release of InfoQuest, only a PART-LIB-CB installation of ACOB may be used to generate and install InfoQuest. There are many different ways to install the ACOB processor and library at a given site which can affect the way InfoQuest is installed (please see Chapter 7, "ACOB Library Considerations", before continuing).

ACOB "extra options" can be specified by placing them in the second sub-field of the "OPTIONS ARE xxxx" clause, i.e., "OPTIONS ARE CES,NR".

If your site uses the ACOB "flagging" compiler (Unisys COBOL extensions are disabled), the "N" and "R" extra options must be specified in order to compile the InfoQuest programs.

The CO\$SRTPROCESSOR is only used if you are not using common banked SORT libraries.

InfoQuest uses GSA for its input parsing and message generation. It is not necessary to have GSA installed for InfoQuest configuration and operation. If you have GSA level 5R1 installed and you must reprocess the GSA source modules used within InfoQuest, the CO\$xCONPROCESSOR SGSs must define the location of the TCON, MCON and DCON processors. Only 5R1 may be used. An attempt to use any other level will cause severe errors. In addition, the 'LIB FILE IS' clause on the CO\$TCONPROCESSOR SGS must specify the file containing the updated source to the GSA library routines (normally GSA is installed in SYS\$LIB\$*GSA).

If your libraries are installed in a non-standard manner and you require additional libraries to be searched and properly included in the InfoQuest collections, use the EXTRALIB SGS:

```
EXTRALIB || qual-1*file-1 | qual-2*file-2 | ... qual-n*file-n ||
```

The INCLUDE SGS provides the means for including specific elements in the InfoQuest collections. This SGS is normally used only to include elements such as CERU\$ (pre-COMUS libraries) or CBEP\$\$xxxx elements.

```
INCLUDE || qual-1*file-1,elt-1 | qual-2*file-2,elt-2 | ... qual-n*file-n,elt-n ||
```

There may be only one INCLUDE SGS used in an InfoQuest generation. If multiple elements are to be included, you may continue this SGS on a new line by using the semicolon (;) continuation character as in the following example:

```
INCLUDE QUAL*PF,ELT1 ;
        QUAL*PF,ELT2
```

The NOT SGS allows the exclusion of elements, that may be in your default library search path, from the InfoQuest collections. As with the INCLUDE SGS, there may be only one NOT SGS used in an InfoQuest generation. If multiple elements are to be excluded, you may continue this SGS on a new line by using the semicolon (;) continuation character as illustrated in the previous example.

```
NOT || [qual-1*file-1,]elt-1 | [qual-2*file-2,]elt-2 | ... [qual-n*file-n,]elt-n ||
```

2.4.2 Performing the BUILD

Prior to running the BUILD runstream for InfoQuest, be sure that Q-LINK has been installed and is functional.

The BUILD runstream must be run (@START) under either the site security officer's user-id or a user-id which has been granted the necessary privileges for installation (see the COMUS End User Reference Manual, 7830 7758). Furthermore, this user-id must also have DPS processor privileges.

During execution of the BUILD runstream, the DPS screen file containing the screen definitions for InfoQuest/EX and the InfoQuest Maintenance program (IQMNT) will not be available for production usage. The file will be returned to a production state upon completion of the COMUS INSTALL runstream; however, it will not be fully functional until the COMUS CONFIGURE PROCESS command has completed successfully.

If you have received changes from KMSYS Worldwide that need to be applied to InfoQuest, please refer to Chapter 8, "Applying Changes to InfoQuest," before proceeding with the build.

The user-id used to run the BUILD and INSTALL runstreams must have the privileges to execute the @FLMU, @FLDP and @DPSIF processors.

An example of a first-time InfoQuest COMUS Build session follows:

```

▶@qual qkms
▶I:002333 QUAL complete.
▶@comus
▶COMUS 6R5 (990112 0918:55) 1999 Jun 20 Tue 1506:57
▶Copyright (c) 1999 Unisys Corporation.
▶All rights reserved.
▶UNISYS PROPRIETARY
▶COMMAND ? ▶build,q infoq,5R6

```

The following portion of the COMUS session will be used to set the product build defaults for the InfoQuest System. You will be prompted for the defaults the first time the product is built or whenever the Q-option is supplied on the COMUS BUILD.

```

▶For each default question you may enter one of the following responses:
▶ 1. An appropriate value.
▶ 2. A null string or spaces will maintain the current default value.
▶ 3. QUERY -This keyword causes COMUS to ask for the default on
▶ every BUILD of the product.
▶ 4. BLANK -This keyword sets the value of the default to null.
▶Default generation recovery mode (ON or <OFF>) ? ▶
▶Default project id (<Q$Q$Q$>) ? ▶
▶Default run id (<>) ? ▶
▶Default run options (<>) ? ▶
▶Default run priority (<>) ? ▶
▶Default tape equipment type (<T>) ? ▶
▶Default tape assign options (<TF>) ? ▶tj
▶Default generation type (DISK/DISK or <TAPE/TAPE>) ? ▶
▶Permanent SGSS (<END>) ? ▶
▶Printout: file, printer or query -F/P/<Q> ? ▶

```

▶Defaults Complete

This part of the COMUS session will occur on all builds.

```
▶Project id for this generation (<Q$Q$Q$>) ? ▶
▶Run id for this generation (<>) ? ▶ingen
▶MASTER -reel/file./<> ? ▶560000
▶Generation id ? ▶INFOQ5R6
▶
▶Generation heading (<>) ? ▶InfoQuest 5R6 Generation
▶
▶Generation reason (<END>) ? ▶New release from KMSystem.
▶Generation reason (<END>) ? ▶
▶
▶New change number (<END>) ? ▶
▶
▶Perform ALL, FULL, CONFIG or MAPONLY gen -A/<F>/C/M ? ▶
▶NEWMMASTER -reel/file./<> ? ▶ingen5
▶Printout to file or printer -<F>/P ? ▶
▶Additional SGSs (<END>) ? ▶
▶What is the INFOQ configuration set name? ▶infoq5R6
▶The runstream has been saved in 'Q$Q$Q$*COMRUN(1).1/INFOQ5R6'
▶View the runstream (Y or <N>) ? ▶
▶Print a copy of the runstream (Y or <N>) ? ▶
▶Start the runstream (Y or <N>) ? ▶y
▶The runstream has been saved in 'Q$Q$Q$*COMRUN(1).1/INFOQ5R6'
▶UPDATING ACCESS FILES ...
▶ACCESS FILES HAVE BEEN UPDATED
▶BUILD TASK COMPLETED *****
▶COMMAND ? ▶exit
▶END COMUS
```

If the Q-LINK server class used to compile the InfoQuest programs is not an auto-start server, it must be manually started prior to starting the InfoQuest BUILD runstream. Likewise, if the server is a TIP server using MCB instead of COMPOOL, an execution of QMON must be running for the server to start properly (see Chapter 7, "Q-LINK Operation", in the Q-LINK Installation Guide).

2.5 The COMUS INSTALL Command

The MODE parameter can be used on the COMUS INSTALL command to provide a second installation of InfoQuest. This might be desirable when installing a new version of InfoQuest so as not to disturb your production InfoQuest environment. The default mode is INFOQ. If another version is required, add "MODE=INFOQ[x]" to the COMUS INSTALL command, where x may be an "A" through a "K" (e.g., "MODE=INFOQA").

The INSTALL runstream must be run (@START) under either the site security officer's user-id or a user-id, which has been granted, the necessary privileges for installation (see the COMUS End User Reference Manual, 7830 7758). Furthermore, this user-id must also have DPS processor privileges.

The following illustrates a first time InfoQuest installation:

```

▶@qual qkms
▶I:002333 QUAL complete.
▶@comus
▶COMUS 6R5 (990112 0918:55) 1999 Jun 20 Tue 1635:27
▶Copyright (c) 1995 Unisys Corporation.
▶All rights reserved.
▶UNISYS PROPRIETARY
▶COMMAND ? ▶install infoq,5R6 reel=ingen5

```

Note: If you receive a stability release of InfoQuest, enter the complete stability level (5R6A, 5R6B, etc.) on the COMUS INSTALL.

Remember, you can get more information on any prompt by simply transmitting a question mark (?).

```

▶Enter any permanent SGS's for product INFOQ 5R6
▶SGS or <END> ▶
▶Enter the project id for this installation -<Q$Q$Q$> ▶
▶Enter reason for installation of INFOQ 5R6
▶Reason or <END> ▶First Time Installation of InfoQuest 5R6
▶Reason or <END> ▶
▶Enter any additional SGS's for INFOQ 5R6
▶SGS or <END> ▶
▶What is the INFOQ configuration set name? ▶infoq5R6
▶The runstream has been saved in 'Q$Q$Q$*COMRUN(1).INS-2'
▶View the runstream -Y/<N> ? ▶
▶Print a copy of the runstream -Y/<N> ? ▶
▶Start the runstream -<Y>/N ? ▶Y
▶The runstream has been saved in 'Q$Q$Q$*COMRUN(1).INS-2'
▶INSTALL TASK COMPLETED *****
▶COMMAND ? ▶exit
▶END COMUS

```

2.6 Configure InfoQuest for Execution

When InfoQuest has been successfully installed, use the COMUS CONFIGURE MODE=UPDATE command, and once again, select the InfoQuest configuration set. Issue the PROCESS command to complete the configuration. The PROCESS command must be issued after each new installation and prior to InfoQuest execution.

