



Infor Infinium Applications Upgrading an Infinium Application

For use with the applicable *Release Installation
Details* publication

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This chapter provides the following summaries:

- This guide's audience, contents, and intended use
- Explanation of how to interpret the generic product and library names for individual applications and releases, such as interpreting *xxrrmmaabb* as GL13010000 for Infinium General Ledger Release 13.1
- Where to find more information and how to access installation instructions through the Web

Audience

This guide is intended for the following audiences:

- People who are not familiar with upgrading an Infinium application and need details for all steps
- People who are familiar with upgrading an Infinium application but need to check standard details for a step

Contents

This guide includes the following information:

- Standard planning for upgrading an Infinium application
 - Pre-installation tasks
 - How to upgrade your production environment
 - How to repeat an interrupted upgrade
-

- Standard post-upgrade installation tasks
- How to upgrade an existing test environment
- How to upgrade to a new test environment
- How to move a test version to production version 000

The guide also provides troubleshooting reference information.

Find related special installation instructions

Special non-standard installation procedures apply in the case of certain platform and other products as noted later in this chapter of the guide.

Refer to the list of suites and applications in the “Key to the naming conventions in this guide” topic for cross-references to instructions for those suites and applications.

Use with Applicable *Release Installation Details* document

Use this document with the applicable *Infinium xx Release Installation Details* document. Infinium xx refers to the application that you are installing. The xx refers to the two-character application identifier, such as GL, PY, or PM.

The details document provides release-specific data such as library names, prerequisites, disk space requirements, and special pre- and post-installation tasks.

Key to the naming conventions in this guide

Product names

The following tables identify the abbreviations for Infinium application names. The abbreviation uses the two-character code application identifier such as GL for Infinium General Ledger.

Caution: The additional information after some tables identifies where to find alternative installation instructions for suites and applications that do not use the procedures described in this guide.

The sequence of applications in the following tables is the sequence normally recommended for installing new applications. For considerations that affect upgrading existing applications, refer to the appropriate *Infinium xx Release Installation Details* publication.

Application	Abbreviation
Infinium Application Manager	Infinium AM
Infinium Application Manager Extended	Infinium AM/X
Infinium Financial Management Suite	Infinium FM
Infinium Accounts Receivable	Infinium AR
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 HCM Suite	Infinium HR
Infinium Flexible Benefits	Infinium FB
Infinium Human Resources	Infinium HR
Infinium Human Resources/Payroll	Infinium HR/PY
Infinium Human Resources International	Infinium HR/UK
Infinium Payroll	Infinium PY
Infinium Training Administration	Infinium TR
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

Application	Abbreviation
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

Note: Because Infinium RW is part of Infinium GL, the Infinium RW installation is part of the Infinium GL installation process.

Note: Infinium CA is also used by the Infinium PR suite.

Library names

This guide uses generic naming conventions to refer to Infinium installation and program libraries. For example:

- *xxrrmmaabb* refers to the installation library, such as GL13010000, where GL is the product code, 13 is the major release level, 01 is the minor release or modification level, 00 is the maintenance release level, and 00 is the emergency release level
- *xx2000* refers to the program library, such as GL2000
- *xxDBFA* refers to the database library, such as GLDBFA
- *xxDBFT* refers to a database library with training data, such as HRDBFT for an Infinium HR training database library

In each case *xx* is the product code, *rr* represents the release level, *mm* represents the modification level, *aa* represents the maintenance release level, and *bb* represents the emergency release level.

For the actual library names that apply to the application release you are installing, refer to the appropriate *Infinium xx Release Installation Details* document.

Where to find more information and answers to questions

For more information about installing Infinium products, refer to the *Infinium AM Guide to Application Manager*.

Web access to installation publications

You can access Infinium installation publications through [Infor365 Online Support](#).

Notes

Chapter 2 Planning an Application Upgrade

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This chapter describes how to plan the upgrade of an Infinium application on your computer, including:

- Planning the sequence of multiple application upgrades
- Terminology, concepts, and an explanation of standard system version examples
- Finding the instructions for your current scenario

Each scenario addressed in these instructions represents a business task. This planning summarizes key points about each of the following and explains where to find the instructions for each:

- Direct upgrade of your production environment (version 000)
- Re-installation after interruption of an upgrade
- Completion of post installation tasks
- Upgrade of an existing test or training version
- Creation of a new test version using existing data
- Transition of a test version to your production environment

Plan the sequence of multiple application upgrades

Each application upgrade has special release-specific considerations, such as which releases can be upgraded to which new releases, the order in which to upgrade the applications in a suite release and which pre-requisites, dependencies, and application interfaces apply.

An application is dependent upon another application if you cannot use the application without also implementing the application on which it depends.

For example, Infinium PX is dependent on your implementing both Infinium PL and Infinium PM.

Caution: For release-specific information that can be critical for planning the upgrade sequence, refer to the applicable *Infinium xx Release Installation Details* document.

If you received multiple releases of a single application in a single shipment, refer to the “Handle multiple releases received in a single shipment” topic in the “Standard post-upgrade tasks” chapter later in this guide.

Terminology, concepts, and standard examples

This topic provides background as follows:

- Reviews terms and concepts related to installations
- Summarizes some standard examples of system versions

System

For the purposes of an Infinium application installation, a system is an individual application running on the Infinium AM platform. For example, you define Infinium GL as a system in Infinium AM.

Infinium AM includes a system definition with data such as active/inactive status, the system’s library list, and the system menus.

You use the Infinium AM *Systems and Versions* function to maintain information about your systems and your versions of those systems.

Version

In the Infinium AM context, a version is a specific configuration of a system running on the Infinium AM platform. You can maintain multiple versions of a system to have a variety of environments.

The production or system version is always Version 000.

You can define additional versions from 001 through 999. For example, you can define version 001 as a training environment.

Program library xx2000

The application program library contains the programs used to run the various application functions. Except the AM2000, IQY2000, and PX2000 libraries, the program library does not contain data.

The program library is typically installed with a name in the format xx2000, where xx is the product identifier. Examples:

- GL2000 is the Infinium General Ledger program library
- HR2000 is the Infinium Human Resources/Payroll program library
- PM2000 is the Infinium Purchase Management program library

Ordinarily, all versions of the application at the same release level use the same program library.

Program library naming

In some cases, the program library may be included in the installation library with a release extension such as GL2000999 for Infinium GL Release 99.9 and HR2000999 for Infinium HR Release 99.9. Example: GL2000130 for Infinium GL Release 13.0.

The installation process that restores the libraries from the media typically removes the additional extensions such as 999 before displaying the list of libraries for your installation confirmation. For example, the library selection list displays the library name GL2000 or HR2000 rather than GL2000999 or HR2000999.

The installation process also allows you to specify any name you want for the program library. For example, during the upgrade installation you can specify installing GL2000 as GL2000999 to clarify that this program library is at the Release 99.9 level.

You can also use an IBM command to rename libraries after installation.

Database library xxDBFA

The database library is used for maintaining data. If you maintain separate versions for production and training or test purposes, you need multiple database libraries.

The default database library name at the library selection screen is in the format xxDBFA where xx is the product identifier.

Examples: GLDBFA, HRDBFA, and PMDBFA are typical default names for the production environment versions of these libraries.

Database library naming

The library may be shipped with some of the same extensions and have the extensions removed during the restoration process, as in the case of the program library.

The installation process allows you to specify any name you want for the database library. For example, during installation you can specify installing GLDBFA as **GLDBFT999**, where **T999** identifies this database library as your training database at the Release 99.9 level.

You can also use an IBM command to rename libraries after installation or upgrade.

Releases and modifications

Each shipment of an Infinium application contains the software for a specific release and modification of that application, such as Infinium GL Release 13.1. In this example, the 13 represents the major release level and the 1 represents the minor or modification release level.

This guide represents the release number generically by *rrmmaabb*. For example a shipped program library called generically *xx2000rrm* could be in your case GL2000131 (Release 13.1) or PM2000130 (Release 13.0).

Coordination of versions and libraries for specific releases

The Infinium AM records for a system and its versions include library lists. Use the Infinium AM *Systems and versions* function to check these library lists after upgrades to ensure that the correct version uses the correct program and database libraries.

You can also use the Infinium AM *Systems and versions* function before beginning your upgrade to check what versions of the application you have on the computer and what libraries each version is currently using.

Checking the existing versions and libraries prior to upgrade is not typically necessary because the upgrade program automatically searches for and displays a list of the application's existing libraries eligible for upgrade. You may wish to do so, however, if you want to write up planning notes to keep track of your versions and libraries during the upgrade process.

Standard example versions and libraries

The table below identifies a sample standard set of versions and libraries. In your environment, you can use any numbers between 001 and 999 that you choose for the versions and any names you choose for the libraries.

