Infor Infinium Application Manager Guide to Infinium Application Manager

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About This Guide

This section focuses on the following information:

- Purpose of this guide
- Conventions used in this guide
- Organization of this guide
- Conventions used in this guide
- Related documentation

Intended audience

This guide is for the Infinium Application Manager developers who are responsible for using Infinium AM as developers.

Purpose of this guide

You should use this guide as a reference at your site and also to complement the instructor’s presentation during a portion of the Infinium AM technical training course.

Organization of this guide

This guide is task oriented. We have grouped related tasks into chapters. Each chapter contains overview information and step-by-step instructions to lead you through the tasks.

Conventions used in this guide

This section describes the following conventions we use in this guide:

- Fonts and wording
- Function keys
- Character-based and graphical-based screens
- Prompt and selection screens
- Promptable fields
- Infinium applications and abbreviations

Fonts and wording

Convention	Description	Example
Italic typeface	Menu options and field names The guide uses the same abbreviations as the screen.	*Work With Controls* Use Max Lnth to specify the maximum length of alpha user fields.
Bold standard typeface	Used for notes, cautions and warnings	**Caution:** You must ensure that all Infinium AM users are signed off before reorganizing and purging. If there are jobs in the queue, those files will not be reorganized.

Convention	Description	Example
Bold typeface	Characters that you type and messages that are displayed	Type **A** to indicate that the position is alphanumeric and type **N** to indicate that the position is numeric. The following message is displayed: **Company not found**
F2 through F24	Keyboard function keys used to perform a variety of commands.	Press F2 to display a list of available function keys.
F13 through F24	Function keys higher than F12 require you to hold down the Shift key and press the key that has the number you require minus 12.	Press F19 to work with project and activity comments.
Select	Choose a record or field value after prompting.	Select **C** (capitalization), **E** (expense) or **B** (both) as the *Capitalization code* value.
Press Enter	Provide information on a screen and when you have finished, press Enter to save your entries and continue.	Press Enter to save your changes and continue.
Exit	Exit a screen or function, usually to return to a prior selection list or menu. May require exiting multiple screens in sequence.	Press F3 to return to the main menu.
Cancel	Cancel the work at the current screen (page) or dialog box, usually to return to the prior screen (page).	Press F12 to cancel your entries.

Convention	Description	Example
Help	To access online help for the current context (menu option, screen or field), press Help (or the function key mapped for help). To move through the other applicable levels of help, press Enter at each help screen. To return directly to the screen from which you accessed help, exit the help screen by clicking Exit or by pressing F3.	Press Help for more information about the current field.
[Quick Access Code]	Quick access codes provide direct access to functions. Most quick access codes in Infinium AM consist of the first letter of each word of the menu option name.	Work with sets [WWS]
Publication and course titles	Unless otherwise stated, titles refer to Infinium applications and use standard name abbreviations.	*Infinium Application Manager Guide to Basics* is referred to as *Infinium AM Guide to Basics.*

Function keys

Infinium AM function keys and universal Infinium AM function keys for the System i are described in the table below. All Infinium AM function keys are identified at the bottom of each screen.

Function key	Name	Description
F1	Help	Displays help text
F2	Function keys	Displays window of valid function keys
F3	Exit	Returns you to the main menu
F4	Prompt	Displays a list of values from which you can select a valid entry

Function key	Name	Description
F10	Quick Access	Enables you to access another function from any screen Type the quick access code in *Level*. You can change the application designator, such as PA, GL, IC and so forth, by selecting another application.
F12	Cancel	Returns you to the previous screen
F22	Delete	Deletes selected item(s)
F24	More keys	Displays additional function keys at the bottom of the screen

Prompt and selection screens

A prompt screen, similar to Figure 1, is the screen in which you type information to access a record or a subset of records in a file.

A selection screen, similar to Figure 2, is the screen from which you select a record or records to perform an action.

When we first explain a task in this guide, we fully document how you access a prompt and selection screen. If a related task uses that prompt or selection screen, we include the prompt and selection steps in that task. However, we do not include the screen again.

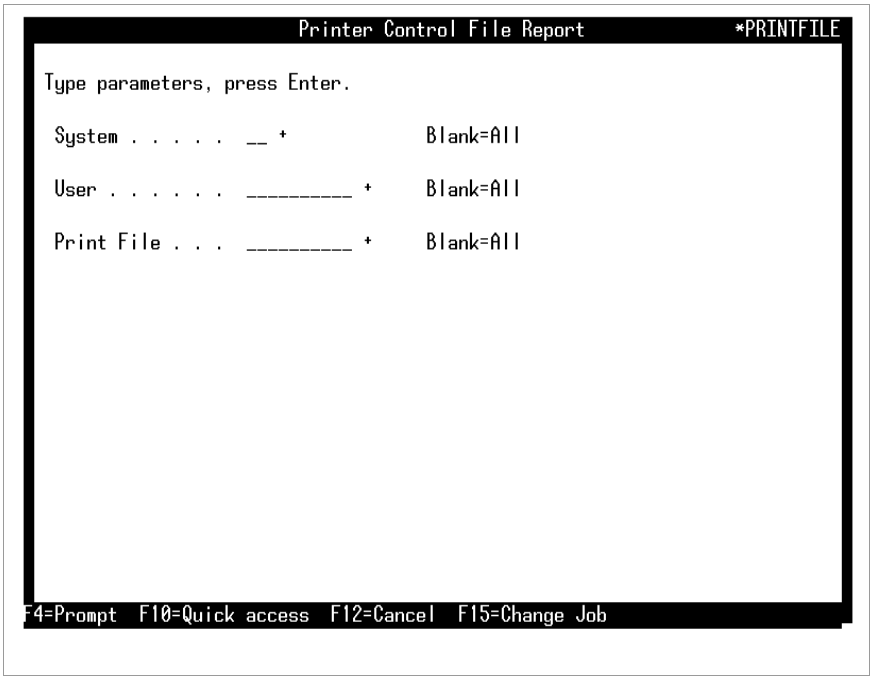

Figure 1: Prompt screen

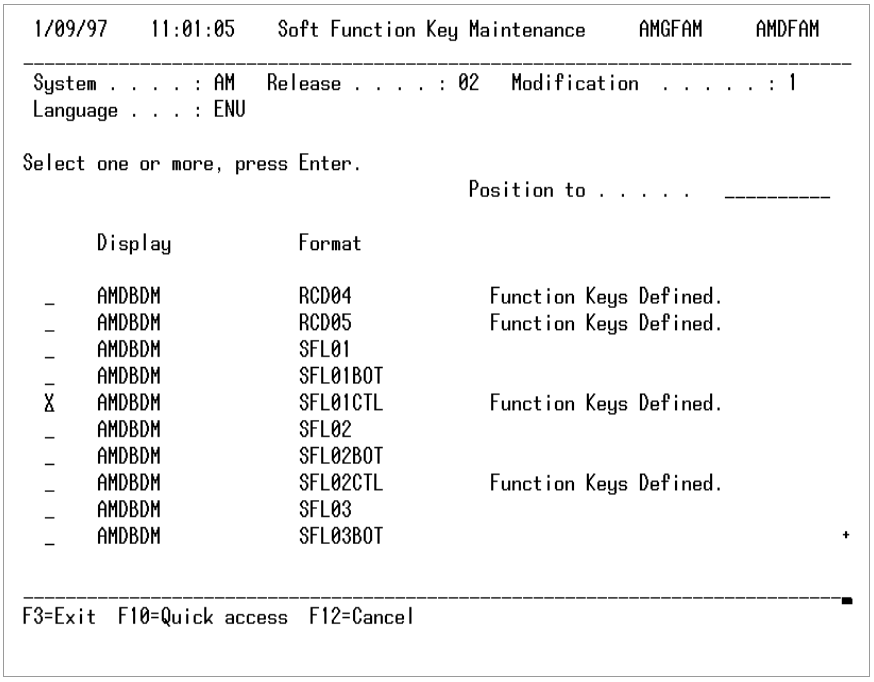

Figure 2: Selection screen

Promptable fields

A plus sign displayed next to a field indicates that you can choose your entry from a list of possible values. Place the cursor in the field and press F4 to display a list of values.

To select an entry perform one of the following:

- Position the cursor at the desired value, type 1 and press Enter.
- Type the value in the appropriate field.

Infinium applications and abbreviations

The following table lists Infinium names and the corresponding product abbreviations that are associated with this product.

Application	Abbreviation
Infinium Application Manager Infinium Application Manager Extended	Infinium AM Infinium AM/X
Infinium Query Infinium Query Extended	Infinium QY Infinium QY/X
Infinium Financial Management Suite	**Infinium FM**
Infinium Accounts Receivable	Infinium AR
Infinium Cashbook	Infinium CB
Infinium Currency Management	Infinium CM
Infinium Financial Products	Infinium FP
Infinium Fixed Assets	Infinium FA
Infinium General Ledger	Infinium GL
Infinium Global Taxation	Infinium GT
Infinium Income Reporting	Infinium IR
Infinium Payables Ledger	Infinium PL
Infinium Project Accounting	Infinium PA
Infinium Purchasing/Payables Exchange	Infinium PX
Infinium ReportWriter	Infinium RW
Infinium Human Resources Suite	**Infinium HR**
Infinium Flexible Benefits	Infinium FB
Infinium Human Resources	Infinium HR

Application	Abbreviation
Infinium Human Resources/Payroll	Infinium HR/PY
Infinium Human Resources International	Infinium HR/UK
Infinium Payroll	Infinium PY
Infinium Training Administration	Infinium TR
Infor Human Capital Management Infinium Self-Service	Self-Service
Infinium Materials Management Suite	**Infinium MM**
Infinium Cross Applications	Infinium CA
Infinium Electronic Exchange	Infinium EX
Infinium Inventory Control	Infinium IC
Infinium Journal Processor	Infinium JP
Infinium Order Processing	Infinium OP
Infinium Purchase Management	Infinium PM
Infinium Process Manufacturing Suite	**Infinium PR**
Infinium Advanced Planning	Infinium MP
Infinium Formula Management	Infinium PF
Infinium Laboratory Management	Infinium LA
Infinium Manufacturing Control	Infinium MC
Infinium Regulatory Management	Infinium RM

Related documentation

For further information about Infinium Application Manager, refer to the following:

- *Infinium AM Guide to Basics*
- *Infinium AM Programmer's Guide*
- *Infinium AM Technical Guide*
- *Infinium AM Quick Reference Card*

Installation instructions and release notes are available on Infor365.

Chapter 1 Overview of Infinium AM

1

The chapter consists of the following topics:

Topic	Page
Overview	1-2
Terminology	1-3
Naming conventions	1-7
National Language Support (NLS) enablement	1-9
The Infinium AM interface	1-10

Overview

All Infinium products use the application platform Infinium AM. Infinium AM makes all Infinium applications look and act the same.

Infinium AM has maintenance, inquiry, and reporting functions that enable you to structure your applications to best suit your needs.

Infinium AM provides the following features:

- System Application Architecture/common user design standards (SAA/CUA), which provide a consistent user interface.
- National Language Support enablement for Infinium AM and other Infinium applications.
- Customizable Action Bar with pull-down and pop-up windows.
- Modular design to support multiple versions of each application using a minimum of disk storage.
- Customizable menus for a user profile, version, or system.
- The Soft Coder development tool and supervisor's utility, which enables you to remap function keys and command keys. You can easily make function key definitions active or inactive.
- Prompt (look up) search function.
- Prompt developer's tool allows you to create a table of prompt definitions. Programmers do not have to write their own prompt/retrieval programs.
- Multi-level help for system, user-defined, field, screen, function key, menu, and extended help, up to 500 lines of text each.
- Field level security.
- Cross-application menuing.
- Multiple release/modification support.
- Job control editing: Changing a job control attribute is simply a matter of changing a field value in a job control record.
- Dynamic library list resolution.
- Function key logging.
- User-specific history logging.

Terminology

The terms below may not be familiar to you. The definitions here are meant only to introduce you to the terms and concepts. Each one is discussed in greater detail in the chapters in the guide.

Action Bar

The Action Bar is the single line of options available at the top of the main menu. Press F2 for Action Bar to position the cursor at the field in the top left corner of the screen or use tab key. Then type the first letter of an Action Bar option.

Cross-application version, user menuing

You can create or modify menus so that a user can select job controls from different systems or versions. Users with the proper authority can further customize their own menus by adding job controls to their current menu.

Group job

Infinium AM allows up to 16 open jobs per workstation. For users with the proper authority, Infinium AM provides a group job window, Group Job Options, which displays when you press the Attn key. The window displays all authorized group jobs. The active jobs are highlighted.

Group user

A group user is a user profile that is shared by several other user profiles. After you create the group user, you can add its profile name to the *Group profile* field in the other profiles. They then inherit the group's authorities.

Job controls

Job controls are comprised of information, Job Control Definition, that informs the event requester about a job process.

Job type

The job types, each designated by a letter, are:

X Program

C Command

L Linking

M Menu

T Text

Each job type determines and passes the appropriate job-specific information to the environment as defined by the current system, release, and modification values.

Logging

The user profile contains three user flags that allow you to enable or disable usage logging: menu logging, function key logging, and help key logging. The result is a usage history for each of these activities.

Menu structure

When you create a menu, job controls of type **M** for menu have an additional field under the structure column. You can give a name to a menu level in this field and thus create a menu structure. Later, when you work with a menu for another system, version, or user, you can add the structure name to a menu job. All jobs associated with the structure become part of the new menu. This step saves you from having to create the menus again.

Release and modification

Each system is created with a specific release and modification identifier in order to facilitate the running of several versions of the same system under AM. For example, System GL, release 13, modification 1, version 000 is a production version; version 100 is a test version.

System

A system is an individual application running under Infinium AM on the System i. Each application, or system, has a system definition. The system definition includes information as Active or Inactive status and library list, and so on. It also represents the Version 000 menu, for example, the System menu.

User

At the most basic level, a user is an individual profile configured to Infinium AM. The user profile contains values and flags denoting authority levels and various system functions.

User authority

Infinium AM has two types of user authorities. The first type of authority is the authority level. This authority is based on a hierarchy of levels: 1-9.

The second type of user authority is authorization to a system or version.

User authority level

The authority level range is from 1-9: 1 is the highest level of authority and 9 is the lowest. Only the most senior supervisor can or should have an authority of 1. When you create a new user, the default authority level is 9.

Authorization to a system/version

When you create a user profile, you give it a default system and version. You can also authorize the profile to additional systems and versions accordingly. In this way, you give the user direct authority to each system or version.

Inherited authority occurs in the following way. The user profile contains a field named *Group Profile*. When you type a valid group profile name in this field, the profile becomes a member of the group profile. Members of the group profile inherit its system and version authorities.

Version

A version is a unique subset, or configuration, of a system running under Infinium AM. There can be many versions, up to 999, but only one parent system, version 000. Each version can have a definition for a unique user environment. The version's environment uses some of the system's base information but has its own overrides.

Naming conventions

Objects

The following naming conventions apply to objects:

- An object name is five to eight alphanumeric characters long.
- The first two letters of an object in Infinium AM indicate its system designator. For Infinium AM, these letters are **AM**.
- The third letter of the object name is one of those below.

  C CL Program

  D Display File

  G RPG Program

  I PL/1 Program

  L Logical File

  M Message File

  P Physical File

  T Printer File

  S Data Structure

  Z System C or C Program

  A Assembler

- The fourth letter of the object name is the applicable component ID or a character denoting some aspect of the object itself. The following are all possible Infinium AM component designators:

  A Archiving

  B Entry Panels

C Common Modules

D Documentation

E Event Manager

H Help

I User Interface

J Job Controls

M Menu Controls

P Prompt (Lookup)

S System Definitions

T System Tools

U User Definitions

Y Field Level Security

Z History

Fields

Field names are from three to six characters long. Characters coming after the first two can vary widely but usually denote some aspect of the field's purpose.

Most Infinium applications follow a similar naming convention. If you are developing your own programs under Infinium AM, you should consider employing this naming convention.

National Language Support (NLS) enablement

In order to meet the requirements of international users, Infinium AM conforms to IBM's NLS standards. This adherence allows for multi-lingual configurations of our applications if your organization requires these.

The areas affected by NLS enablement include externalization of text strings in display files, printer files, commands and programs. For Infinium AM, these strings now reside in the following message files:

- **AMMSGP** - Command prompt text
- **AMMSGC** - Display file and printer file text
- **AMMSGX** - Executable information, for programs
- **AMMSGT** - Message file

The Infinium AM interface

The Infinium AM interface is a simple, easy-to-use menuing system, from which you can execute applications, check submitted jobs and spooled files, switch between systems and versions of systems, and much more. Following is an explanation of all the functionality of Infinium AM available from the main menu.

Function keys

The function keys listed below are those shipped with Infinium AM. If the keys or descriptions do not conform to your standards, each can be changed using Soft Coder. Refer to the “Defining Function Key Definitions” chapter for information on function keys.

Function key	Description
F2	To position the cursor in the action bar.
F3	To sign off or exit from the system.
F4	To select from a list of values.
F5	To lock or secure the main menu. To return to the main menu after pressing F5, type your application password and press Enter.
F6	To display messages for the current sign-on session. You can read, print or delete any of these messages.
F8	To display your news on the left side of the main menu.
F9	To display an system command line.
F10	To display the quick access window. To access a function without making menu selections, type the quick access code of the function you want to access. To access a function in another system, you must also type the system and version. Press Enter. The system places you directly into that function.
F11	To alternate between the two-panel and four-panel menu formats. This function key does not display on the main menu.
F12	To back out of the current menu level to the previous menu level.

Function key	Description
F14	To display the current status of all jobs submitted from your workstation and work with these submitted jobs. The jobs the system displays are dependent on your Infinium AM user controls.
F16	To display job control information. The cursor must be on a menu option before you press F16.
F18	To work with the output from your submitted batch jobs.
F20	To search for a menu option. The system displays a window in which you can type the words to search for a menu option name. Press Enter and the system displays all matching menu options from which you can make a selection navigating through the System.
F24	To display additional function keys.

Action Bar

The Infinium AM Action Bar is an easy way to access built-in functions that allow you to:

- Switch between systems and versions of systems, with full security
- Execute built-in utilities such as interactive SQL and calculator functions
- Maintain Infinium AM Archiving functionality

Complete the steps below to utilize the Action Bar.

1. From the main menu, press F2 for Action Bar. The cursor should now be placed on the field in the top left corner of your screen.
2. Type **S** and press Enter to switch between authorized systems and versions of systems.
3. Type **U** and press Enter to display the following built-in Infinium AM utilities, if authorized:
   - Command Entry
   - Programming Development Manager (PDM)
   - Programmer Menu
   - Structured Query Language (Interactive SQL)

- Calculator
- Change Menu
- Change Border Attributes

4 Type **A** and press Enter to access Infinium AM Archive Maintenance.

5 Type **X** and press Enter to Exit Infinium AM.

6 Type **H** for interface help text.

Switching systems

By typing **S** in the Action Bar (for Systems), you can switch between systems and versions of systems to which you are authorized.

Complete the steps below to switch systems.

1 Press F2 from the Infinium AM main menu.

2 Type **S** in the field on the top left corner of the display and press Enter.

The system displays a window with the systems that are available to you.

3 Type a non-blank character in the field preceding the system to switch to and press Enter.

If there are any versions of this system, and you are authorized to them, the system displays a pop-up window with versions of the selected system to which you can switch.

4 Type a non-blank character in the field preceding the system to switch to and press Enter. If no versions exist for the selected system, you will switch to the selected system and the default version.

Infinium AM utilities

By typing **U** in the Action Bar, you can execute the Infinium AM built-in utilities as listed above.

Complete the steps below to access Infinium AM utilities.

1 Press F2 from the Infinium AM main menu.

2 Type **U** in the field on the top left corner of the display and press Enter.

The system displays a menu with the Infinium AM utilities to which you are authorized. Each utility is either self-explanatory or described elsewhere in this manual.

Archive maintenance

By typing **A** in the Action Bar you can execute the Infinium AM maintenance for archived spooled files, as created by Infinium AM Printer Controls Archive Spooled File settings. From this application, you can print, display, and delete archived spooled files.

Complete the steps below to execute the Infinium AM maintenance for archived spooled files.

1 Press F2 from the Infinium AM main menu.

2 Type **A** in the field on the top left corner of the display and press Enter. The Archive Display maintenance screen should now display.

If no archived spooled files exist, you should see:

There are no archived files.

If archived files exist, you should see the following options (if authorized via the Infinium AM user profile archive authorities flag):

4 Delete an archived spooled file

5 Display an archived spooled file

6 Print an archived spooled file

7 Print and Delete an archived spooled file

3 Type one of the above options next to one or more of the archived spool files to display, delete or print and press Enter.

If you selected option **5** (Display), the archived spooled file displays. You can position to the line and column of the spooled file, scan for specific text in the file, and set or remove breaks in the file, to lock certain information in place on the display while being able to scroll through the remaining text. Press F3 when finished to return to the Archive Display maintenance screen.

If you selected any other option, the system displays a confirmation screen asking if you want to continue with the selected option. Press F12 to cancel or press Enter to continue processing the selected options.

4 Press F3 to Exit.

Menu search

Press F20 to display the Menu Search Utility screen. From this application you can display menu options that contain a search word or text or all options if you leave the search field blank.

Complete the steps below to display menu options.

1 Press F20 from the Infinium AM main menu.

2 Type the word or text on the search line and press Enter. The system displays the menu options that contain the word or text.

3 Press **2** to display authorized system versions. Select a system version by typing a non-blank character in the option field and press Enter.

4 To display menu and job control information, place the cursor on the select field for the menu option and press F16.

5 To display the path to a menu option, place the cursor on the select field for the menu option and press F21.

6 To execute a menu option, place the cursor on the select field for the menu option and press Enter.

Chapter 2 Working with Systems

2

This chapter is divided into a series of tasks and sub-tasks you can perform regarding Infinium AM systems.

The chapter consists of the following topics:

Topic	Page
Creating a new system	2-2
Maintaining an existing system	2-4
Deleting a system	2-6

Creating a new system

If you have the Developer's Version of Infinium AM, you can create many systems. Without the Developer's Version of Infinium AM, you are allowed to create one custom system: system CU.

Complete the steps below to create a system.

1. Select *Systems and Versions*.
2. Press F6. The system displays the System Version Maintenance screen.
3. Type the system designator, two significant initials for the product name.
4. Type a description of the system.
5. Press Enter. The system displays the System Definition Maintenance screen.
6. Type the release and modification values.
7. Complete the remaining fields on the screen using field level help for more information.
8. If you are using library code variables, make sure you have defined them already. Add the code variable type to one of the library list fields. Refer to the "Working with Code Variables" chapter for more information.
9. To add static libraries to the library list, type the library name on one of the library list fields. Remember that a static library, or element, is an actual library name.

   A library list can have up to 75 elements which can be static elements or library code variables. Each data library in the library list must have the same language code and CCSID.

   The S2KRELEASE data area stores the library type.

   - For data libraries (DTA) the S2KRELEASE data area stores the language and CCSID.

     The system uses the language code and CCSID to determine the language for Infinium applications.

   - For program libraries (PGM) the S2KRELEASE data area stores the message files.

10 Press F3 to save.

If you have enabled help, the system creates the help file members after you press F3. This process might take a few minutes depending on system resources.

A newly created system displays on the System Version Maintenance screen.

Only users with the supervisor flag turned on can enter the system/versions function.

The user who creates the system becomes the system supervisor

Maintaining an existing system

Only the system supervisor can maintain an existing system.

Follow the steps listed below.

1. Select *Systems and Versions*. The system displays the System Version Maintenance screen.
2. Type **5** in the *Opt* field to select a system. The System displays the System Definition Maintenance screen.

Displaying authorized users and supervisors

1. Press F8 to display all authorized user profiles for the system.
2. Press F12 to return to the System Definition Maintenance screen.
3. Press F6 to display alternate supervisors for the system.
4. Press F12 to return to the System Definition Maintenance screen.

Displaying variable types

1. Press F16. The six variable types are displayed:
   - ***PGML**
   - ***DTAL**
   - ***CUSTL**
   - ***SPGML**
   - ***SDTAL**
   - ***SCUSTL**
2. Press Enter to continue.

Adding another library to the list

If you need to add another library to the library list for the current system, press tab until the cursor is in the field in which you want to enter the library name.

Follow the steps below to insert the library name after a library that is already in the list without having to retype the library names that follow:

1. At the System Definition screen press F17. You might have to first press F24 to display more function keys.
2. The cursor displays in the *Insert* field where you can type the library name.
3. Type the name of the library that you want the inserted library to be placed after in the *After* field. Each library in the library list must have the same language code.
4. Press Enter.

Deleting a system

You can delete a system in two ways.

WARNING! When you delete a system, you remove its system definition, versions, job controls, user authorizations, menu structures, help text members, and event queue definitions. In other words, you delete everything that comprises a system in Infinium AM. Proceed with caution before deleting a system.

Deleting a system with option 4

Follow the steps listed below.

1. From the main menu, select *Systems and Versions*. The system displays the System Version Maintenance screen.
2. Type **4** next to the system to delete.
3. Press Enter.
4. To cancel the deletion press F12. To proceed with the deletion, press Enter.
5. A message displays at the bottom of the screen indicating that all help file members associated with the system are being removed.

Deleting a system with F22

Follow the steps listed below.

1. From the main menu, select *Systems and Versions*. The system displays the System Version Maintenance screen.
2. Type **5** in *Opt* to select a system. The system displays the System Definition Maintenance screen.
3. Press F22 to delete this system.
4. To cancel the deletion, press F12. To proceed with the deletion, press Enter.

Chapter 3 Working with Versions

3

This chapter is divided into a series of tasks you can perform regarding versions.

The chapter consists of the following topics:

Topic	Page
Creating versions	3-2
Deleting versions	3-3
Displaying authorized users and supervisors	3-4
Creating a system to version relationship	3-5
Deleting a system to version relationship	3-6

Creating versions

After you have defined the parent system, you can create up to 999 unique versions of that system. A version is a unique configuration of a system.