2.7 Post-Installation Requirement

The following is only required if you are migrating from InfoQuest level 5R5 to InfoQuest level 5R6. After the installation is complete and you have processed the configuration, you **MUST** run the following program one time, and one time only:

```
@INFOQUEST*INFOQUTIL.IQPARM
```

This program modifies the internal key structure of the IQ\$PDIR file. Failure to run this program will result in internal program errors for any program that accesses the IQ\$PDIR file.

Note: If you install InfoQuest in the same mode again, DO NOT run this program a second time!

Chapter 3: BIS Administration

This chapter is only required when installing the BIS-based version of InfoQuest, InfoQuest/MAPPER. When installing all other InfoQuest components (InfoQuest/EX, InfoQuest Client, etc.), this chapter should be skipped.

After the initial InfoQuest installation through COMUS has been completed, the BIS Coordinator or Administrator must establish the InfoQuest operating environment in BIS. This chapter requires the BIS Coordinator or Administrator to do some BIS housekeeping. The coordinator needs to assign a BIS mode and department number to InfoQuest. At this point, it is assumed the coordinator is signed on to BIS.

3.1 The InfoQuest BIS Mode

You should assign InfoQuest to its own unique BIS MODE. The OS 1100 BIS System Administration Guide covers the setting up of a mode in the "Cabinet Passwords" section (7831 9415, Section 7, current BIS release level). After you assign a password to the InfoQuest mode, you need to note that password because it is required in the setup of the off-line process (see Chapter 4, "External Configuration").

3.2 Generating the BIS Types

The BIS Coordinator needs to generate six (6) types in the InfoQuest Mode. The types must be generated as free-formatted types in the Full Character Set (FCS). The InfoQuest types are as follows:

- 1) The B-type is 132 characters; the title recommended is:
PREDEFINED SEARCH LISTS
- 2) The D-type is 132 characters; the title recommended is:
TABLES / DOCUMENTATION
- 3) The F-type is 132 characters; the title recommended is:
INFOQUEST DBMS
- 4) The G-type is 256 characters; the title recommended is:
INFOQUEST VIEWS
- 5) H-type is 80 characters; the title recommended is:
INFOQUEST RUNS
- 6) The I-type is 256 characters; the title recommended is:
INFOQUEST REPORT DIR/PGM

After the I-type is generated, the BIS Coordinator needs to eliminate the heading for the 0-RID (I-type). To do this, display the 0-RID and enter on the line below the ".DATE" line, an SOE character and "]99-", then transmit. If you are running BIS 35 or a later release level, BIS does not allow lines to be deleted from 0-RIDs in this manner. To achieve the same results, move the cursor to column 1 of the line below the date line, erase to end of display (EOD) and transmit with the cursor at the bottom of the screen.

In RID 0 for all types generated, the BIS Coordinator needs to erase the tab code indicator (the 0) in column 1 above the formats.

Once all types have been generated, the table of contents should appear as follows:

Table of Contents	
PREDEFINED SEARCH LISTS	B40
OPEN	C40
TABLES / DOCUMENTATION	D40
OPEN	E40
INFOQUEST DBMS	F40
INFOQUEST VIEWS	G40
INFOQUEST RUNS	H40
INFOQUEST REPORT DIR/PGM	I40

1Resume 2 3 4Return 5 6Tasks 7 8Help 9 10Quit

3.3 The InfoQuest Department

It is recommended that InfoQuest be assigned initially to a unique BIS department of its own until your site decides which users are to have access to InfoQuest. At that time, InfoQuest can be assigned to existing departments or to the universal BIS department. In Mode 218, the coordinator creates a User Registration Report (F-type RID) and its partner, the Run Registration Report (E-type RID). The RIDs to contain these registration reports should correspond to the department number being used. Both of these RIDs must exist prior to retrieving the Run Registration Report. The examples in this guide use department 13; therefore, the User Registration Report will be in 13F and the Run Registration Report, in 13E.

3.4 Initial User Registration

There is a program file element, in BIS format, in the file SYS\$LIB\$*INFOQ-2 that contains the InfoQuest User Registration Report. It is called "IQUERS". From Mode 218, the coordinator has to retrieve this program file element into his designated department's run registration F-type RID (see "The InfoQuest Department", page 3-4).

The file name mentioned above, SYS\$LIB\$*INFOQ-2, is determined from the MODE parameter on the COMUS INSTALL command (see Chapter 2, "Installing with COMUS"). The


```

Line 11  Roll - 5F40
.DATE 13:20:19 RID 5F 01 AUG 07 IQCOORD
.USER DEFINITION: INFOQUEST F003332
* .PHONE/EXTEN.-----USER RESTRICTIONS-----
* .UNIT.MSSDUDPPCADRITSADFCGPPSSSEAXSOMMVRRRCACLLBEDAALCSSORR
* USER . PASS . .ORUEPSRCAPDLENORQSNOERUTYTABXXPCUEEFPLUMNGGFNADDOHETKUN
* IDENTITY . WORD .MODE.DHDLDPTHLRPPDTTMGDRNGRASRBTXXRHDRTMWLXPTSLNCTOTCGNSMNE
*-----
|AUTO-SCHED| 0040| | X |XXXXXXXXXX| X | X | | XX | X | | |
|INFOQ      | INFOQ | 0040| XXXX| X |XXXXXXXXXX| X | X | | XX | X |
|IQCOORD    | 5R6   | 0040| | | | | X | X | X | | X |
..... END REPORT .....
1 2Paint 3SOE 4Return 5 6Tasks 7View 8Help 9Undo 10Edit
    
```

The above result has been modified to include the InfoQuest sign-on (BIS user-d), "IQCOORD", and the sign-on mode has been changed to mode 40. The sign-on "INFOQ" is for batch port requirements to be covered later in this guide (see Chapter 4, "External Configuration").

3.5 Run Registration and Installation

The BIS Coordinator must register the InfoQuest runs in the coordinator mode (218) and then switch to the InfoQuest mode to retrieve the InfoQuest run installation run. Once this has been accomplished, the InfoQuest run installation run can be executed. It will retrieve each InfoQuest run registered from the InfoQuest product file.

3.5.1 Octal Number for the H-Type Runs

The InfoQuest runs will reside in the H-type of the InfoQuest mode. Before the InfoQuest runs can be installed into the H-type RIDs, the octal representation of the InfoQuest mode and type must be determined. Use the BIS utility run called "ATO" (Alpha to Octal) to get the octal number. Cursor to the home position and key in "ATO" and transmit. This run requests that the mode and type be entered. You will need to enter the InfoQuest mode and the H-type. After you transmit, the octal number of that mode and type will be displayed. Note the octal number displayed as it will be used in the next step.

3.5.2 Retrieve the InfoQuest Run Registration

There is a program-file element, in BIS format, in the file SYS\$LIB\$*INFOQ-2 that contains the InfoQuest Run Registration Report. It is called "IQRUNS". From Mode 218, the coordinator has to retrieve this program file element into his designated department's run registration E-type RID (see "The InfoQuest Department", page 3-4).

The file name mentioned above, SYS\$LIB\$*INFOQ-2, is determined from the MODE parameter on the COMUS INSTALL command (see Chapter 2, "Installing with COMUS"). The allowable modes are INFOQ (the default) and INFOQA through INFOQK. If the mode is INFOQA, this file name will be SYS\$LIB\$*INFOQA-2.

Use the "RET P" BIS function to retrieve the element IQRUNS in BIS format into the E-type as follows:

3.5.3 Retrieve the Installation Run

The BIS Coordinator needs to sign on to the InfoQuest department. The BIS run that installs the initial version and update version is in the element, "IQINSTALL", located in the SYS\$LIB\$*INFOQ-2 file.

The file name mentioned above, SYS\$LIB\$*INFOQ-2, is determined from the MODE parameter on the COMUS INSTALL command (see Chapter 2, "Installing with COMUS"). The allowable modes are INFOQ (the default) and INFOQA through INFOQK. If the mode is INFOQA, this file name will be SYS\$LIB\$*INFOQA-2.

Before the BIS Coordinator retrieves the installation run, RID 1H in the InfoQuest Mode must exist. If 1H does not exist, add a report in the H-type at this time. Now, the BIS Coordinator should retrieve the above element (not in BIS format) into the H-type with the "RET P" function as shown below:

```

RET P
Retrieve Program File Element
Qualifier  File name  Cycle  Element  Version
sys$lib$  infoq-2   [redacted]  iqinstall
start line [redacted]
Locate string
Number of lines [redacted]
MAPPER format? [N]
Add headings? [N]
shared directory? [redacted]
Drawer h [redacted]

1Resume 2Paint 3[redacted] 4Return 5[redacted] 6[redacted] 7[redacted] 8Help 9[redacted] 10quit

```

A result displayed is the installation run. This run needs to reside in RID 1H of the InfoQuest mode. You need to replace the result into 1H with the BIS REP function.

3.5.4 Installing the Runs

The run residing in 1H is registered as IQINSTALL. This run will retrieve all of the InfoQuest BIS runs into the H-type RIDs from the InfoQuest product file, SYS\$LIB\$*INFOQ-2.