Version	Description
000	<p>The production (system) version. When you install a new application, the system automatically installs the application as the system version. The shipped database library may have training data in it.</p> <p>Standard examples of Version 000 libraries:</p> <ul style="list-style-type: none"> ■ xx2000 ■ xxDBFA
001	<p>A training environment for your users with your sample data. Infinium uses Version 001 as our standard training environment sample version. You can use any version number between 001 and 999 for this purpose at your site.</p> <p>If you have a training version defined on your system, you can upgrade this version's database library to the new release level after upgrading your production version. You typically use the same program library for all environments that are at the same release level.</p> <p>Standard examples of Version 001 libraries:</p> <ul style="list-style-type: none"> ■ xx2000 ■ xxDBFT (the T is for Training)
002	<p>A test environment for a new release when you upgrade an application. Infinium uses Version 002 as our standard upgrade test environment sample version. You can use any version number between 001 and 999 for this purpose at your site.</p> <p>To test a new release with your own data prior to upgrading your production version and without affecting your existing training environment, you can create a new test version that has your production data but is in a separate test environment.</p>

Find the instructions for your current scenario

- This topic describes several scenarios and indicates where to find the related detailed instructions.
- If you are upgrading a version other than Version 000, refer to Scenario 4.

Scenario 1: Upgrade existing system Version 000

This scenario applies when you are ready to upgrade your production environment, System Version 000, to the new release level. Ensure that you first back up the old database and that no one is on the system.

The table below summarizes the key choices to keep in mind for directly upgrading Version 000.

Context	Choice
System prompt for Version	Press Enter to accept the default Version 000.
System prompt to replace old information	Specify replacing the old information. This is information associated with the older release that you are going to upgrade.
System prompt for installation type	At the First Time or Upgrade selection screen, specify 2 (Upgrade product libraries) to indicate an upgrade of existing libraries.
System prompt for library selection	<p>The Upgrade Existing Software screen lists libraries that are eligible for upgrade.</p> <ul style="list-style-type: none">■ If you have no other versions of this application than Version 000, you can perform a simple upgrade by keeping the default values at this screen.■ If you have multiple versions and the screen lists multiple program libraries or database libraries, deselect all but the Version 000 libraries by blanking out the x next to the non-Version 000 libraries. <p>You keep the same library names you used for the previous release by keeping the default *SAME values in the <i>To library</i> column for the program and database libraries.</p> <p>Refer to the appropriate <i>Infinium xx Release Installation Details</i> document for other libraries that may apply in your case.</p>
Results	Version 000 at the new release level, typically with libraries xx2000 and xxDBFA (or your alternative names for these libraries).
Post Installation Tasks	Check the Version 000 library list. Also perform other post installation tasks described later in this guide and in the release details document.

For detailed instructions refer to the “Direct upgrade of system Version 000” chapter.

Scenario 2: Re-Installation after an interrupted upgrade

Re-installation applies if the initial upgrade process was interrupted by an unusual event such as a power outage.

The procedure you follow depends upon where the interruption occurred. For details, refer to the “Re-installation after interrupted upgrade of Version 000” chapter.

Scenario 3: Completion of post-installation tasks

Post installation tasks apply after you have successfully completed the upgrade.

Refer to the following for details:

- The “Standard post-upgrade tasks.” chapter

Standard post upgrade procedures include such tasks as checking the Version 000 library list. Checking the library list is particularly important if you do not use the standard library names xx2000 and xxDBFA.

This chapter also describes certain optional post installation tasks.
- The post upgrade instructions in the release specific *Infinium xx Release Installation Details* document shipped with the application.

Scenario 4: Upgrade of existing training or test environment

For the purposes of illustration, these instructions use the following version and library names to represent an existing training environment:

- The example for the existing training environment is Version 001.

The training environment on your own system can be numbered anywhere from Version 001 to Version 999.
 - The example for the training version's database library is xxDBFT, with the final T to indicate training.

The training database library name on your own system is any you have assigned.
-

You cannot directly upgrade an existing version other than the system version, Version 000. Therefore, upgrading a training or test version consists of the following steps:

- 1 Upgrading to a new intermediate version
- 2 Applying the changes to your existing training or test version
- 3 Deleting the new intermediate version

For step-by-step instructions, refer to the “Upgrade of an existing training or test version” chapter later in this guide.

The table below summarizes key points for planning purposes, using the example of Training Version 001 with database library xxDBFT.

Context	Choice
System prompt for Version	Specify Version 002 (or any other non-existent version up to 999).
System prompt for installation type	At the First Time or Upgrade selection screen, specify 2 (Upgrade product libraries).

Context	Choice
System prompt for library selection	<p>At the Upgrade Existing Software screen list of libraries eligible for upgrade, library selection depends upon the suite and the library type.</p> <ul style="list-style-type: none">■ For all suites, deselect each library that is not used for Version 001.■ For all suites, always specify an alternative program library name in the <i>To library</i> column. Example: <i>xx2000rrmT</i> (such as <i>GL2000131T</i>). You can use any name that is not already in use on your system.■ Database library <p>For Infinium PX: If you keep *SAME in the <i>To library</i> column, the system renames the existing database library by appending OLD, -OL, or the old release number to the library name. The system uses the old name for the new database library at the new release level.</p> <p>For all Infinium applications except Infinium PX: Always keep *SAME in the <i>To library</i> column. The system directly upgrades the existing DBFT library to the new release.</p> <p>If you change the value in the <i>To library</i> field, the upgrade produces a new library at the new release level, with the name you specify. The old database library remains at the old release level and retains its old name.</p> <p>Refer also to the appropriate <i>Infinium xx Release Installation Details</i> document for other libraries that may apply in your case.</p>

Context	Choice
Post-installation tasks	<p>In Infinium AM, update the Version 001 (or your equivalent version) controls to indicate the new release and modification.</p> <p>Verify the library list for Version 001 (or your equivalent version).</p> <p>Copy menu controls from the new version you just created (such as Version 002) to Version 001 (or your equivalent training/test version).</p> <p>Copy any user defined job controls from the old release and modification to the new release and modification.</p> <p>If you have user defined user or group menus, refer to the appropriate <i>Infinium xx Release Installation Details</i> document for menu change information.</p> <p>Optional: Delete the intermediate version you created (in this example, Version 002).</p>

Scenario 5: Creation of new test version with old version 000 data

This scenario assumes that you have Version 000 at the previous release level and you want to use the Version 000 data for the new test version before you upgrade Version 000.

Caution: Users should not be using Version 000 during the upgrade process.

The table below summarizes key points for planning purposes.

Context	Choice
System prompt for Version	Specify Version 002 (or any other non-existent version up to 999).
System prompt for installation type	At the First Time or Upgrade selection screen, specify 2 (Upgrade product libraries) to indicate an upgrade of existing libraries.

Context	Choice
System prompt for library selection	<p>At the Upgrade Existing Software screen list of libraries that are eligible for upgrade, select the Version 000 program and database libraries.</p> <p>This does not affect Version 000 except by copying information from that version to the new version you are creating at the new release level.</p> <ul style="list-style-type: none"> ■ Program Library: <p>Change *SAME in <i>To library</i> column to a new non-existent library name such as <i>xx2000_rrmT</i> (example: <i>GL2000_131T</i>).</p> ■ Database Library <p>Change *SAME in the <i>To library</i> column to a new non-existent library name such as <i>xxDBFT_rrm</i> (example: <i>GLDBFT_131</i>).</p>
Results	Version 002 at the new release level, with the libraries you specified such as <i>xx2000rrmT</i> and <i>xxDBFT rrm</i> . The data in <i>xxDBFT rrm</i> is from the existing Version 000.
Post-installation tasks	<p>Set up library list for Version 002 (or your alternative version).</p> <p>Ensure that you also have test database libraries for any interfacing applications.</p> <p>Authorize users to access Version 002 (or your alternative version).</p>

Scenario 6: Transition of test version to production

This scenario assumes the following:

- The test version (Version 002 in this example) is at the new release level. Your test version can be any number from 001 to 999.
- Version 000 is at the previous release level.
- You have already restored the installation library for the new release to your IBM computer.

This procedure uses a different installation program than the program you use for direct upgrade of Version 000. This alternative program, *General install functions*, bypasses part of the installation process.

The table below summarizes key points. For step-by-step instructions, refer to the “Move a test version into production Version 000” chapter later in this guide.

Context	Choice
System prompt for library selection	<p>At the Upgrade Existing Software screen, the system lists only libraries that are at the previous release level.</p> <ul style="list-style-type: none">■ Program Library <p>Deselect the program library. You can upgrade the Version 000 program library by simply renaming the test version later.</p> <p>Note: If you keep the program library selected and keep *SAME in <i>To library</i> column, the system upgrades the Version 000 program library. This means multiple program libraries at the new release level, potentially causing you space problems.</p> <ul style="list-style-type: none">■ Database Library <p>Select the database library. Keep *SAME in the <i>To library</i> column.</p>
Results	<p>If you deselected the program library, Version 000 still has a program library at the old release level. You must upgrade this library later.</p> <p>The Version 000 database library results depend on the suite:</p> <ul style="list-style-type: none">■ For all Infinium applications except Infinium PX: the system has used the Change Physical File command to upgrade the Version 000 database library to the new level directly.■ For Infinium PX: the system has renamed the Version 000 database library by appending OLD, OL, or the old release number. The system has then installed the new database library at the new release and copied your Version 000 database data into the new database library.