Complete the steps below to create a version.

1. Select *Systems and Versions*.
2. Type **5** in *Opt* to select a system.
3. Press F7. The system displays the System Version Maintenance screen.
4. Type the version number in the *Ver* field.
5. Type a description for the version in the adjacent field.
6. If you leave the *Rls* and *Mod* fields blank, the release and modification of the parent system defaults into these fields. For example, if the parent system is XY 02.3, then 02 defaults into *Rls* and 3 defaults into *Mod*. To specify a different Release/Mod for a version, type the appropriate values in these fields.
7. Specify a job description used by the version in the *Jobd* field. The default job description of ***NODEF** uses the job description of the parent system.
8. Press Enter.

Deleting versions

Complete the steps below to delete a version.

1. From the main menu select *Systems and Versions*.
2. Type **5** in *Opt* to select a system.
3. Press F7. The system displays the System Version Maintenance screen.
4. Type **4** in *Opt* next to the version to delete.
5. Press Enter.
6. A confirmation screen is displayed. If you do not want to delete the version, press F12 to return to the previous screen. To delete the version, press Enter.

Displaying authorized users and supervisors

Complete the steps below to display authorized users.

1. From the main menu select *Systems and Versions*.
2. Type **5** in *Opt* to select a system.
3. Press F7. The system displays the System Version Maintenance screen.
4. Type **6** in *Opt* next to the version number.
5. Press Enter to display the users authorized to this version.
6. Press F12 to return to the Version Maintenance screen.

Complete the steps below to display alternate supervisors.

1. From the main menu select *Systems and Versions*.
2. Type **5** in *Opt* to select a system.
3. Press F6. The system displays the System Supervisor Maintenance screen.
4. Press F12 to return to the System Definition Maintenance screen.

Creating a system to version relationship

This function is used by the AM Cross Application Program Caller **AMZCAP**.

You can create a relationship between the versions of two different systems. Complete the steps below to create a system to version relationship.

1. From the main menu select *Systems and Versions*. The System Version Maintenance screen displays.
2. Type **5** in *Opt* to select a system. The system displays the System Definition Maintenance screen.
3. Press F13 for System relations. The system displays the System Relationship Maintenance Screen.
4. In *System* and *Version*, type the system and the version to relate. The relationship is between the system/version that you selected and the system/version that you are maintaining.
5. Press Enter to create the relationship.

Deleting a system to version relationship

You can delete a relationship between a system and a version. Complete the steps below to delete a system to version relationship.

1. From the main menu select *Systems and Versions*. The system displays the System Version Maintenance screen.
2. Type **5** in *Opt* to select a system. The system displays the System Definition Maintenance screen.
3. Press F13 for System relations. The system displays the System Relationship Maintenance Screen.
4. Type **4** in *Opt* for the appropriate system and version.
5. Press Enter to delete the relationship.

Chapter 4 Working with Code Variables

4

The chapter consists of the following topics:

Topic	Page
Getting started with code variables	4-2
Creating library code variables	4-5
Creating a workstation code variable	4-9
Creating a job queue code variable	4-10
Creating an initial program code variable	4-12

Getting started with code variables

Before completing any tasks regarding code variables, you must understand the concepts described below.

Infinium AM stores up to 75 library names or code variables. Code variables are an Infinium concept. Code variables begin with an asterisk to distinguish them from names of actual libraries.

Code variables are used as place holders, which during resolution are replaced with actual objects. For example, the library list code variable *CUSTL would be replaced with one or more custom library names as defined in code variable maintenance.

Code types

Infinium provides the following code variable types. These code types display when you press F16 at the System Definition screen, except *INITIAL, *BATCH, and *WS. The first eight are for library-type objects.

Type	Description
*CUSTL	Used for an application's custom libraries.
*DTAL	Used for an application's database libraries
*PGML	Used for an application's program libraries
*SCUSTL	Used for system-level custom libraries
*SDTAL	Used for system-level database libraries
*SPGML	Used for system-level program libraries
*INITIAL	Used for creating an initial program list
*BATCH	Used for a job queue code variable
*WS	Used for work station code variables

Library code variables fall into code types. The four categories of code types are data, custom, program and language. The default value for each code type is *NODEF.

Each library code type represents a type of library. For example, the code type *DTAL points to an application's *database* libraries. There are four *application* library code types and four *system* code types.

The system code types are spelled the same as the application variable types, except for the prefix "S." The "S" denotes system.

Resolution

When a code variable is encountered as an element of the library list, that element is resolved into one or more actual library names. The resolution is based upon a hierarchy involving the current user, version, and system values. This hierarchical data is stored in the code variable files AMPCV1, AMPCV2, and AMPCV3. The hierarchy is determined by where the entry was defined, either through system definition maintenance, system version maintenance, or user maintenance.

Each code variable can resolve to as many as 75 resulting elements. Only the first 75 are regarded; the excess beyond 75 are dropped.

The resolution of library list code variables is implemented by replacing the current user library list on the System i for the executing process with the results of the resolution of all the library list code variables. The System i then uses this list to perform library list resolution.

Qualifiers

In code variable maintenance, qualifiers allow you to create multiple definitions of the same code variable. Each definition is qualified to take effect according to the conditions specified with the qualifiers. The qualifiers for library variables are:

- System Designator
- Version
- User Profile

The tasks for creating a library variable are described later in this section.

Reserved variable names

When you create a library code variable, you have the option of giving it a name of your choosing. However, you do not have to give it a name; you can take the default name instead. The default names are reserved words, so even if you do not use them, you cannot name a code variable with one of these reserved words unless you intend to use it as one of the defaults.

There are three reserved variable names. If you do not specify a library list variable, one of the reserved variables becomes the default variable. If you specify a value, you automatically create a code variable with a reserved name. This task is explained later in this section.

The following are the reserved variables:

Type	Description
*SYSTEM	The default name for library code variables created at the system definition level.
*VERSION	The default name for library code variables created from the Version Maintenance screen.
*USER	The default name for workstation code variables created from user profile maintenance.

Creating library code variables

Creating for a System

Complete the steps below to create a system.

1 From the main menu select *Systems and Versions*.

2 Type **5** in *Opt* to select a system. The system displays the System Definition screen.

3 Press F14 to display the Work with Code Variables screen.

4 Select the *Library list* option. The system displays the Code Types screen.

5 Specify a library variable to create. Decide what to name the variable. You can accept the default name of ***SYSTEM**.

Select by typing a non-blank character in the *Sel* field beside one of the code types; do not press Enter yet. The cursor moves to the right-hand column.

To accept the default reserved variable name ***SYSTEM** you can skip this step.

6 Type a variable name in *Variable/Value*. Precede the variable name with an asterisk (*****).

7 Press Enter. The system displays the Code Variable Maintenance screen.

Use this screen to enter the libraries to which the variable refers. For a new code variable, you cannot change any of the qualifier values. The code variable must take the default System/Version/User values. *Version* and *User* are going to be blank.

8 Add the libraries in the library list at the bottom of the screen. These are the libraries to which the code variables point. Each data library in the library list must have the same language code and CCSID.

The S2KRELEASE data area stores the library type.

- For data libraries (DTA) the S2KRELEASE data area stores the language and CCSID.

The system uses the language code and CCSID to determine the language for Infinium applications.

- For program libraries (PGM) the S2KRELEASE data area stores the message files.

9 When you have finished, press F3 until you return to the System Definition screen.

10 At the System Definition screen, type into the library list the code type of the variable that you created. For example, if you created a code variable *CUSTL, type ***CUSTL** in the library list.

Creating for a version

Complete the steps below to create a system version.

1 From the main menu select *Systems and Versions*.

2 Type **5** in *Opt* to select a system. The system displays the System Definition screen.

3 Press F7 to work with Versions. The system displays the System Version Maintenance screen.

4 At the Versions Maintenance screen, select a Version with **5**.

5 Select *Library list*.

6 Select the code type. Valid code types are the same as for a system code variable.

To accept the default reserved variable name ***VERSION**, skip this step.

7 Type a variable name in *Variable/Value*. Precede the variable name with an asterisk (*). If you are entering only one library name in the list, type it here.

8 Add or change the libraries in the library list at the bottom of the screen. These are the libraries to which the code variables point to when the user is working in the version. Each data library in the library list must have the same language code and CCSID.

The S2KRELEASE data area stores the library type.

- For data libraries (DTA) the S2KRELEASE data area stores the language and CCSID.

The system uses the language code and CCSID to determine the language for Infinium applications.

- For program libraries (PGM) the S2KRELEASE data area stores the message files.

9 Press F3 until you return to the System/Definition screen.

10 To activate the variable, type its code type in the System Definition library list in the order you want it to be resolved, if not already entered.

Creating for users

You can create library code variables for users from the User Profile Maintenance screen.

You can use another method to accomplish this task. When you create an additional definition for a code variable from the System Definition screen and use a user profile as a qualifier, you achieve the same result. This method is explained earlier in this chapter.

Complete the steps below to create a user.

1 From the main menu select *Users and Authorities*.

2 Type the user profile for which you are creating the code variables.

3 Press F6. The system displays the User Authorities screen.

4 Type **5** beside the appropriate system and version.

5 The Code Variable Maintenance screen displays.

Use this screen to type the libraries to which the variable refers. For a new code variable, you cannot change any of the qualifier values. The code variable must take the default System/Version/User values. Select a code variable to maintain and press Enter.

6 Add the libraries in the library list at the bottom of the screen. These are the libraries to which the code variables point. Each data library in the library list must have the same language code and CCSID.

The S2KRELEASE data area stores the library type.

- For data libraries (DTA) the S2KRELEASE data area stores the language and CCSID.

The system uses the language code and CCSID to determine the language for Infinium applications.

- For program libraries (PGM) the S2KRELEASE data area stores the message files.

7 When you have finished, press F3 until you return to the main menu.

Creating a workstation code variable

A workstation code variable points to a list of one or more workstation devices, rather than a list. Workstation code variables are user-specific. They are created from within User Profile Maintenance. This code variable is type *WS and the name of the variable is *USER. You can define up to 25 workstations for this code variable. Anyone signing on with the user profile must do so at one of the workstations pointed to by *USER. The default entry of *ALL for the user profile allows the user to sign on to Infinium AM using any workstation.

Use this feature with caution if your workstation ID numbers may change, such as with using auto configuration.

Complete the steps below to create a workstation code variable.

1. From the main menu select *Users and Authorities*.
2. Type the user profile name. The system displays the User Profile Maintenance screen.
3. If you accept the default variable name *ALL, skip to step 6.

   Type ***USER** in the *Workstation* field. Make sure you precede this variable name with an asterisk (*****).
4. Press F14.
5. Type the workstation names or numbers in the Entry fields at the lower half of the screen. Each entry will be validated as an existing workstation description.

   Press F22 to delete this code variable to remove the code variable definition *WS for this user.
6. When you have finished, press F3 until you return to the User Profile Maintenance screen.

Creating a job queue code variable

A job queue code variable points to a job queue. Job queue code variables are type ***BATCH** and the variable name is always ***SYSTEM** or ***VERSION**. Job queue code variables are associated with either a system or version. They take effect only when you enter the code type ***BATCH** in a job control that runs from the system or version associated with the code variable.

Later you can enter ***BATCH** in a job control definition to override the default job queue for its associated system or version.

Creating for a system

Complete the steps below to create a system job queue.

1. From the main menu select *Systems and Versions.*
2. Type **5** in *Opt* to select a system. The system displays the System Definition screen.
3. Press F14. The system displays the Work with Code Variables screen.
4. Select Jobq definition variables. The system displays the Code Variable Maintenance screen.
5. Type a job queue name in Entry.
6. When you have finished, press F3 until you return to the System Definition screen.

Creating for a version

Complete the steps below to create a version job queue.

1. Select *Systems and Versions*.
2. Type **5** in *Opt* to select a system. The system displays the System Definition screen.

3 Press F7. The system displays the System Version Maintenance screen.

4 Type **5** beside the appropriate Version. Press Enter.

5 Select Jobq definition variables. The system displays the Code Variable Maintenance screen.

6 Type a job queue in *Entry*.

7 When you have finished, press F3 until you return to the System Definition screen.

Creating an initial program code variable

You can create an initial program code variable for a system or version. When a user signs on or crosses over to the system/version, the programs referenced by the code variable definition execute prior to entering the system. That is, before you see the menu of that system or version, your programs run after which the system displays the menu. The default initial program is **AMCIU**.

Creating for a system

Complete the steps below to create an initial program code variable for a system.

1. From the main menu select *Systems and Versions*.
2. Type **5** in *Opt* to select a system. The system displays the System Definition screen.
3. Press F14. The system displays the Work with Code Variable screen.
4. Select *Initial Program*. The system displays the Code Variable Maintenance screen.
5. Type the initial program to run in the *Entry* fields.
6. When you have finished, press F3 and save.

Creating for a version

Complete the steps below to create an initial program code variable for a version.

1. From the main menu select *Systems and Versions.*
2. Type **5** in *Opt* to select a system. The system displays the System Definition screen.
3. Press F7. The system displays the System Version Maintenance screen.

4 Type **5** beside the appropriate Version.

5 Select Initial Program. Press Enter. The system displays the Code Variable Maintenance screen.

6 Type the initial program to run in the Entry fields.

7 Press F3 and save.

Notes

Chapter 5 Working with Job Controls

5

You work with job controls to create or modify a Job Control Definition. A Job Control Definition is a record of essential information about a job process. After you create Job Control Definitions, you can use them later to build a menu for a system, version, user, or group user. This chapter is divided into a series of tasks you can perform regarding Infinium AM job controls.

The chapter consists of the following topics:

Topic	Page
Creating a program (X) job control	5-2
Entering a CL command	5-5
Creating a link (L) job control	5-6
Creating a text (T) job control	5-7
Creating a menu (M) job control	5-8
Creating a command (C) job control	5-9
Changing attributes for a job control	5-10
Entering display screen sequences	5-11
Specifying a alternate language	5-12
Creating job queues	5-13

Creating a program (X) job control

You can create a job control definition for running a System i program. Complete the steps below to create a job control definition.

1. From the main menu select *Job Controls*.
2. Type the system designator, job name, release and modification number, and job type **X**. Press Enter.
3. The text you type in the Description field displays on the menu.
4. Type the additional information about the job in the fields that display. Refer to the field level help text for information regarding these fields.
5. If this is a job control definition for an interactive process, press F16 for related displays.
6. Type the library and display file used by the program. Include any customized or additional screens if you have modified an Infinium or custom application. This is used for function level help, printing help text, and for defining Field Level Security (FLS) for display files associated with the job control.

Submitting batch jobs

When you create a program job control, must indicate that the program job control is either batch (**B**) or interactive (**I**). If it is a batch job, these additional fields display:

- Submitted name
- Job Queue
- Job Description
- Batch driver (normally AMGEB for Printer Controls and archiving)
- Hold job
- Multi-threading (informational only)

If you specify that the job will be passing parameters by typing **Y** in the *Pass parameters* field, these additional fields display:

- Entry panel

- Validity checker

These fields are described in the field-level help text.

Submitting batch jobs outside the normal process

Generally, if you define a job control as a batch job, you enter parameters and press Enter. The job is submitted to batch. If you need to do some interactive processing and then decide to submit a job to batch, you call program AMCEREM.

AMCEREM uses the normal batch submission process which uses the library list resolver to find the correct library list along with the correct job description, job queue, and hold status. It also uses the batch driver, AMGEB, which resolves printer controls and archive files.

The parameters for AMCEREM are as follows:

Parameter	Type	Length
PARM28	CHAR	28
System	CHAR	2
Version	DEC	3,0
Job Name	CHAR	10

The PARM28 parameter for Infinium AM is the key to the Task Coupling file. The structure of this key to the Infinium AM Task Coupling file is:

Parameter	Type	Length
Job Name	CHAR	10
Job Number	CHAR	6
Date	CHAR	6
Time	CHAR	6

The key to the Task Coupling file in other Infinium applications may be different.

The PARM28 parameter must be created by the program calling AMCEREM. It is used as a key to the task coupling file for the job running in batch if that job needs to be passed parameters.

The job name parameter is a job control name created in the system passed to AMCEREM. This job control is a program job control. It is specified as a batch job and it must pass parameters.

When the Entry panel displays, specify a dummy entry panel, such as *DUMMY. When the job runs, Infinium AM tries to bring up the entry panel, but it is not found and it is ignored, and the job is submitted.

Entering a CL command

One of the fields that displays when you create a program job control is *Program to run*. Generally, you enter the name of the program in this field. However, you can create a program job control without entering a program in this field.

Complete the steps below to enter a CL command.

1. From the main menu select *Job Controls*.
2. Type the system designator, job name, release, and modification number. The job type is **X**. Press Enter.
3. Type the additional information about the job in the fields that display except the *Program to run* field. Leave blank.
4. Refer to the field level help text for information regarding the other fields.
5. Press Enter until you see an overlay box. Within the overlay box, type one of the following CL commands and a parameter if desired:

   CALL, **OVRPRTF**, **RGZPFM**, or **CLRPFM**.

6. Press Enter. You can add another command to the list. Repeat these steps to add other commands.
7. Press F3 and save.

Creating a link (L) job control

A link is a set of job control definitions linked together with one job control definition. You define which jobs belong to the linked set. When the link job is called from a menu or the command line, its associated jobs execute in sequence.

Link jobs always run interactively although they can submit batch jobs.

Complete the steps below to create a link job control.

1. From the main menu select *Job Controls*.
2. Type the system designator, job name, release, and modification number. The job type is **L**. Press Enter to display additional fields.
3. Type the additional information about the job in the fields that display. Refer to the field level help text for information regarding these fields. Press Enter.
4. When the Job Name box displays, type the job control names and the system and version for each of the jobs in the link in the order to be processed/executed. Use the separate number field to determine the sequence of events. Press F4 if necessary to select the job names.
5. Press F3 and save.

Creating a text (T) job control

Creating a text job allows you to enter additional text or spaces in a menu. Complete the steps below to create a text job control.

1. From the main menu select *Job Controls*.
2. Type the system designator, job name, release, and modification number. The job type is **T**. Press Enter to display additional fields.
3. You can leave the *Description* field blank to create a null line. You can type a string of characters, such as dashes to add division lines to your menu. When building a menu, you can use this job over and over whenever you need to insert a null line or a line boiler plate text in a menu.
4. Type the additional information about the job in the rest of fields that display. Refer to the field level help text for information regarding these fields. Press Enter.
5. Press F3 and save.

Creating a menu (M) job control

Creating menu jobs allows you to build a second level of options in a menu by setting up a job control definition that can be used later. You can use this job again, wherever appropriate.

Complete the steps below to create a menu job control.

1. From the main menu select *Job Controls*.
2. Type the system designator, job name, release, and modification number. The job type is **M**. Press Enter to display additional fields.
3. In the *Description* field, type the text to display on the menu, or leave it blank and enter text for the job control when placing it on a menu.
4. Type the additional information about the job in the rest of the fields that display. Refer to the field level help text for information regarding these fields. Press Enter.

Creating a command (C) job control

Creating a command job allows you to execute a command.

Complete the steps below to create a command job control.

1. From the main menu select *Job Controls*.
2. Type the system designator, job name, release, and modification number. The job type is **C**. Press Enter to display additional fields.
3. Type the command and any necessary parameters in the *Command* field. You can press F4 for Command parms to select from a display of valid parameters. If you type **Y** for Pass parameters, the command automatically prompts when the job control is executed, You can prefix the command with a question mark (**?**).
4. Type the additional information about the job in the rest of the fields that display. Refer to the field level help text for information regarding these fields. Press Enter.
5. Press F3 and save.

Changing attributes for a job control

When you update or create a job control, you can change the attributes of the job control description. Since the job control description is what displays on the menu, this task is almost identical to the task for changing the attributes of a menu option.

Complete the steps below to change a job control's attributes.

1. From the main menu select *Job Controls*.
2. Type the system designator, job name, job type, release, and modification number. Press Enter.
3. Press F17 for Attributes. A screen displaying color options is displayed. The current attributes are marked with **X**'s. If you do not see an **X**, scroll to the next screen.
4. Press Field Exit to delete the currently selected attribute for monochrome or color, depending on which one you want to change.
5. Type **X** in the monochrome or color fields associated with the desired colors.
6. Press F3 and save.

   The color you selected does not display until the job control is assigned to a menu.

Entering display screen sequences

After you have created an interactive program job control definition, you must perform the following task to ensure that field security, function help, and the print help text utility work with your display screens.

Complete the steps below to specify display screen sequences.

1. From the main menu select *Job Controls*.
2. Type the system designator, job name, job type, release, and modification number. Press Enter.
3. Press F16 for related displays. The system displays the Screen Display Sequence screen. The cursor should be in the *Display File* column.
4. Type the name of the display file used by the program or called programs in your Job Control Definition.
5. Press Enter. Fields under the *Display File* and *Format* columns update with display screens used by your program.
6. Press F3 and save.
7. Repeat this task for every display file used by your program.

Specifying an alternate language

You can override a job control and specify an alternate language to be used during that function's processing.

The alternate language library must be installed and the appropriate code variables should be defined.

The override occurs only when a user profile with the specified language preference signs on to the system/version with that option.

Complete the steps below to specify a alternate language.

1. From the main menu select *Job Controls*.
2. Type the system designator, job name, job type, release, and modification number. Press Enter.
3. Press F9 for Language override.
4. At the next screen, type the alternate language override text and press F3 to exit and save.

Creating job queues

You may not be authorized by your security officer to do the following. This task assumes proper authority to the command line and the **CRTJOBQ** command.

Complete the steps below to create a job queue.

1 Go to a command entry screen.

2 Type the CL command and press F4:

CRTJOBQ

The job queue must be created using a profile with S2KOBJOWNR rights.

3 Assign the job queue to a job description and/or an Infinium AM job control definition. If you assign the job queue to a job control definition, you type it in *Job queue*.

- When the job runs, the job queue overrides the job queue associated with the system or version's job description. However, other attributes, such as job priority, of the system or version's job description still apply.
- Some applications require certain job controls to use a single-threaded job queue. *Multi-threading* displays on the Job Control Definition for batch jobs. It indicates if a particular job should or should not be sent to a multi-threaded job queue. It does not cause a job to go to a multi-threaded job queue. That is determined by the job description/job queue. The job controls for Infinium applications show a Y/N value in *Multi-threading* which is informational only.
- Another possible implementation for the job queue involved using the code variable *BATCH. After you define a job queue for *BATCH, you can enter *BATCH in *Job queue* of the job control definition. All jobs with *BATCH are submitted to the job queue to which *BATCH points.
- Job descriptions allow you to specify additional information that can be associated with a job queue. For example, the job priority. Job descriptions can be associated with the following: IBM user profile; Infinium AM; current system running under Infinium AM; current version; current job, that is, job control definition.

Notes

Chapter 6 Creating and Maintaining Menus

6

The chapter consists of the following topics:

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Overview

This chapter is divided into a series of tasks you can perform to create and maintain menus for applications running under Infinium AM. A menu is a display of job controls. You should know how to create and maintain job controls before completing the tasks in this chapter.

You can create up to 999 levels of menus. A menu level can have up to 999 options. You can create a menu for a system, version, group user, or user. You can also reference user menus.

Creating or maintaining a system menu

This task assumes that a system is created.

The supervisor of a system is the owner of the menus for the system and all of its versions. Other users authorized to the supervisor's system and/or its versions will reference the supervisor's menu unless they have their own custom menus.

Complete the steps below to create or maintain a system menu.

1. From the main menu select *Systems and Versions*.
2. Choose a system.
3. Press F11 for menu. The system displays the Menu Control Maintenance screen.
4. With the cursor in the field under the *Job Name* column, type the name of the job that you want for a menu item and press Field Exit.

   You can press F4 to select from a display of job names. When you select this way, the Prompt function also retrieves the system designator and version number that corresponds with your selection.
5. Optionally type the system designator and the version number in the *Sys* and *Ver* fields if the job name is defined to a system that is not the same as that of the current one.

   This step results in a menu with options from more than one system, in other words, a cross-application menu.
6. Press Enter.
7. Repeat this task until you have finished adding menu options. Press F3 and save.

Creating or updating a version menu

This task assumes that the version already exists.

Complete the steps below to create or update a version menu.

1. From the main menu select *Systems and Versions*.
2. Select a system with option **5**. The system displays the System Definition screen.
3. Press F7 for Versions.
4. Type **8** next to a version and press Enter. The system displays the Menu Control Maintenance screen.
5. With the cursor in the field under the *Job Name* column, type the name of the job for a menu item and press Field Exit. You can press F4 and select a job from the prompt display.

   Optionally type the system designator and the version number in the next two fields if the job name is defined to a system that is not the same as that of the current one. This step results in a menu with options from more than one system, in other words, a cross-application menu.
6. Press Enter.
7. Repeat this task until you have finished adding menu options. Press F3 and save.

Creating or updating user and group user menus

User and group user menus are created the same way. However, when a profile is employed as a group profile, its menu becomes the menu for the group members.

Complete the steps below to create or update a user menu or group user menu.

1. From the main menu select *Users and Authorities*.
2. Type a user profile in the *Profile* field and press Enter.
3. Press F6 for Auth. Sys. The system displays the Menu Control Maintenance screen.
4. Type **8** next to a version displayed on the Current Authorities half of the screen and press Enter.
5. The system displays the Reference User Menu screen. Pressing Enter without changing the contents of any fields brings you to the Menu Maintenance screen for this user. To have this user reference a menu already in existance, you can enter the version and the user of the existing menu. Press F4 to prompt each of the fields to determine to which menus the user is authorized.

   The following applies to creating a user menu, not referencing and existing menu.
6. With the cursor in the field under the *Job Name* column, type the name of the job for a menu item and press Field Exit. You can also prompt to select the job name.
7. Optionally type the system designator and the version number in the next two fields if the job name is defined to a system that is not the same as that of the current one. This step results in a menu with options from more than one system, in other words, a cross-application menu.
8. Press Enter.
9. Repeat this task until you have finished adding options to the menu. Press F3 and save.