The file name mentioned above, SYS\$LIB\$*INFOQ-2, is determined from the MODE parameter on the COMUS INSTALL command (see Chapter 2, "Installing with COMUS"). The allowable modes are INFOQ (the default) and INFOQA through INFOQK. If the mode is INFOQA, this file name will be SYS\$LIB\$*INFOQA-2.

When InfoQuest is first installed, Q-LINK must be configured with a "PROD1" server class. Note: When Q-LINK is initially installed, it is already configured with a batch server named PROD1; however, if this name is changed initial access to InfoQuest will fail.

If you enter "IQINSTALL" in the cursor-to-home position and transmit, the following screen appears:

```

=====
InfoQuest : Installation
=====

Enter InfoQuest Mode      ( ) Default Mode is 62
Enter InfoQuest Department ( ) Default Dept is 1
Enter Type of Installation ( )
                        Types are : Production- Blank
                                Modes A Thru K

Enter Mode of Install    ( )
                        Loads are : Initial- I
                                Update- U

Enter Server Class      ( ) (Required for Initial Load)
Enter System Id        ( ) (Required for Initial Load - Default is 01)

*** Transmit to Continue ***
  
```

The input fields on the IQINSTALL screen can be explained as follows:

```

=====
InfoQuest : Installation
=====

Enter InfoQuest Mode      (40) Default Mode is 62
Enter InfoQuest Department (13) Default Dept is 1
Enter Type of Installation ( )
                        Types are : Production- Blank
                                Modes A Thru K

Enter Mode of Install    (I)
                        Loads are : Initial- I
                                Update- U

Enter Server Class      (PROD1) (Required for Initial Load)
Enter System Id        (01) (Required for Initial Load - Default is 01)

*** Transmit to Continue ***
  
```

1. Enter InfoQuest Mode [___]

This is the BIS mode assigned to InfoQuest (see 3.1, "The InfoQuest BIS Mode").

2. Enter InfoQuest Department [___]

The InfoQuest Department is the department number assigned to InfoQuest. The run verifies that the InfoQuest E-types and F-types exist for the department number entered. Note: the default department number, displayed on the screen, is the department number of the user executing the IQINSTALL run.

3. Enter Type of Installation [_]

Leave blank if the default mode was used on the COMUS INSTALL command during InfoQuest COMUS Installation (see Chapter 2, "Installing with COMUS"). If an

alternate mode was used (MODE=INFOQA through MODE=INFOQK), enter an "A" through "K", accordingly.

4. Enter Mode of Install [_]

Initial load, "I", generates RIDs in all the InfoQuest types. The security/user registration table is initialized with a server class for all user entries. See the warning below.

If you enter "U" in response to the prompt, an update load will be performed. The update or initial load option will retrieve the InfoQuest runs from the InfoQuest product file and place them into the appropriate H-type RID.

It is strongly recommended that IQINSTALL be run after the PURGE/PRESTR or CYCLE/MERGE.

5. Enter Server Class [_____]

This information applies to initial load only. It is ignored if you are performing an update load. If you are doing an initial load, the server id entered will be assigned to every user in the InfoQuest User Registration Report.

6. Enter System Id [_]

This system is a value between 01 and 99. If a site is installing InfoQuest for the first time, the default system code of "01" is the correct entry. If a test copy of InfoQuest is installed and the system code "01" has been associated with the production copy of InfoQuest (or another copy of InfoQuest), a different system code must be entered.

If an initial load has been chosen, the run will warn you with the following screen:

```

=====
Are You Sure You Want To Initial Load? (Y/N) ( █ )
=====

CAUTION:If you enter (Y) to Initial Load, you will overlay your tables
with the default install tables from tape. If you enter (N), an
Update Load will run- the runs and static tables will be overlaid.

Please note:
    After the FIRST install of Infoquest in a designated mode,
    Update Loads are the only loads to be done!

```

If you choose to do an initial load a second time, you will overlay your tables with the tables on the release tape. Normally, you would only rerun the initial load if the first initial load had problems.

Chapter 4: Initial Maintenance

4.1 Initializing InfoQuest Files

After a first-time installation of InfoQuest, the InfoQuest Log and Lock files must be initialized before executing any InfoQuest processors. To initialize the files, execute the @IQMON processor. The processor call is as follows:

```
▶@IQMON[x],INT [,x]
```

Where x is optional. Omit x if the default COMUS install mode was used to install InfoQuest. If an alternate mode was used, substitute the letter, "A" through "K", that corresponds to the alternate mode (INFOQA through INFOQK).

4.2 External Configuration

The External System Configuration is defined for three (3) reasons:

1. To handle multiple BIS installations,
2. To handle multiple InfoQuest installations,
3. To set up the batch requirements for off-line processing.

4.2.1 Configuration Selections

On any 1100/2200 system, it is possible to install multiple BISs, multiple Q-LINKs and/or multiple InfoQuests. Each BIS installed can have 30 or more batch ports and each Q-LINK can have up to 20 server classes configured. InfoQuest allows the end-user to run reports off-line and print the reports on system printers. The off-line facility utilizes BIS batch ports and requires an InfoQuest external configuration to establish which BIS batch port, InfoQuest, Q-LINK, Q-LINK server class (configured for off-line processing), etc. is to be used.

Since all external configurations are maintained in one configuration file (SYS\$LIB\$*INFOQ\$CONF.), there must be a separate external configuration (unique system id.) for each Q-LINK/BIS batch port combination through which off-line processing is to take place. Also, a decision must be made as to which InfoQuest installation files are to be used when compiling and executing the non-BIS portion of the InfoQuest system.

To access the program that sets the configuration, you must execute the InfoQuest maintenance program in a DEMAND session. The processor call for the maintenance program is "@IQMNT[x]", where the value of x is dependent upon the COMUS mode used to install InfoQuest. If the default mode, "INFOQ", was used, the processor call will be "@IQMNT"; for a mode "INFOQA" install, "@IQMNTA"; etc.

A user-id of "IQCOORD" with an initial password of "IQEX" is placed in the user registration list at install time with a security code of "02" and application code of "00" (two zeros). Security code "02" allows the installer access to all maintenance functions (see "Security Code Maintenance" in Section 3 of the InfoQuest System User Guide). If a user is registered with application code "00", the user is given InfoQuest Administrator privileges; i.e., the user can perform any function that requires administrator privileges exclusively (e.g., Import function, EXEC file functions, etc.). Since application code "00" is used for the InfoQuest Administrator functions, it should not be deleted or used for other purposes. Any of the other default application codes may be altered as desired.

Note: It is recommended that the "IQCOORD" user-id be changed upon first use for reasons of security.

The following series of screens are displayed after the IQMNT call:

```

=====
                          InfoQuest : Signon
=====

                          Please enter the following information

User-id:   (iqcoord   )
Department: ( 1 )
Password:  ( )
New Password:( ) (Only required when changing your password)

Terminal Type Number:(4) (Default is UTS20)

Valid Terminal Types Are:  1. UTS20      6. SVT1120
                          2. UTS30      7. SVT1121
                          3. UTS40      8. SVT1126
                          4. UTS60      9. IBM3270
                          5. UTS400

1Help  2      3Next  4Abandn 5      6      7      8      9      ( )

```

```

=====
                          InfoQuest : Application Category Selection
=====

                          TAB to a Category Below and Transmit :

                          (■) INFOQUEST ADMINISTRATION
                          ( ) INFOQUEST VALIDATION DEMO

                                          Page 1 of 1

1Help  2      3      4Abandn 5      6      7      8RollFw 9RollBk ( )

```

After entering the supplied Administrator's user-id, department and password, select the "INFOQUEST ADMINISTRATION" selection.

By selecting "Security and Registration" followed by "External Configuration Generation", the InfoQuest Administrator can gain access to the routine that maintains all external parameter values required by InfoQuest (see the InfoQuest System User Guide for other IQMNT functions).

```

=====
                        InfoQuest System
                    Maintenance Subsystem Menu
=====

    Tab to the desired activity and transmit

    (■) Security and Registration
    ( ) VIEW Generation and Maintenance
    ( ) DBM Generation and Maintenance
    ( ) QINDEX
    ( ) Utilities
    ( ) InfoQuest Log Utility

1Help  2Back  3      4      5Exit  6      7      8      9      10

```

```

=====
                        InfoQuest System
                    Security and Registration Submenu
=====

    Tab to the desired activity and transmit

    (■) External Configuration Gen
    ( ) Application Registration
    ( ) User Registration
    ( ) Debug Request

1Help  2Back  3      4      5Exit  6      7      8      9      10

```

The External Configuration Screen (shown below) contains all the run-time information necessary to handle off-line processing.

```

=====
InfoQuest system: External Configuration Generation
=====
Enter InfoQuest System Id Number: (01) Function: ( ) (Display/Update/Init)
Access InfoQuest Installation Mode: ( ) (Blank or A thru K)
Batch Port Information:
  Batch Port Device Name: (MAPPER ) (EX: MAPPER)
  Mode, Mode Password, Type: (40,INFOQ,1 ) (EX: 62,INFOQ,I)
  BP Error Run, Error Station: (BPERR,2059 ) (EX: BPERR,482)
  BP sign-on: (INFOQ,13,INFOQ ) (EX: INFOQ,1,INFOQ)
Batch Run Information:
  Run Card: (@RUN INFOQB,,INFOQ ) (EX: @RUN,D INFO,,IQ)
  EXEC Account/User-id: (INFOQA/INFOQU ) (EX: KMS/INFOQUEST)
  Q-LINK Program File: (SYS$LIB$*QLINK ) (EX: SYS$LIB$*QLINK)
  Batch (off-line) Q-LINK server class: (OFFLIN) (EX: OFFLIN)
  Restricted Time Block (in 24hr clock) starting: ( 0) Ending: ( 0)
  off-line scheduling (Y/N): (Y) Trace Logging (Y/N): (Y)
  Save Generated off-line Runstreams (Y/N): (N)
Report Format Information (for printed reports):
  Lines per page (066) Top margin (06) Bottom margin (06) Lines per inch (06)
  Banner: (U) U - User-id, D - Dept number, C - Custom
  default characters: wildcard (#) scan (~) Null (@) Use Qwizz (Y/N) (N)

1Help 2Menu 3Proces 4Abandn 5 6 7 8 9 ( )

```

The InfoQuest "System Id" is a unique number associated with a particular InfoQuest system. The minimum requirement is one InfoQuest system id for each InfoQuest system; however, since there can be multiple EXEC account/user-id pairs configured for InfoQuest, there may be multiple InfoQuest system ids for a particular InfoQuest.