Context	Choice
Post Installation Tasks	<p>If you deselected the program library at the library list, rename the prior release Version 000 program library by appending OLD or the old release number to the library name. Rename the new release level test program library to xx2000 or the alternative Version 000 library list name for the program library.</p> <p>In all cases, perform the same post installation tasks as for Scenario 4 (Upgrade of Existing Training or Test Environment), except specify Version 000 rather than Version 001.</p>

Notes

Confirm that the upgrade installation procedure applies

Follow the upgrade instructions in this book, using the details in the appropriate *Infinium xx Release Installation Details* document, if both of the following apply:

- You already have one or more versions of the application installed on the IBM computer and
- The appropriate installation details document does not require a First Time Installation procedure.

If either of the following conditions applies, follow the First Time Installation procedure described in *Installing a New Infinium Application*, using the details in the appropriate *Infinium xx Release Installation Details* document:

- Infinium xx is not already installed on your system.
- Infinium xx is on your system, but the *Infinium xx Release Installation Details* document specifies that you must delete the old release before installing the new release.

Check for software prerequisites (varies by product and release)

Refer to the appropriate *Infinium xx Release Installation Details* document for information about the following requirements:

- Version xx of the IBM® OS/400 operating system.
 - Current Infinium AM release.
-

- Current WebTop release including IBM WebSphere requirements
- Required existing release level of the application you are upgrading.

If you do not already have the prior release of the application on your IBM computer, you may need to upgrade from an older release to that prior release before upgrading to the most recent release. Refer to the *Infinium xx Release Installation Details* for the required levels.

- Required release levels of interfacing Infinium applications.
- The latest IBM PTF. See Infinium AM Solution Record KB1372498 for IBM PTF information.

Check that existing libraries are eligible for upgrade

Identifying the required prior release level

To be eligible for upgrade, a library typically must be at the immediately previous release level.

Refer to the appropriate *Infinium xx Release Installation Details* document to determine the required release level in your case.

Checking the release level for individual libraries

Your application may display the current release level on the main menu or have a function for displaying the current release level. These displays apply only to the program library.

You can also check the release level for individual libraries. An existing library has an S2KRELEASE data area that specifies the library's current release level. You can display the contents of the database by entering the following command at a command line, substituting the name of the library for *library_name*:

DSPDTAARA DTAARA (library_name/S2KRELEASE)

Example:

DSPDTAARA DTAARA (HR2000/S2KRELEASE)

Check existing library names to avoid duplicates of new libraries

Unless you are re-installing or have already manually restored the installation libraries from media, ensure that the system does not already have libraries with this release's library names. If you do have an old library that has the same name as a new library shipped with this release, rename your old library to avoid overwriting it during restoration from media and to ensure that the upgrade program uses the correct new library.

If you do not manually restore the libraries from media, the installation process automatically restores a shipped library. If the process finds a library of that name on your system, the system typically renames the existing library.

Exception: If the installation program finds the AM Build library for this release (AMBLDxxrrm) already on your system, the installation uses that library and does not restore the one in the installation library.

To identify the library names for the release, refer to the applicable *Infinium xx Release Installation Details* document. The table below describes the most common library naming conventions for Infinium releases.

Library type	Naming convention	Example and comments
Installation	xxrrmmaabb	GL13010000 for Infinium GL Release 13 minor release or modification 1 (13.1) This library contains the other libraries.
AM Build	AMBLDxxrrm	AMBLDGL131 for Release 13.1 The installation program automatically installs data from this library, such as help text and job controls, into the Infinium AM platform library AM2000.
Program	xx2000rrm or xx2000rrmG	GL2000131G This library contains application programs. This library is shipped as xx2000rrm or xx2000rrmG. The installation process removes the rrm or rrmG during the upgrade process.

Library type	Naming convention	Example and comments
Database	<i>xxDBFArrm</i> or <i>xxDBFArrmG</i>	GLDBFA131G This library contains database files. Applications without a database do not include this library. This library is shipped as <i>xxDBFArrm</i> or <i>xxDBFArrmG</i> . The installation process removes the <i>rrm</i> or <i>rrmG</i> during the upgrade process.
Training Database	<i>xxDBFT</i>	GLDBFT This library contains a separate training database shipped with some applications. Some applications ship training data in the DBFA library. Some ship no training data. See AM Solution Record KS518 for more information about the training database.

Manually restore libraries from media (optional)

Overview

The installation library *xxrrmmaabb* contains the product library, the database library, and for some application releases, a separate training database library, a document library, other special libraries or all of these, in save files (*SAVF). During installation, the system looks for libraries with the names of the shipped libraries and then automatically restores any of these libraries that the system cannot find on your system.

Manual restoration is an optional pre-installation task. It can be useful when any of the following applies:

- The media drive will not be available at the time of actual installation (restore the installation library).
- You have customized programs in the prior release and need to reapply your customizations prior to installation. In this case, restore the program library.
- You want to use a shipped training database library for a test version (restore the separate training database library).
- You need to restore the product library for another product on the CD.

Refer to the appropriate *Infinium xx Release Installation Details* document for the release to determine which libraries are included in your application release and their exact names. If there is a separate training database, also check for any special instructions that apply.

Steps

Note: If a shipment has more than one application media CDs, special LODRUN steps apply. Refer to the appropriate *Infinium xx Release Installation Details* document if you receive more than one application CD.

To restore one or more of the libraries when you receive one CD, perform the following steps:

- 1 Sign on as **AM2000** and go to a command line.
- 2 Load the media with *xxrrmmaabb* in the media drive.
- 3 Use the commands in the table below to perform the desired restorations, substituting the appropriate product designator such as GL or PM, the appropriate release and modification number, such as 131, and your device name where applicable.

The qualifier at the end of several of these commands ensures that you remove the release/mod extension and a possible G extension from the shipped library name just as the automated restoration process does during the installation process.

- 4 Press Enter after each command.

Library	Command
Installation library <i>xxrrmmaabb</i> Example: GL12040000	RSTLIB SAVLIB(xxrrmmaabb) DEV(device-name) VOL(*MOUNTED) MBROPT(*ALL) RSTLIB(xxrrmmaabb)
Product library <i>xx2000rrm</i> Example: GL2000131	After restoring <i>xxrrmmaabb</i> , use this command: RSTLIB SAVLIB(xx2000rrm) DEV(*SAVF) SAVF(xx2000rrm/xx2000rrm) RSTLIB(xx2000rrm)
Database library <i>xxDBFArrm</i> Example: GLDBFA131	After restoring <i>xxrrmmaabb</i> , use this command: RSTLIB SAVLIB(xxDBFArrm) DEV(*SAVF) SAVF(rrmmaabb/xxDBFArrm) RSTLIB(xxDBFArrm)

Library	Command
Training Db Library <i>xxDBFTrrm</i> Example PMDBFT122	After restoring <i>xxrrmmaabb</i> , use this command: RSTLIB SAVLIB(<i>xxDBFT rrm</i>) DEV(*SAVF) SAVF(<i>rrmmaabb/xxDBFTrrm</i>) RSTLIB(<i>xxDBFT rrm</i>)

Enlarge message queue (optional but recommended)

An authorized person must perform this task.

- 1 Make a note of your current system value QJOBMSGQMX size.
- 2 Change QJOBMSGQMX to **64**.

After installation you can redefine the system size to the size that you noted.

Check for sufficient available disk space

Find the release's space requirements

Refer to the applicable *Infinium xx Release Installation Details* document for the following:

- Total MB needed
- Size and number of objects for each of the libraries in this release

To check that your system has the required available space, type the following command and press Enter to display the System Status screen:

WRKSYSSTS

To calculate the total remaining available space, compare the amount of total system ASP used with the percentage used. These values are near the top right portion of the screen. For example, if the total space is 1,000,000 MB and the percentage used is 80%, you have 200,000 MB remaining (0.80 x 1,000,000).

Check your old database library size (optional)

While some installation programs directly change your old database library with the CHGPF (Change Physical File) command, others sometimes copy data from your old database to the new upgraded database during the installation process. If you have a very large database library, you may need to ensure that you have not only the space identified in the previous subtopic but also temporary room for two copies of your database library.

To check the size of your database library, type the following command, substituting the exact name of your database library for `xxDBFA` and press Enter.

DSPLIB LIB(xxDBFA) OUTPUT(*PRINT)

To check the spool file for the result, type **WRKSPLF** at the command line and press Enter. Select the spool file (typically QPDSPLIB) with **5** and press Enter. Look at the bottom of the file for the library size.