Creating menu levels

Some job controls are menu jobs (job type M). When you add a menu job to the menu, you create a menu level. You can add job controls, including menu jobs, to the new menu level. You can have up to 999 levels of menus.

Before you can create menu levels, there must be at least one menu job in the current menu.

Complete the steps below to create a menu level.

1. From the main menu select *Systems and Versions*.
2. Select a system with option **5**. The system displays the System Definition screen.
3. Press F7 for Versions
4. Type **8** next to a version and press Enter. The system displays the Menu Control Maintenance screen.

   The system displays the following information in the upper-right corner of the Menu Control Maintenance screen:

   - System, version, or user menu
   - Current menu level you are working on
   - The number of options on the current menu level
5. With the cursor positioned at the *Job Name* field, press F4 to select the menu job or type the name in *Job Name*.
6. Press Enter.

   If the menu job that you want to select does not display in the prompt, or if it is defined to a System/Version other than the default, type the appropriate system designator and version number in the *Sys* and *Ver* fields.
7. Type **5** in the *Opt* column next to the menu job for which you want to create a menu level and press Enter.
8. Repeat this task for each menu level that you want to create.
9. Press F3 and save.

An application running under Infinum AM could have the following menu design:

- Menu Level 1: All frequently used options along with appropriate menu jobs
- Menu Level 2: The secondary options (functions, job processes, menu jobs) associated with each Primary Option
- Menu Level 3: Supervisory menu options along with menu jobs for next menu level
- Menu Level 4: Cross-application menu options

Creating a menu structure for a system

A menu structure is a saved copy of a menu level and all of its job controls and menu levels. The saved copy of the menu level is referred to by its structure name. The next time you build a menu, you simply type the structure name into the *Structure* field. Its menu options are carried over to the new menu.

Caution: Do not create menu structures with duplicate names. If you do so, the second structure created is ignored.

Before you start this task, be sure that you are working with at least a two-level menu. Additional menu levels are job type M. When you create a structure, you add a name to the field under the Structure column next to the menu job. You can create a menu structure at the system level only.

Complete the steps below to create a system menu structure.

1. From the main menu select *Systems and Versions*.
2. Select a system with option **5**. The system displays the System Definition screen.
3. Press F11 for Menus. The system displays the Menu Control Maintenance screen.
4. Position the cursor to the field in the *Structure* column to the right of a menu job.
5. Type a name for the structure and press Enter.
6. When you have finished working with the menu, press F3 and save.

   All menu options on the menu level for which you have created the structure can now be copied to other systems or versions.

   You can create menu structures only at the system level menu.

Copying a menu structure

Once you have created a menu structure for a system, you can copy it.

Complete the steps below to copy a system's menu structure.

1 From the main menu select *Systems and Versions*.

If you are working with a user profile menu, select *Users and Authorities*.

2 If you are working with a system menu, first select the system. Press F11 from the System Definition Maintenance screen.

- If you are working with a version menu, first select the system. Press F7 for Versions from the System Definition Maintenance screen. Type **8** for Menus beside the version with which you are working.
- If you are working with a user profile menu, enter the profile from the User Profile Maintenance screen. Press F6 for User Authorities. Type **8** for work with menu beside the version with which you are working.

3 Position the cursor to *Structure*.

4 Type the name of an existing structure or select one by pressing F4.

5 Press Enter. A copy of the structure should be on the current menu.

6 Type **5** beside the new menu node to test the result. The menu options you see should be identical to those in the original menu structure.

7 When you have finished working with the menu, press F3 and save.

Copying cross-application menus does not adjust the referenced version number. Use F13 to adjust the referenced version numbers of all the job controls.

Changing a menu's border colors

You can customize the color scheme of a menu to make it more pleasing and readable for users. Changes to a menu's border colors affect only the menu for the user profile that makes them. Different user profiles can sign on to a system, each one with its own color scheme for the borders.

Complete the steps below to change a menu's border color.

1. At the Infinium AM main menu, press F2 for the Action Bar.
2. Type **U** and press Enter for the Utilities pull-down window.
3. Select *Change Border Attributes* from the Utilities window. The system displays the Display Attribute selection screen.
4. You can press the Scroll keys for more colors to display.
5. There are three columns: *Monochrome Screen*, *Description*, and *Color Screen*. You have the option of indicating the color scheme for both monochrome and color monitors.

   Users with monochrome monitors signing on with the user profile see the color scheme you select under the Monochrome Screen column. Users with color monitors see the color scheme that you select under the Color Screen column.

   You can select only one monochrome description and one color description.

   When you are updating a menu's borders, make sure that you check the second screen, scroll down, to see if any descriptions have been selected.
6. Press Field Exit to delete the previous monochrome border selection.
7. Type **X** under the Monochrome Screen column beside the border for monochrome screens.
8. Press Field Exit to delete the previous color border selection.
9. Type **X** under the Color Screen column next to the border color for color monitors.
10. Press F3 when you have finished.

11 Before you can see the new border colors, you must exit from the application and sign on again.

You can also change border attributes from the User Authorities screen. Press F6 for Auth. Sys to select an authorized system/version with **7** for Set attributes and perform this task. The border attributes you set affect only the system or version of the user profile you are updating.

Changing menu option attributes

You can change the color or attributes of individual menu options. You can update menus for a system, version, or user.

Complete the steps below to change the color or attributes of menu options.

1 Complete this step for system, version, or user menus.

- System: From the main menu select *Systems and Versions*. Select the system to work with. Press F11 for menus.
- Version: Select *Systems and Versions*. Select a system to work with and press F7 for versions from the System Definition Maintenance screen. Type **8** for menus next to the version you are working with and press Enter.
- Users: Select *Users and Authorities*. Type the user profile name and press Enter. Press F6 for Auth. Sys. Type **8** for work with menus next to the authorized version or system at the Current Authorities half of the screen.

2 The system displays the Menu Control Maintenance screen. Type **7** for Set attributes in *Opt* next to the menu option whose attributes you are changing. Press Enter.

3 Delete the current attribute selection in either or both the *Monochrome Screen* and *Color Screen* columns. Delete both if you are changing both attributes.

There are two screens. Be sure to check the second screen for an attribute selection if it does not display on the first screen.

4 If you are changing the attribute for a monochrome screen, type **X** under the *Monochrome Screen* column next to the attribute for the menu option.

5 If you are changing the attribute for a color screen, type **X** under the *Color Screen* column next to the attribute for the menu option.

6 When you have finished, press F3 and save.

Resequencing menu options

Before starting this task, decide on the order that you want the menu items to be displayed for the current level.

Complete the steps below to resequence menu options.

1. Type the sequence numbers, lowest to highest corresponds from top to bottom, beside the menu items you want to resequence.
2. Press F5 for Resequence.
3. Press F3 and save.

Updating versions

You can change the version of each cross-application Job Control on the menu. If you are copying a menu from one version to another, or creating a version menu, cross-application job controls are not copied to that version; they remain at the original version. Using F13 changes cross-application job controls to the new version. The version must first exist in the cross-application system.

Complete the steps below to update versions.

1. Add the Job Controls to the menu you are maintaining.
2. Press F13 for Update Version. All of the job controls are updated to the version of the menu currently being maintained.
3. Press F3 and save.

Specifying an alternate language

You can override a menu option and specify an alternate language to be used during that function's processing. The alternate language library must be installed and the appropriate code variables should be defined. Refer to the *Installing a New Infinium Application* guide or the *Upgrading an Infinium Application* guide for more information on using alternate languages.

The override occurs only when a user profile with the specified language preference signs on to the system/version with that option.

Note: Infinium AM does not support the entry of double-byte data.

Complete the steps below to specify an alternate language override.

1. Complete this step for system, version, or user menus.
   - System: Select *Systems and Versions*. Select the system to work with. Press F11 for menus.
   - Version: Select *Systems and Versions*. Select a system to work with and press F7 for versions from the System Definition Maintenance screen. Type **8** for menus next to the version you are working with and press Enter.
   - Users: Select *Users and Authorities*. Type the user profile name and press Enter. Press F6 for Auth. Sys. Type **8** for work with menus next to the authorized version or system at the Current Authorities half of the screen.
2. Type **9** beside the menu option to override.
3. To override the current menu option text, type the new text.
4. When you have finished, press F3 to exit and save.

Assigning referenced menus

You can allow a user to refer to another user's menu. Application menus are now classified as system, version, group, user or referenced. When you allow a user to refer to another user's menus, the menus are called referenced menus.

Maintaining menus is easier with referenced menus because you have to update a referenced menu only once, rather than multiple times for each user. Needing fewer menus also saves disk space.

The following rules apply to referenced menus.

- You cannot delete menus that are referenced by other users.
- You cannot delete a user that owns a referenced menu until you remove all references to that menu.
- Unreferenced menus can exist, which can be referenced at a later time.
- You cannot delete a version that contains a menu that is referenced by another user in another version.
- You can delete menus that are not being used.
- Version menus cannot reference another version's menu.
- The menu's owner can change the menu and pass on the changes to all references of that menu.

Example

You create a menu called HR Clerk. You then assign Bob, Sue and Carol to the menu HR Clerk. Carol then is assigned two staff to help her enter timesheets: Nancy and Todd. You make a copy of the HR Clerk menu and assign it to Carol. Nancy and Todd are then assigned Carol's menu. Bob and Sue automatically receive the changes if the HR Clerk menu changes, but not Carol. If Carol's menu changes, Nancy and Todd's menu automatically changes.

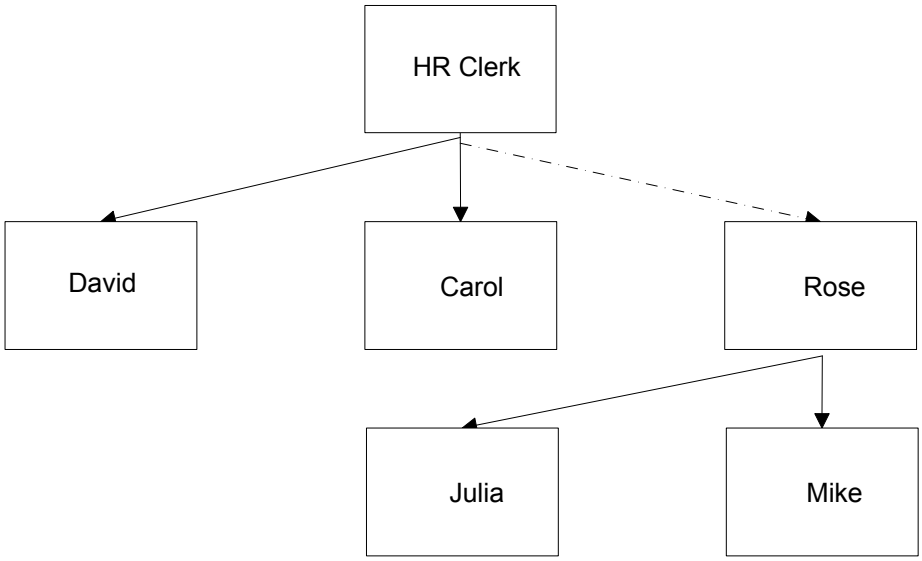

Figure 6-1: Reference menu example

Complete the steps below to assign a reference menu.

1 From the main menu select *Users and Authorities*.

2 Type a user profile in the *Profile* field and press Enter.

3 Press F6. The system displays the Menu Control Maintenance screen.

4 Type **8** next to the appropriate version displayed on the Current Authorities half of the screen and press Enter. The system displays the Reference User Menu screen.

5 Complete the menu to reference portion of the screen as follows:

   a Type the version associated with the user to whose menu you are referencing.

   b Type the user name to whose menu you are referencing, or prompt for authorized menus.

   c If you do not change the menu to reference fields and press Enter, you go to menu maintenance. Modifying the version or user fields assigns that menu to the user's authority.

6 Press Enter. The menu structure of the user is referenced.

If a user has a user menu and has a menu authority flag of **0** or **1**, when that user gives an authority to another user, they have the option of:

- Creating a user menu for the new user
- Having the new user reference his menu.

A window is displayed when the authority is added.

Chapter 7 Working with User Profiles

7

This chapter is divided into a series of tasks you can perform to create and maintain Infinium AM user profiles. A user profile is a record of information about a particular user or group of users.

The chapter consists of the following topics:

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Creating or maintaining a user profile	7-2
Creating user authorities	7-6
Deleting a current authority	7-8
Customizing libraries for current authorities	7-9
Changing the authority level for an authorized system/version	7-10
Making an authority inactive or active	7-11

Creating or maintaining a user profile

A user profile includes the following kinds of information:

- Profile name and password
- Default system and version along with other system and version authorizations
- Default user authority level
- User authority flag settings
- Environment flag settings
- Utility flag settings
- Custom user menus

There are three sub-tasks to create a user profile:

- Assign a name, password, and description for the user profile
- Assign system and/or version authorities to the user profile
- Enable and disable flags for system functions and features and menus

Before starting

Before you can completely create a user profile, you must assign authority to one or more systems and versions. Refer to the topic “Creating User Authorities” after you create the user profile.

Building the profile

Complete the steps below to build a user profile.

1. From the main menu select *Users and Authorities*.
2. Type the user profile name and press Enter.
3. Specify ***NONE** or type a default user password.

If you type ***NONE** in the *Password* field, the user is not prompted to enter a password before accessing Infinium AM.

If you are updating an existing user profile, you can press F4 to prompt and select it. The *Group profile* field displays for a new user.

4 You can type a group profile name, if the profile exists, and press Enter, or just press Enter. The system displays the User Profile Maintenance screen.

5 Type the appropriate information. Field level help text contains an explanation of each field.

If you leave the *Password* field blank, the password defaults to the value in the *User profile* field. If you type ***NONE** in the *Password* field, the Infinium password screen is bypassed when the user signs on. For security reasons, the *Password* field does not display once you press Enter.

Authorizing the profile

You now authorize the profile to the necessary system and versions. If you made the user part of a group, you can skip this task unless you want to override the group authorities.

Complete the steps below to authorize a user profile.

1 From the User Profile Maintenance screen, press F6 for Authorized Systems.

2 From Potential Authorities on the Authorities screen, select one or more systems/versions to which to authorize the user profile.

3 Press F3 until you have returned to the User Profile Maintenance screen.

Setting the flags

You set the user and environment flags on and off as necessary. If you made the user part of a group, you can skip this task unless you want to override the flag settings. Use field level help to explain the use of each of the flags.

Complete the steps below to establish user and environment flags for a user profile.

1 From the User Profile Maintenance screen, press F7. The system displays the User Authority Flags screen.

2 Enable or disable those flags according to the needs of the user profile you are creating.

3 Press F3 to return to the User Profile Maintenance screen.

4 Press F8. The system displays the Environment Authority Flags screen.

5 Enable or disable those flags according to the needs of this user profile.

6 You can specify a maximum number of Quick Access calls for the user. You can also have job request levels for Quick Access monitored by turning on the *Y/N* flag.

7 Press F9 to display the Utility Authority Flags screen.

8 Enable/disable the *Utilities* menu options. Field level help text includes an explanation of each field.

Saving the profile

Complete the steps below to save a user profile.

1 Press F3 and save until you have returned to the User Profile Maintenance screen.

2 Repeat the sub-tasks above to create other user profiles.

After you have created an Infinium AM user profile, you can create its IBM counterpart with the CL command **CRTUSRPRF**. If a standard IBM profile for your organization already exists, you do not have to create a new one.

This profile should be created with Group profile S2KOBJOWNR and Special authority *JOBCTL.

You might want to change the user profile to have an initial program of AMCIU in the Infinium AM platform library.

Once you have given a User Profile the proper authorization, it can be entered at the System i sign-on screen along with its password. At sign-on, Infinium AM sets up the user profile definition.

You can create as many user profiles as necessary in order to provide the appropriate level of customization for all types of users.

Because of data sensitive issues with user profile records, you cannot set field level security in any user profile maintenance fields. If you try to do so, you may incur a record lock and other messages.

Creating user authorities

An authority is a version of a system that is or could be assigned to a user profile. If a version has already been assigned to a user profile, then that version is known as a current authority.

The user profile you create has potential authority to all systems and versions owned by your signed-on profile. The user profile with which you sign on is known as the maintaining user.

An authority does not become current unless you, the maintaining user, assign the version of a system to the user profile that you are creating or maintaining.

Direct authority specifies that a user profile's system/version authorities are granted directly to the user profile. Indirect authority specifies that by belonging to a group profile, the user profile inherits the current authorities of the group. The indirect authorities can be made current or potential in the same way that direct authorities can but they must be maintained from the group profile.

Creating current authority

Complete the steps below to create a current authority for a user profile.

1. From the main menu select *Users and Authorities*.
2. Type the user profile name and press Enter. If you are updating an existing user profile, you can press F4 to prompt and select it. The group profile field displays for a new user; but does not display if maintaining.
3. You can type a group profile name, if the profile exists, and press Enter, or just press Enter. The system displays the User Profile Maintenance screen.
4. Press F6 for Auth. System.
5. On the Potential Authorities part of the screen, select the system or version to which to authorize the user. Open one or more systems and versions.
6. Repeat this sub-task until you have finished assigning systems/versions to the profile. You can multi-select authorities.

7 Press F3. The system displays the system or version you selected on the Current Authorities half of the screen.

Making an authority active/inactive

Complete the steps below to active or inactivate a user profile authority.

1 Press F6 from the User Profile Maintenance screen.

2 At the Current Authorities half of the screen, position the cursor in the *Active* column next to a system or version.

3 Type **N** to make the profile inactive; type **Y** to make it active.

4 Press F3 and save.

This change affects only those who sign on with this user profile.

Deleting a current authority

You can delete an authorized system or version from a user profile. Complete the steps below to delete a current authority for a user profile.

1. From the main menu select *Users and Authorities*.
2. Type the user profile name and press Enter. If you are updating an existing user profile, you can press F4 to prompt and select it.
3. Press F6.
4. Type **4** in *Opt* beside the authority to delete in the Current Authorities half of the screen.
5. Press Enter.
6. Press F3 and save.

   If you deleted an authority by mistake, you can select it again from the Potential Authorities displayed on the lower half of the screen.

   If you exit and save after a deletion, any user menus and user code variables are deleted.

Customizing libraries for current authorities

You can change or add libraries for the systems or versions authorized to this user profile.

Complete the steps below to change or add system or version libraries for a user profile.

1. From the main menu select *Users and Authorities*.
2. Type the user profile name and press Enter. If you are updating an existing user profile, you can press F4 to prompt and select it.
3. Press F6 for Auth. System.
4. Type **5** next to the appropriate version or system and press Enter. The Code Variable Maintenance screen displays.

   Refer to the “Working with Code Variables” chapter for more information.

Changing the authority level for an authorized system/version

As the maintaining user, you can change the authority level for any of the user's current system or version authorities. When you make a system or version a current authority, the default authority level is the authority level assigned to the user profile. You can change it to another value up to, but less than the level in your signed-on user profile.

Complete the steps below to change the authority level for an authorized system or version.

1. From the main menu select *Users and Authorities*.
2. Type the user profile name and press Enter. If you are updating an existing user profile, you can press F4 to prompt and select it.
3. Press F6.
4. Position the cursor to the level column for the system or version you are changing.
5. In the *Lvl* field, type the value of the authority level to specify for the system or version.
6. Press F3 and save.

Making an authority inactive or active

A current authority is active by default. If you want, you can make an authority inactive. Complete the steps below to activate or inactivate an authority.

1. From the main menu select *Users and Authorities*.
2. Type the user profile name and press Enter. If you are updating an existing user profile, you can press F4 to prompt and select it.
3. Press F6.
4. At the authorized system's screen, position the cursor to the *Active* column for a particular current authority.
5. Type **N** to a make the current authority inactive, or press **Y** to make it active.
6. Press F3 and save.

Notes

Chapter 8 Defining Printer Controls

8

Printer controls affect print jobs at output time. You can create printer controls for the system, version, or user level. You can also specify printer controls for a printer file that is associated with a particular system, version, user or combination.

The chapter consists of the following topics:

Topic	Page
Overview	8-2
Setting up printer controls for a system	8-3
Setting printer controls for a version	8-4
Setting printer controls for a user	8-5
Setting printer controls for a printer file	8-6
Archiving a printer file	8-7
Deleting printer controls	8-8

Overview

Before you complete the tasks involving printer controls, you should be familiar with the information below.

Sometimes the printer file does not include enough formatting information that is necessary to produce the desired output.

To ensure that printer control maintenance is always using the latest version of the OVRPRTF command, Infinium AM uses the IBM-supplied printer file overrides. When a job control executes the OVRPRTF command, the printer control associated with the system/version (and optionally the user and printer file) is used to format the output.

You complete the Override with Printer File (OVRPRTF) screens using the online help and the *IBM CL Reference Manual*.

Printer controls hierarchy

Printer controls are defined and resolved based on system version. Within each version of a system, a printer control can specify a user profile name and/or a printer file name, as shown in the table below.

The following table shows the hierarchy by which a printer control record is used:

Priority	User Profile	Printer File
1	User name	Printer file name
2	User group name	Printer file name
3	Blank	Printer file name
4	User Name	Blank
5	User group name	Blank
6	Blank	Blank - This is the default printer control

In cases where a specific printer control, for a user and/or printer file, does not exist and a default printer control, blank user / blank printer file, does not exist, then no override is performed.

Setting up printer controls for a system

Make sure you set up at least a default (blank user / blank printer file) printer control for the System.

Complete the steps below to set up printer controls for a system.

1. From the main menu select *Printer Controls*.
2. Use the information below to complete the fields on this screen.

   System

   Type the system designator.

   Version

   Type **0**.

   User profile

   Leave blank.

   Printer

   Leave blank.
3. Press Enter.
4. Complete the *Override with Printer File* (OVRPRTF) screens using the online help and the *IBM CL Reference Manual*.
5. Press Enter to continue to the Printer Controls Archive Information screen. Complete this screen as described in “Archiving a Printer File.”
6. Press F3 and save.

Setting printer controls for a version

You must set up at least a default (blank user / blank printer file) printer control for every version.

Complete the steps below to set up printer controls for a version.

1 From the main menu select *Printer Controls*.

2 Use the information below to complete the fields on this screen.

System

Type the system designator.

Version

Type a version number.

User profile

Leave blank.

Printer

Leave blank.

3 Press Enter.

4 Complete the *Override with Printer File* (OVRPRTF) screens using the online help and the *IBM CL Reference Manual*.

5 Press Enter to continue to the Printer Controls Archive Information screen. Complete this screen as described in “Archiving a Printer File.”

6 Press F3 and save.

Setting printer controls for a user

Complete the steps below to set up printer controls for a user.

1. From the main menu select *Printer Controls*.
2. Use the information below to complete the fields on this screen.

   System

   Type the system designator.

   Version

   Type a version number.

   User profile

   Type a profile name.
3. Press Enter. The system displays the Printer Controls screen.
4. Complete the Override with Printer File (OVRPRTF) screens using the online help and the *IBM CL Reference Manual*.
5. Press Enter to continue to the Printer Controls Archive Information screen. Complete this screen as described in “Archiving a Printer File.”
6. Press F3 and save.

Setting printer controls for a printer file

You can set up printer controls for a printer file. The printer file is associated with a combination of system designator, version, and user profile values.

Complete the steps below to set up printer controls for a printer file.

1. From the main menu select *Printer Controls*.
2. Use the information below to complete the fields on this screen.

   System

   Type the system designator.

   Version

   Type a version number.

   User profile

   Type a profile name.

   Printer

   Type the printer file.
3. Press Enter.
4. Complete the Override with Printer File (OVRPRTF) screens using the online help and *the IBM CL Reference Manual*.
5. Press Enter to continue to the Printer Controls Archive Information screen. Complete this screen as described in “Archiving a Printer File.”
6. Press F3 and save.

Archiving a printer file

Rather than having a file sent to print when the job completes, you can have a file archived instead.

Complete the steps below to archive a printer file.

1. From the main menu select *Printer Controls*.
2. Use the information below to complete the fields on this screen.

   System

   Type the system designator.

   Version

   Type a version number.

   User profile

   Type a profile name.

   Printer

   Type the printer file to archive.
3. Press Enter. The IBM Override Printer File (OVRPRTF) command will be prompted. Press Enter to continue to the Printer Controls Archive Information screen.
4. In the *Archive Life* field, type how many days you want to archive this file. Any archived file older than the number of days entered here, from the day it was executed, can be deleted using Expired Archive Purge on the *Restricted Options* menu. The default entry of **999** keeps the archive indefinitely. It is not deleted by the Expired Archive Purge process, but it still can be deleted using the delete option in Archive Maintenance.
5. To complete the *Archive print file* and *Format* fields, refer to the detailed online help.
6. Press F3 and save.

Deleting printer controls

Complete the steps below to delete printer controls.

1. From the main menu select *Printer Controls*.
2. Use the information below to complete the fields on this screen.

   System

   Type the system designator.

   Version

   Type the version number.

   User profile

   If applicable, type the profile name.

   Printer

   If applicable, type the file name.
3. To view the override before deleting the printer file, press Enter, review the Override with Printer File (OVRPRTF) screen, and press Enter again. The Printer Control screen displays.
4. Press F22. The system displays a confirmation message to press F22 again.

Chapter 9 Working with News and Logos

9

The chapter consists of the following topics:

Topic	Page
Entering system news	9-2
Entering user news	9-3
Entering system/user news	9-4
Creating a system logo	9-5

Entering system news

Complete the steps below to enter system news.

1. From the main menu select *News*.
2. Type a system designator. Press Enter.
3. Type the news.

   You can press F9 to override the language text for the news. Refer to the *Infinium AM Programmer's Technical Guide* for information on working with language overrides.
4. Press F3 and save your entries.

Entering user news

Complete the steps below to enter user news.

1. From the main menu select *News*.
2. Type a user profile. Press Enter.
3. Type the news.

   You can press F9 to override the language text for the news. Refer to the *Infinium AM Programmer's Technical Guide* for information on working with language overrides.
4. Press F3 and save your entries.

Entering system/user news

You can enter news to be seen by a specific user profile that is using a specific system.

Complete the steps below to enter news for a specific user and system.