The configuration information entered is stored in the COMUS cataloged file, SYS\$LIB\$*INFOQ\$CONF.

Function "I" on the configuration screen should be executed only the very first time InfoQuest is installed on your system. If it is executed a second time, any external configuration in SYS\$LIB\$*INFOQ\$CONF previously configured will be lost. The "I" function only initializes the configuration file. Use the "U" function to enter a new configuration.

Your site's EXEC analyst and BIS coordinator should be able to assist you in obtaining the information concerning the batch port device name, run card, Q-LINK program file, off-line batch server class and report format. The BIS Coordinator who has done the BIS activities in the previous chapters has the information to complete the remaining InfoQuest Mode and its password, the batch port sign-on with its department number and password, and the station to which batch port errors, if any, are to be returned.

The external configuration program is required. The system id identifies which Q-LINK is linked to which BIS batch port device. An InfoQuest can have multiple system ids from 1 to 99. You can establish your system ids. for multiple Q-LINK, BIS and InfoQuest installations, various applications, and even department sign-ons.

But for an initial InfoQuest installation, start off simple! First, initialize the configuration file with the "I" function. Then, the first system id installed must be System Id "01".

The system id is associated with the files of the InfoQuest installation mode. If the default installation mode was used to install InfoQuest, leave the Access InfoQuest Installation Mode field blank. If another mode was used to install InfoQuest, enter the appropriate letter (A-K) that corresponds to the COMUS mode selected (INFOQA through INFOQK).

The external configuration program has three main components: parameters required for batch porting, parameters required for the batch job and parameters required for report formatting on the system printer. They are:

The Batch Port Information (MAPPER-based InfoQuest, only):	
Batch Port Device Name	Name of the BIS batch port defined in the generation of the EXEC.
Mode, Mode Password, Type	Mode where the BIS coordinator placed the InfoQuest installation. You obtain the password for this mode from the coordinator. The Type must be "I".
BP Error Run, Error Station	"BPERR" is the standard error run that comes with BIS. Error station is the station number to which batch port error messages are sent (normally the station number of the technical contact for InfoQuest).
BP Sign-on	InfoQuest comes with a BPORT sign-on (INFOQ) for the F-type in mode 218; check your registration in the F-type RID for this.
Batch Run Information:	
Run Card EXEC Account/User-id Q-LINK Program File	Valid run card image for the batch job. Account/user-id for the batch job. Product file where Q-LINK was installed.
Batch Q-LINK Server Class	Server established through Q-LINK dynamic configuration to handle off-line request processing.
Restricted Time Block	Hours, between which, off-line requests may not be run. Starting and ending times are specified using the 24 hour clock; e.g., 1:30 p.m. would be entered as "1330".
Off-line Scheduling Trace Logging Save Generated Off-line Runstream	When set to "Y", generated request runs are saved in the InfoQuest log file and subsequently started by the InfoQuest off-line request monitor. If set to "N", off-line requests are @STARTed immediately. When set to "Y", TRACE (see below) must be set to "Y". When set to "Y", log entries are maintained in the InfoQuest log file that records the events of each request run; e.g., start time, finish time, error information, etc. When set to "Y", the off-line request runstream will be saved to a file on the host. If set to "Y", the file will be deleted after request execution.

Report Format Information:	
Lines per Page Top Margin Bottom Margin Lines per Inch Banner: U -User-id, D -Department number	Actual number of lines per page. For an 11 inch form printing at 6 lines per inch, lines per page would be set to 66 (6 x 11). Number of blank lines at the top of the page before any printing occurs. Number of blank lines to be reserved at the bottom of the page after the last printed line on the page. Used in conjunction with the number of lines per page and the margins to determine the actual number of printed lines per page. For example: An 11 inch form at 6 lines per inch with top and bottom margins of 3 each will yield 60 print lines; i.e., (11 x 6)-3-3=60. Banner page that will precede the printed report, can show the user-id ("U") or the department number ("D").
Default Characters:	
Wildcard	Character to be used as a wildcard character when the user specifies the search values for a request.
Scan	Character to be used as a scan character when the user specifies the search values for a request.
Null	Character to be used as a null character when the user specifies the search values for a request. Null value searches are only valid for view items generated from RDMS 1100 table columns.
Other:	
Use QWizz	QWizz is a high-performance statistical processor from KMSYS Worldwide, Inc. When set to "Y", InfoQuest will use this processor to generate summary requests. To enable this feature, QWizz must have been previously installed. For more information regarding QWizz, contact KMSYS Worldwide, Inc.

4.2.2 Other Possible External Configurations

1. It might be desirable to restrict users to using different server classes that are dedicated to off-line processing. A separate system id could be assigned for each of these classes. It should be noted that each class can be dynamically configured independent of other classes. Such Q-LINK class parameters as MAX SUP TIME, MAX SERVERS IN CLASS and MAX QUEUE size can be tuned for peak performance.
2. Where some requests might take longer to run and/or generate more result lines than other requests, separate system ids could be generated to restrict the hours during which an off-line request could be executed.
3. In certain cases, it might be desirable to create separate system ids for individual applications; i.e., the Accounts Receivable Department could be set up to use a different system id than that for the Payroll Department. Each system id could use a different batch port, could have a different run priority, use a different server class, etc. Here again, performance might be the consideration.

4. One final example, if different system printers are available at your site and the printers produce different densities (e.g., 8 lines per inch as opposed to 6 lines per inch), a separate system id could be generated for each unique printer.

Chapter 5: InfoQuest Client Setup

This chapter is only required when installing InfoQuest Client. When installing the host component, this chapter may be skipped.

5.1 System Requirements

- Any currently supported Windows platform.
- InfoQuest Client requires approximately 6MB of available disk space (local hard disk or network logical disk).

5.2 Things You Need to Know Before You Install*

Connection to Host through TCP/IP Direct Connect:

- 1) TCP/IP Connection Type
 - TPO to an HLC
 - DCP as an IP Router
 - TPO to a DCP
- 2) Host Name or IP Address of 2200/DCP as determined from 1) above.
- 3) CMS Process or Telcon XEU for:

DCA TS:	HLC/Router:
Telcon XEU value †	CMS PROCESS value ‡

† Names currently used on \$\$OPEN commands

‡ RSDCSU (DEMAND)

*Consult with your Site Communications Administrator to assist you in determining these settings.

5.3 Setup

The installation process will present a series of dialog boxes (windows) that ask you to select the drive and directory where the product is to be installed and other important dialogs required for installation. We recommend that you take the defaults whenever possible. Follow this procedure to install InfoQuest Client:

- 1) If you have downloaded a version from our Web or FTP site, you will need to unzip the files into a single temporary directory and run InfoQuestClient.exe.

- 2) If you have received an installation CD from KMSYS Worldwide, Inc., insert the InfoQuest Client CD in your drive. The setup process should begin automatically.
- 3) Follow the instructions on the screen when presented.

Normally, you configure a single InfoQuest Client-to-Host connection during the initial install of InfoQuest Client; however, once the setup is complete, you may configure the connection at any time with the following procedure:

- 1) Run the UTS Configuration Utility in the InfoQuestClient folder.
- 2) From the UTS eXpress Enterprise Component Configuration window, you may add, edit and duplicate configured screens. Also from this window, clicking the Configure Connections button allows you to maintain Open Ids and Host Virtual Destinations. In addition, extensive on-line configuration assistance is available by pressing the Help buttons or selecting the Help menu items where appropriate.

5.4 Sign-On Script

Upon completion of the setup process, first-time users should develop a sign-on script to be used by InfoQuest Client when signing on to the 2200 host. A sample script, "Signonscript.xls", is provided in the InfoQuest installation directory on your PC (normally, "C:\Program Files\KMSYS Worldwide\InfoQuestClient\5.0\Scripts\"). Use the Script Editor program in the InfoQuest Client folder to alter this script.

Usually, very little has to be altered in this sample script. For example, if InfoQuest was installed with an alternate COMUS installation mode, you will need to change the product file name on the @XQT statement.