Ensure AM2000 user profile has necessary authority

The installation programs use various IBM commands such as RSTLIB. The AM2000 user profile must be authorized to use basic IBM commands. If your AM2000 user profile does not have broad authority, consider checking whether it is authorized to use at least the following commands typically used by one or more of the installation programs:

- RSTLIB and RSTOBJ
- CRTJOB, CRTSBS, and CRTDUPOBJ
- CPYLIB, CPYOBJ, and CPYF
- CHGPF
- RNMOBJ
- RST

Note: Individual installation programs may also use other commands. Ensuring authorization to use the listed commands does not necessarily guarantee authority to use all the commands for a particular release. For a complete list of commands that you may require, see Infinium AM Solution Record JB94.

Back up existing libraries (recommended)

Ensure that you have an up to date backup of the following:

- Program library at the old release level
- Database library at the old release level

Caution: Ensure that you back up the Version 000 database library because this library contains your current production data.

- AM2000 library

This library has the old release's job controls, help members, and so forth for the application you are upgrading.

Caution: Ensure that you back up any libraries that contain objects you have customized.

Generate the Changed Objects report

You may want to generate a Changed Objects report from the restored installation library to identify objects that changed with the release you are installing. You can also do this as a post-installation task.

To generate the Changed Objects report, complete the steps below.

- 1 From the Infinium AM main menu, select *AM Utilities*.
- 2 Select *Install Functions*.
- 3 Select *Print Changed Objects* [PRTCHGOBJ]. The system displays a screen similar to Figure 3-1.

```
Print Changed Objects (PRTCHGOBJ)

TYPE CHOICES, PRESS ENTER.

Install Library Name . . . . . _____ CHARACTER VALUE

F3=EXIT  F4=PROMPT  F5=REFRESH  F12=CANCEL  F13=HOW TO USE THIS DISPLAY
F24=MORE KEYS

BOTTOM
```

Figure 3-1: Print Changed Objects (PRTCHGOBJ) screen

- 4 Use the information below to complete this screen.

Install Library Name

Type the name of the installation library that contains the objects for the application you are installing.

- 5 Press Enter.

Remove the Infinium xx Web contents

You must perform the steps below only if an earlier release of Infinium xx Web is installed on your system.

Complete these steps to remove or rename the Infinium xx *rrm* Web components.

- 1 Remove or rename the following folders found in the IFS, where **{hostname}** refers to your Web application server.
 - **\\{hostname}\infinium\web\httproot\Libs\xx2000**
 - **\\{hostname}\infinium\web\httproot\Menu\Help\xx**
 - 2 Remove the Infinium xx Search index if present.
 - a Open Microsoft® Internet Explorer.
 - b In the *Address* box type **http://{hostname}:2001**, where **{hostname}** is the name of your Web application server. The IBM HTTP administration page is displayed.
 - c Press Enter.
 - d Type an administrator user ID and password. Click OK.
 - e Select IBM Web Administration for System i.
 - f Select the Advanced tab
 - g Select the Search Setup tab.
 - h Under Search Engine Setup, select **xxIndex** in the list box, where **xx** is the product designator.
 - i Click *Delete search index*.
 - j Click *Delete both main and supplemental indexes*.
 - k Click Delete.
-

Re-apply customizations from the prior release

Perform this task if you have customized programs in the prior release and want to carry your customizations forward to this new release.

If you have not already done so, restore the new program library `xx2000rrm` from the media using the command in the “Manually Restore Libraries from Media” topic earlier in this chapter.

Apply your customizations to the programs in your custom library (XXCUST) before beginning the upgrade procedure.

If planning a re-installation, refer to the re-installation instructions

Certain pre-installation procedures apply to re-installations.

If you are repeating an upgrade to a new release after an interruption such as by electrical failure, ensure that you read the re-installation instructions later in this guide.

Immediately before upgrading, check for users and locked libraries

WARNING! Immediately before you upgrade an application, you must ensure that no one is currently using the system and that no locks exist on the libraries you are upgrading.

To look for locks on libraries, type the command below at a command line, substituting the name of a library that you are upgrading and press Enter.

```
WRKOBJLCK OBJ(library name) OBJTYPE(*LIB)
```

Examples:

```
WRKOBJLCK OBJ(GL2000) OBJTYPE(*LIB)  
WRKOBJLCK OBJ(GLDBFA) OBJTYPE(*LIB)
```

Repeat for each additional library to be upgraded.

Refer to applicable *Release Installation Details* for additional tasks

The *Infinium xx Release Installation Details* document for a specific release may include additional pre-installation tasks for that release.

Unless otherwise specified, the system automatically displays the screens that you need to complete the upgrade process.

Carefully read the instructions at each displayed screen.

Upgrade task 1: Complete pre-installation tasks

Refer to the Pre-installation tasks topics. Ensure that you also refer to the pre-installation instructions in the appropriate *Infinium xx Release Installation Details* document.

Upgrade task 2: Load media (if did not manually restore)

If you did not restore the installation library *xxrrmmaabb* from media, load the media.

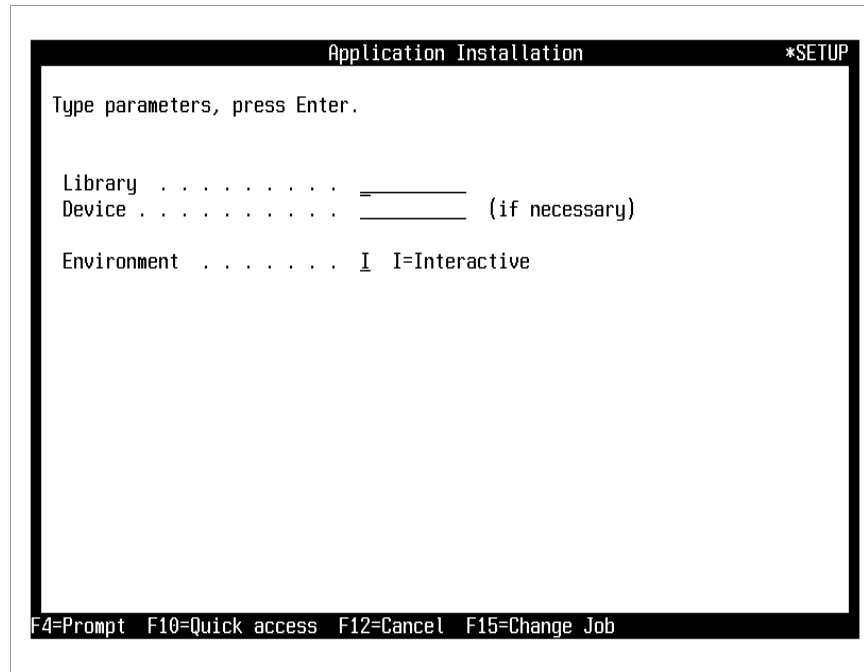
Upgrade task 3: Submit installation to begin AM build

Start installation program

- 1 Sign on as **AM2000**.
 - 2 Select AM Utilities.
 - 3 From the *AM Utilities* menu, select *Install Functions*.
-

4 From the *Install Functions* menu, select *Application Installation*.

The system displays an initial Application Installation screen.



The screenshot shows a terminal window titled "Application Installation" with a "*SETUP" label in the top right corner. The prompt "Type parameters, press Enter." is displayed. Below it are three input fields: "Library", "Device (if necessary)", and "Environment I I=Interactive". At the bottom, a status bar lists function key shortcuts: "F4=Prompt F10=Quick access F12=Cancel F15=Change Job".

Figure 4-1 Application Installation screen

5 Use the information below to complete the displayed fields.

Library

Specify the *xxrrmmaabb* installation library. Refer to the appropriate *Infinium xx Release Installation Details* for the exact library name.

The *Library* field may contain a default value from the last installation you performed. If necessary, change this default to reflect the product, release, and modification that you are installing.

Device

This is the media device name such as **OPT01** or your alternative optical device name. If you manually restored the installation library, leave this field blank.

Environment

Specify **I** for interactive installation. You must use **I** in this field.

- 6 Press Enter. If you did not manually restore installation library *xxrrmmaabb* the system now restores the *xxrrmmaabb* library to disk and adds that library to your current library list.

Read AMBLD messages on screen and specify Version 000

The system displays a message while restoring the AMBLD*xxrrm* library from installation library *xxrrmmaabb*. The AMBLD library is for building Infinium AM platform information including function key controls, help members, job controls, and menu controls for this release of this application.

When the system finds that Version 000 already exists, the system displays a version prompt.

- 1 Press Enter to confirm the default, upgrade of Version 000.
- 2 When prompted, press Enter again to confirm replacement of the old platform (for example, the AM2000 library) information for this application.

The system displays both of these prompts the first time that you begin upgrade of Version 000 to this new release.

The system then displays an Infinium AM window. While displaying this window, the system installs the platform information from the AMBLD*xxrrm* library.

Upgrade task 4: Specify upgrade installation

After installing the platform information, the system briefly displays the Executing Current Command window.