1. From the main menu select *News*.
2. Type a user profile.
3. Type a system designator. Press Enter.
4. Type the news.

   You can press F9 to override the language text for the news. Refer to the *Infinium AM Programmer's Technical Guide* for information on working with language overrides.
5. Press F3 and save your entries.

Creating a system logo

Complete the steps below to create a system logo.

1. Sign on to the System i with the user profile **AM2000**.
2. From the main menu select *AM Environment*.
3. Press F15.
4. You have a 30 column by 9 row block in which to create or edit your logo. You can use any valid keyboard characters.

   You are not allowed to modify the contents of the last line which is reserved for the copyright notice.
5. Press F3 and save the logo.
6. To change the color attributes of the logo, press F17.

Notes

Chapter 10 Using Soft Coded Function Keys

10

The chapter consists of the following topics:

Topic	Page
Overview	10-2
Defining function key definitions	10-3
Changing the default display file	10-5
Using *DFT function keys	10-6
Displaying function keys	10-7
Modifying function keys	10-8

Overview

Infinium AM provides a facility for implementing soft-coded function keys in an application. Soft coded function keys make it easier to control function key processing throughout the application. This section provides an explanation on how function keys work and how to update or change a system's default function key definitions.

If you have the Run-Time (base) version of Infinium AM, you are limited in how much you can change function key definitions. You cannot develop new programs that take advantage of soft coded function keys. If you are going to make any changes, you should do so in a test environment first.

If you have the developer's version of Infinium AM, you can use the soft coder API's to implement soft coded function keys in applications you are developing.

Defining function key definitions

In order to modify function key definitions, you must be the supervisor of the system whose function keys you are maintaining.

A function key definition is a table-based entry describing the function key's attributes within a given display file and record format. Function key definitions are associated with the system, release/mod and language code of the system. If the system is implemented in a multilingual environment, the function keys for different languages are designated by the corresponding language code.

Complete the steps below to modify function key definitions.

1 From the main menu select *Function Keys*.

2 Type the system, release, modification, and language code.

Infinium applications are shipped with predefined function key definitions. You can modify them to some extent, as explained later in this chapter. Developers who implement soft coded function keys in their applications must build function key definitions for them. Refer to the the *Infinium AM Developer's Guide* for information on soft coded function keys.

Function key definitions are also associated with display files and their record formats.

3 To limit the display to a particular display file and its formats, type values in the *File* and *Format* fields.

If you type a value in the *File* field but leave the *Format* field blank, all formats for the specified display file are shown on the next screen.

If you leave the *File* and *Format* fields blank, all display files and record formats are shown on the next screen.

4 Press Enter. The system displays the next screen. Use this screen to select the display file/record format for defining function keys.

This screen shows the display files and record formats corresponding to the values you specified in the File and Format fields.

Above the display files are four system members: *DFT, *MENU, *PROMPT, and *ENPANEL. These files contain generic function key definitions for most systems running under Infinium AM.

***DFT**	Default Function Key Definitions, for general use. Includes Exit, Prompt, Help, More Keys, and so on.
***MENU**	Function keys that display on a menu are stored in *MENU.
***PROMPT**	Function keys that display in the prompt windows for a system are stored in *PROMPT.
***ENPANEL**	The function keys that display in a system's entry panels are stored in *ENPANEL.

5 Press Enter. The next screen displays. Use this screen to define function keys for a system.

Refer to the field level help for a description of each field.

Some key points are:

- Function keys are associated with a system based on the system designator, release/modification and language code values.
- The display file *DFT includes all default function keys assignments for the system you are working with based on its system designator, release/mod. and language code values.
- After you have defined function key definitions in *DFT, you can reuse the definitions in other display files. Simply, type *DFT next to the same function key numbers that are used by the display file.
- When you go into soft command key maintenance, all the display files and record formats used by the system display on the screen. Press the scroll keys to see more display files. With the Developer's version of Infinium AM, you can modify the function key assignments in the display files for all of their installed systems.
- Function key numbers range from F1-F24 as shown on your keyboard. Function key names are Enter, Help, Rollup, Rolldown, Print, and Home. These are also handled by the soft coder.

Changing the default display file

Each system has a default display file *DFT which contains most predefined function keys. You can modify the function key definitions for *DFT.

Complete the steps below to change the default display file.

1 From the main menu select *Function Keys*.

2 Type the system designator, release/mod and language code values. You can press F4 and select them from the prompt display.

3 Press Enter. The system displays the display files associated with the current system.

4 Open *DFT from the *Display* column.

5 Locate the function key you are updating. There may be an action already associated with the function key.

Caution: If you change an already defined action, you must be aware of the effect it has on the application. Certain programs might not function properly if the new function key action is unknown to the calling program. Run-time users are advised to change only function key descriptions and change an action only if it would not require changing a program.

You can complete one or more of the sub-steps below:

- Type a different action beside the function key you are updating.
- Change a function key description under the description column.
- Change the authority level of the function key.
- Change the display status.
- Attach a job control to the function key. If there is also an action associated with the function key, the job control runs first.
- Toggle the function key on or off.
- Enable or disable logging for the function key.

6 Press F3 and save.

Using *DFT function keys

This task applies only to users of the Developer's version of Infinium AM. Refer to the *Infinium AM Developer's Guide* for more information about updating display files *PROMPT and *MENU.

Complete the steps below to define *DFT function keys.

1. From the main menu select *Function Keys*.
2. Type the appropriate system designator and release/modification values. Press Enter.
3. Select the display file whose function keys you are updating.
4. Position the cursor under the Action column next to the function key you are updating.
5. Type ***DFT** next to the function key you are updating. Note that the function key must already be defined in the *DFT display file.

   You do not have to type a description when using function key definitions for *DFT. The display file automatically uses the *DFT's description for the corresponding function key. You can type in your own description.
6. Repeat this task for other function keys.
7. Press F3 and save.

Displaying function keys

Complete the steps below to display function keys.

1. From the main menu select *Function Keys*.
2. Press F4 for a display of all function keys.
3. Press F12 to return to the previous screen.

There are several utilities involving function keys. Refer to the chapters in this guide that describe working with Utilities.

Modifying function keys

To modify function keys, follow the steps below.

1 From the Infinium AM main menu, select *Function Keys*. The system displays the screen shown in Figure 10-1.

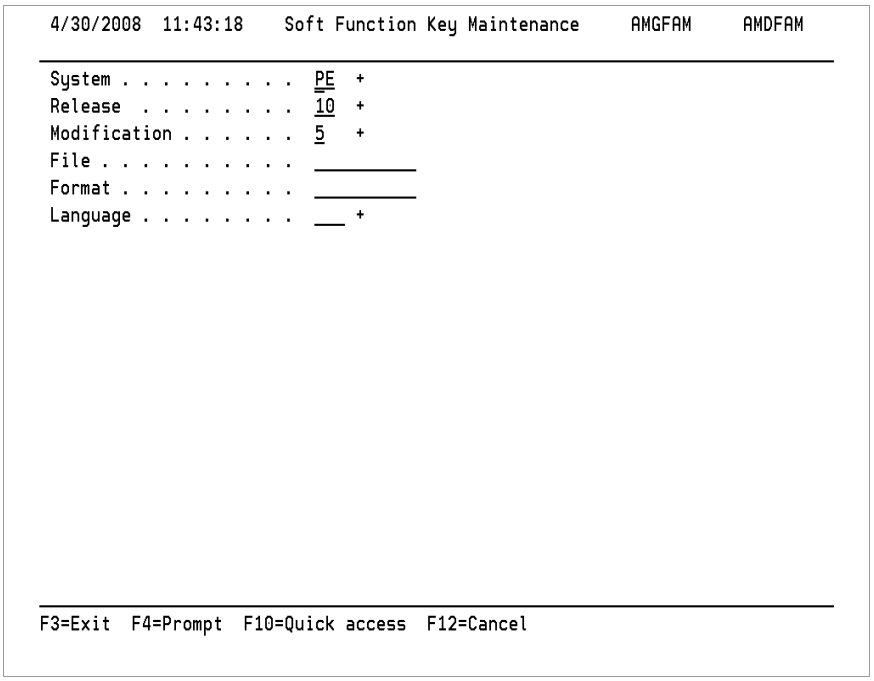

Figure 10-1: Soft Function Key Maintenance prompt screen

2 Type the system, release, and modification.

3 Press Enter. The system displays the screen shown in Figure 10-2.

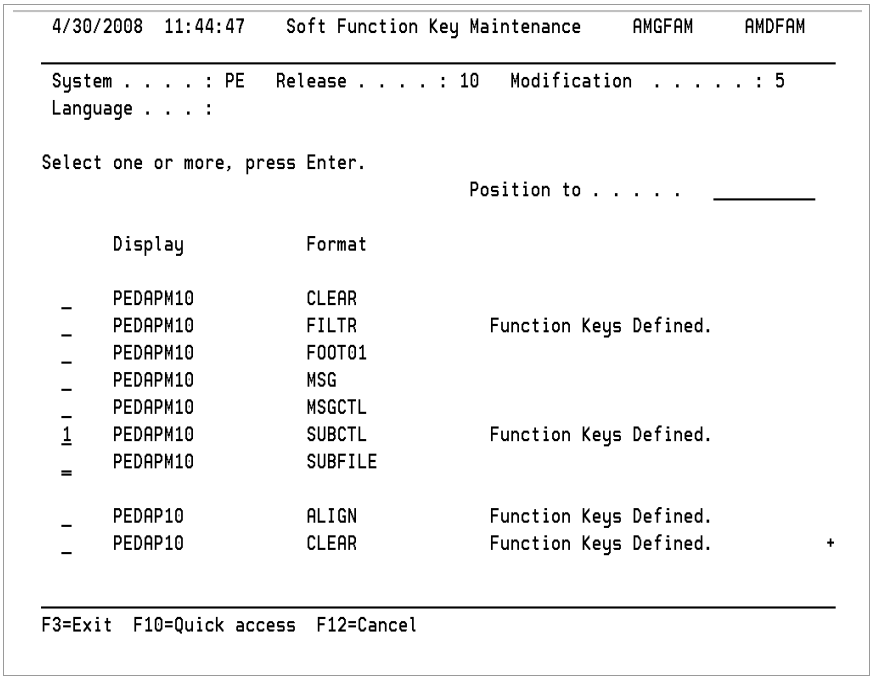

Figure 10-2: Soft Function Key Maintenance selection screen

4 Select the display file and record format for defining function keys.

5 Press Enter. The system displays the screen shown in Figure 10-3.

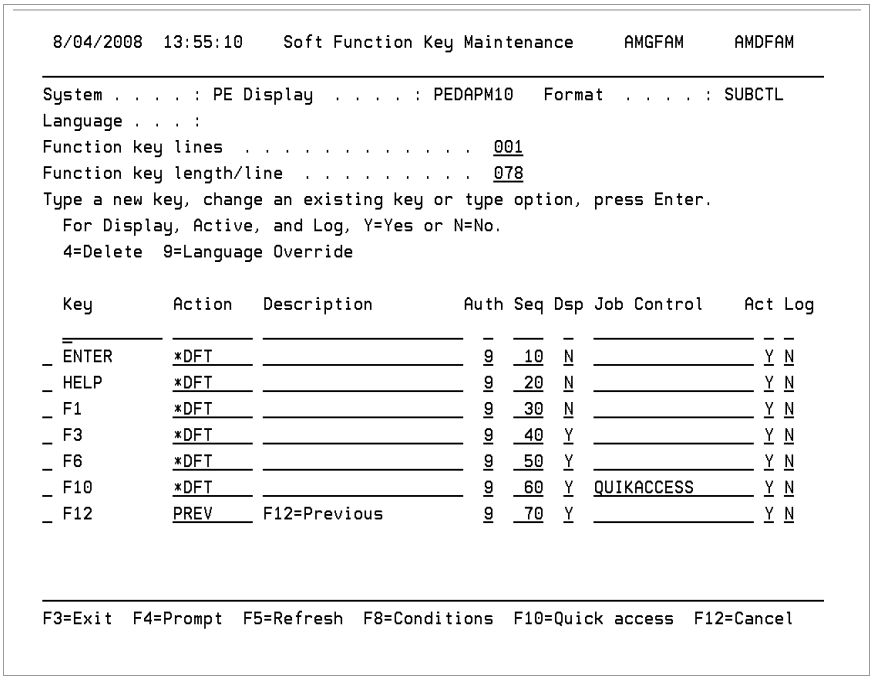

Figure 10-3: Soft Function Key Maintenance detail screen

6 Press F8 to expand the function key information as shown in Figure 10-4.

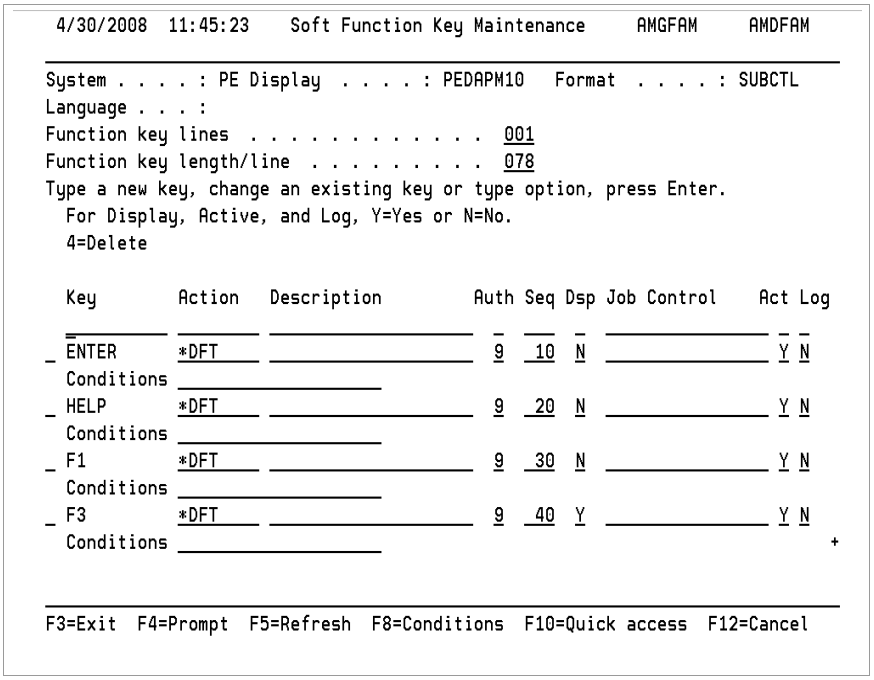

Figure 10-4: Soft Function Key Maintenance expanded detail screen

7 Use the information below to complete the fields on this screen.

Conditions

Specify a number from **1** to **99** that represents the indicator number within the program code for this display file and record format combination. The system tests this condition string at run time to determine whether the condition string is true or false. If the conditional string is true, the system displays the function key.

For example:

- **01,10,N11**

  If **01** and **10** are set to on, and **11** is off display the function key.

- **02,03 O 10**

  If **02** and **03** are set to on or **10** is set to on, display the function key.

8 Exit and save your changes.

Chapter 11 Making Inquiries

11

The inquiries available with Infinium AM provide you with system-wide information about a given topic.

Working with Inquiries

Use one of the following options to make a system, version, or authority inquiry.

Performing a system inquiry

Complete the steps below to perform a system inquiry.

1. From the main menu select *Inquiry*.
2. Select *System Inquiry*. The system displays the System Definitions Screen.
3. Press Enter to return to the main menu.

Performing a version inquiry

Complete the steps below to perform a version inquiry.

1. From the main menu select *Inquiry*.
2. Select *Version Inquiry*. The system displays the System Version screen.
3. Press Enter to return to the main menu.

Performing an authority inquiry

Complete the steps below to perform an authority inquiry.

1. From the main menu select *Inquiry*.
2. Select *Authority Inquiry*. The system displays the authorities display.
3. Press Enter to return to the main menu.

Performing a job control inquiry

Complete the steps below to perform a job control inquiry.

1. From the main menu select *Inquiry*.
2. Select *Job Control Inquiry*. The system displays the Job Controls Inquiry screen.
3. Press Enter to return to the main menu.

Performing an event activity inquiry

Complete the steps below to perform an event activity inquiry.

1. From the main menu select *Inquiry*.
2. Select *Event Activity Inquiry*. The system displays the Event Activity Inquiry screen.
3. Press Enter to return to the main menu.

Performing a user inquiry

Complete the steps below to perform a user inquiry.

1. From the main menu select *Inquiry*.
2. Select *User Inquiry*. The system displays the User Inquiry screen.
3. Press Enter to return to the main menu.

Notes

Chapter 12 Working with System Documentation

12

You can create libraries that contain technical information about a system's programs and data objects. The technical information includes object descriptions, database relations, and display file fields.

The tasks in this section involve creating libraries that can contain a great deal of information, especially if you are running the functions against a very large system's database. Therefore, you should be aware of the disk space limitations of the System i on which you are running your applications. If disk space is limited, you should specify particular objects in the entry panel.

The chapter consists of the following topics:

Topic	Page
Loading a file for documentation	12-2
Listing a documentation file	12-3
Performing a documentation object inquiry	12-4
Clearing a documentation file	12-5
Deleting a documentation file	12-6
Generating a file field description report	12-7

Loading a file for documentation

Complete the following steps to load a file for documentation.

1 From the main menu select *Documentation*. Press Enter.

2 Select *Load file*. Press Enter. The system displays the Load File screen. This screen allows you to extract information from a library and put it into another library for documentation purposes.

3 Use the information below to complete the fields on this screen.

Document this library

Type the source library.

Into data library

Type the target library.

As member

Type the member name.

4 In the rest of the fields, enter the appropriate object names based on your information needs.

- Object description provides a brief description of the type of object.
- Database relations provide the database relations associated with the object.
- Program references provide references to other programs associated with the object.
- Field descriptions provide field type lengths and other pertinent information about the fields associated with the object.

5 Press Enter.

If you have adequate disk space, you can leave all fields blank. Later when you perform a documentation object inquiry, all of the specified fields will be available for on-line inspection and printing.

Listing a documentation file

Complete the following steps to list a documentation library file.

1 From the main menu select *Documentation*.

2 Select *List File*. The system displays the List File screen.

3 Use the information below to complete the fields on this screen.

Because there may be information from several different libraries stored in the same documentation library, you must specify which library's information you are listing.

List documents for library

Type the name of the library whose data you are listing.

From data library

Type the name of the library whose data you are listing.

Member named

Type the member of the documentation library where the information is stored.

4 The remaining fields are flag settings that enable you to specify which portions of documentation you want in the report. Select the appropriate options by typing **Y** in the corresponding fields.

5 Press Enter.

Performing a documentation object inquiry

A documentation object inquiry enables you to view the objects of your documentation library at close range.

Complete the following steps to perform a documentation object inquiry.

1. From the main menu select *Documentation*.
2. Open *Documentation - Object Inquiry*. The system displays the Documentation Inquiry screen.
3. If you are looking for a specific object, enter the object name in the Object field. If you want to start at the beginning of the library, move the cursor to the *Library* field and type your documentation library name.
4. Type the name of the member that contains the system documentation you are going to view in the *Member* field. The default is ***FIRST**.
5. Press Enter. The system displays the next screen.
6. Select an option by typing its corresponding number in the selection field beside the appropriate object.

Clearing a documentation file

To economize on disk space, you can delete the contents of a documentation file, yet keep the file/member structure intact. You can use the clear option to perform this task.

Complete the following steps to clear a documentation library file.

1. From the main menu select *Documentation*.
2. Select *Clear File*.
3. Type the name of the documentation library that includes the file in the first field.
4. Type the member name in which the file resides in the second field.
5. Press Enter.

Deleting a documentation file

Complete the following steps to delete a documentation library file.

1. From the main menu select *Documentation*.
2. Select *Delete File*.
3. Type the name of the documentation library that includes the file in the first field.
4. Type the member name in which the file resides in the second field.
5. Pess Enter.

Generating a file field description report

This command enables you to generate File Field Description documentation for a file or files in a given library.

This command runs stand-alone and does not require the product specific documentation library (e.g. **HRDOCLIB**, **GLDOCLIB**, etc.) to exist on the system.

The command can be run at any time. Prior to using the command, verify that your AM2000 platform library exists in your interactive library list.

To use the **DOCFFD** command, follow the steps listed below:

1. Type the command **DOCFFD** on any command line and press F4. The command should be prompted.
2. Enter the full name of a file, or enter a generic name. For example you can run a report of all files which begin with **GLP**; you type **GLP*** to generate this list, or type ***ALL** to generate file field descriptions for ALL files in the specified library. This command prints file field descriptions for any physical or logical file.
3. Type the library name which contains the files you wish to generate file field description documentation for in *Data Library*.
4. Press Enter. The system creates a report of the output generated for the file.

Notes

Chapter 13 Working with Field Prompt Definitions

13

The chapter consists of the following topics:

Topic	Page
Overview	13-2
Updating a field prompt definition	13-3
Creating a prompt inquiry for a menu	13-4
Adding a prompt inquiry to a display field	13-6

Overview

This chapter describes how to maintain field prompt definitions for the run-time version of Infinium AM. Field prompt definitions may be implemented in two different ways.

The first way is known as a field prompt inquiry. A field prompt inquiry occurs as a display of values when the user presses F4 while the cursor is on a field. A field prompt inquiry can also be added to a job control and thus become an option that you add to the menu.

The second way to use a field prompt definition is as an input field prompt. An input field prompt displays the list of values for a field and lets you search for and select a specific value. An input field prompt involves using an Infinium AM Application Program Interface (API) and adding code to a program to handle the input and return values. A field prompt inquiry does not involve any coding.

If you are using the Run-time version of Infinium AM, you do not have the ability to create field prompt definitions. You can update field prompt definitions for existing field prompt inquiries and input field prompts.

WARNING! Do not do anything more than changing window titles, window position parameters, and column headings. Do not alter fields, key fields, or data positions. If you do alter input fields, key fields or data positions of a field prompt definition, the results are unpredictable.

If you have purchased the Developer's version of Infinium AM and are interested in creating field prompt definitions, refer to the *Infinium AM Developer's Guide*.

Updating a field prompt definition

Complete the steps below to update a field prompt definition.

1. From the main menu select *Field Prompts*.
2. Press F4 to select the prompt definition you are updating.
3. Press Enter and view the additional fields that display on the screen.
4. Open Design window from *the Prompt Definition Activity* column. The Prompt Window Design screen displays.
5. Edit the text in the *Window title* field.
6. Indicate with a **Y** or **N** whether you want a full screen prompt window.

   If you enter **N** in the *Full screen window* field, three more fields display. In these fields, enter values for the row/column coordinates of the window and the number of rows of data to display in the window.

   WARNING! Do not add encrypted fields to a prompt definition. If you do, the prompt definition fails upon activation.

7. When the window is the correct size and the desired row/column coordinates have been set, you can edit the column headings. Make sure that you have enough room for all the fields you select in the window.
8. Press F3 and save.
9. To view the prompt window, press F7 for View window. You can change the dimensions of the window or add and delete field headings at any time.

Creating a prompt inquiry for a menu

To create a prompt inquiry for a menu, you must first add the prompt definition to a job control. The prompt definition name is entered in the *Program to run* field of the job control definition.

The steps below explain how to build this type of field prompt inquiry. If you have not yet created the necessary prompt definitions, do so before proceeding.

Complete the steps below to create a prompt inquiry for a menu.

1. From the main menu select *Job Controls*.
2. Create a job control definition for an interactive program as explained in the section, “Using Job Controls.”
3. In the *Program to run* field at the Job Control Maintenance screen, type the prompt definition name and press Enter. Type text for the description of the job in the *Description* field.
4. Press F3 and save this job control definition.
5. You have several alternatives for adding a prompt inquiry to a menu. Choose the one that is appropriate.
   - To add the field prompt inquiry to a System menu, select *Systems and Version*s. Select the appropriate system with which to work.
   - To add the field prompt inquiry to a Version menu, select the system with which to work. Press F7 for Versions and type **8** beside a version to work with its menu.
   - To add the field prompt inquiry to a user menu, select *Users and Authorities*. Press F4 to select the appropriate profile from the display.
6. After retrieving the profile, press F6 and type an **8** to work with a system menu. You should now be at the Menu Control Maintenance screen.
7. Press F4 while the cursor is in the Job Name field and select the job name that you created with steps 1-4.
8. Press Enter.
9. Press F3 and save.

Verify this task as follows.

1. Sign on to the system or version as the user for which you have just created the prompt inquiry.

2. Go to the level menu to which you have added the job and select that job as you would any menu item. The job description for the prompt inquiry should display on the menu.

3. After selecting it, you should see the prompt inquiry and display fields as they were defined in the prompt definition. You can also run this job using the Quick Access pop-up window.

Adding a prompt inquiry to a display field

To complete this task, your profile must be authorized to update help text.

The following steps explain how to add a prompt inquiry for a field that is displayed on your screen. You must already have created the prompt definition as explained earlier in this section.

Complete the steps below to add a prompt inquiry to a display field.

1. Select a system with which to work from the System option on the Action Bar.
2. Go to the screen and display field in your application where to add the field prompt inquiry.
3. Position the cursor to the display field.
4. Press Help.
5. Press F6.
6. The system displays the User Help Text screen.
7. Type the prompt definition name in *Prompt program*.
8. Press F3 until you have returned to the original screen display.
9. To test your prompt inquiry, press F4 while the cursor is on the field to which you have just added the prompt inquiry.

   The Infinium standard for promptable field is to place a + one space after the field in the display file. This standard is usually hard coded in the DDS description specifications of the display. When adding a prompt to a field in your display file, you might want to follow this standard.

   The display file must have been created using Infinium AM's CRTDSPF or CRTHLPTXT commands for the Add Prompt Inquiry to work.

Chapter 14 Working with Entry Panels

14

The chapter consists of the following topics:

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Overview	14-2
Getting started with entry panels	14-3
Viewing an entry panel definition	14-5
Checking validity	14-6
Overriding an entry panel	14-7

Overview

Entry panels are full-screen windows that prompt the user for field input values which are then written to a file where they can be accessed by an application program. A common implementation of entry panels is for report programs that accept user input and, after processing the data, submit the report to batch.