Chapter 6: InfoQuest Validation

The InfoQuest Validation Demonstration Application has been shipped with InfoQuest to provide you with a method of quickly validating your InfoQuest installation, and to provide you with a training application. The application can be used for training both InfoQuest support personnel and end users. This application was automatically installed on your system when InfoQuest was installed through COMUS.

6.1 The Application

The InfoQuest Validation Demonstration Application is a small, sales order-entry system. It consists of three PCIOS data files and two InfoQuest index files. PCIOS files were chosen for this application to avoid complications involved in attempting to integrate other database files (i.e., DMS areas or RDMS tables) into the customer's local environment.

The five files are:

CUSTFILE	This is the customer master. It contains customer specific information such as name, address and telephone number. It is a multi-keyed Index Sequential (MSAM) file.
ORDERFILE	This file contains all current sales orders. It is also an MSAM file.
ORDERHIST	This file is used to perform historical analysis of past sales. It is a sequential file, which includes one record containing selected information from each line item of closed sales orders.
CURR-ORD-IDX	This file contains the field definitions of the CUSTFILE and ORDERFILE records. The file was built with Q-LINK's QINDEX processor, and it is required input for the Validation Demonstration Application.
ORD-HIST-IDX	This file contains the field definitions of the ORDERHIST record. The file was also built with Q-LINK's QINDEX processor, and it is required input for the Validation Demonstration Application.

The demonstration files must remain cataloged and resident under the following names in order to be used by InfoQuest:

IQ\$DEMO*CURR-ORD-IDX.
IQ\$DEMO*ORD-HIST-IDX.
IQ\$DEMO*CUSTFILE.
IQ\$DEMO*ORDERFILE.
IQ\$DEMO*ORDERHIST.

Three InfoQuest views and associated DBMs have been set up for this application. The first is a general-purpose inquiry, which allows the user to access any information on current orders based on any selection criteria.

The second view provides access to the same information as the first, but restricts the user to access by customer location. By using the customer location as a required entry point, the file search time is greatly reduced. The reduction is accomplished by accessing the CUSTFILE using the secondary key (state+city).

The third view provides access to sales historical information contained in the ORDERHIST file. This view uses sequential access, which is the simplest form of InfoQuest access.

6.2 Validation using InfoQuest Client

If you are not licensed for InfoQuest Client, skip this section and proceed to the next section, "Validation using other InfoQuest Components."

Validating the InfoQuest installation using InfoQuest Client may be completed in two parts.

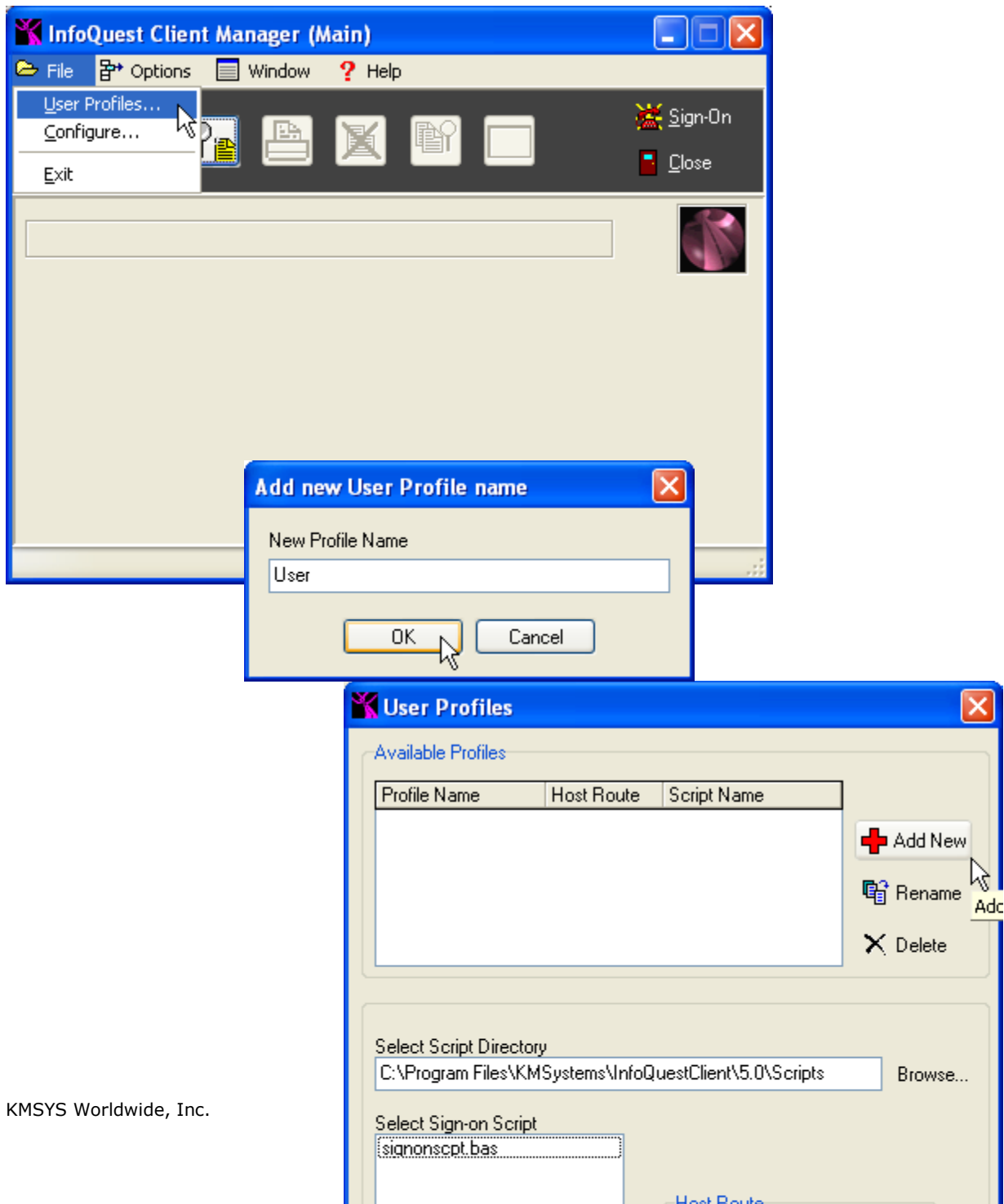
- 1) Run the UTS eXpress Enterprise Component Configuration (Start | Programs | InfoQuestClient | UTS Configuration Utility) and configure a Screen Name, a DEMAND Open Id and Virtual Destination.
Suggestion: Start by clicking Configure Connections at the bottom right-hand corner of the Component Configuration window. Create a DEMAND Connection Point (Open Id) and Virtual Destination, and link the two. Once saved, click Add Screen and select the Connection Point.
- 2) Develop a sign-on script to be used by the InfoQuest Client Manager to automatically sign on to the 2200 host.
- 3) Execute the InfoQuest Client program, link the InfoQuest Client Manager to the sign-on script and run the pre-generated InfoQuest request.

Using the Script Editor and the sample script provided (Signonscript.xls), create the sign-on script for your system.

Once the sign-on script has been created and placed in the InfoQuest Client script directory (usually C:\Program Files\KMSYS Worldwide\InfoQuestClient\5.0\Scripts\), you are ready to initiate InfoQuest Client Manager by running on the InfoQuest Client program.

The first dialog box that appears is the InfoQuest Client Manager main window. From this window, you need initially to establish a user profile that links InfoQuest Client to the recently developed sign-on script. Use the following procedure to create the user profile:

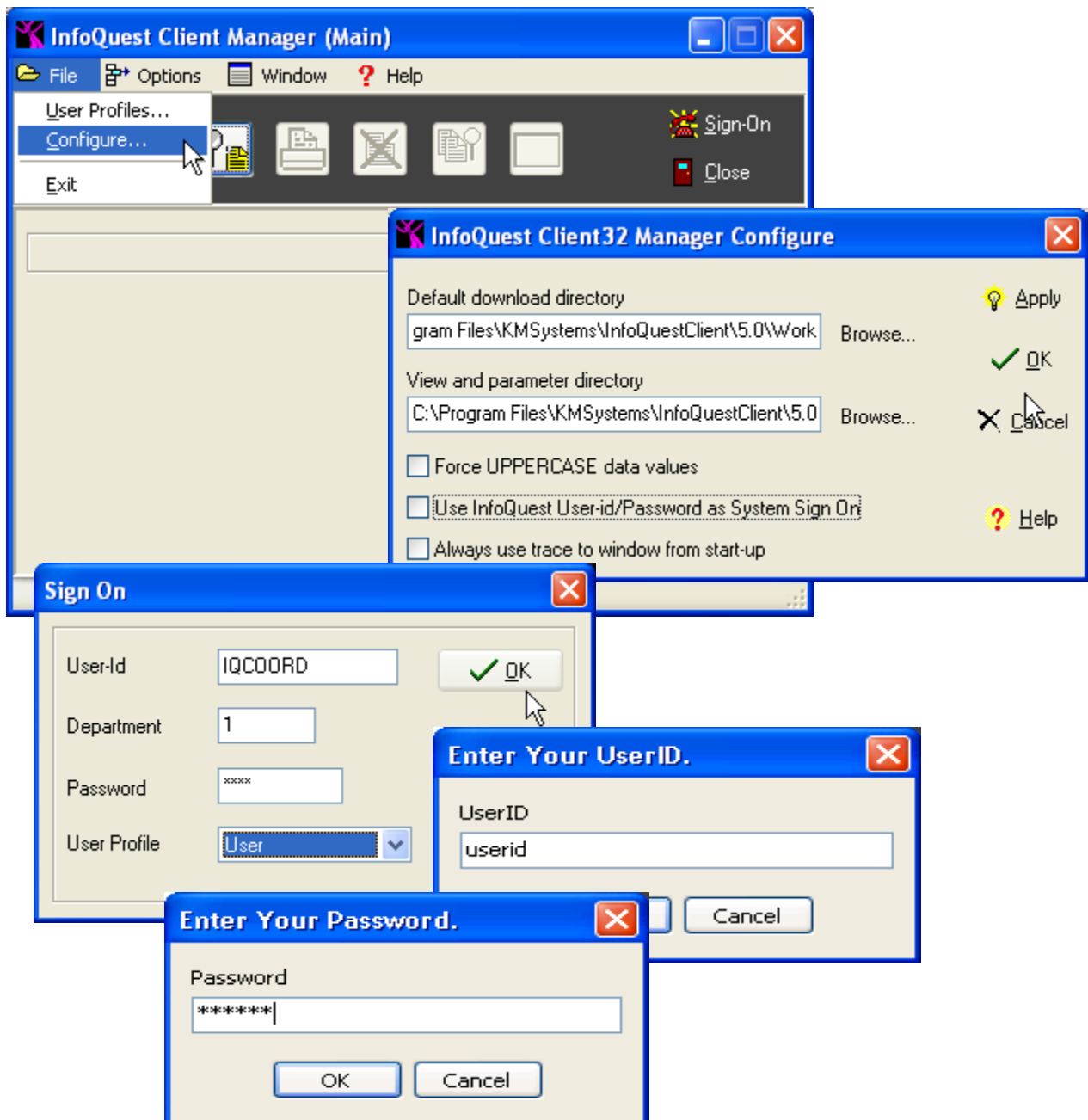
- 1) From the File menu, select User Profiles.
- 2) Select a script (.xs) from the Select Sign-on Script list box.
- 3) Select a screen name from the Host Route drop-down list box.
- 4) Click the Add New button.
- 5) Enter a New Profile Name and click the OK button.
- 6) Press the OK button on the User Profiles dialog.



You may now sign on using the initial InfoQuest administrative user id (IQCOORD), department (1) and password (OQEX) provided automatically when InfoQuest was first installed. For security reasons, once the Administrator has established their own user id and password, the IQCOORD user id should be deleted.

For the purpose of this verification, setup InfoQuest Client to prompt for an OS 2200 demand user-id and password.

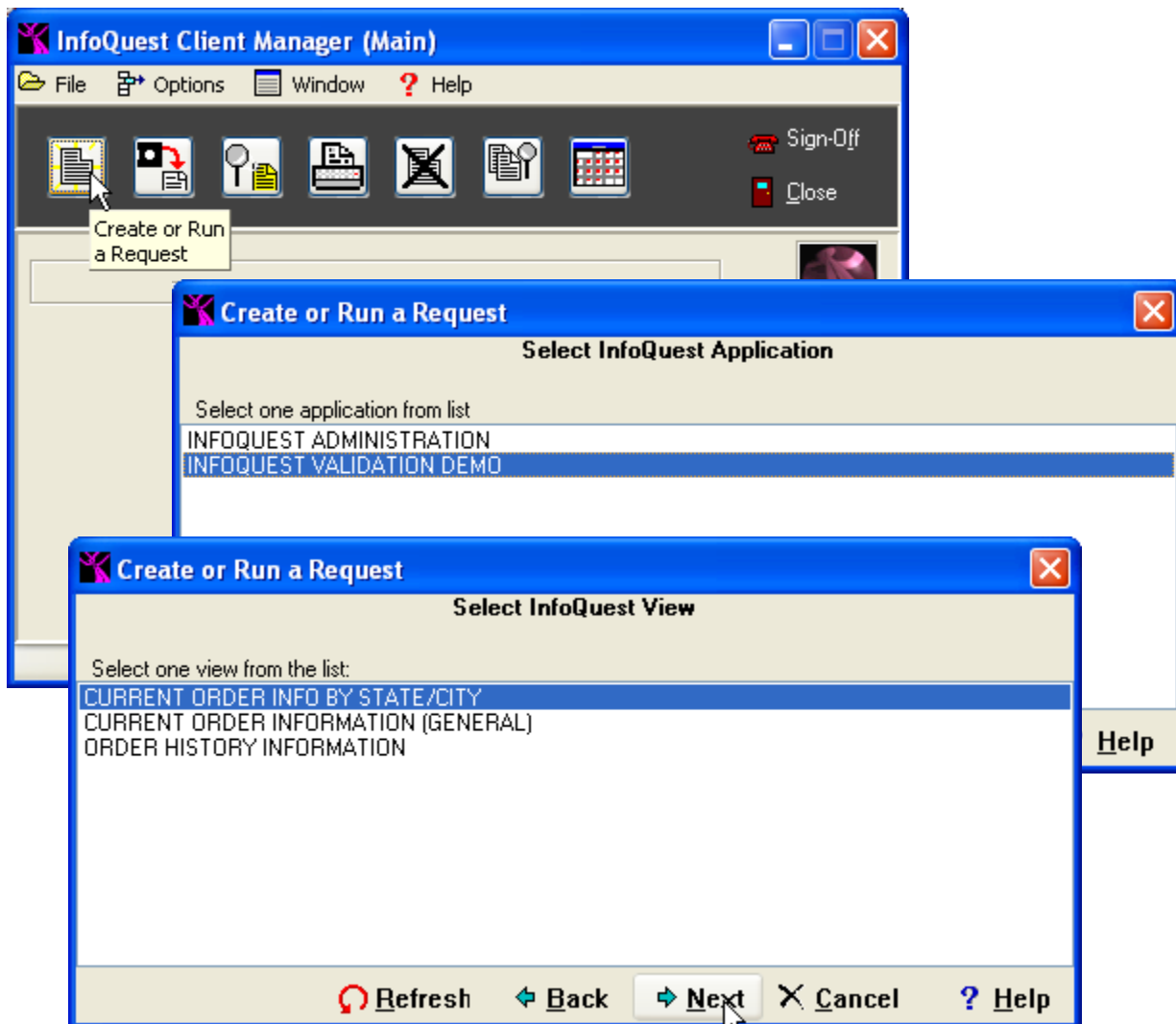
Prior to pressing the Sign-On button, select Configure from the dialog's menu bar. When the InfoQuest Client Manager Configure dialog appears, uncheck the Use InfoQuest User-id/Password as System Sign-On box and press the OK button. Once the Sign-On button is pressed, you will be prompted to enter your OS 2200 DEMAND system user id and password. Later, if the InfoQuest Administrator chooses to register the system user id and password as the InfoQuest user id and password, this box may be checked once again.



Once the sign-on process is complete, click on the newly enabled "Create or Run a Request" button on the button bar.

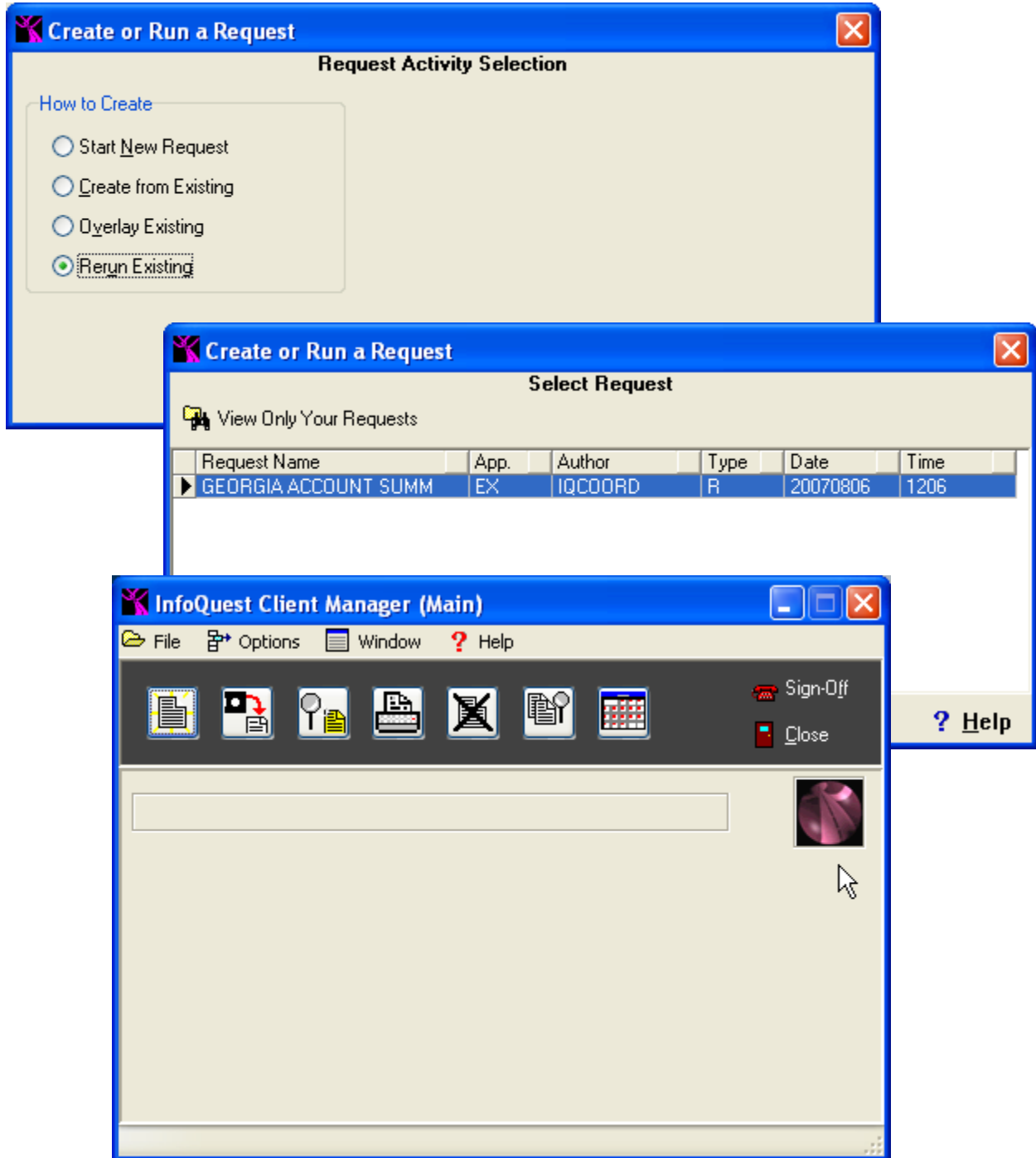
Along with the views and DBMs mentioned earlier, a set of pre-written InfoQuest reports are provided. These reports may be run to validate your InfoQuest installation. To process a pre-written report, use the rerun report option (see next page) after selecting the InfoQuest Validation Demo application and desired view. The pre-written reports may also be used as training aids.