- 1 Monitor the command being executed at this window.
 - 2 When the system displays the Product Install/Upgrade Library Selection window, read the displayed instructions while the system searches for existing libraries. The system prompts you to wait.
 - 3 When prompted to do so, press Enter to continue to the First Time or Upgrading? selection screen.
-

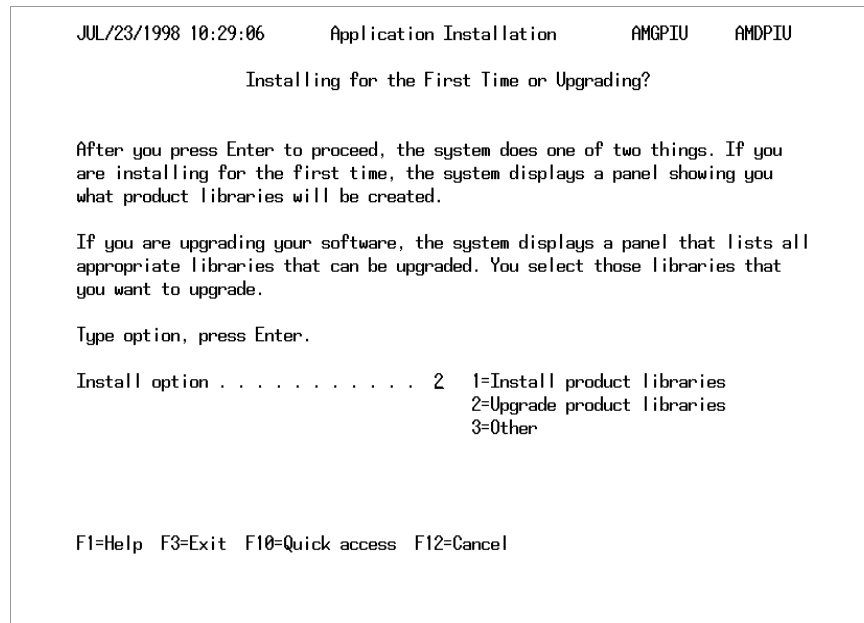


Figure 4-2: Installing for the First Time or Upgrading? selection screen

Caution: If the system displays a default 1 in the *Install option* field, the system sees no libraries eligible for upgrade.

If there are no libraries eligible to be upgraded, the First Time Installation procedure may apply. Refer to *Installing a New Infinium Application* and the appropriate *Infinium xx Release Installation Details* document for instructions.

- 4 Read the instructions on the First Time or Upgrading? selection screen. Then specify 2 (Upgrade product libraries) in the *Install option* field and press Enter.

The system displays the Upgrading Existing Software screen. Continue to the next task.

Upgrade task 5: Specify library upgrade information

Interpreting the list of libraries

The Upgrading Existing Software screen identifies and describes the libraries eligible for upgrade. For example, if you currently have an Infinium GL Release 12.4 database library, the system lists **GL 13.1 GLDBFA *SAME GL 13.1 database library**.

The exact library descriptions vary depending on the application.

The ***SAME** in the *To library* field indicates keeping the same name as you currently have for the library. For example, if your Infinium GL program library is named GLPROGRAM rather than GL2000 and you leave ***SAME** in the *To library* field, the system keeps GLPROGRAM as the program library name in the upgraded version of the library.

Opt field default values and your available actions

The table below identifies default *Opt* field values that the system can display at this screen.

The information after the following table identifies additional values that you can type in the *Opt* field to perform certain optional tasks.

Default <i>Opt</i> value	Description
X	This library is selected for upgrade. You can blank out the X to omit the library from the upgrade process.
2	<p>The system has determined that you must change the installation options.</p> <p>Press Enter and follow the directions on the screen. The system returns you to this screen.</p>
5	You use this value to display the commands that will be executed during the installation.
8	You must specify additional application options before the system can display X next to this library.

Read the instructions on the screen throughout these procedures.

Specify required product options (if a default option = 8)

If the default value in a library's *Opt* field is **8**, you must press Enter and follow the instructions on the displayed screen or screens to specify application specific options. When done, return to the list of libraries.

When you return to the list of libraries, the system automatically changes the library's **8** to **X**.

Change default report output queue and library names (optional)

- 1 Optional: To change the default report output queue, type **2** next to the library and press Enter. At the displayed screen, change the default value ***USRPRF** in the *Output queue library* field.
- 2 Optional: View the two library name fields on the same screen as the default report output queue. You do not need to use these fields. Refer to the online help for explanations of their use.

The *ASP to restore library to* field at this same screen no longer applies with availability of logical partitioning in today's larger capacity computers.

- 3 To return to the list of libraries, press Enter.

Repeat these steps for each library for which you need to specify alternative options.

Preview installation actions for a library (optional)

To preview the actions that the system executes for a listed library during installation, type **5** in the *Opt* field for that library and press Enter.

After reviewing the list of actions, press Enter again to return to the list of libraries.

Review names to which libraries are to be upgraded

Review the old and new library names at the Upgrading Existing Software screen.

- 1 In the Upgrade column, review the names of the libraries that you are about to upgrade. These are the names you assigned to these libraries for the previous release and that are eligible for upgrade.
- 2 Review To library values. ***SAME** indicates keeping the same library name after upgrade to the new release level. Although we recommend keeping the standard names **xx2000** and **xxDBFA** for Version 000, you can change the *To library* values.

For example, you can change the product and database library names to **xx2000rrm** and **xxDBFArrm** to indicate the release level, such as changing GL2000 to **GL2000131** for Release 13.1.

Deselect a library to prevent upgrade (optional)

Blank out the **X** next to a library to omit that library from upgrade.

Exit upgrading existing software screen (required)

When you have finished working with the list of libraries and the following are both true, press Enter to continue the installation:

- The system displays **X** next to each library that is to be upgraded.
- The system does not display any value other than **X** next to a library.

If you press Enter when these are both true, the system displays the Interactive or Batch? selection screen. Continue to the next task.

Upgrade task 6: Select interactive or batch installation (required)

Date Time	Application Installation	AMGPIU	AMDPIU
Interactive or Batch?			
Choose whether you want to install or upgrade your software in batch mode or interactively.			
If you choose to install in batch, you will be able to change the parameters for each job before submitting them to batch. Note that if you choose the batch method, you must wait until ALL jobs have completed successfully before you can start using the software.			
Type option, press Enter.			
Environment to execute in	1 = Run interactively		
	2 = Run in batch		
F1 = Help F3 = Exit F10 = Quick access F12 = Cancel			

Figure 4-3: Interactive or Batch? selection screen

We strongly recommend that you perform the installation in batch mode.

Do one of the following:

- Strongly recommended: Type 2 (Run in batch). Press Enter and continue to the next task.

Batch upgrade provides a highly useful job log and easy quick identification of the installation reports under individual library job names, typically xxDBFA and xx2000.

You must specify a single-threaded batch queue at the next screen.

- Not recommended: Specify 1 to run the upgrade interactively.

Press Enter and continue to the next task.

Caution: Running the upgrade interactively, especially through a remote network connection, can result in problems if you lose the connection during the process. To avoid the cleanup required by such an event, we strongly recommend batch upgrade.

Upgrade task 7: Specify whether to install Web components

Specify whether to install the Web components at this time. You can install the Web components later using the “Installing Web Components” topic in the “Post Installation Tasks” chapter of the guide.

Note: This window only displays the first time the release is installed and you specify **Y** to install the Web components. If you are not using the Web version of the application, type **N** in the instructions below.

- To install the HTML pages and java classes necessary to run this release over the Web, type **Y** and press Enter.
- Type **N** and press Enter to install the Web components at a later time.

If you specified batch installation, continue to task 8 (Confirm Batch Parameters).

If you specified interactive installation, continue directly to task 9 (Process Confirmation Panel). Task 8 does not apply.

Upgrade task 8: Confirm batch parameters (required for batch installation)

If you specified batch installation at the Interactive or Batch? selection screen and pressed Enter, the system displays a Batch Installation screen with job queue and job description parameters.

- Review the default values and make any necessary changes.

Caution: Ensure that you specify a single-threaded job queue.

- Press Enter to continue to the installation Confirmation Panel.
-

Upgrade task 9: Process confirmation panel (required)

The system displays a Confirmation Panel summarizing the installation parameters you specified at earlier screens.

Verify the parameters. If there are errors, press F12 to return to earlier screens and correct the parameters.

If the parameters are correct, press Enter to upgrade the libraries. The system displays messages as follows:

- If you specified batch installation, the system displays a message that the installation has been submitted to a batch process and prompts you to press Enter to return to the menu.
- If you specified interactive installation, the system displays messages on the progress of the installation and displays a > character to the left of the library being upgraded.

When done, the system displays a message that the installation tasks are completed and prompts you to press Enter to return to the menu.

Upgrade task 10: Check installation reports

Refer to the appropriate *Infinium xx Release Installation Details* document for the names of the reports to check.

The following topics summarize the typical names of the reports and how to access those reports depending upon your method of installation. The system also stores all of these reports in AM2000 file AMPRL by system, release, modification, and installation date.

Note: In addition to the reports listed below, some upgrade installations generate a Copy Data Report (AMTCPY).