Entry panels can check for valid field inputs, such as a range of values or a set of specific data. Infinium applications running under Infinium AM employ entry panels in a variety of situations. To see an example of an entry panel, select one of the report functions from the System and Versions utilities.

If you are using the run-time version of Infinium AM, you are not able to create entry panels. Although you can modify existing entry panels, both for Infinium AM and other applications, you are strongly advised not to do so because the results are unpredictable. If you want to customize your applications or develop new ones, you need the Developer's version of Infinium AM. Refer to the *Infinium AM Developer's Guide* for information on customizing applications.

To learn how to override an entry panel, refer to the "Overriding an Entry Panel" topic later in this chapter.

Developers can create and update entry panels for both custom and commercial applications.

Getting started with entry panels

The topic below explains some general concepts regarding entry panels. Although the actual tasks must be done using the Developer's version of Infinium AM, this information is included here to provide an introduction to entry panels. Refer to the *Infinium AM Developer's Guide* for a complete explanation.

At the most basic level, there are two components of any entry panel:

- Entry Panel Definition
- Field Validity Checking

The Entry Panel Definition consists of selected fields from a Field Specification File that has already been defined within an application. The fields belonging to the Field Specification file are displayed on the lower half of the screen. These fields can receive data that has been passed to them through an entry panel. A developer decides in advance which fields the program will be writing to and then designs the entry panel accordingly.

After the fields in the field specification file have been defined for the entry panel, the programmer decides which of these fields should be checked for valid input.

The developer selects the field with option **8** and defines the type of validity checking required by the program.

Validity checking includes:

- Range checking
- Required or not required field
- Default value
- Field types for character fields
- File existence checking
- Value matching
- What the User Sees

When a user selects a function that employs an entry panel, for example a report, a full-screen panel displays with various fields, including perhaps range selections. The user types the appropriate information as directed by the prompt text on the screen.

The user then presses Enter and further processing for that function continues. Behind the scenes, the validity checker verifies that the input to the panel has been entered correctly. Normal job processing continues if all inputs to the defined fields are valid.

Viewing an entry panel definition

WARNING! When completing this task, do not select option 4=Delete or change any row/column values. Changing any values may cause the entry panel not to function properly. If you are using the run-time version of Infinium AM, there should be no need to change text or position values in existing entry panel definitions. If you are interested in creating your own entry panels, you need the developer's version of Infinium AM.

Complete the steps below to view an entry panel definition.

1. From the main menu select *Entry Panels*. The system displays the Entry Panel Definition screen.
2. Press F4, select the entry panel name, and press Enter.
3. Press Enter. The system displays the Entry Panel Definition detail records.
4. Locate a field under the *Field* column which has a line and column number next to it and type **5**. You can use the scroll keys, if necessary. Press Enter.
5. The system displays the Entry Field Maintenance screen. This screen displays the prompt text and its row/column location on the panel. Also displayed is the row/column location of the input field. Some fields, like descriptive text, are optional and can be blank.
6. Press F12.

Checking validity

Complete the steps below to perform file existence checking.

1. From the main menu select *Entry Panels*. The system displays the Entry Panel Definition screen.
2. Press F4, select the entry panel name, and press Enter.
3. Press Enter. The system displays the Entry Panel Definition detail records.
4. Type **8** to view the validity checking that has been defined for the field. The system displays the Field Validity Checking screen.
5. Select File existence checking. The system displays the File Existence Checking screen.
6. A developer can indicate the search file for which certain input values may be checked. If key fields are defined in the search file, they display at the lower half of the screen and can be associated with other valid fields.
7. Press F12 to return to the previous screen and then select Value matching. The system displays the Field Value Matching screen.
8. You can define a number of values that the field accepts. This definition enables you to limit precisely the acceptable values for the field.
9. Press F12 until you return to the main menu.

Overriding an entry panel

Whether you are a run-time user or a developer, you probably use functions that employ entry panels. In order to provide greater control over the job submission process, entry panel screens now provide a function key option that lets you override one or more of the following:

- Submitted name
- Job description
- Job queue
- Hold on queue

Complete the steps below to override an entry panel.

1. Find a menu option utilizing an entry panel and select it. The following example is *Job Control Type Report* from the *Job Controls* menu option under *AM Utilities*.

2. Press F15. The system displays the Change Job window.

3. In the window, change the submitted job name and any other information.

   The job queue or job description that you enter must reside in the current system's library list.

4. After making the override, press F3. The system closes the job override window. You can now press Enter to continue with the entry panel submission.

Notes

Chapter 15 Updating Help Text

15

This chapter explains the following tasks involving updating help text:

The chapter consists of the following topics:

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Customizing help text	15-5
Copying field level help text	15-7
Using help text synonym	15-8
Adding a prologue and epilogue text	15-9
Securing fields using the help system	15-10
Creating a display file (CRTDSPF)	15-11
Regenerating field level security addresses	15-12
Adding Program to System fields for Field Level Security processing	15-13

Working with help text

The Infinium AM help system provides a variety of context-based, multi-level help for applications running under Infinium AM. The help system also integrates field prompt and field level security for your applications.

Entering interface user help text

Complete the steps below to enter interface user help text.

1. Position the cursor on a blank, input inhibited, area of the main menu.
2. Press Help.
3. Press F6. The system displays the User Defined Help Text screen.
4. Use the arrow keys to position the cursor to the appropriate screen area and type or edit help text.
5. Press F3 when you have finished entering help text.

Entering screen user help text

Complete the steps below to enter screen-level user help text.

1. Position the cursor on a blank, input inhibited, area of a screen display.
2. Press Help.
3. Press F6.
4. Use the arrow keys to position the cursor to the appropriate screen area and type or edit help text.
5. Press F3 when you have finished entering help text.

Entering field user help text

Complete the steps below to enter field-level user help text.

1. Position the cursor on a field to enter help text.
2. Press Help.
3. Press F6.
4. Use the arrow keys to position the cursor to the appropriate screen area and type or edit help text.
5. Press F3 when you have finished entering help text.

Entering extended user help text

Complete the steps below to enter extended user help text.

1. Press Help from any screen or field.
2. Press F6 and then F2.
3. Use the arrow keys to position the cursor to the appropriate screen area and type or edit help text.
4. Press F3 when you have finished entering help text.

Inserting a line of user help text

Complete the steps below to insert a new line of user help text.

1. Press Help.
2. Press F6.
3. Move the cursor to the place on the screen to insert the line.
4. Press F23 to insert a line.

Deleting a line of user help text

Complete the steps below to delete an existing line of user help text.

1. Press Help.
2. Press F6.
3. Move the cursor on the line to delete.
4. At the beginning of the line, press Delete until the line is blank or m the cursor to the end of the line and press Backspace until the line is blank.

Customizing help text

Adding an underscore to user help text

Complete the steps below to add underscore formatting to user help text.

1. Press Help.
2. Press F6.
3. Move the cursor to a blank space just before the location where the underscore begins.
4. Press F17.

   Move the cursor to the location to where the underscore should end.
5. Press F13.

Adding high intensity to user help text

Complete the steps below to add high intensity formatting to user help text.

1. Press Help.
2. Press F6 to update user text.
3. Position the cursor to a blank space just before where the high intensity begins.
4. Press F15.
5. Position the cursor to the location where the high intensity should end.
6. Press F13.

Adding reverse image to user help text

Complete the steps below to add reverse image formatting to user help text.

1. Press Help.
2. Press F6.
3. Position the cursor to a blank space just before where the high intensity begins.
4. Press F16.
5. Position the cursor to the location where the high intensity should end.
6. Press F13.

Adding blinking attributes

You can make characters or a block of text blink on the screen. Complete the steps below to add blinking formatting to user help text.

1. Press Help.
2. Press F6 user text.
3. Position the cursor to a blank space just where the blinking begins.
4. Press F14.
5. Position the cursor to the location where the blinking should end.
6. Press F13.

Copying field level help text

Certain fields in the system often display on different screens through different functions. Instead of having to retype the same help text over and over for those fields, you can copy it from one field to the help screen that displays for another field. You can then add additional text or edit the text you copied.

If you do not want to change any of the text or add any more, you should use a synonym instead of copying the next. Refer to the task Using Help Text Synonyms later in this section.

Complete the steps below to copy field level help text.

1. With the cursor on the field for which you are copying field help text, press Help.
2. At the help screen, press F6.
3. Move the cursor to *Copy Field* and type the name of the field whose text you are copying. If the field you are copying from resides in a different display file and/or format, type the appropriate names in the *file* and *format* fields.
4. Press Enter. The text from the field you copied displays on the current screen. You can edit the text if you want.
5. Press F3 twice to return to the screen display and save the work.

Using help text synonym

There may be instances when the same field displays on different screens and the help text needed for the field is the same in all cases. Rather than waste disk space and time copying or re-typing the text, you can use a synonym. This way, you enter the help text only once. When the user presses Help at other screens with that field, the synonym points the help system to the original text.

Make sure the necessary help text has been entered for at least one occurrence of the field. This is called the “parent” field.

Complete the steps below to use a synonym.

1. With the cursor on the field for which you want a synonym used, press Help.
2. Press F6.
3. In *Synonym* type the name of the parent field.
4. In *Format* type the format name of the parent field. If the parent field resides in a different display file and/or format, type the appropriate names in the *file* and *format* fields.
5. Press F3 twice.

Adding a prologue and epilogue text

Prologue and epilogue text does not display when you press Help. It displays only when you print the help text. When you print help text, the prologue is printed prior to each screen. The epilogue text is printed after each screen.

Complete the steps below to add a prologue or epilogue to help text.

1. After you have opened a function, position the cursor on any part of the screen that is not an input field and press Help. You are at screen level help.
2. Press F6.
3. Press F10.
4. Type a screen header in *Screen Title*.
5. Position the cursor at the first line of the Prologue half of the screen.
6. Enter the prologue text.
7. Position the cursor to the Epilogue half of the screen and type epilogue text.
8. When you have finished, press F3 until you are back at the display screen.

Securing fields using the help system

The help system is responsible for integrating field level security in applications that run under Infinium AM. You can secure a field from any user or group user. When you secure a field, you can make it display but not accept input or you can make it hidden.

Complete the steps below to establish field-level security for a field.

1. Select the function in which you want to secure certain fields.
2. Go to the appropriate screen and position the cursor on the field that you want to secure.
3. Press Help.
4. Press F5. The system displays the Field Security screen.
5. Position the cursor on the User Profile name from which the field is to be secured.
   - Type **D** to protect and hide the field.
   - Type **U** to protect the field, but still display its current value.
6. Press F3 twice to return to the screen display.
7. Repeat the steps above for every field that you want to secure.

Creating a display file (CRTDSPF)

If you are using custom programs that run under Infinium AM, or if you experience occasional difficulties with help text displays, you may need to run the Infinium AM command: CRTDSPF (Create Display File). Infinium AM's CRTDSPF is not the same as the IBM CRTDSPF command.

The Infinium AM version of CRTDSPF combines the CRTDSPF command with the CRTHLPTXT (create help text). The help text records are necessary for users to update and display help text.

If the display file does not need recompiling, you may decide to run the CRTHLPTXT command by itself. You must enter only the system designator and release/mod. values of a particular system.

Follow the steps listed below.

1. When you are ready to compile the display file, type the following command at the command entry screen and press F4 to prompt:

   AM2000/CRTDSPF

2. The system displays the Create Display File (CRTDSPF) screen.

3. Enter the appropriate display file, library, and member names in the field on the screen. In the *System*, *Release* and *Mod*. fields, make sure that you enter the appropriate values.

   To create help text records for the display file, make sure that the value in the *Help* field is ***YES**.

4. If you have not created a system for the display file, you should press F12 and create one with the AM System and versions option.

5. After you have entered the appropriate values on the screen, press Enter.

   Depending on machine size, display file size, and machine usage, it might take a few minutes or longer for the process to complete.

   Once the display file has been compiled and the help text members have been created, your program can reference it as a WRKSTN file. When your program makes a call to AMGHI1, the system displays the appropriate screen or field level help record. At this point the user can enter help text.

Regenerating field level security addresses

This command enables you to update the help linkage used by Field Level Security (FLS) for a series of display files. The command, AMFLSADDR, can be executed instead of the AM2000/CRTDSPF or CRTHLPTXT commands when a problem with Field Level Security is encountered due to incorrectly assigned field addresses (usually associated with APC releases of Infinium display files.)

You can execute the command AMFLSADDR at any time. Prior to executing the command, verify that your AM2000 platform library exists in your interactive library list.

Complete the steps below to use the AMFLSADDR command.

1. Type the command **AMFLSADDR** on any command line and press F4.
2. Use the information below to complete the fields on this screen.

   Product Library

   Enter the name of the product library containing the display file to process

   Display File Name

   Enter in the name of the display file to process or a partial name followed by an asterisk (*) to process more than one display file, such as **XXD*** for all display files beginning with the letters “XXD”, or the special value ***ALL** to process all the display files in the specified library.
3. Type the System Designator, Release, and Modification of the display file to be processed.
4. Press Enter. The command executes.

Adding Program to System fields for Field Level Security processing

Program to System fields are used to support Field Level Security when using Infinium products.

The ADDPGMFLD command is used to add the *Program to System* fields to given display files as well as insert the necessary program code in to the display files processing the RPG program. The Display File and Program must be compiled after running ADDPGMFLD.

The RMVPGMFLD command is used to remove the *Program to System* fields from given display files as well as remove inserted program code in the RPG processing program. The Display File and Program must be compiled after running RMVPGMFLD.

Program to System fields are used at run-time based on the data in AMPY. Whether the field is set to **Protect** or **Protect and Hide** for a given user, the appropriate hex value is assigned to the given *Program to System* field representing the given field.

You can execute the command ADDPGMFLD at any time. Prior to executing the command, verify that your AM2000 platform library exists in your interactive library list.

To use the ADDPGMFLD command:

1 Type the command **ADDPGMFLD** on any command line and press F4.

```
                    Add Program to System Fields (ADDPGMFLD)

TYPE CHOICES, PRESS ENTER.

RPG Source File  . . . . . .   _________     NAME
  Library Name . . . . . . .     *LIBL       NAME, *LIBL
RPG Member Name  . . . . . .   *ALL          Name, generic*, *ALL
Display File Object Library  . .  _________  NAME
Dspf DDS Source File . . . . . .  _________  NAME
  Library Name . . . . . . .     *LIBL       NAME, *LIBL
```

Figure 15-1: Soft Function Key Maintenance prompt screen

You can execute the RMVPGMFLD command at any time. Prior to executing the command, verify that your AM2000 platform library exists in your interactive library list.

2 Complete the steps below to use the ADDPGMFLD command.Type the **RMVPGMFLD** command on any command line and press F4.

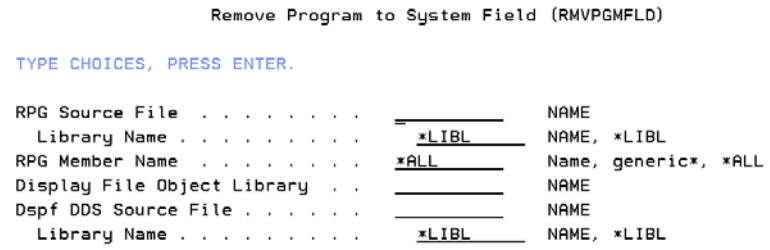

Figure 15-2: Soft Function Key Maintenance prompt screen

Field level security limitations

The limitation below currently exists for setting Field Level Security on fields.

Protect assigned to a field will always protect the field although all other display attributes will be ignored.

For example, a DDS field with COLOR(TRQ) DSPATR(BL) will be protected and will display as GREEN with no other attributes applied.

Chapter 16 Managing Help Files (Help Text Utilities)

16

A variety of utilities are available to help you manage help files. This chapter explains how to use these utilities.

The chapter consists of the following topics:

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Deleting a help member	16-3
Renaming a help member	16-4
Copying a help member	16-5
Printing help text	16-6
Displaying help usage	16-7
Copying user help for a new release	16-8
Displaying help files that are missing help text	16-9
Displaying missing menu items	16-10
Deleting help displays	16-11
Reorganizing help files	16-12
Using help/PC support utilities	16-13

Creating a help member

If a system does not have help text, you can create a help member for it. Later, you can copy another system's help to the system or run the **CRTHLPTXT** command to populate the records. Refer to the "Creating Display Files" chapter in this guide for more information.

Complete the steps below to create a help member.

1. From the main menu select *AM Utilities*.
2. Select *Help Text*.
3. Select *Create Member*. The system displays the Create Help Member screen.
4. Type the system designator, release, and modification values for the system.
5. Press Enter.

Deleting a help member

You can delete a system's help member and all of its associated help text with this option.

Complete the steps below to delete a help member.

1. From the main menu select *AM Utilities*.
2. Select *Help Text*.
3. Select *Delete Member*. The system displays the Delete Help Member screen.
4. Type the system designator, release, and modification values of the system.
5. Press Enter.

Renaming a help member

You can rename a help member from one system to another. This task results in the source system's help being re-associated with the target system.

Complete the steps below to rename a help member.

1. From the main menu select *AM Utilities*.
2. Select *Help Text*.
3. Select *Rename Member*. The system displays the Rename Help Member screen.
4. Type the system designator, release, and modification values of the source system in *From*.
5. Type the system designator, release, and modification values of the target system in *To*.
6. Press Enter.

Copying a help member

You can copy a help member from one system to another.

Complete the steps below to copy a help member.

1. From the main menu select *AM Utilities*.
2. Select *Help Text*.
3. Select *Copy Member*. The system displays the Copy Help Member screen.
4. Type the system designator, release, and modification values of the source system in *From*.
5. Type the system designator, release, and modification values of the target system in *To*.
6. Press Enter.

Printing help text

Complete the steps below to print help text.

1. From the main menu select *AM Utilities*.
2. Select *Help Text*.
3. Select *Print Help Text* from the *Help Text Utilities* menu. You might have to press Page Down to see the Print Help Text option. The system displays the Print Help Text screen.
4. To print the help text for all the functions in a system, type the system designator in the *System* field. To print help text for a specific release and modification, type the system designator and the release number in the appropriate fields.
5. Optionally type the job name of the function t to print in the *Function name* field.
6. Optionally type the chapter number in the *Chapter* field.
7. Press F6 to submit the job.

   The *Print Help Text* function is set up to print to a laser printer in order to provide a more readable copy of the help text.

Displaying help usage

You can display the help usage log of a given user profile to find out when and where the user pressed Help. The user profile must have the flag *Log help usage* set to **Y** in order to enable logging.

Complete the steps below to display help usage.

1. From the main menu select *AM Utilities*.
2. Select *Help Text*.
3. Select *Display Help Usage* from the *Help Text Utilities* menu.
4. Type the user profile name in *Select user*.
5. Press Enter. The system displays a screen showing the user, display file, format, field name, and date when Help was pressed.

Copying user help for a new release

You can copy help text from one release of a system to a newer release of the system.

Complete the steps below to copy help text from one release to another.

1. From the main menu select *AM Utilities*.
2. Select *Help Text*.
3. Select *Copy User Help for Release*. The system displays the Copy User Text screen.
4. Type the system designator, release, and modification values for the old system in *From*.
5. Type the system designator, release, and modification values for the new release in *To*.
6. Press F6.

Displaying help files that are missing help text

You can display all help text files compiled with the CRTHLPMBR command that do not have help text. All display files that do not have help text display.

Complete the steps below to display help text files that do not have help text.

1. From the main menu select *AM Utilities*.
2. Select *Help Text*.
3. Select *Display Files Missing Help Text* from the *Help Text Utilities* menu.
4. Type the system designator, release number, and modification values.
5. Press Enter to display the files.

Displaying missing menu items

You can display those menu items for which there is no help text.

Complete the steps below to display missing menu items.

1. From the main menu select *AM Utilities*.
2. Select *Help Text*.
3. Select *Menu Items Missing Help Text*.
4. Type the system designator, release number, and modification values for the system.
5. Press Enter to display the menu items.

Deleting help displays

You can delete display files associated with a system/release/mod.

Complete the steps below to delete help displays.

1. From the main menu select *AM Utilities*.
2. Select *Help Text*.
3. Select *Delete Help Displays*.
4. Type the system designator, release number, and modification values for the system whose display files you are deleting.
5. Press Enter. The screen lists all of the display files and record formats associated with the system.
6. Select the display file you want to delete with option **4**. You will be prompted to confirm the deletion. To proceed press Enter. To cancel the deletion, press F12.

Reorganizing help files

If you have used any of the help utilities explained in this section, you might want to reorganize the help files to free up disk space that was allocated to pre-existing member.

Complete the steps below to reorganize help files.

1. From the main menu select *AM Utilities*.
2. Select *Help Text*.
3. Select *Reorganize Help Files*.
4. At the entry panel, press Enter to submit the reorganization to batch or press F12 to abort the reorganization.

Using help/PC support

PC Support utilities allow you to upload and download help text between the personal computer (PC) and the System i. With these utilities, you can write and update help text in a PC-based word processor. When you are ready to upload the text, whether it is for a single field or an entire system, you can upload it to the System i with PC Support.

You can download the help text for a system and maintain the text on the PC and upload the text later.

The purpose of these utilities is to offer you the choice between maintaining help on the System i or maintaining on the PC. If you maintain it on the PC, you can still add attributes such as color and blinking

Prerequisites

Before you can take full advantage of PC Support utilities, you must meet certain prerequisites.

Complete the steps below to satisfy prerequisites for PC Support utilities. Skip any steps that you already satisfy.

1. Create a user profile authorized to update help text and therefore use the Help Text utilities.
2. Install System i PC Support on a personal computer if it is not already installed.
3. Install a PC-based word processor that can save a file to an ASCII format.
4. Install a word processor macro that formats the help text members with control records. The Infinium AM upload utility reads each control record and writes the associated help text into the specified help text into the specified help file member on the System i.

   Install a PC-based utility that removes ASCII control characters, line feed, carriage return, tab, and formats every line into an 80-character record. The program would have to pad the ends of lines with spaces.

   You may not require the PC program for removing ASCII control characters form the help file if you use shared folders and the **CPYTOPCD** and

CPYFRMPCD commands. However, this method may not always work for technical reasons that vary from one System i to another. We recommend the method described in this task, but you are free to explore the shared folders option at your site.

Working with the control record

In order for the help text upload utility to work properly, every block of help text (field, screen, or menu function) must have an associated control record. You enter this record in your word processor. The control record consists of a vertical bar followed by a series of hyphens, followed by the display file name, record format name, and field name (for field level help text). The control record varies slightly for screen help and function help.

This task focuses on field level help text which comprises the bulk of text in the help file. Once you understand the uploading and downloading field help text, you can apply the same principles to screen function level help.

When writing the help text, you might want to create a macro program to format the control record. Each control record has definite spacing requirements, which is why a macro program is well suited to this job. Make sure that you space the records apart with at least one space. When you run the macro program, the system formats every control record with the proper spacing, vertical bar, and hyphens.

Embedding attributes in the help file

When you update help text on the System i, the Infinium AM help system allows you to add bold, underline, and blinking attributes to the text. On the personal computer, you can embed codes in the text which are translated to the attributes when you transfer the file to the System i. The codes are special ASCII characters. The following are the ASCII codes:

- 179=begin reverse video
- 191=begin underscore
- 192=begin bold
- 217=begin white reverse video
- 196=end attribute (this code terminates an attribute)

Complete one of the steps below.

1. You can create a macro program on the personal computer that inserts a particular code for each type of attribute so that you do not have to type the codes in manually.

2. To manually generate these codes in your word processor, hold the Alt key down and type the number on the numeric keypad. For each code, a non-alphabetic character displays on the screen.

Using the help files

You use four files when downloading or uploading help text. These files reside on the System i in your Infinium AM platform library. When you download help, the first help utility copies the system's help text into a file/member. With PC Support, you run a transfer request that copies the help text from the file/member to your hard disk. When you upload help text, you run a transfer request that copies your PC file to a System I file/member. Then you run the help utility to copy the text to the specified system help file. The member name takes the following naming convention:

SDrrm

Where **SD** is the system designator, **rr** is the release number, and **m** is the modification value.

The upload and download help files are as follows:

- AMPHUTU (upload user help text)
- AMPHUTX (upload system help text)
- AMPHDTU (download user help text)
- AMPHDTX (download system help text)

Setting up PC support

You need PC Support (IBM or a third-party equivalent) because of its transfer utilities. The following examples assume you are running IBM PC Support with an active connection to the System i.

Setting up and running PC Support is out of the scope of this document. Please refer to the installation and operation instructions of your PC Support utilities for specific information.

Downloading PC-based user help text

You can download the help text for a system, maintain the help text on the personal computer, and then upload the text to the host system later.

Complete the steps below to download system help text to a PC:

1. Sign on to Infinium AM and select *AM Utilities*.
2. Select *Help Text*.
3. Select *Help/PC Support Utilities*.
4. Select *Copy User Help to PC Support*. The Copy User Text to PC Support screen displays.
5. Type the system designator, release, and modification values of the system whose help text you are downloading.
6. To limit the download process to a specific display file and/or its formats, you can type values in the *File* and *Format* fields. If you type a value in the *File* field but leave the *Format* field blank, all formats for the specified display file are included.
7. Press F6.
8. Call up PC Support and run the utility to transfer data from the host system to the personal computer.
9. Complete the fields as follows:

Field	Value
From	**AM2000/AMPHDTX(SDrrm)**
Output device	**Disk**
To	**d:\path name\filename**
Replace old file	**1** (Yes) or **2** (No)
PC file type	**1** (ASCII text) or **2** (DOS random)

10. Press Enter.

You can repeat these steps for system help if you have the Developer's version. In this case, select *Copy Help Text from PC Support*.

Maintaining help on the PC

If you choose to maintain all or part of your help text on the personal computer, there are a few guidelines that you should follow to ensure a smooth work process.