Of the three views available for validation, choose the one titled CURRENT ORDER INFO BY STATE/CITY. The pre-generated request using this view will run quickly with the fewest lines returned.

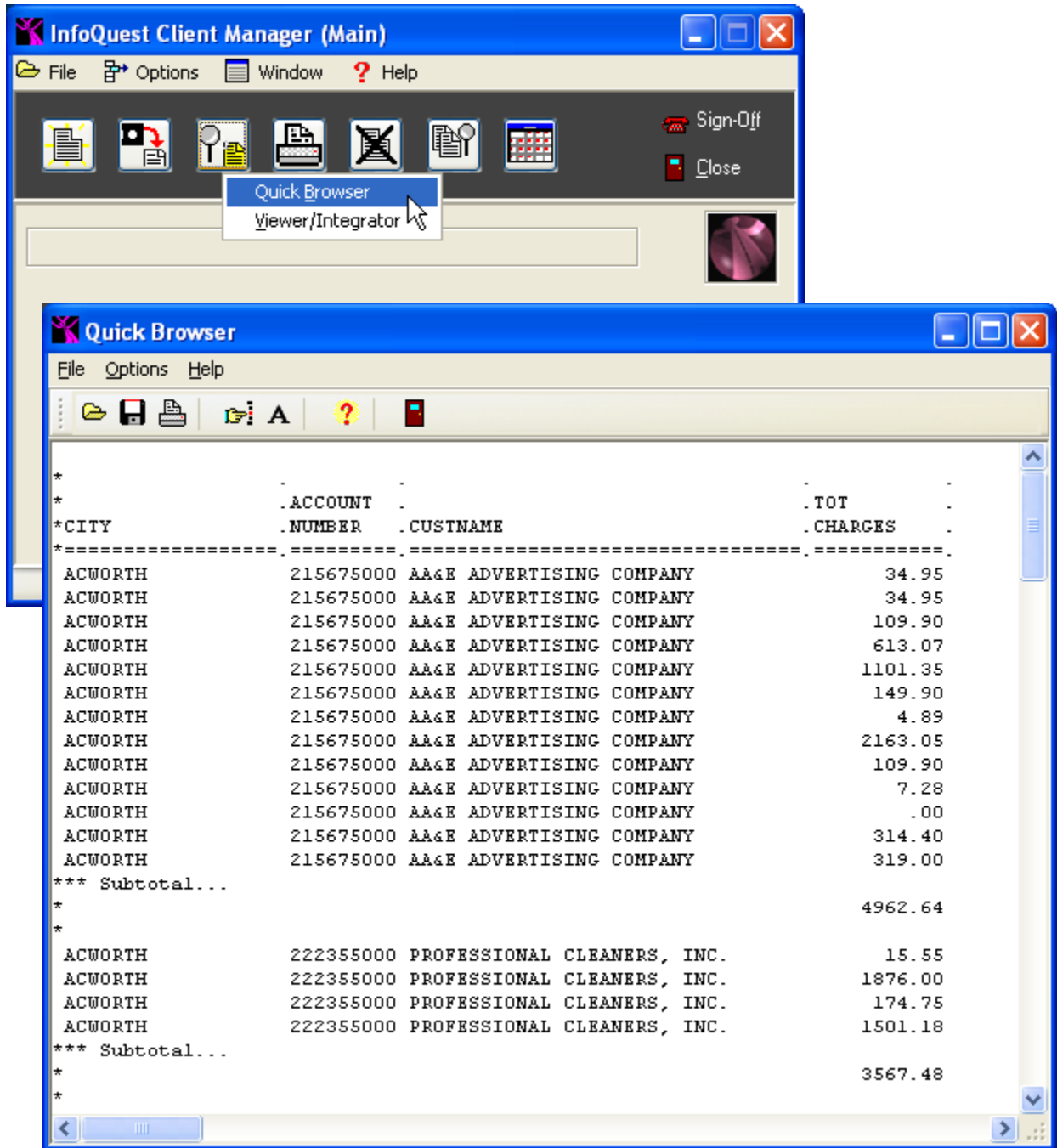


Next, choose Rerun Existing to see a list of predefined reports (only one shown in the example on the next window).

As the request is being processed by InfoQuest, a spinning icon appears letting you know that the request is in progress on the host.



After the request has been processed, use the Download Results to transfer the results of the request to the PC and store it in a DOS file. Next, use the Quick Browser selection from the list of options that appear when you press the View Downloaded Result File button. A standard open dialog will appear allowing you to select the file previously downloaded.



6.3 Validation using other InfoQuest Components

This section should be followed if you are licensed for either the InfoQuest for BIS or the InfoQuest/EX (non-BIS) component. Both components virtually look and function the same. The only major difference is from where they are invoked.

InfoQuest/EX is initiated from a DEMAND session by calling the InfoQuest/EX processor (@IQEX[x] where x is dependent upon the COMUS mode used to install InfoQuest (See Chapter 2).

BIS-based InfoQuest is initiated by calling the InfoQuest run (IQ) while signed on in BIS.

The first screen that appears is the InfoQuest/EX Main window. From this window, you may sign on using the initial InfoQuest administrative user id. (IQCOORD), department (1) and password (IQEX) provided automatically when InfoQuest was first installed. For security reasons, once the InfoQuest Administrator has established a personal user id and password, the IQCOORD user id should be deleted.

Along with the views and DBMs, a set of pre-written InfoQuest reports will be set up. These reports may be run to validate your InfoQuest installation. To process a pre-written report, use the rerun report option after selecting the InfoQuest Validation Application category and desired view. These reports may also be used as training aids.

Execute the InfoQuest report generation run (IQ when using the BIS-based InfoQuest or @IQEX(x] where x is dependent upon the COMUS mode used to install InfoQuest) and select the InfoQuest Validation Demo application. Any of the three views displayed may be selected.

```

=====
InfoQuest : Application Category Selection
=====
Enter TARGET Beginning with ( _____ )

      TAB to a Category Below and Transmit :

      ( ) INFOQUEST ADMINISTRATION
      (■) INFOQUEST VALIDATION DEMO

                                                    Page 1 of 1
1Help 2 3 4Abandn 5 6 7 8RollFw 9RollBk10 Page

```

Select the CURRENT ORDER INFO BY STATE/CITY view.

```

=====
InfoQuest : Application view selection
=====
Enter TARGET Beginning with ( _____ )

      TAB to a View Below and Transmit :

      (■) CURRENT ORDER INFO BY STATE/CITY
      ( ) CURRENT ORDER INFORMATION (GENERAL)
      ( ) ORDER HISTORY INFORMATION

                                                    Page 1 of 1
1Help 2Back 3 4Abandn 5 6 7 8RollFw 9RollBk10 Page

```

Next, choose Rerun an Existing Request to see a list of predefined reports (only one shown in the example on the next screen).

```

=====
InfoQuest : Application Activity selection
=====
Application - SAMPLE APPLICATION
View       - CURRENT ORDER INFO BY STATE/CITY
Enter type of request : (R) (Options are listed below)

R-Creates a Report (Default)
F-Makes an EXEC File

TAB to Desired activity and TRANSMIT :

( ) Create a NEW Request (Saved in Directory) _____
( ) Create a Request from an EXISTING Request _____
(■) Rerun an Existing Request _____
( ) Change Search Values on an Existing Request _____
( ) Overlay an EXISTING Request _____

( ) Debug Request _____
( ) User Maintenance Functions _____

1Help 2Back 3 4Abandn 5 6 7 8 9 10

```

Upon selecting a report, InfoQuest will execute the generated report program and actually retrieve the data.

```

=====
InfoQuest : select a Request From Directory
=====
Name of Request          TARGET(_____)
                        Date and Time   Author      Type
(■) GEORGIA ACCOUNT SUMMARY_____ 20070806 120644_IQCOORD  _   R

Page 1 of 1
Tab to Desired Request and Transmit
1Help 2Back 3 4Abandn 5UserRpt 6 7 8RollFw 9RollBk10

```


Chapter 7: ACOB Library Considerations

There are several possible permutations of ACOB installations, which may cause some problems when generating InfoQuest. The InfoQuest default generation expects the ACOB library and the CBEP\$\$ACOB module to be in the file SYS\$LIB\$*ACOB and the ACOB processor call to be @ACOB.