If you upgraded in batch mode

Standard reports for typical batch installations are as follows:

Name	Notes
AMTBCH	Infinium <i>xx rrm</i> report If there are installation errors, this report flags the corresponding messages with * in the first column. Carefully check for these * flags.
QPSRLDSP	Restore Library Information report There is one QPSRLDSP report for each of the batch jobs, such as jobs <i>xxDBFA</i> and <i>xx2000</i> . At the end of each report, the system specifies how many objects were restored, how many were not restored, and how many were excluded. If the installation process was successfully completely, all objects were restored and no objects were excluded.
QPJOBLOG	One job log for each job, typically <i>xxDBFA</i> and <i>xx2000</i> . It is usually not necessary to check this job log.

To display the batch installation reports, perform the following steps:

- 1 At a command line, press Shift + F2 to display the Work with Submitted Jobs screen. Page through the list of jobs to find the jobs for this installation, such as jobs *xxDBFA* and *xx2000*.
 - 2 Monitor the status of the batch jobs. Completed jobs have a status of OUTQ.
 - 3 When the jobs are complete, type 8 in the *Opt* field next to a job and press Enter to display the list of reports for that job at the Work with Job Spooled Files screen.
 - 4 Type 5 in the *Opt* field next to a report and press Enter to display that report. Refer to the table earlier in this batch installation report topic for contents to review. In some cases, you must page through the report to find information at the end of the report.
 - 5 When done viewing the report, press Enter to return to the list of reports.
 - 6 Repeat steps 4 and 5 for each relevant report for this job. Press F3 at the Work with Job Spooled Files screen to return to the Work with Submitted Jobs screen.
 - 7 Repeat steps 3 through 6 for each additional job.
 - 8 When done with the jobs, press F3 to exit the Work with Submitted Jobs screen to the menu.
-

If you upgraded interactively

Standard reports for typical interactive installations are as follows.

Name	Notes
AMTCPB	<p>Application Installation *SETUP report</p> <p>This report identifies the initial parameters you specified, including the installation library name <i>xxrrmmaabb</i>.</p>
QPSRLDSP	<p>Restore Library Information report</p> <p>There is one report for each library, such as the AMBLD, DBFA, and 2000 libraries.</p> <p>At the end of each report, the system specifies how many objects were restored, how many were not restored, and how many were excluded. If the installation process was successfully completed, all objects were restored and no objects were excluded.</p> <p>If there are installation errors, the report flags the corresponding messages with * in the first column. Carefully check for these * flags if the end of the report indicates that there were errors.</p>
AMTCS2K	<p>The Infinium Software Product Release Identifiers report</p> <p>For your reference, this report lists all the Infinium libraries on your system along with their identifiers. Example: Library GLDBFA is identified as GL 13.1, library type DTA.</p>
AMTINT	<p>Application Installation report, summarizing the installation of each library</p> <p>This report specifies whether there were errors in this installation.</p> <p>If there are installation errors, this report flags the corresponding messages with * in the first column. Carefully check for these * flags if the end of the report indicates errors were found.</p>

To display each of these reports, complete the steps below.

- 1 At a command line, press F18 to work with spooled files.
- 2 If necessary, page down through the list to find the spooled file for the report you are checking. Type 5 next to the file name and press Enter to display the report.

- 3 Review the report. If there are errors, you must correct the errors and re-run the installation successfully before continuing to the post installation tasks.
- 4 When done viewing a report, press Enter to return to the list of spooled files.
- 5 Repeat steps 2 through 4 for each of this installation's additional reports.
- 6 When done reviewing the reports, press F3 to exit to the menu.

When installation is successful

If the installation is complete without errors, continue to the post installation tasks.

If there are errors, refer to the “Troubleshooting” chapter later in this guide.

Chapter 5 Re-installation after Interrupted Upgrade of Version 000

5

Overview

This chapter describes re-installation following an interruption to the direct upgrade of Version 000.

Re-installation applies, for example, if an initial upgrade was interrupted by such problems as a power outage. The procedure varies depending upon where the interruption occurred in the initial upgrade process.

During a normal installation process, the system determines whether you previously began installation of the new release. The system makes this determination by checking whether the status of certain installation commands is **D** for done (executed) in the installation batch file AMPBAT found in the installation library.

If the system finds that certain commands have already been executed, the system displays additional prompts during the installation process. The instructions in this chapter explain how to reset the system to start the upgrade over again without encountering these additional prompts.

You can check and modify the command status directly at the Build Installation Commands screen within the Infinium AM function *Work with install batch commands* as indicated later in this chapter.

Determine where the process failed

During or after AMBLD?

The first phase of an Infinium installation or upgrade is the AMBLD (Infinium Application Manager build) phase. This is the phase during which the installation program creates platform level items such as the application help text and function key definitions.

Use one of the indications below to determine whether the installation failed during or after the AMBLD phase:

- If your installation process reached the prompt for choosing a first time or upgrade installation before failing, the process had already completed the AMBLD phase of the installation. Otherwise, the interruption occurred during the AMBLD.
- Check the installation reports. If the reports indicate successful processing of the AMBLD library without errors and indicate that the process has continued on to upgrading the database library, the process did not fail during the AMBLD.

Before upgrade of database library complete?

If the system completed the AMBLD and you completed the remaining installation submission screens, submitting the job at the confirmation screen, the system began the actual library upgrades.

The installation process begins by upgrading the database library.

Check the batch reports or the installation reports to determine whether the upgrade of the database library was successfully completed.

Before upgrade of program library complete?

After upgrading the database library, the installation process upgrades the program library.

Check the batch reports or the installation reports to determine whether the upgrade of the program library was successfully completed.

The next step

The next step depends upon where the interruption occurred.

If installation failed during...	Then go to...
AMBLD	Page 5-3 “Re-installation if the process failed during the AM build”
Database library upgrade	Page 5-4 “Re-installation if the process failed during database library upgrade”
Program library upgrade	Page 5-5 “Re-installation if the process failed during program library upgrade”
Any other library upgrade	Page 5-6 “Re-installation if the process failed during any other library upgrade”

Re-installation if the process failed during the AM build

To perform the re-installation after an interruption during the AMBLD, complete the steps below.

- 1 At a command line, type the following delete library command and press Enter to delete the `AMBLDrrm` library from your system:

DLTLIB LIB(AMBLDxxrrm)

Example: **DLTLIB LIB(AMBLDGL131)**
- 2 At the Infinium AM main menu, select *AM Utilities*.
- 3 From the *AM Utilities menu*, select *Install Functions*.
- 4 From the *Install Functions menu*, select *Install Library Setup*.
- 5 From the *Install Library Setup menu*, select *Work with install batch commands*. The system displays a Build Installation Commands screen.
- 6 At the Build Installation Commands screen, type **xxrrmmaabb** (such as **GL13010000**) to identify the installation library that contains the commands for this installation. Press Enter to display a list of the installation instructions.

The *Sts* column identifies the status of each installation instruction. A status code **D** for “Done” indicates that the instruction has been executed. A status code **X** indicates that the instruction needs to be executed. The **D** and **X** codes apply to the AM Build portion of the installation.

Status code **A** indicates that the system is always to execute this instruction. This code applies to instructions after the AM Build.

- 7 If a listed installation instruction has status code **D** in the *Sts* column, type **2** (for Change) in the *Option* field next to that instruction and press Enter. Do not change instructions that have code **X** or **A**.
- 8 Tab to the *Command status* field and type **X** (to be executed).
- 9 Press F3 to exit the screen. At the Exit window, specify **1** and press Enter to exit and save your changes.
- 10 When returned to the list of installation instructions, repeat steps 4 through 6 for any additional instructions with status **D**.
- 11 When done resetting the status for all appropriate instructions, press F3 at the list of instructions to exit. At the Exit window, specify **1** and press Enter to confirm your changes and exit to the menu.

The system updates the status for the selected instructions when you complete step 8.

- 12 Repeat the upgrade procedure outlined earlier in this guide.

Re-installation if the process failed during database library upgrade

This procedure does not apply if you are certain that the installation process had either not yet touched your old database library or alternatively had successfully completed upgrade of the old database library without errors. For example:

- If you had not yet confirmed the library upgrade at the Application Installation Confirmation Panel, the process had not yet touched your old database and program libraries.
- If installation batch reports indicate that your old database library was successfully upgraded without errors by the time the installation process was interrupted, you can omit this procedure.

If there is any chance that the process was interrupted during the upgrade of the database library, complete the steps below.

- 1 Back up and delete the partially upgraded database library.

To delete a library from a command line, type the following command and press Enter:

```
DLTLIB LIB(library_name)
```

Example: DLTLIB LIB(GLDBFA)

- 2 Restore your old database library from your backup media.
- 3 Repeat the initial restoration of installation library *xxrrmmaabb* from the original media to ensure that library *xxrrmmaabb* is uncorrupted.
- 4 Repeat the upgrade procedure described earlier in this guide.
- 5 When you repeat the procedure, the system omits the previously completed AMBLD phase of the process due to installation instruction status flags set during the original installation process to **D** (for Done, that is, executed) in Infinium AM.