- If you download the help text from an application with the idea of maintaining the text on the PC, you may find it difficult to identify the particular blocks of text with their associated screen prompts. Each help text block, whether it is for a field, screen or menu function, has its associated control record. Although in many cases you can identify the actual field by its display file name, record format and field name, you may have difficulty doing so in other cases.
- You should always update and maintain the help text in the word processor's native format. Never update or maintain the ASCII version of the file. Use the ASCII file only for the upload.
- When you are ready to upload the text, save a copy of the file in ASCII format and run the control character removal program. If you are using shared folders, you can copy the ASCII file to an AS/400 folder, and then run the **CPYFRMPCD** command to copy the file to the appropriate file/member. If you use the shared folders method, you do not have to remove the ASCII control characters from the file because they are removed automatically.

Uploading PC-based user help text

After you have updated a help file on your personal computer, use the following steps to upload it to the System i. You can upload as little or as much help text as you want. You do not have to perform this action on the help text of an entire system. Only the help text with the associated control record is written into the application's help member.

Complete the steps below to upload system help text from a PC.

1 Call up PC Support and run the utility to transfer data from the personal computer to the host system.

2 Complete the fields as follows:

Field	Value
To	**AM2000/AMPHUTX(SDrrm)**
From	**x:\path name\filename**

Field	Value
Use PC file description	**Yes**
Create AS/400 objects	**1** (yes, create) or **3** (no, replace)

3 After you have created the transfer request, save it to a file so that you do not have to recreate the request the next time that you upload help text.

4 After the transfer has completed, sign on to Infinium AM and select *AM Utilities*.

5 Select *Help Text*.

6 Select *Help/PC Support Utilities*.

7 Select *Load User Help from PC Support*. The Load User Help Text screen displays.

8 Type the system designator, release, and modification values of the system whose help text you are uploading.

9 To limit the upload process to a specific display file and/or its formats, you can type values in *File* and *Format*. If you type a value in *File* but leave *Format* blank, all formats for the specified display file are included.

10 Press Enter.

11 If you do not see the new help text in the fields or screen, run the **AM2000/CRTDSPF** command and repeat steps 7 through 10. Refer to the "Creating Display File" chapter in this guide for more information.

You can repeat these steps for system help if you have the Developer's version. In this case, select *Load Help Text from PC Support*.

You can combine screen, function, and field help all in the same file when you do the upload.

Chapter 17 Working with System and Versions Utilities

17

This chapter includes the tasks you can complete involving systems and versions utilities.

The chapter consists of the following topics:

Topic	Page
Creating a system/version report	17-2
Creating a code variables report	17-3
Creating a menu structure report	17-4
Copying a menu structure to a user	17-5
Deleting release and modification dependencies	17-6
Creating a system override	17-7
Deleting a system override	17-9

Creating a system/version report

You can generate a report about a system and its versions. Complete the steps below to create a system/version report.

1. From the main menu select *AM Utilities*.
2. Select *System/Version*.
3. Select *System/Version Report*. The system displays the System/Version Report screen.
4. The *From System* and *To System* fields enable you to have an alphanumeric range of systems to include in your report. To include systems that fall within the range A-G to be included in the report, type the starting system in the *From* field and the ending system in the *To* field. Leave *To* blank to include all systems after *From* in the report. Leave *From* blank to include all systems up to *To* in the report.
5. Type **Y** or **N** to have authorized users appear or not appear in the report and then press Enter. The report is created.

Creating a code variables report

You can create a report of code variables. Complete the steps below to create a code variables report.

1. From the main menu select *AM Utilities*.
2. Select *System/Versions*.
3. Select *Code Variables Report* from the *System/Version* menu. The system displays the Code Variables Report screen.
4. Type **1** in the only field and press Enter. The system prints all Code Variables.

Creating a menu structure report

You can create a report of the menu structure for a system, version, or user. Complete the steps below to create a menu structure report.

1. From the main menu select *AM Utilities*.
2. Select *Systems and Versions*.
3. Select *Menu Structure Report*. The system displays the System/Version Report screen.

   A menu structure is associated with a system, user, and version. The steps below require you to type in the system, user profile, and version number for the associated menu structure.
4. Type the system designator in *System*.
5. Type the user profile for which you are creating the menu structure report in *User*.
6. Type the appropriate version number in the *Version* field and press Enter. The report is created.

Copying a menu structure to a user

You can copy a menu structure from one user to another. The user to which you are copying the menu structure must be authorized to the system/version's menu structure that you are copying.

Complete the steps below to copy a menu structure to a user.

1. From the main menu select *AM Utilities*.
2. Select *System/Version*.
3. Select *Copy Menu to user*. The system displays the Copy Menu screen.To the right of each field name there is a key name to help you clarify the correct values to enter.
4. Use the information below to complete the fields on this screen.

   From System Designator

   Type the system designator of the system from which you are copying a menu structure.

   From Version

   Type the version number of the version from which you are copying a menu structure.

   From User

   Type the user profile name of the user to which you are copying the menu structure.

   To System Designator
   To Version
   To User

   Type the system designator, version number, and user receiving the menu structure.

5. Press Enter. The copy is complete.

Deleting release and modification dependencies

You can delete the modules or components of a system that has release and modification dependencies. These modules are:

- Job controls (DLTJOBCTL)
- Function keys (DLTFKEY)
- Help file members (DLTHLPMBR)
- Web data (DEL_WEB)

This utility is a command job control. When you select it, the jobs above run in that order. The job control displays a screen prompting you for the system, release, and modification values. You can also run these jobs separately with Quick Access.

Complete the steps listed below to delete release and modification dependencies.

1. Select *Delete System RLS/MOD information* from the *System/Version Utilities* menu.
2. The screen prompts you for the system, release, and modification.

Creating a system override

You can create system overrides for any type of file such as print files, display files, and database files. These overrides are for a particular system, release, and modification.

Caution: If not completed correctly, this task can have serious consequences, including corrupted data. Ensure that you have the correct information before proceeding.

Complete the steps below to create a system override.

1. From the main menu select *AM Utilities*.
2. Select *System/Version*.
3. Select *System Overrides*. The system displays the System Overrides screen.
4. Use the information below to complete the fields on this screen.

   System

   Type the system designator. You can press F4 to display a list of valid options.

   Release
   Modification

   Type the release and modification.

   File

   Type the name of the file to override. That is, enter the file to which you are applying the override command. You can press F4 to display a list of valid options.

   Command

   Type the name of the override command to use. You can press F4 to display a list of valid options.

5. Press Enter. The command is prompted. The file being overridden defaults in from the previous screen.

6 Type the name of the file to use instead of the file being overridden in the second field, the name varies depending on the command.

7 Complete the rest of the fields on this screen using the online field level help.

8 Press Enter to create the override. Pressing F3 on the prompted command screen does not save changes. When you work with this system, the override will be in use. The system displays a message in your job log.

Deleting a system override

You can delete system overrides that currently exist.

Complete the steps below to remove a system override.

1. From the main menu select *AM Utilities*.
2. Select *System/Version*.
3. Select *System Overrides*. The system displays the System Overrides screen.

   System

   Type the system designator. You can press F4 to display a list of valid options.

   Release
   Modification

   Type the release and modification.

   File

   Type the name of the file to override. That is, enter the file to which you are applying the override command. You can press F4 to display a list of valid options.

4. Press F22. The system displays a confirmation screen. Press F22 again to delete the override.

Notes

Chapter 18 Working with User and Authority Utilities

18

This chapter includes tasks involving users and authorities utilities.

The chapter consists of the following topics:

Topic	Page
Creating a user and authority report	18-2
Creating an authorized menu report	18-3
Creating a field security report	18-4
Changing a user’s password	18-5
Copying a user profile	18-6
Deleting a user profile	18-7
Changing menu descriptions	18-8

Creating a user and authority report

You can create a report about users and their authorities. Complete the steps listed below.

1. From the main menu select *AM Utilities*.
2. Select *User/Authority*.
3. Select *User/Authority Report*. The system displays the User/Authority Report screen.
4. Use the information below to complete the fields on this screen.

   From

   Type the name of the first User Profile for the report. If you leave this field blank, the report includes all users from the beginning of the file.

   To

   Type the name of the last user profile for the report. If you leave this field blank, the report includes all users to the end of the file.

   Print user flags

   Type **Y** to include each profile's user and environment flag settings in the report.

   Print user authority

   Type **Y** to include the profile's authorized systems and versions in the report.

5. Press Enter to create the report.

Creating an authorized menu report

You can create a report showing which menus each user is authorized to. This report is useful in determining proper referenced menus for each user. The report can be run for specific systems, versions and users, or all systems, versions and users. Complete the steps listed below.

1. From the main menu select *AM Utilities*.
2. Select *User/Authority*.
3. Select *Authorized Menu Report*. The system displays the Authorized Menu Report prompt screen.
4. Use the information below to complete the fields on this screen.

   System

   Type the system designatorfor which to generate this report. Leave blank to include all systems.

   Version

   Type the version numberfor which to generate this report. Leave blank to include all versions for the specified system designator.

   User

   Type the user profile names for which to generate this report. Leave blank to include all users.
5. Press Enter to create the report.

Creating a field security report

Complete the steps listed below.

1. From the main menu select *AM Utilities*.
2. Select *User/Authority*.
3. Select *Field Security Report*. The system displays the Field Security Report screen.
4. Use the information below to complete the fields on this screen.

   System

   Type the system designator.

   Release

   Type the release number.

   Modification

   Type the modification number.
5. Press Enter to create the report.

Changing a user's password

Perform the steps below to change the password of the currently signed-on user.

1. From the main menu select *AM Utilities*.
2. Select *User/Authority*.
3. Select *Change Password*. The system displays the User Password Maintenance screen.
4. Use the information below to complete the fields on this screen.

   Password

   Type the current password. This is a non-display field.

   New password
   Verify new password

   Type the new password and verify that password. These are non-display fields.

   Use your new password the next time you sign on to Infinium AM

   To bypass the Infinium password screen when the user signs on, you must use the *Users and Authorities* option to define the password as ***NONE**.
5. Press Enter.

Copying a user profile

You can copy a profile that is currently defined on the Infinium AM platform. In addition to copying the profile, you can also copy the following user specific information: the user's authorities, menus, code variables, printer controls, news, and field level security.

Complete the steps listed below.

1. From the main menu select *AM Utilities*.
2. Select *User/Authority*.
3. Select *Copy user profile*. The system displays the Copy AM User screen.
4. Use the information below to complete the fields on this screen.

   From User

   Type the user profile to be copied.

   To User
   Text

   Type the new user profile and description.

   Authorities

   Specify whether to copy the user's authorities.

5. Press F10 to display other user information that can be copied to the new user profile or excluded from being copied. Change the defaults as appropriate and press Enter.

Deleting a user profile

You can delete a user profile and all Infinium AM information directly associated with the user profile. This function does not delete the System i profile nor does it delete any user specific archived files.

Complete the steps listed below.

1. From the main menu select *AM Utilities*.
2. Select *User/Authority*.
3. Select *Delete user profile*. The system displays the Delete AM User screen.
4. Type the user profile to be deleted in the *User* field and press Enter.

Changing menu descriptions

This utility allows you to change the descriptive header text that displays at the top of an application main menu, as well as in the pulldown menus that display when you switch systems.

To use the command to change menu descriptions for multiple users, you must be signed on as user profile AM2000 or as a system supervisor, such as GL2000. AM2000 can change menu descriptions for any system. A system supervisor is limited to changing menu descriptions for versions within the supervisor's system. If you are signed on as any other user profile, you can change menu descriptions for that profile only.

You can run the command **CHGDSC** at any time.

Complete the steps listed below.

1. Type the command **CHGDSC** on any command line and press Enter. The system displays the Change Menu Description screen.

2. Type the *System*, *Version*, and *User* to change the menu description. The *User* field displays only if you are signed on as user AM2000 or as a system supervisor. Press Enter.

   In the *Description* and *New description* fields, the system displays the current description for the system, version, and user specified on the top part of the screen.

3. Change the description in the *New description* field.

4. Use the *Users to update* field to specify the users whose menu descriptions are to be updated. You can enter a value in this field only if you are signed on as user AM2000 or as the system supervisor of the specified system. See the help text for an explanation of the possible values.

5. Press F3 and save changes to execute the command.

Chapter 19 Working with Job Control Utilities

19

This chapter includes the tasks you can complete involving job control utilities.

The chapter consists of the following topics:

Topic	Page
Deleting job controls	19-2
Renaming job controls	19-3
Copying job controls	19-4
Creating a job control type report	19-5
Creating a where-used report	19-7
Updating screen sequencing command	19-8

Deleting job controls

Job controls are associated with a system designator/release/modification that identifies a given system installed under Infinium AM. This utility deletes a system's job controls based on its system/release/modification values. Therefore, you should use this and other job control utilities with caution.

Complete the steps below to delete a job control.

1. From the main menu select *AM Utilities*.
2. Select *Job Controls*.
3. Select *Delete*. The system displays the Delete Job Controls screen.
4. Use the information below to complete the fields on this screen.

   System

   Type the system designator of the system whose job controls you are deleting.

   Release

   Type the release number of the system you are deleting.

   Modification

   Type the modification number of the system you are deleting.
5. Press Enter. When the system displays the warning screen, you can cancel the deletion. To cancel, press F12. To proceed, press Enter.

Renaming job controls

Renaming job controls involves changing the system designator and release/modification values of the job controls to that of another system.

Complete the steps below to rename a job control.

1. From the main menu select *AM Utilities*.
2. Select *Job Controls*.
3. Select *Rename*. The system displays the Rename Job Controls screen.
4. Use the information below to complete the fields on this screen.

   The first three fields are for the system, release/modification of the system whose job controls you are renaming. The second three fields are for the target system's system designator, release/modification. After you run this utility, the job controls of the *From system* become associated with the *To System*.

   From

   Type the appropriate system designator and release/modification values.

   To

   Type the system designator and release/modification values.

5. Press Enter to rename the job controls.

Copying job controls

You can copy job controls from one system to another system.

Complete the steps below to copy a job control.

1. From the main menu select *AM Utilities*.
2. Select *Job Controls*.
3. Select *Copy*. The system displays the Copy Job Controls screen.
4. Use the information below to complete the fields on this screen.

   From

   Type the appropriate system designator and release/modification values.

   To

   Type the system designator and release/modification values.
5. Press Enter to copy the job controls.

Creating a job control type report

You can create a report that provides information about the job types (Program, CL Command, Link, Menu, and Text) associated with a system.

Complete the steps below to create a job control type report.

1. From the main menu select *AM Utilities*.
2. Select *Job Controls*.
3. Select *Job Control Type Report*. The system displays the Job Control Type Report screen.
4. Use the information below to complete the fields on this screen.

From
To

These columns indicate the alphanumeric range of systems for which you are creating the report.

Job type

Type the job type for the report you are creating.

Valid values are:

X	Program
L	Link
C	Command
M	Menu
T	Text
	BLANK

System
Release/Modification

Type the appropriate from and to values.

5 Press Enter to create the job control report.

Creating a where-used report

The where-used report tells you where certain jobs are used. You can indicate if the report is determined by the job type or by the job name:

- X: Program
- L: Link
- C: Command
- M: Menu
- T: Text

Complete the steps below to create a where-used report.

1 From the main menu select *AM Utilities*.

2 Select *Job Controls*.

3 Select *Where-Used Report* from the Job Controls menu. The system displays the Where-Used Report screen.

Your Where-Used report is based on the system/release/modification values along with the job type and job name.

4 Use the information below to complete the fields on this screen.

System
Release
Modification

Type the appropriate system designator and release/modification values for the report you are creating.

Job type

Optionally type the appropriate job type.

Job Name

Optionally type the job name.

5 Press Enter to create the report.

Updating screen sequencing command

This menu option enables you to populate the screen sequencing portion of Job Control Maintenance for a particular Job Control (instead of having to populate this information manually), or for all Job Controls defined for a particular System, Release and Modification. Screen sequencing information is used for such functions as Field Level Security.

Complete the steps below to update screen sequencing.

1. From the main menu select *AM Utilities*.
2. Select *Job Controls*.
3. Select *Update Screen Sequencing*. The system displays the Update Screen Sequencing command screen.
4. Use the information below to complete the fields on this screen.

   Job Control

   Type the job control name to have Screen Sequencing information populated for or ***ALL** for all job controls for the system, release and modification entered below.

   System
   Release
   Modification

   Type the appropriate system designator and release/modification values appropriate to the job control entered above.

   Library

   Type the library name of your Infinium AM platform, for example, **AM2000**.
5. Press Enter to update the screen sequencing information for this job control.

Chapter 20 Working with Infinium AM Environment Utilities

20

This chapter includes the tasks you can complete involving Infinium AM Environment Utilities.

The chapter consists of the following topics:

Topic	Page
Creating a history log report	20-2
Reorganizing a history log	20-3
Reorganizing event activity	20-4
Using the date utility option	20-5
Reorganizing Infinium AM files	20-6

Creating a history log report

The History Log report is a cumulative report of all user logging based on the three flag settings (menu, help, function) of the user profiles you enter in the history log entry panel. If these authority flags are not enabled, there will be no corresponding data for the report. Refer to the “Creating and Maintaining User Profiles” chapter for more information.

Complete the steps below to create a history log report.

1 From the main menu select *AM Utilities*.

2 Select *AM Environment*.

3 Select History Log Report. The system displays the History Log Report screen.

4 Use the information below to complete the fields on this screen.

You can define a wide or narrow range of systems, versions, users, dates, and times to be included in the report.

From System, Version
To System, Version

Type the system designator beside System. Likewise, type the versionrange beside the Version. To base a report on only one system or version, type the same value.

From User
To User

Type the from and to dates beside User. If you leave these blank, the report includes the entire range. Type the time to specify a time range.

5 Press Enter to create the report.

Reorganizing a history log

When you reorganize a history log, you redefine its ranges (From/To System, Version, User, Date, Time). Records within that range are deleted and the file is reorganized, freeing up disk space.

Complete the steps below to reorganize a history log.

1. From the main menu select *AM Utilities*.
2. Select *AM Environment*.
3. Select *Reorganize History Log*. The system displays the Reorganize History Log screen.
4. Type the appropriate ranges in *System*, *Version*, *Date*, and *Time From/To*.
5. Press Enter.

Reorganizing event activity

You can remove a range of jobs in the Event Activity queue.

Complete the steps below to reorganize the Event Activity queue.

1. From the main menu select *AM Utilities*.
2. Select *AM Environment*.
3. Select *Reorganize Event Activity*. The system displays the Reorganize Event Activity screen.
4. Type the appropriate ranges in *System*, *Version*, *User*, *Date*, and *Time From/To*.
5. Press Enter.

Using the date utility option

You can use this function to display the various date information returned by the Infinium AM date processing program, AMGCDATE.

Complete the steps below to use the date utility option.

1. From the main menu select *AM Utilities*.
2. Select *AM Environment*.
3. Select *Date Utility*. The system displays the Date Utility screen.
4. Type a valid date in t *Date entered* along with the date and calendar formats.

   As an example, if you type **052008** in *Date entered*, you must type **MDY** in *Date Format* and **C** in *Calendar FMT*. If you type a date in the hundred year format, such as **35204**, you must type the format in which you want the date displayed and a Calendar FMT of **H**.
5. Press Enter. The system displays the various date information returned by the date processing program, AMGCDATE.

Reorganizing Infinium AM files

You can reorganize Infinium AM files by following the steps listed below:

WARNING! You must sign onto the system as described below because files in the Infinium AM platform library would be opened during signon to an Infinium AM menu, preventing the reorganization from completing successfully.

Complete the steps below to reorganize Infinium AM files.

1 Sign on as user profile **AM2000** directly to a command entry screen and not to an Infinium AM menu. You can do this by typing the values described below:

Field	Value
User	**AM2000**
Password	Your password
Program/procedure	**QCMD**
Menu	leave blank
Current Lib	leave blank

2 If you are submitting the reorganization as a delayed batch job such as an overnight job, ensure that the Infinium AM platform library will not be locked during execution of the process. The job will fail if the library is locked.

If you are running the reorganization immediately, you are running the job interactively or submitting the job to batch immediately, verify that your Infinium AM platform library is not in use by any job on your system, including user profile AM2000. To do this, check for object locks on the library by typing the following at a command line and pressing Enter.

WRKOBJLCK OBJ(platform_library_name) OBJTYPE (*LIB)

If an object lock displays for the platform library indicating that it is in use by a job, you must end that job or remove the library from the job's library list.

3 Add the Infinium AM library to your library list by typing the following command and pressing Enter.

ADDLIBLE LIB(platform_library_name) POSITION(*LAST)

4 You can run the reorganization job interactively from a command line or in batch via a submit job. Because of the time required to perform reorganization, we strongly recommend submitting this command so that it runs in batch. Type the following command and press F4.

AMRGZPFM

5 You can accept the *Platform library* default of *PLATFORM or type the name of your Infinium AM platform library. Then press Enter.

6 Review the system job log to ensure that the reorganization completed successfully.

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Chapter 21 Working with Infinium AM Environment and Restricted Options

21

This section includes the tasks you can complete involving Infinium AM environment and restricted option utilities.

The chapter consists of the following topics:

Topic	Page
Running the key setup	21-2
Updating the Infinium AM security level	21-4
Display the command entry screen	21-5
Exiting Infinium AM	21-6
Starting an SQL session	21-7
Deleting selected archives	21-8
Purging expired archives	21-9

Running the key setup

According to purchase and sales agreements, new users of Infinium products are required to run the key setup after installing Infinium AM. Sales agreements are based on CPU size/usage. The 36-byte key must be entered into the system. It is designed to prevent unauthorized software installation on additional CPUs.

Prior to installing, you are an unregistered user. When you complete this option by entering the key and pressing Enter, you have registered your license to Infinium AM.

If you try to install the software on an additional System I that was not specified in your license agreement, the following events occur:

- The software resides on the new machine for 30 days.
- During this time, the following message frequently displays:

  Unregistered software in use.

- At the end of 30 days the following message displays:

  Platform key expired. Please Call Infinium Software.

- The 30-day grace period allows you to load the software on another machine in the event of a disk crash or some other potential disaster. During this time, you can contact Infinium for a *temporary key*. The temporary key allows you to continue running the software on the alternative machine for a specified time until the license machine is back on line.
- An invalid key is not accepted. You must either enter a valid key or press F12. If the software is already registered, pressing F12 has no effect. If the software is unregistered and you press F12, the software is set to unregistered with a 30 day life.
- The key is a 36-byte number divided into nine, 4 byte segments. The screen displays nine 4-byte fields. The Infinium AM key number was shipped to you with your first Infinium application order.

Complete the steps below to run the key setup.

1. From the main menu select *AM Utilities*.
2. Select *AM Environment*.

3 Select *Restricted Options*.

4 Select *Application Manager Key Setup* from the AM Environment Restricted Options menu. The system displays the Infinium Software Key Activation Processor screen displays.

5 Type the key values in each four-byte field. Make sure to enter the correct values.

6 Press Enter after entering the values. If you receive a message saying that you entered the wrong values, repeat this step.

If you have problems with this task, contact Customer Support.

Updating the Infinium AM security level

It is possible that the security level on your System i has changed since the last installation of Infinium AM. If you have installed the latest release of the operating system, or changed the security level of your System i, you must run this command. Select this option to set Infinum AM security and operating system release level equal to that of the System i.

Complete the steps below to update the Infinium AM security level.

1. From the main menu select *AM Utilities*.
2. Select *AM Environment*.
3. Select *Restricted Options*.
4. Select *Update the AM Security Level*. No screen displays when you select this option but the following message displays:

   Security level updated to level nn.

   Where **nn** is the current security level of the System i.

Display the command entry screen

Complete the steps below to display the command line entry screen.

1. From the main menu select *AM Utilities*.
2. Select *AM Environment*.
3. Select *Restricted Options*.
4. Select *Command Line*. The system displays the Command Entry screen.

Exiting Infinium AM

Complete the steps below to signoff and exit from Infinium AM.

1. From the main menu select *AM Utilities*.
2. Select *AM Environment*.
3. Select *Restricted Options*.
4. Select *Signoff* to exit from Infinium AM.

Starting an SQL session

Complete the steps below to begin an SQL session.

1. From the main menu select *AM Utilities*.
2. Select *AM Environment*.
3. Select *Restricted Options*.
4. Select *SQL* to start an IBM Interactive Structured Query Language session.

Deleting selected archives

You can delete archive spool files for:

- All users
- All users for a specified date
- One user
- One user for a specified date

This utility deletes the specified archives regardless of the Archive Life setting in the associated printer file. Refer to the “Defining Printer Controls” chapter for more information about the Archive Life.

Complete the steps below to delete selected archives.

1. From the main menu select *AM Utilities*.
2. Select *AM Environment*.
3. Select *Restricted Options*.
4. Select *Delete Selected Archives*. The system displays the Delete Selected Archives screen.
5. Type values in the *User* and/or *Date* fields to indicate the archives to delete:
   - If you type values for both *User* and *Date*, the function deletes only those archives for the user on the specified date.
   - If you type a value for *User* but leave *Date* blank, the function deletes all archives for the specified user.
   - If you leave *User* blank and type a value for *Date*, the function deletes all archives for the specified date.
6. Press Enter to submit the job to batch.

Purging expired archives

You can purge all archived files whose archive life has expired. The archive life is set in the associated printer control file.

Complete the steps below to purge expired archives.

1. From the main menu select *AM Utilities*.
2. Select *AM Environment*.
3. Select *Restricted Options*.
4. Select *Expired Archive Pur*ge. The system displays the Expired Archive Purge screen.
5. You can edit or update. You should edit first. Editing allows you to submit a report to batch detailing all the expired archives. It does not delete the archives. The *Update* option deletes all expired archives.
6. Type **0** for *Edit* if you want to generate a report first. To not generate a report, type **1** for *Update*.
7. Press Enter to submit the archive purge to batch.

Notes

Chapter 22 Working with Function Key Utilities

22

This chapter includes tasks you complete involving function key utilities.

The chapter consists of the following topics:

Topic	Page
Deleting function key definitions	22-2
Renaming function keys	22-3
Renaming default function keys	22-4
Copying function key definitions	22-5
Creating function key reports	22-6

Deleting function key definitions

Complete the steps below to delete function key definitions.