The ACOB library consists of one to three cataloged files (as installed by COMUS). The default library file is SYS\$LIB\$*ACOB. It will contain one (and only one!) CBEP\$\$ACOB element. Depending on your site's choices during the ACOB installation, this element will have a version name of:

- | | |
|-------------|--|
| PART-LIB-CB | Utilized for collections not linking to the C\$DML common bank but which use common banked versions of the other ACOB library routines. PART-LIB-CB is the default for the MODE=A ACOB install or may result from a MODE=B install given appropriate selections. If no mode is specified when ACOB is installed, PART-LIB-CB is the default installation option. |
| FULL-LIB-CB | Utilized for collections linking to the C\$DML common bank, FULL-LIB-CB is the default for the MODE=C ACOB install, or may result from a MODE=B install given appropriate selections. |
| NO-LIB-CB | Utilized for collections not linking to ANY ACOB common bank, NO-LIB-CB can only result from a MODE=B installation of ACOB. |

With this release of InfoQuest, only the PART-LIB-CB installation of ACOB may be used to generate and install InfoQuest.

The other ACOB library files which may optionally be created during the ACOB installation process are:

- | | |
|---------------------|---|
| SYS\$LIB\$*ACOB-DML | This file is created to hold the FULL-LIB-CB version of the CBEP\$\$ACOB element. It allows using the C\$DML common bank even though that is not the default for your site. It is always created by a MODE=A ACOB installation and may be created during a MODE=B install. The ACOB documentation refers to SYS\$LIB\$*ACOB-DML as the "utility CBEP\$\$ACOB" file. |
| SYS\$LIB\$*ACOB-CB | This file is created to hold the PART-LIB-CB version of the CBEP\$\$ACOB element. It allows using the ACOB common banked libraries (except C\$DML) even though that is not the default for your site. This file is only created during a MODE=B installation of ACOB. The ACOB documentation refers to this file as the "common bank CBEP\$\$ACOB" file. |

You must select the element, CBEP\$\$ACOB/PART-LIB-CB. In addition, if your ACOB library file does not contain the required relocatable versions of the ACOB library routines (an ACOB installation option is to delete those which are also contained in the installed common banks), you will have to manually load those routines from the ACOB release tape and place them in a sideline file. The following SGS will normally be correct for selecting the proper CBEP\$\$ACOB element. Also, see the CO\$ACOBPROCESSOR SGS.

```
INCLUDE SYS$LIB$*ACOB-CB,CBEP$$ACOB/PART-LIB-CB
```

If you have either your ACOB library or ACOB compiler installed in a non-standard file, you must also include a CO\$ACOBPROCESSOR SGS (see the COMUS User Guide for additional information). This SGS is specified as:

```
CO$ACOBPROCESSOR CALL NAME IS 'q*f.ACOB' ;
```

```
OPTIONS ARE ces LIBRARY FILE IS 'q*f.'
```

The call name of the compiler and the library file are entirely arbitrary and must simply match the way ACOB is loaded on your system. The compiler options must include options for listing control. Options such as 'T' (reverse DISPLAY and DISPLAY-1 usage defaults) will prevent proper operation of InfoQuest. If you need to specify any ACOB 'extra-options', you may supply them as an optional second subfield following the primary options. You may use the literal string NONE for the options if you do not wish to specify any options.

Note: If you are unsure how your site's ACOB library is installed (i.e., what libraries, if any, are usable from common banks), you should look at the version names of the CBEP\$\$ACOB elements in the three library files mentioned in the above discussion; however, you can only include the CBEP\$\$ACOB/PART-LIB-CB. This procedure may be complicated by the fact that for compatibility with pre-COMUS ACOB installation procedures, many sites may not use the default ACOB library file names (these can be changed on the MODE=B ACOB install or by using the IN\$FILEn parameter on the COMUS INSTALL ACOB command). You can determine which library files were registered as part of the ACOB installation by using any text editor to view the element:

```
SYS$*DATA$.CO$INSTALL$/COMUS$
```

Chapter 8: Applying Changes to InfoQuest

If any changes are to be applied to any of the system components (i.e., you have received a fix, not included in the release, from KMSYS Worldwide), this chapter should be followed before starting the COMUS BUILD; otherwise, you will not need this chapter.

Any changes to InfoQuest will be made through the COMUS BUILD process. The output of the BUILD will be a product master (tape or disk) ready to be installed.

8.1 COMUS Change Format

The following procedure can be used if the fix you receive is in COMUS change format, ready to be applied to InfoQuest using the COMUS batch insert before the BUILD (this is accomplished by simply adding the change element):

```

▶@qual qkms
▶I:002333 QUAL complete.
▶@comus infoq
▶COMUS 77C (891106 1824:55) 1993 Mar 18 Thu 1920:47
▶COMMAND ? ▶@add pf.infoq/chg

▶***** CHANGE KMS00005 INSERTED IN DATABASE
▶UPDATING ACCESS FILES ...
▶ACCESS FILES HAVE BEEN UPDATED
▶INSERT TASK COMPLETED *****
▶demand
▶INSERT INFOQUEST CHANGE (SITEID = KMS) SCREEN MODE ?▶exit
▶END COMUS
▶

```

8.2 TCF Change Format

If the fix you receive is in TCF format and not COMUS change format, you can use the following COMUS full-screen INSERT to apply the change:

```

▶@qual qkms
▶I:002333 QUAL complete.
▶@comus infoq
▶COMUS 6R8D (060816 1323:09) 2007 Aug 06 Mon 1349:11
▶Copyright (c) 1995-2006 Unisys Corporation.
▶All rights reserved.
▶UNISYS CONFIDENTIAL
▶Database Qualifier: QKMS
▶COMMAND ? ▶insert
▶INSERT INFOQ CHANGE (SITEID = KMS) SCREEN MODE ?▶

```

Simply transmitting on the previous query will place you in full-screen mode. All the required information is filled in as is shown in the following example:

```

** CHANGE **      PRODUCT : INFOQ      CHG-NUMBER :
PROGRAMMER  : InfoQuest Installer    CLASS1   : Fix
APPLY-START :                        STATUS    :
APPLY-END   :                        APPLIES-TO :
MERGE-SEQ   :
REL-CHANGES :
UCFS        :
FEATURE     :
KEYWORDS    : element

DESCRIPTION : This is an example of a COMUS full-screen INSERT with the
              change having been placed into the TCP formatted element:

              infoqpf.infoq/tcf

                                          COMMAND (I,R,C,D) : █

```

FIELDS MARKED WITH MUST BE FILLED IN

Once the change has been properly documented on the previous screen, the actual code can be applied. Here it is shown coming from an element in a program file:

```

▶CODE :▶@add infoqpf.infoq/tcf
▶CODE :▶
▶***** CHANGE KMS00005 INSERTED IN DATABASE
▶UPDATING ACCESS FILES ...
▶ACCESS FILES HAVE BEEN UPDATED
▶INSERT TASK COMPLETED *****
▶INSERT INFOQ CHANGE (SITEID = KMS) SCREEN MODE ?▶list
▶LIST INFOQUEST CHANGE ? ▶select num=kms5
▶#1 NUM : KMS00005 SELECT LIST: 1
▶LIST DIRECTIVE ?▶cview 1

```

Also, notice that it was decided to display the change in the COMUS database by using the COMUS commands: LIST, SELECT and CVIEW. The following is a sample of how the output screen might appear:

```

CHG-NUMBER      : KMS00005      STATUS      : TEST
KEYWORDS       : ELEMENT
DESCRIPTION    :
                This is an example of a COMUS full-screen INSERT with the
                change having been placed into the TCP formatted element:

                infoqpf.infoq/tcf
ELEMENTS       : ELEMENT
PRODUCT       : INFOQ          ORG          :          DATE          : 6 AUG 07
CLASS1        : FIX            UPDATE-NUM  : 0          UPDATE-DATE: 6 AUG 07
CLASS2        : MINOR          INT-LEVEL :          INT-DATE   :
CLASS3        : MAJOR          APPLY-START:          APPLY-END  :
STATUS        : TEST          MERGE-SEQ : 000
SORT-SYSNUM   :
FEATURE       :
PROGRAMMER    : INFOQUEST INSTALLER
LINES OF CODE : 3
CODE         :
:*ELEMENT
:-1000,1000   element
:             first code line at 1000
== END CHG: KMS00005 =====
▶VIEW DIRECTIVE ?▶■

```


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