Note: In some cases, re-installation does not again list the database library as eligible for upgrade if the upgrade was successful during the first pass.

Re-installation if the process failed during program library upgrade

This procedure does not apply if you are certain that the installation process had either not yet touched your old program library or alternatively had successfully completed upgrade of the old program library without errors. For example:

- If you had not yet confirmed the library upgrade at the Application Installation Confirmation Panel, the process had not yet touched your old database and program libraries.
- If installation batch reports indicate that your old program library was successfully upgraded without errors by the time the installation process was interrupted, you can omit this procedure.

If there is any chance that the process was interrupted during the upgrade of the program library, complete the steps below.

- 1 Back up and delete the partially upgraded program library. This library may be called *xx2000*, *xx2000NEW*, or *xx2000rrm* or, if the installation reached any renaming that you specified, whatever name you specified. The name can vary with the application and release level.

To delete a library from a command line, type the following command and press Enter:

DLTLIB LIB(library_name)

Example: **DLTLIB LIB(GL2000)**

- 2 Rename your old program library back to the name it had before you began the interrupted upgrade. For example, if you use the recommended standard program library name GL2000 and the interrupted process renamed GL2000 to GL2000OLD, rename GL2000OLD to GL2000.
- 3 Repeat the initial restoration of installation library *xxrrmmaabb* from the original media to ensure that library *xxrrmmaabb* is uncorrupted.
- 4 Repeat the upgrade procedure described earlier in this guide.

When you repeat the procedure, the system omits the previously completed AMBLD phase of the process due to installation instruction status flags set during the original installation process to **D** (for Done, that is, executed) in Infinium AM.

Note: In some cases, re-installation does not again list the database library as eligible for upgrade if the database library upgrade was successful during the first pass. At the screen for selecting libraries, you can now select just libraries that are still listed as eligible for upgrade.

Re-installation if the process failed during any other library upgrade

If the process failed without completing upgrade of a DBFT library, you can follow a procedure like that for the DBFA library, or in some cases you can manually restore the DBFT library.

Find information about other tasks for specific releases (required)

Caution: Some installations require additional tasks. In some cases, you must perform one or more of these additional tasks before performing the post installation tasks described in this guide.

Before performing the tasks below, refer to the instructions in the applicable *Infinium xx Release Installation Details* document.

Incorporate prior user defined controls into new release (optional)

These steps apply if your system includes user-defined user or group controls.

Copy user defined job controls from prior release

To carry forward user defined controls from the prior release, perform the following steps to copy the old controls to the new Version 000 at the new release level. This procedure copies only user-defined job controls, not job controls supplied by Infinium.

- 1 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 values in the *System*, *From Release*, and *From Modification* fields to identify the source from which you are copying the user-defined job controls.

Also type the name of your current Infinium AM platform library in the *From Library* field.

6 Type values in the *To Release* and *To Modification* fields to identify where to copy the Job Controls.

Also type the name of your current Infinium AM platform library in the *To Library* field.

7 Press Enter to execute the command. The system provides a report identifying the copied job controls.

Check for menu changes affecting user menus

If your system includes customized menus, also check the appropriate *Infinium xx Release Installation Details* document for any additions, changes, or deletions of menu options.

If there are menu changes in this release that affect your customized or user menus, apply the appropriate changes.

Refer to the *Infinium AM Guide to Application Manager* for information on working with menus.

Check whether upgrade package includes training data

Refer to appropriate *Infinium xx Release Installation Details* document to determine whether and where the release includes training data.

Update the database library and program library code variables

Immediately following installation of this release, you must update the database library and program library code variables. The Infinium application program and database libraries must be named according to the program and database libraries found in the installation details for the application.

Check upgraded version's library list (recommended)

This step is particularly important in the case of library naming conventions other than the standard ones such as xx2000 and xxDBFA.

Perform the steps below to check the library list.

- 1 Log on to Infinium AM and select *Systems and Versions*.
- 2 Select the system such as Infinium GL with 5 (Work with system).
- 3 At the system definition, press F14 to work with the Version 000 library list or press F7 to display a version list and select the version.
- 4 Ensure that the version's library list includes the libraries that apply for the version. For example, if you have assigned a program or database library name other than the default xx2000 or xxDBFA, ensure that your alternative library name is in the list.
- 5 Exit the function and save your changes.

For more information about maintaining library lists, refer to the *Infinium AM Guide to Application Manager*.

Save disk space by deleting unused source code (optional)

Infinium ships products with source code, except for certain proprietary objects.

If you do not need to customize the objects, you can save disk space by backing up the source files to media such as tape and removing the files from your system.

Check handling of multiple releases received in one shipment

Inclusion of minor, maintenance, and emergency releases in shipments

Some shipments include both the most recent major release of your new application and one or more subsequent revisions to that release such as software updates and application program changes, minor and maintenance releases.

Minor, maintenance, and emergency releases are typically incorporated into the application shortly after they are released to customers. If you are shipped an application before this merge process is complete, you may receive multiple packages.

Infinium HCM customers can receive multiple maintenance releases, which include regulatory changes.

If you do receive multiple packages for your application, plan to apply each shipped revision after completing the base upgrade. Refer to the materials enclosed with the upgrade for information on sequence.

Using multiple details documents

Refer to the appropriate *Infinium xx Release Installation Details* for special instructions that may apply to particular shipments.

If you receive multiple details documents, you can usually identify the chronological sequence by looking at the dates on the backs of the cover pages in the documents.

Later documents in some cases override information in earlier documents.

Create a default printer control

After installing into a new version, you must create a default printer control record for the new system and version. You do this through Infinium AM. The printer controls are in the table below.

Field	Value
<i>System</i>	System_Designator
<i>Version</i>	The version into which you installed
<i>User Profile</i>	Leave blank
<i>Printer File</i>	Leave blank

Perform this step for each installed application and each version you set up in the future.

Copying printer controls for test version

If you define a secondary version other than System Version 000 and you have new printer controls, you must also copy the Version 000 printer

controls to the other version. The system only copies printer controls that do not exist on the target version.

For example, if you set up Version 001 as a training or test version, perform the steps below to copy the printer controls from Version 000 to Version 001.

- 1 Sign on to Infinium AM as **AM2000**.
- 2 At the Infinium AM main menu, select *AM Utilities*, *Printer Controls*, and *Copy*.
- 3 At the Copy Printer Controls (CPYPRTCTL) screen, specify the values in the table below.

Field	Value
<i>From System Designator</i>	System_Designator
<i>From Version</i>	000
<i>To System Designator</i>	System_Designator
<i>To Version</i>	The non-production version you defined, such as 001 .

- 4 Press Enter to copy the printer controls and return to the main menu.

Delete unneeded installation libraries (optional)

When you have successfully completed an upgrade and do not plan to perform any further upgrades to additional versions, you can delete the following libraries from your system:

- Installation library *xxrrmmaabb*

Caution: Because library *xxrrmmaabb* contains all the reports that the system generated during the installation process, we recommend that you back up *xxrrmmaabb* before deleting *xxrrmmaabb*.

- Application Manager Build library *AMBLDxxrrm*

Reset size of message queue (if enlarged for installation)

If you enlarged the message queue for installation as part of the pre-installation procedure, you can now reset the queue to its former size.

Change QJOBMSGQMX back to the prior size that you noted when you enlarged the queue during the pre-installation tasks described earlier in this guide.

Generate the Changed Objects report

You may want to generate a Changed Objects report from the restored installation library to identify objects that changed with the release you are installing. You can also do this as a pre-installation task.

To generate the Changed Objects report, complete the steps below.

- 1 From the Infinium AM main menu, select *AM Utilities*.
 - 2 Select *Install Functions*.
 - 3 Select *Print Changed Objects* [PRTCHGOBJ]. The system displays a screen similar to Figure 6-1.
-

```

Print Changed Objects (PRTCHGOBJ)

TYPE CHOICES, PRESS ENTER.

Install Library Name . . . . . _____ CHARACTER VALUE

F3=EXIT  F4=PROMPT  F5=REFRESH  F12=CANCEL  F13=HOW TO USE THIS DISPLAY
F24=MORE KEYS
BOTTOM

```

Figure 6-1: Print Changed Objects (PRTCHGOBJ) screen

- 4 Use the information below to complete this screen.

Install Library Name

Type the name of the installation library that contains the objects for the application you are installing.

- 5 Press Enter.

Install Web components

For more information about installing the WebTop application, refer to Infinium AM Master Solution Record MSWT4.3.

To install application Web components if they were not installed during the installation process, follow the steps below. Only install application Web components if you plan to use the application on the Web.

Note that *xx* indicates the product identifier, *rr* indicates the release level, and *m* indicates the modification number of the release. For example, Release 13.1 of Infinium GL would yield *xx=GI*, *rr=13*, and *m=1*.

Note: The Infinium HCM has separate Web components for Human Resources (PE) and Payroll (PY).