1. From the main menu select *AM Utilities*.
2. Select Function Keys.
3. Select *Delete*. The system displays the Delete Function Keys screen.
4. Use the information below to complete the fields on this screen.

   System

   Type the system designator.

   Release
   Modification

   Type the release and modification numbers in the *Release* and *Modification* fields.
5. Press Enter. The system displays a warning screen. You can cancel the deletion by pressing F12 if necessary.

Renaming function keys

Use this utility to reassign the *From* system's function key definitions to another system (for example, from an older release to a newer release).

Complete the steps below to rename function keys.

1. From the main menu select *AM Utilities*.
2. Select *Function Keys*.
3. Select *Rename*. The system displays the Rename Function Keys screen
4. Use the information below to complete the fields on this screen.

   From.

   Type the appropriate system designator, release number, and modification number.

   To

   Type the target system's system designator, release, and modification values.
5. Press Enter.

Renaming default function keys

You can change a function key's default assignment to that of another function key.

Complete the steps below to rename default the function keys.

1. From the main menu select *AM Utilities*.
2. Select *Function Keys*.
3. Select *Rename Default Function Keys*. The system displays the Rename Default Function Key screen.
4. Use the information below to complete the fields on this screen.

   System
   Release
   Modification

   Type the system designator and release, and modification values for the system whose default function key you are renaming.

   From Function

   Type the original function key.

   To Function

   Type the new function key.
5. Press Enter.

Copying function key definitions

You can copy function key definitions from one system to another system. Function keys are associated with the system designator and release/modification values of a system.

Complete the steps below to copy function key definitions.

1. From the main menu select *AM Utilities*.
2. Select *Function Keys*.
3. Select *Copy*. The system displays the Copy Function Keys screen.
4. Use the information below to complete the fields on this screen.

   From

   Type the system designator and release/modification values.

   To

   Type the target system designator and release/modification values.
5. Press Enter.

Creating function key reports

You can create a report of function key assignments for a single system based on the system designator and release/modification values. You can also specify a file name and a format name to limit the report to a particular file and format. Refer to the *Infinium AM Developer's Guide.*

Complete the steps below to create function key reports.

1. From the main menu select *AM Utilities*.
2. Select *Function Keys*.
3. Select *Function Key Report*. The system displays the Function Key Report screen.
4. Use the information below to complete the fields on this screen.

   System
   Release
   Modification

   Type the appropriate system designator and release, and modification values.

   File

   Type ***ALL** to include all function key files. Otherwise, specify a file, such as ***MENU** or ***PROMPT** to generate a function key report based on the file.

   Format

   Type ***ALL** to include all screen formats in the report or type a specific format name.

5. Press Enter.

Chapter 23 Working with News Utilities

23

This chapter includes task you complete involving Infinium AM News utilities.

Creating a news report

You can create a news report based on an alphabetic range of systems and user profiles. Both of these are optional and can be left blank. The report displays each block of user news for the range that you define.

Complete the steps below to create a news report.

1. From the main menu select *AM Utilities*.
2. Select *News*.
3. Select *News Report*. The system displays the News Report screen.
4. Use the information below to complete the fields on this screen.

   From System
   To System

   Type the system designators to define the alphabetic range of systems whose news to include in the report.

   From User
   To User

   Type the alphabetic range of users whose news to include in the report.
5. Press Enter.

Chapter 24 Working with Printer Control Utilities

24

This chapter includes tasks you complete involving printer control utilities.

The chapter consists of the following topics:

Topic	Page
Copying printer controls	24-2
Deleting printer controls	24-3
Running a printer control report	24-4

Copying printer controls

You can copy printer controls from one system/version to another system/version.

Complete the steps below to copy printer controls.

1. From the main menu select *AM Utilities*.
2. Select *Printer Control*.
3. Select *Copy*. The system displays the Copy Printer Controls screen.
4. Use the information below to complete the fields on this screen.

   From System
   From Version

   Type the system designator and the version number of the system and version from which you are copying the printer controls.

   To System
   To Version

   Type the system designator and version number of the target system/version.
5. Press Enter.

Deleting printer controls

Printer controls are associated with a system designator and version number. Therefore, you must enter these values into the input fields when deleting printer controls.

Complete the steps below to delete printer controls.

1 From the main menu select AM Utilities.

2 Select *Printer Control*.

3 Select *Delete*. The system displays the Delete Printer Controls screen.

4 Use the information below to complete the fields on this screen.

System

Type the system designator of the system whose printer controls you are deleting.

Version

Type the Version number of the version you want to delete.

The printer controls that are deleted are based on both the system designator and version number.

5 Press Enter.

Running a printer control report

The printer control report is based on the system designator, user profile, and print file. If these fields are left blank, the report includes all systems, user profiles, and print files.

Complete the steps below to run a printer control report.

1. From the main menu select *AM Util*ities.
2. Select *Printer Control*.
3. Select *Printer Control File Report*. The system displays the Printer Control File Report screen.
4. Use the information below to complete the fields on this screen.

   System

   Type the system designator of the system whose printer you are including in the report. Leave blank to include all systems.

   User

   Type the name of the user profile whose printer controls to include in the report. Leave blank to include all profiles.

   Print

   Type the name of the printer file to include in the report. Leave blank to include all printer files.

5. Press Enter.

Chapter 25 Working with Prompt Utilities

25

This chapter includes the tasks you can complete involving prompt utilities.

The chapter consists of the following topics:

Topic	Page
Creating a field prompt report	25-2
Creating a prompt where-used report	25-3

Creating a field prompt report

A field prompt report provides you with information about prompt definitions. You specify a range of prompts and the report is based on that range. Each prompt definition's search file, member, window row/column coordinates, field names and more are included in the report.

Complete the steps below to create a field prompt report.

1. From the main menu select *AM Utilities*.
2. Select *Prompt*.
3. Select *Field Prompt Report*. The system displays the Field Prompt Report screen.
4. Use the information below to complete the fields on this screen.

   From Prompt

   Type the starting prompt definition name.

   To Prompt

   Type the name of the ending definition. To create a report for only one prompt definition, type its name again.
5. Press Enter.

Creating a prompt where-used report

This report provides information on where field prompts are used in Infinium AM. The report includes:

- Display file name
- Record format name
- DDS field name
- Field prompt text

The report provides the prompt definition names for fields that use them and names of display programs for all other field prompts.

Complete the steps below to create a prompt where-used report.

1. From the main menu select AM Utilities.
2. Select *Prompt*.
3. Select *Where-Used Report*. The system displays the Where-Used Report screen.
4. Use the information below to complete the fields on this screen.

   System
   Release
   Modification

   Type the system designator, release, and modification values to create the where-used report.

   From Prompt name

   Type the starting prompt definition name.

   To Prompt name

   Type the name of the ending prompt definition. To create a report for only one prompt definition, type its name again.

5. Press Enter.

Notes

Chapter 26 Working with the Event Manager Utility

26

This chapter includes the task you complete involving event manager utility.

Using the event manager

This utility is like the F14 Work with jobs except that the jobs, events, you can work with are limited to those handled by the event manager. Also, the Change option on this screen is different from the Change option on the Work with Submitted Jobs screen. When you change a job whose status is Queued, you can change the values in the associated entry panel.

Complete the steps below to use the event manager.

1. From the main menu select *AM Utilities*.
2. Select *Event Manager*.
3. Select *Work with Events*. The system displays the Event Activity Maintenance screen.

   The screen includes information about the user, job name, system and version, job number, date and time stamp and status, completed or queued.
4. Work with the jobs displayed here as you would at the Work with Submitted Jobs screen. Refer to your IBM documentation for more information about this screen.

Chapter 27 Working with Job Scheduler Maintenance

27

This chapter includes tasks you complete for job scheduler maintenance.

The chapter consists of the following topics:

Topic	Page
Setting up the job scheduler	27-2
Working with job timer settings	27-4
Starting and ending the Job Scheduler	27-13

Setting up the job scheduler

Complete the steps below to define System i system controls.

1 From the main menu select *AM Utilities*.

2 Select *Job Scheduler Maintenance*.

3 Select *Job Scheduler Maintenance*. The system displays a screen similar to Figure 27-1.

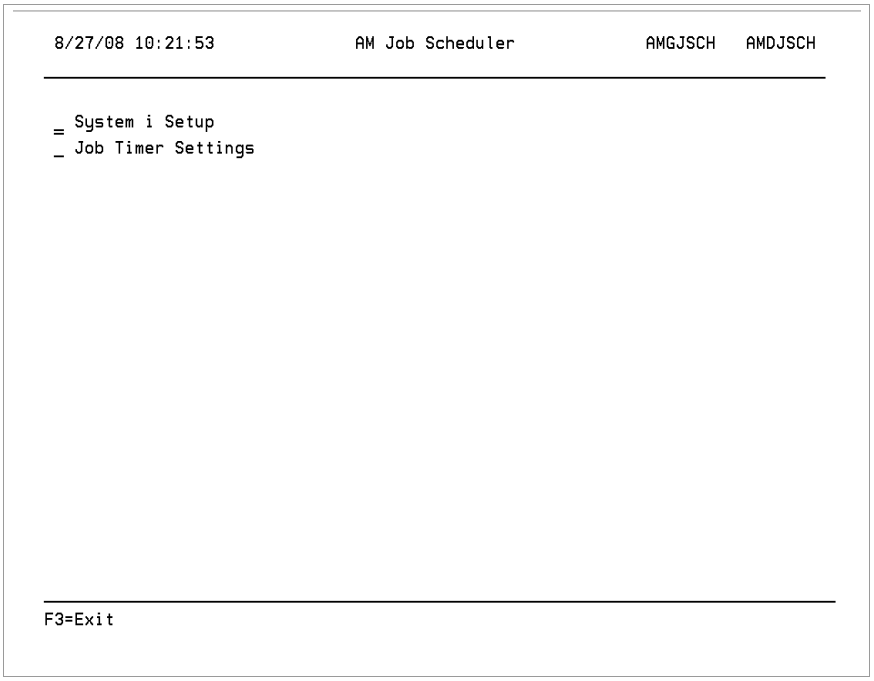

Figure 27-1: AM Job Scheduler screen

4 Select *System i Setup* and press Enter. The system displays a screen similar to Figure 27-2.

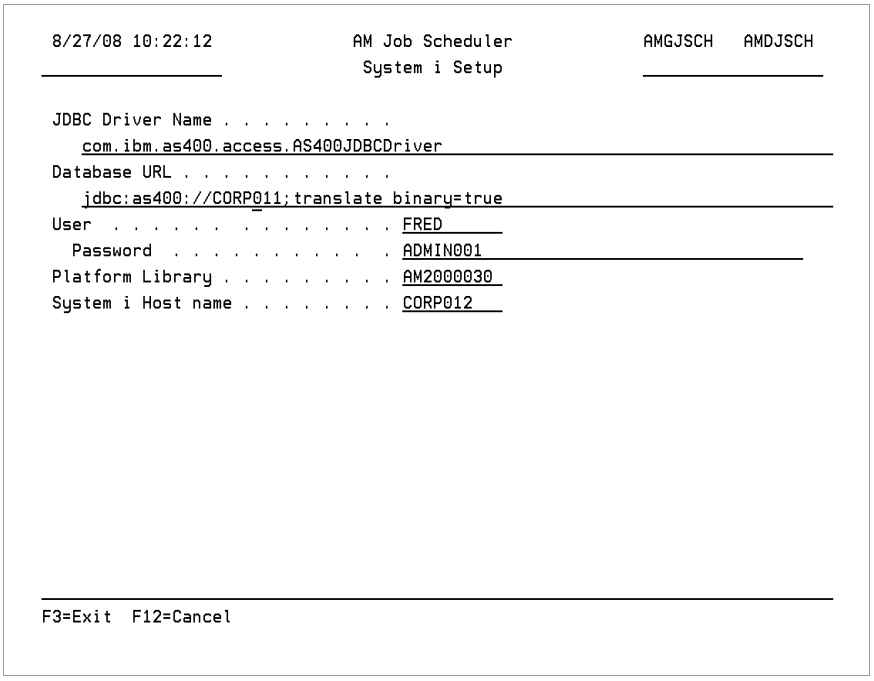

Figure 27-2: System i Setup screen

5 Use the information below to complete the fields on this screen.

JDBC Driver Name

Specify the JDBC driver name to use when connecting to the System i.

Database URL

Specify the name of the database to use when connecting to the System i.

User
Password

Specify the user ID and password to use when connecting to the System i.

Platform Library

Specify the Infinium platform library that runs the external program API call, AMGLNG.

System i Host name

Specify the System i host name to use as the parameter to run commands using the System i.

6 Press Enter to save your changes.

Working with job timer settings

A job timer activates batch jobs at specific intervals from a start date and time, unless the job is already running.

Setting up batch jobs

To create or update the batch jobs settings, complete the steps below.

1 From the main menu select *AM Utilities*.

2 Select *Job Scheduler Maintenance*.

3 Select *Job Scheduler Maintenance*. The system displays a screen similar to Figure 27-3.

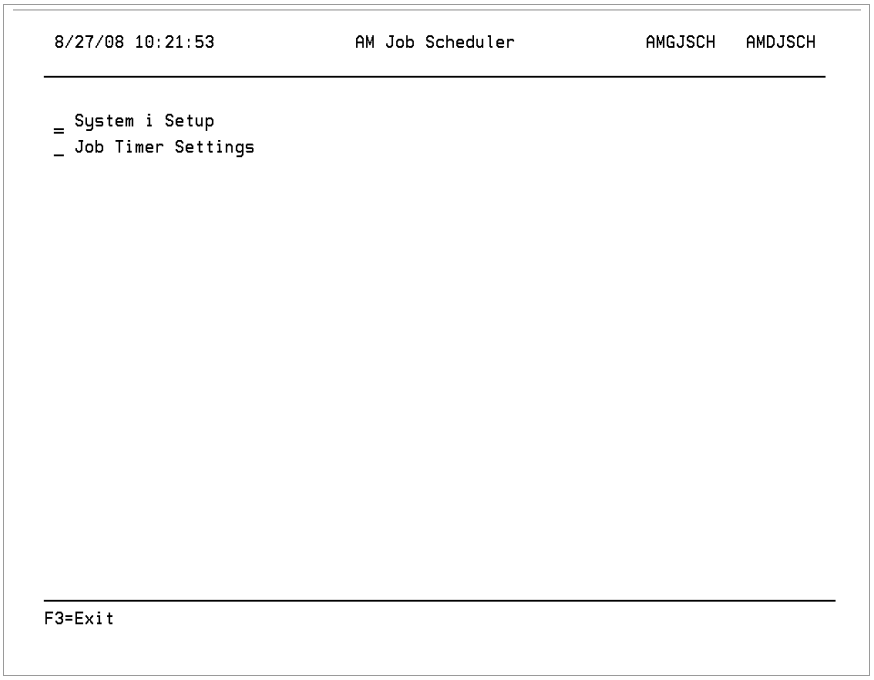

Figure 27-3: AM Job Scheduler screen

4 Select *Job Timer Settings*. The system displays the screen shown in Figure 27-4.

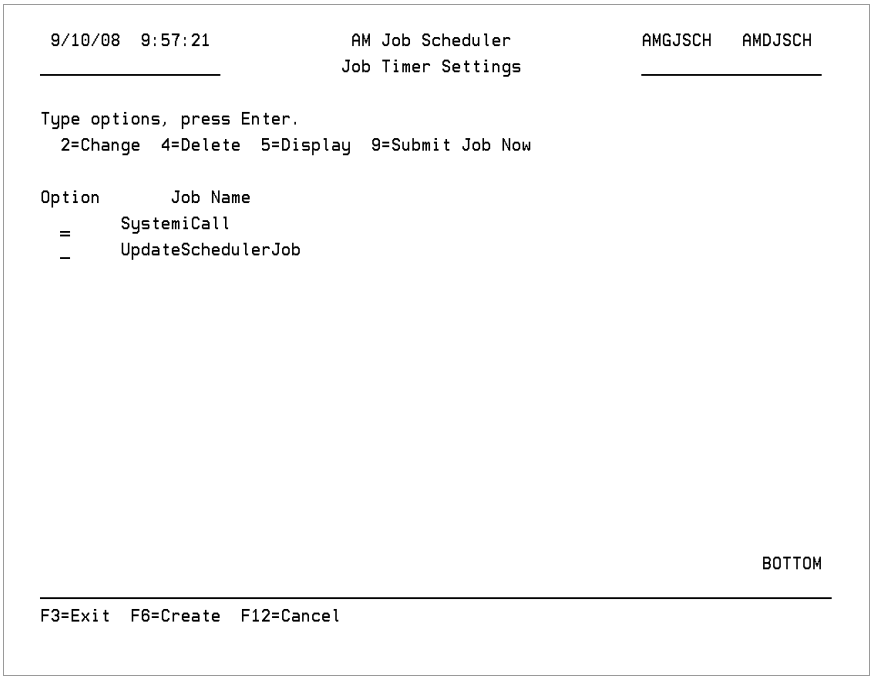

Figure 27-4: Job Timer Settings screen

Use this screen to:

- Create a new job timer configuration (press F6)
- Change an existing job timer configuration (specify **2** in the *Opt* field)
- Delete a job timer configuration (specify **4** in the *Opt* field)
- Display a job timer configuration (specify **5** in the *Opt* field)
- Submit the job to run (specify 9 in the *Opt* field)

For this example, we are creating a job timer configuration.

5 Press F6. The system displays a screen similar to Figure 27-5.

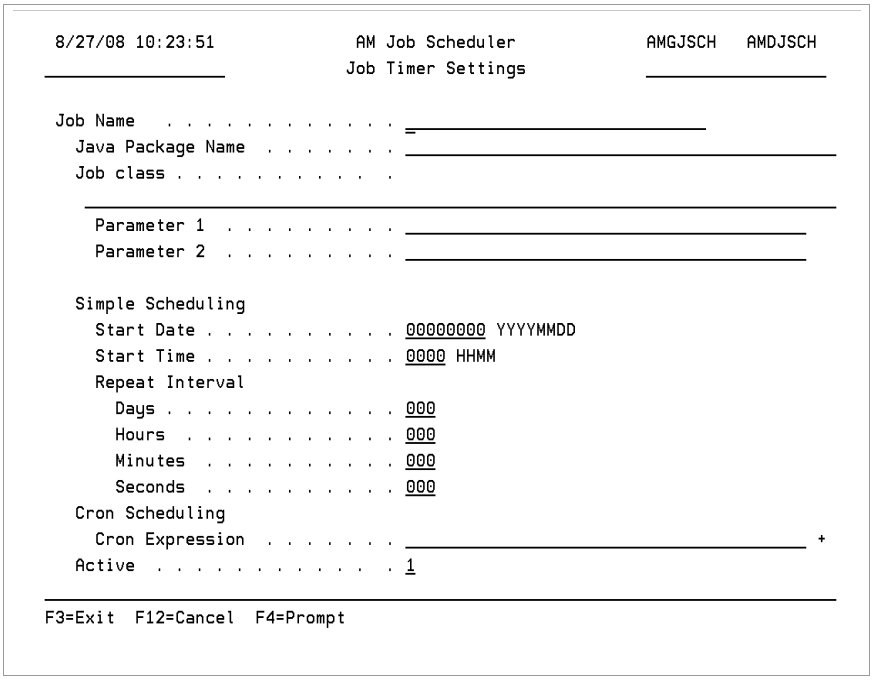

Figure 27-5: Job Timer Settings screen

6 Use the information below to complete the applicable fields on this screen.

Job Name

Type a name for the batch job.

Java Package Name

Type the class path for the class to run. You should include the period at the end of the package name for clarity.

Job Class

Type the name of the job class.

The system concatenates the java package name and the job class to create a fully-qualified Java object name. The job scheduler then runs the Java code on the specified schedule.

Parameter 1

Specify a parameter for the batch job, if needed. Otherwise, leave blank.

Parameter 2

Specify an additional parameter for the batch job, if needed. Otherwise, leave blank.

Scheduling batch jobs

You can schedule the job timer to run by using one of the following options:

- Simple scheduling

  Use to set when to process a job by specifying a single start date and time and a repeat interval

- Cron scheduling

  Use to set when to process a job by specifying the exact seconds, minutes, hours, days, months, and years at which the job will run

The *Active* field determines whether this job is eligible for processing by the job scheduler. If a job is inactive, the scheduling information is not required, which allows you set up jobs before running them.

Simple scheduling

Start Date

Type the starting date for the batch job.

Start Time

Type the starting time for the batch job.

Repeat Interval

Specify the time intervals to run the program. The system activates the job at the day start and time and at each multiple of the repeat interval thereafter, unless the job is running at that time.

Cron scheduling

Cron Expression

Specify a cron expression that describes when to schedule the job. Press F4 to display the cron expression sections as shown in Figure 27-6.

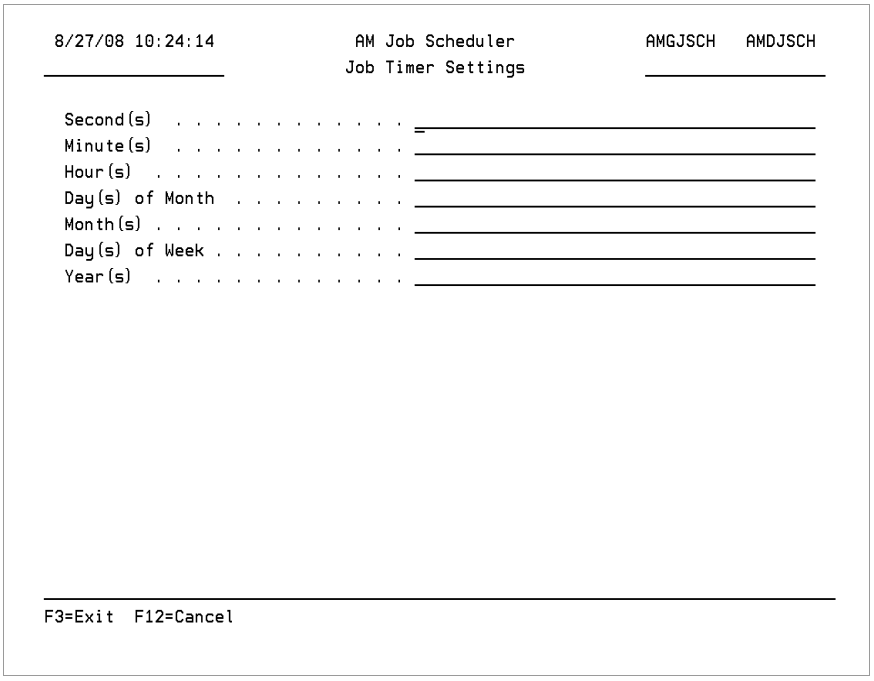

Figure 27-6: Job Timer Settings cron settings screen

7 Use the information below to complete the fields on this screen. You must have at least one value in each field.

You can use special characters to identify ranges of values. For example, if you type an asterisk (*) character in the *Minute(s)* field it indicates that it runs every minute.

Refer to the OpenSymphony Web site for more information on using cron expressions for job scheduling.

Seconds(s)

Specify what seconds of the minute to run the command. This can be a single value or a comma-separated list. The values must be between **0** and **59**.

Minutes(s)

Specify what minutes of the hour to run the command. This can be a single value or a comma-separated list. The values must be between **0** and **59**.

Hour(s)

Specify what hours to run the command using the 24 hour clock. This can be a single value or a comma-separated list. The values must be between **0** and **23** (**0** is midnight). To specify all hours, type an asterisk (*).

Day(s) of the Month

Specify the days of month to run the command. For example, to run a command on the 19th of each month, the value would be **19**.

- To specify all days of the month, type an asterisk (*****).
- To specify specific days of the week, type a question mark (**?**).

Month(s)

Specify the months to run the command; as a comma-separated list. The values can be between **0 and 12** or the name of the month such as **July**. To specify all months, type an asterisk (*****).

Day(s) of the Week

Specify the day of week to run the command; as a comma separated list, the values can be **0** through **7** or an abbreviation of the name of the day such as **sun**.

- To specify all days of the week, type an asterisk (*****).
- To specify specific days of the month, type a question mark (**?**).

Year(s)

Specify the years in which to run the command. This can be a single value, a comma separated list, or a dash-separated range of values such as **2008-2010**.

8 Press Exit to save your entries and return to the Job Timer Settings screen.

Active

The default value is **1**, which specifies that the job timer is active. To inactivate the job timer, type **0**.

9 Press Enter. The system saves the batch job.

The system activates the job when you restart the job scheduler.

The job timer activates the batch jobs at the specified intervals from the start date and time, unless the job is currently running.

Batch job examples

Below are examples that illustrate how to set up batch jobs for simple and cron scheduling.

Simple scheduling example

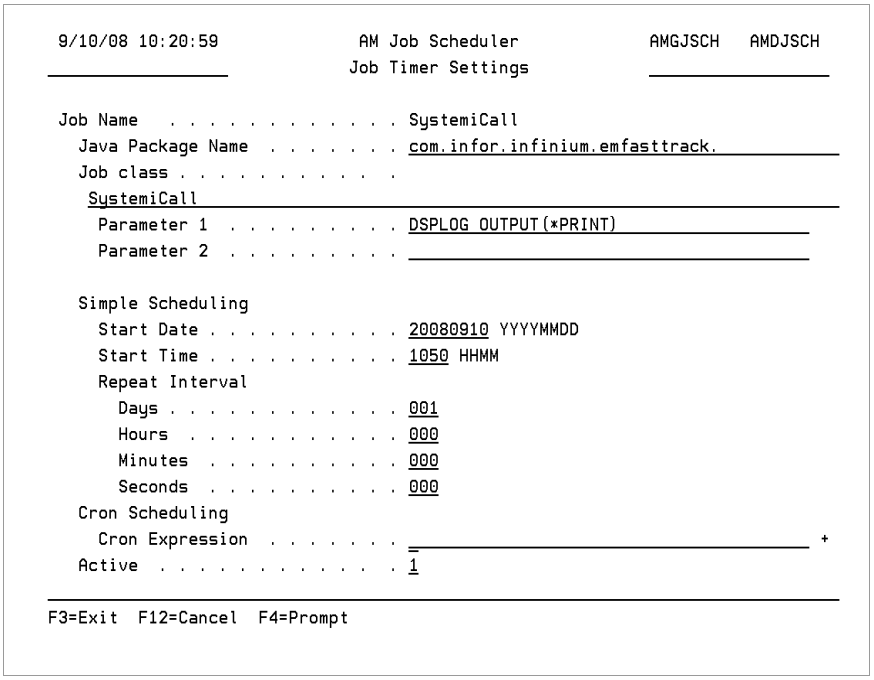

Figure 27-7: Job Timer Settings screen - simple scheduling example

Use simple scheduling to set up a batch job to run the **DSPLOG OUTPUT(*PRINT)** command.

The system runs the command every day at 10:50 am starting on September 10, 2008.

Cron scheduling example

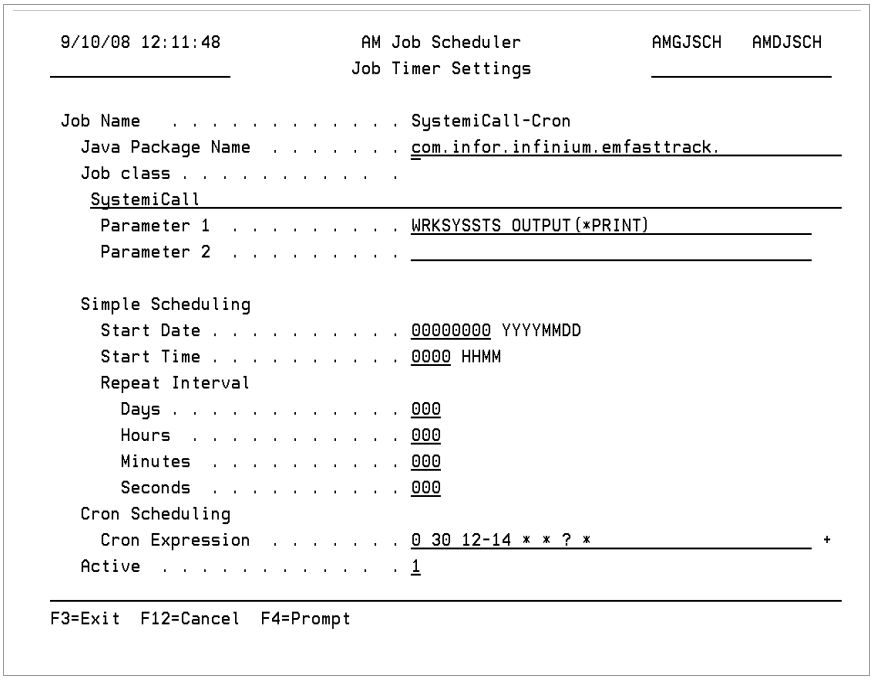

Figure 27-8: Job Timer Settings screen - cron scheduling example

Use cron scheduling to set up a batch job to run the **WRKSYSTS OUTPUT(*PRINT)** command.

The system runs the command:

- On the 30th minute of the hour
- Between 12:00 pm and 2:00 pm
- Every day
- Every month
- Disregards the day of the week because it runs every day of the month
- Every year

Prompt on the *Cron Expression* field to display the field definitions for the cron expression. The system displays a screen similar to Figure 27-9.

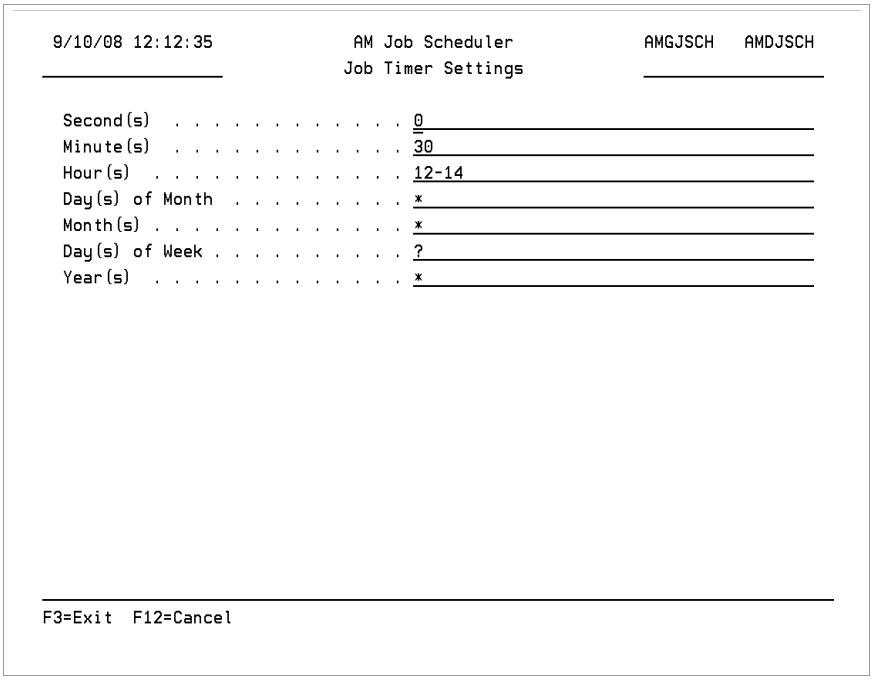

Figure 27-9: Job Timer Settings screen - cron scheduling example

Type the cron variables and press Enter to save your changes. The system fills the *Cron Expression* field with the resulting definition.

Starting and ending the Job Scheduler

Use the menu options below to start or end the Job Scheduler.

- Job Scheduler Startup
- Job Scheduler End

Starting the Job Scheduler

Complete the steps below to start the job scheduler.

1. From the main menu select *AM Utilities*.
2. Select *Job Scheduler Maintenance*.
3. Select *Job Scheduler Startup.* The system starts the UpdateSchedulerJob batch job.

Ending the Job Scheduler

Complete the steps below to end the job scheduler.

1. From the main menu select *AM Utilities*.
2. Select *Job Scheduler Maintenance*.
3. Select *Job Scheduler End*. The system waits for any current batch jobs to complete and then ends the job scheduler batch job.

Notes

Chapter 28 Working with Installation Functions

28

This chapter describes how to use the installation functions to install applications, systems, and APCs. In addition, this chapter describes how to set up and maintain installations.

Infinium AM has other installation functions involving copying and deleting data. These functions are not documented in this guide. You use these functions only when assisted by Customer Support.

The chapter consists of the following topics:

Topic	Page
Terminology and concepts	28-3
Installing applications	28-6
Installing a system	28-8
Building the installation library	28-10
Extracting a system	28-11
Installing APCs to additional libraries	28-13
Building installation commands	28-15
Checking the library	28-17
Adding file members	28-18
Removing file members	28-19
Clearing physical files	28-20
Adjusting the library name	28-21
Retrofitting the build library	28-22
Updating platform files	28-23

Working with platform files 28-24
Copying field level security definitions 28-25
Copying customized job controls 28-26
Copying user-defined job controls 28-27
Additional installation options 28-28

Terminology and concepts

You should understand these terms and concepts before completing the tasks.

Application

The system information and product objects/libraries

Build library

Library holding system information to be installed into the platform (for example, AMENUAM030)

Install library

Library holding product-specific installation objects (for example, GLINS123)

Platform

The library holding system information (for example, AM2000)

Product

Objects that reside in product libraries that allow access to product data (for example, the product libraries, data files, and programs)

System

Any system module information that exists in the platform (for example, help text and job controls)

Infinium supplied objects

If you have customized any Infinium supplied objects in any Infinium supplied library other than the standard custom libraries, the changes are not saved when you install the new release. If you have customized Infinium supplied objects, review those changes under the new release to ensure that the database integrity remains intact and that you receive the latest enhancements.

Cross reference to Application Program Changes (APC)

All APCs are automatically applied to the master release tapes of our products; therefore, unless you do not load the release that you have received immediately, you do not need this service.

Space saving issues

Infinium ships its products with source code for the objects, with the exception of proprietary objects. If you have no need to customize Infinium objects, you can save the source files and remove them from the machine.

You can also save space by removing program observability. However, we recommend that you proceed cautiously if you perform this task because removing observable information makes certain system/programming failures hard to analyze. Infinium recommends that you do not remove observable information.

Memory/DASD requirements

As with most interactive intensive applications, the more memory and Direct Storage and Access Device (DASD) that you have available, the better the performance.

Review the DASD requirements to determine the base size of the Infinium product libraries once they have been loaded onto your machine. These sizes indicate the DASD requirements after the initial load; they do not indicate the DASD requirements once you load or start loading your data information. We recommend that your DASD usage stays around 80 percent and does not go over 90 percent.

Caution: Do not perform any installations or upgrades if your machine is over 90 percent usage.

Prior to performing any installation or upgrade, Infinium strongly recommends that you back up all libraries affected by the installation or upgrade process. This ensures that you have a clean and current backup of your systems if anything goes wrong during the installation/upgrade process that cannot be easily and quickly corrected.

Installing applications

Overview

You can install Infinium applications, whether as a first time installation or an upgrade. For example, if you have received a first time purchase or a new release of Infinium GL, you can install it using the *Install Functions* within Infinium AM.

You also follow this task to install APCs.

For some applications, you might have to consider implementation issues either before or after you have installed the system. Refer to the appropriate installation documentation for the application.

These are general instructions. To install an application, make sure you have followed the steps detailed in the application's installation instructions, such as setting up a system administrator profile.

With most Infinium application installations and upgrades, you can pre-restore the libraries before starting. If you do decide to do this, make sure that you have read the installation instructions and that you restore the libraries with the correct naming conventions.

Complete the steps below to install an Infinium application.

1. Ensure the tape containing the application build libraries has been loaded on the tape drive.
2. From the main menu select *AM Utilities*.
3. Select *Install Functions*.
4. Select *Application Installation*.
5. Use the information below to complete the fields on this screen.

   Library

   Type the name of the installation library as noted in your application's installation instructions.

Device

Type the name of the tape drive from which the application is being installed.

Environment

Specify whether the installation is to run interactively or in batch mode. You usually select interactively.

6 Press Enter.

7 The system displays a screen specifying the current command or linked command that is executing. When the INSTALL command executes, system modules are installed.

8 The system displays a screen while the INSTALL command is running interactively. The current module being installed is identified on the screen. This screen is displayed only if the installation is interactive.

9 If CALL commands follow the INSTALL command, those commands display on the next screen.

Installing a system

This task copies the following system information from the build library into the platform:

- System and versions
- User and authority
- News and logo
- Code values
- Function keys
- Job controls
- Menu controls
- Help text
- Submission screens
- Printer controls
- System overrides
- Client information (client/server model)
- Entry panels
- Prompt panels

Prior to actually copying the system information into the platform, the build library is checked to ensure that it was built over the same release as that of the platform. If the build library was not built over the same release, the *Retrofit Build Library* function will be run automatically to bring the build library up to the current release.

Complete the steps below to install a system.

1. From the main menu select *AM Utilities*.
2. Select *Install Functions*.
3. Select *General Install Functions*.
4. Select *Install system information*.
5. Use the information below to complete the fields on this screen.

System
Release
Modification

Type the system, release, and modification of the system you are installing.

From Version
From Library

Type the version number of the system you are installing and the library in which it resides.

To Version
To Library

Type the target version number and library name. You can make the target version number any number in the range 0-999. If you are installing the system for the first time, type **000**.

6 Press Enter.

Building the installation library

You must create an installation library, or build library, in order to build an installation driver.

The build library holds the files that are required to ship system information. After you create the build library, you EXTRACT system information from the platform into the build library. Once the information is in the build library, you run the INSTALL command to copy it back into the platform.

The library type parameter should always be ***BLD**. The value ***LNG** is for Infinium use only.

Once the BLD_LIB command has completed, you are ready to EXTRACT your system.

Caution: If you are using an existing build library, review the topics "Removing File Members" and "Clearing Physical Files" before using the EXTRACT command.

Complete the steps below to build the installation library.

1. From the main menu select *AM Utilities*.
2. Select *Install Functions*.
3. Select *System Information Setup*.
4. Select *Create library*.
5. Complete the screen by typing the source and target library names. Use the ***SAVF** rather than the ***PLATFORM** for better performance.
6. Press Enter.

Extracting a system

This task copies the following system information from the platform to the build library:

- System and versions
- User and authority
- News and logo
- Code values
- Function keys
- Job controls
- Menu controls
- Help text
- Submission screens
- Printer controls
- System overrides
- Client information
- Entry panels
- Prompt panels

A build library must exist prior to executing this task. Refer to the “Building the Installation Library” task in this chapter.

Prior to actually copying the system information into the platform, the build library is checked to ensure that it was built over the same release as that of the platform. If the build library was not built over the same release, the *Retrofit Build Library* function will be run automatically to bring the build library up to the current release.

Complete the steps below to extract a system.

1. From the main menu select *AM Utilities*.
2. Select *Install Functions*.
3. Select *System Information Setup*.
4. Select *Extract system information*.

5 Use the information below to complete the fields on this screen.

System
Release
Modification

Type the system, release, and modification of the system you are extracting.

From Version
From Library

Type the version number of the system you are extracting and the library in which it resides.

To Version
To Library

Type the target version number and library name. You can make the target version number any number in the range 0-999.

6 Press Enter.

Installing APCs to additional libraries

APCs are shipped to install enhancements and/or correct problems to an existing product. Completing this task actually copies code changes from one library into another. Installing APCs is usually automatically performed by the *Application Installation* function. You select the *Install APC* function only if you need to apply the APC to additional libraries.

The following explains a generic APC installation. Refer to the installation instructions that accompanied your specific APC.

Complete the steps below to install application program changes.

1. From the main menu select *AM Utilities*.
2. Select *Install Functions*.
3. Select *General Install Functions*.
4. Select *Install APC*. You may have to press Page Down to see this option. The system displays the Application Code Update screen.
5. Use the information below to complete the fields on this screen.

APC Library

Type the APC library name that displays on the tape. This name can be any value but is normally in the following format.

xxAPCxxxx

For example, **GLAPC140A** represents Infinium GL APC-A for Release 14.0.

Library for code updated

Type the library to upgrade. For example you place an Infinium GL APC in library GL2000.

Remove objects if they exist

Specify ***YES** unless you have custom code in the program library that you are upgrading and you do not want to lose those changes. If you do have custom code in the program library, type ***NO**. Remember, the installation is considered successful only if all objects and source are copied into the library that you specify.

6 Press Enter to install the APC.

Caution: Custom code should not be placed in the program library, such as HR2000, but should be placed in a custom library.

Building installation commands

Complete this task only if instructed to do so by customer support.

Complete this task to create a file that contains the installation script. The script is made up of the steps to install a system and product. You can use the script to install applications and/or APCs.

Complete the steps below to build installation commands.

1. From the main menu select *AM Utilities*.
2. Select *Install Functions*.
3. Select *Install Library Setup*. You may have to press Page Down to see this option.
4. Select *Work with install batch commands*. The system displays the Build Command Strings screen.
5. Type the name of the build library in which the linked commands reside and press Enter. A list of installation instructions displays which you can add, change, or delete.
   - To add, press **6**, and then continue with the next step.
   - To change, select the instruction to change with **2**, press Enter and continue with the next step.
   - To delete, select each instruction with **4** and press Enter. You are prompted with a delete confirmation list.

     Press Enter to actually delete the instructions; press F12 to cancel. Press Help if you need more information.
6. Complete this information on this screen.

   Be sure to indicate if the commands are to execute always, or only when they have not been executed. When the command has executed, it is marked **D** for done. If an installation failed after the command was executed and you want to reset the completed command and run the installation again, select the command with **8** and press Enter. The **D** changes to **X**.
7. Press Enter.

Changes are only updated when you exit and save back to the menu. You can press Help any time for more detailed help information.

Checking the library

Complete this task if you want to see how many records were copied for each file during the extraction. This task enables you to see which files are populated and helps you build an installation.

Complete the steps below to check a library.

1. From the main menu select *AM Utilities*.
2. Select *Install Functions*.
3. Select *System Information Setup*. You may have to press Page Down to see this option.
4. Select *Check library*.
5. Type the library you are checking.
6. Press Enter.

A report is produced showing the files and members with the number of records in each member. You can run this command over any library.

Adding file members

Complete this task only if instructed to do so by Infinium Support personnel.

This command is automatically executed by the INSTALL and EXTRACT commands. You can add members to help, security, and submission screen files for a system in a specific library. This task is completed automatically during the extraction, but you can perform it manually, if necessary. This task only works on files which are supposed to be multiple-membered files.

Complete the steps below to add file members.

1. From the main menu select *AM Utilities*.
2. Select *Install Functions*.
3. Select *Other Install Functions*. You may have to press Page Down to see this option.
4. Select *Add file members*. You may have to press Page Down to see this option.
5. Complete the screen by typing the system/release/modification and library of the members you are adding.
6. Press F10 to complete the additional parameters.
7. Press Enter.

Removing file members

WARNING! Execute this command only if Infinium Support instructs you.

You can remove the members from help, security, and submit screen files in a build library. This task is useful because if you want to extract a system, perhaps a new release, you can remove file members from an existing build library. This step lets you avoid creating a new build library which can take over an hour. You can rename an existing build library, and then extract the system.

This task only works on files which are supposed to be multiple-membered files.

Complete the steps below to remove file members.

1. From the main menu select *AM Utilities*.
2. Select *Install Functions*.
3. Select *Other Install Functions*. You may have to press Page Down to see this option.
4. Select *Remove file members*. You may have to press Page Down to see this option.
5. Type the build library and system that you want to clear. Leave the system as ***ALL** to remove all members.
6. Press Enter.

Caution: This command can execute over any library; if you use it over the platform, you might have to restore from back up.

Clearing physical files

You can clear all files in a build library. Complete this task to reuse a build library, that is, extract or install another system. You should perform this task only on a build library.

Complete the steps below to clear physical files.

1. From the main menu select *AM Utilities*.
2. Select *Install Functions*.
3. Select *Other Install Functions*. You may have to press Page Down to see this option.
4. Select *Clear physical files*. You may have to press Page Down to see this option.
5. Complete the screen by typing the files to clear and the library they are in.
6. Press Enter.

Caution: This task can be performed over any library and clears all file members in that library. If you use it over the platform, you have to restore from back up.

Adjusting the library name

You can change the value of the library name found in the platform environment file, the system definition file, and the code values files to another value specified on the command. This task is completed during an installation/extraction of a system so you do not have to change the platform names manually.

Complete the steps below to adjust the library name.

1. From the main menu select *AM Utilities*.
2. Select *Install Functions*.
3. Select *Other Install Functions*. You may have to press Page Down to see this option.
4. Select *Adjust library name*. You may have to press Page Down to see this option.
5. Complete this screen as follows:

   It is recommended that if you choose to use the ADJUST command, that you type **1** for Change S0, Change SD and Change CV.

   - In *Change S0 record*, type **1** to change; otherwise, type **0**.
   - In *Change SD record*, type **1** if you want to change the system definition where the library is held; otherwise, type **0**.
   - In *Change CV records*, type **1** if you want to change the code values where the library names are held; otherwise, type **0**.
6. Type the platform name in the *Library to change values in* field. Type the Old library name (source) and the New library name (target).

   If you leave the new library name at ***LIB**, this field defaults to the value in the *Library to change values in* field.
7. Press Enter.

Retrofitting the build library

This task is automatically executed by the INSTALL/EXTRACT commands. Complete this task only if the build library being used is not at the same release as that of the platform from which you are installing or extracting.

Complete this task to convert a build library to the current release of the platform. If a build library is created from a platform that is at a prior release, to the platform that it is being used to install into, file level checks and data integrity problems occur. Completing this task recreates the build library and converts the data to the current level prior to running the installation.

This task uses the release and APC data areas that are shipped and/or installed into the platform to identify whether to convert a build library and what conversion programs to execute to convert the data.

Complete the steps below to retrofit the build library.

1. From the main menu select *AM Utilities*.
2. Select *Install Functions*.
3. Select *Other Install Functions*. You may have to press Page Down to see this option.
4. Select *Retrofit build library*. You may have to press Page Down to see this option.
5. Type the library to retrofit and the platform library.
6. Press Enter.

Updating platform files

This task is for Infinium use only.

This task involves a batch function that lists all files in the platform and puts them in a physical file for the installation function. You then proceed to *Work with platform files* function.

Complete the steps below to update platform files.

1. From the main menu select *AM Utilities*.
2. Select *Install Functions*.
3. Select *Install Maintenance*. You may have to Page Down to see this option.
4. Select *Update platform files*.
5. Type the platform library name with which you are working.
6. Press Enter.
7. When the submission is complete, proceed to the Work with platform files option.

Working with platform files

This task is for Infinium use only.

You can change or delete platform files. Complete the steps below to work with platform files.

1. From the main menu select *AM Utilities*.
2. Select *Install Functions*.
3. Select *Install Maintenance*. You may have to press Page Down to see this option.
4. Select *Work with platform files*.
5. A list of new files and their descriptions displays. Type **2** if you want to change a file or **4** to delete a file.
6. If you want to change a file, the system displays a second screen that steps you through the changes.
7. Complete the screen and press Enter.

Copying field level security definitions

This utility enables users who use Field Level Security (FLS) to copy field level security definitions from one release and modification for a given system to another release and modification of the same system. You can optionally change the version of the Field Level Security definitions during the copy.

For example, you have FLS definitions already in place for your production version (000) of General Ledger Release 12.2. You just installed Infinium General Ledger Release 12.3 into version 123, and you want to retain the FLS definitions you have in place for version 000. You can use the *Copy field level security* option to promote your FLS definitions to the new version.

The *Copy field level security* option can be run at any time.

Complete the steps below to copy field level security definitions.

1. From the main menu select *AM Utilities*.
2. Select *Install Functions*.
3. Select *Copy Functions*.
4. Select *Copy field level security*. You may have to press Page Down to see this option.
5. Type the *System*, such as GL, *From Release*, *From Modification*, and *From Version* from which you want to copy field level security definitions.
6. Type the *To Release*, *To Modification* and *To Version* of the system to which to copy field level security definitions. To copy FLS definitions to a different version, then type the new version in this field. To copy FLS definitions to the same version, while upgrading to the new release and modification level, type the same version number you entered in *From Version*.
7. Press Enter to execute the command. A report is generated showing display files for which Field Level Security was updated.

   If you copy Field Level Security definitions from any version of a system to Version 000 of the system, the field level security is defined globally for all versions of that system with the same release and modification level.

Copying customized job controls

This utility allows you to copy modified Infinium Job Controls from one release and modification of a system to another release and modification of the same system. If you have customized your Infinium Job Controls and want to promote those changes to a new release of that system, this command eliminates the need to re-enter those changes for the new release and modification.

The *Copy job control changes* option can be run at any time.

Complete the steps below to copy customized job controls.

1. From the main menu select *AM Utilities*.
2. Select *Install Functions*.
3. Select *Copy Functions*.
4. Select *Copy job control changes*. You may have to press Page Down to see this option.
5. Type the *System*, *From Release*, and *From Modification* from which to copy modified Infinium Job Controls.
6. Type the *To Release* and *To Modification* of the system to which to copy Infinium Job Controls.
7. Type the name of your current Infinium AM platform library in *Library*.
8. Press Enter to execute the command. A report is generated showing the modified Infinium Job Controls updated.

Copying user-defined job controls

This utility allows you to copy user-defined job controls from one release and modification of a system to another release and modification of the same system. Only user created job controls are copied. Job controls supplied by Infinium are not copied.

Complete the steps below to copy user-defined job controls.

1. From the main menu select *AM Utilities*.
2. Select *Install Functions*.
3. Select *Copy Functions*.
4. Select *Copy user-defined job controls*. You may have to press Page Down to see this option.
5. Type the *System*, *From Release*, and *From Modification* from which you want to copy modified user-defined job controls.
6. Type the name of your current Infinium AM platform library in *From Library*.
7. Type the *To Release* and *To Modification* of the system to which you want to copy Infinium Job Controls.
8. Type the name of your current Infinium AM platform library in *To Library*.
9. Press Enter to execute the command. A report is generated showing the modified Infinium Job Controls updated.

Additional installation options

Several menu options are not documented in this book. These menu options are associated with creating and maintaining installation libraries. These menu options are documented in the *Infinium AM Developer's Guide*. A brief description of these options is included below.

Install product libraries

Use this option to run the product library portion of an installation. The Application Installation is set up so that all the standard installation steps, such as install system information, have been executed.

Create S2KRELEASE data area

All libraries that are shipped from Infinium have a data area called S2KRELEASE as an object within them. The data area provides certain information so that installation programs can quickly and accurately find any Infinium library that it requires during an installation.

WARNING! Do not attempt to change any values in these data areas, or remove them, without consulting a Customer Support representative.

Check library

Use the *Check Library* option to generate a report that lists the records in a library. You can run this option over any library. The information on the report can help you determine what files have information or records in them.

Print changed objects

Use the *Print Changed Objects* option to generate a report that lists the source files and the members that have been changed for a given release.

Save library into a save file

Use this option to save a library into a save file that resides in the installation library. Use this option only when following detailed steps for creating an installation library.

Check object ownership

Use this option to ensure that all objects, including the library object itself, are owned by S2KOBJOWNR.

Check source members

Use this option to verify that objects have been created for each source member and that nothing has changed since the previous creation.

Check file level IDS

Use this option to verify that the files in the library list have the same file level identifiers as the objects being shipped.

Work with installation defaults

This option provides defaults that display during the creation and execution of the installation. This record must exist in the installation library.

Work with master libraries

The system uses this option to identify the libraries that are being installed and upgraded.

Work with previous releases

The system uses this option to identify the releases that can be installed and upgraded.

Work with file exceptions

The system uses this option to identify the files that require special handling during an upgrade of database libraries.

Work with installation steps

This option identifies the installation steps that are used during the installation process. It is similar to *Work with install batch commands*, but it is at a lower level.