- 1 Copy the xx W3P* data into the platform library by accessing a command line and typing the command below.

```
CPY_WEB SYSD(xx) RLS(rr) MOD(m) FRDTALIB(AMBLDxxrrm)
TODTABLIB(AM2000) FRPRDLIB(xx2000) TOPRDLIB(xx2000)
```

- 2 Restore the xx IFS components by accessing a command line and typing the command below.

```
INSTALLWEB SYSTEM(xx) RLS(rr) MOD(m) INSLIB(xxrrmmaabb)
```

Reset the Integrated File System (IFS) authority

You must have ***ALLOBJ** authority to perform the command in the steps below. Follow the steps below to reset ownership of the folder in the IFS.

- 1 Sign on to your system as a user who has ***ALLOBJ** authority and proceed to any command line.
- 2 Type the following command to add your platform library to your library list:

```
ADDLIBLE platform_library_name
```

Replace `platform_library_name` with the name of your Webtop Server platform library, for example, AM2000.

- 3 Type **WASIFSAUT**. Press F4. The system displays the Reset IFS Authority screen.
- 4 Type **IWEBTOP** in the *Installation WAR File Name* field.
- 5 Type **1** in the *Fix case issues* field to fix case sensitivity issues with folder names.
- 6 Type **1** in the *Run in batch* field to run the command as a batch job or retain the default value to run the command interactively.

If you run the command as a batch job, a job is submitted using the job description (JOBID) of the user profile running the command.

- 7 Press Enter.
-

Requirements for building search files

Verifying the QHTTPSVR server is started

You must verify that the QHTTPSVR server has been started and the instances are active. If the server has not been started, type the following command at a command line:

STRTCPSVR SERVER(*HTTP) HTTPSVR(server_instance)

Verifying *IOSYSCFG authority

Verify that the AM2000 user or a designated user has *IOSYSCFG special authority.

Create the Web help search index files

To provide a search capability for the Infinium embedded help, you must create a help index file within IBM HTTP Server. Depending upon the PTF level on your IBM machine, the navigation used to create the help index file may be different than the navigation described below. Complete the steps below to perform this process.

- 1 Open Microsoft Internet Explorer.
- 2 In the *Address* box type **http://{hostname}:2001** and press Enter. *Hostname* is the name of your Web/Application Server.

Note: Make sure that your user profile has *IOSYSCFG authority.
- 3 Select IBM Web Administration for System i.
- 4 Select the Advanced tab.
- 5 Select the Search Setup tab.
- 6 Access **Create search index**.
- 7 In the *Index name* field, type **XXIndex**, where **XX** is the product identifier.
- 8 In the *Index directory* box, type **/infinium/web/httproot/index**.
- 9 In the *Index description* box type a brief description for the index file.

- 10 Click Apply.
- 11 Click Build a document list from this directory and type **/infinium/web/httproot/libs/xx2000/help**, where **XX** is the product identifier.
- 12 Select the *Document filter checkbox*, and in the entry box type ***_help.htm***.
- 13 Click Apply.
- 14 Click OK.

Restart the server

After creating the help file index, complete the steps below to stop the HTTP Server and then start the server and instance.

- 1 On a command line type the command below and press Enter to end the server instance with which you are working.

ENDTCPSVR SERVER(*HTTP) HTTPSVR(server_instance)

- 2 On a command line type the command below and press Enter to start the applicable server instance.

STRTCPSVR SERVER(*HTTP) HTTPSVR(server_instance)

Access Infinium Web applications

To ensure that the installation completes successfully, verify that you can access the Infinium Web application as described below.

To access the Infinium Web application, type the Uniform Resource Locator (URL) below in the *Address* box of Microsoft Internet Explorer. Replace **{hostname}** with the name of your Web Application Server.

For IBM WebSphere 5.1 or higher, type:

http://{hostname}:8010/inabler/web/Login.htm

For convenience, you can create a shortcut that launches the URL.

View and print Infinium reports in PDF format

Adobe Reader must be installed on each client for users to view and print reports in PDF format.

Manually add the Infinium Query batch run menu option

If Infinium Query is installed and you want your users to be able to run Infinium QY reports from the Web, you can manually add the *Batch Run* option to the Infinium application menu.

Job name	System	Version	Job control description
QYRUNB2	QY	000	Batch Run

Notes

Chapter 7 Upgrade of an Existing Training or Test Version

7

Overview

This chapter addresses upgrading an existing training or test version to the new release level. For the purpose of examples in this chapter, this scenario assumes that you currently have the following on your system:

- A training or test version with a number other than 000. Our example uses Version 001 to represent this version. Your existing training or test version can have any number from 001 to 999.
- A database library for this version with a name other than the name you use for your production System Version 000 database library.

The standard name for the production database library is xxDBFA, such as GLDBFA.

A typical name for a training or test database library is xxDBFT, such as GLDBFT. We use xxDBFT for our examples.

Because you cannot directly upgrade an existing version other than the System Version 000, upgrading an existing training or test version has two steps:

- 1 Upgrade to a temporary new version that does not exist. In our example, we use creating Version 002. You can specify any non-existent version from 001 to 999.
 - 2 Perform a sequence of post upgrade tasks to apply the upgrade to your existing training or test version, as described later in this chapter.
-

Task 1: Upgrade to a temporary new version

Begin the upgrade as usual

Upgrading to a new version uses the same screens as upgrading Version 000.

- 1 Sign on as **AM2000**.
- 2 Select *AM Utilities*.
- 3 From the *AM Utilities* menu, select *Install Functions*.
- 4 From the *Install Functions* menu, select *Application Installation*.

At the initial screen, specify the following and then press Enter:

- The xxINSrm installation library indicated in the appropriate *Infinium xx Release Installation Details* document
- The media device name such as OPT01, if you have not already restored the installation library to your system; otherwise leave the *Device* field blank
- I for interactive environment. You must use I in this field.

Specify a new version

Read the screen messages. When prompted for a version, specify a new non-existing version such as our example's Version 002.

Specify upgrade

At the First Time or Upgrading selection screen, specify 2 (Upgrade product libraries) and press Enter. The system displays the Upgrading Existing Software library selection screen.

Specify library upgrade parameters

The system identifies and describes the libraries that the upgrade program found on your system eligible for upgrade. For this example we call the training database library xxDBFT.

Library selection depends upon the suite and the library type.

- For all suites, deselect each library that is not used for the existing training or test version that you plan to upgrade. In our example, this is Version 001.

For example, you can deselect xxDBFA by blanking out the **X** in the *Opt* field.

- Program library: For all suites, specify an alternative program library name such as xx2000rrmT in the *To library* column.

Example: GL200131T for Release 13.1 test or training. You can use any name that is not yet used on your system.

- Database library: For the test or training database library such as xxDBFT, refer to the table below.

Specifications for Existing Training or Test Database Library

Suite	Action
All Infinium applications except Infinium PX	Always keep *SAME in the <i>To library</i> column. Infinium upgrades use a Change Physical File command to upgrade the existing xxDBFT database library directly.
Infinium PX	<ul style="list-style-type: none"> ■ If you keep *SAME in the <i>To library</i> column, the system renames the existing database library by appending OLD, -OL, or the old release number to the library name. The system then uses the old name for the new upgraded database library. The upgraded library is at the new release level. Example: After upgrade to Release 13.1, your old Release 13.0 training database library GLDBFT is renamed GLDBFTOLD. You have a new GLDBFT library with your data at Release 13.1. ■ If you change the value in the <i>To library</i> field, the upgrade produces a new library at the new release level, with the name you specify. The old database library remains at the old release level and retains its old name.

Refer also to the appropriate *Infinium xx Release Installation Details* document for other libraries that may apply in your case.

As in the case of directly upgrading Version 000, you can perform additional optional tasks at this screen. For example, you can type **2** next to a library and press Enter to display a screen for changing the default report output

queue *USRPRF, change the queue and press Enter again to return to this Upgrading Existing Software screen.

When done defining the libraries to be upgraded, press Enter at the Upgrading Existing Software screen to continue to the following Interactive or Batch? selection screen.

Date Time	Application Installation	AMGPIU	AMDPIU
Interactive or Batch?			
Choose whether you want to install or upgrade your software in batch mode or interactively.			
If you choose to install in batch, you will be able to change the parameters for each job before submitting them to batch. Note that if you choose the batch method, you must wait until ALL jobs have completed successfully before you can start using the software.			
Type option, press Enter.			
Environment to execute in		1 = Run interactively 2 = Run in batch	
F1 = Help F3 = Exit F10 = Quick access F12 = Cancel			

Figure 7-1: Interactive or Batch? selection screen

Specify batch mode

Infinium strongly recommends that you run the upgrade in batch mode. Type **2** and press Enter to continue to the Batch Installation screen.

Specify a single threaded batch job queue

The Batch Installation screen identifies the job queue and job description parameters. Review the parameters.

Caution: Ensure that you specify a single-threaded batch queue.

Press Enter to continue to the Confirmation Panel.

Verify the library upgrade parameters

The Confirmation Panel displays the parameters you specified for the library upgrades. Review the parameters for accuracy.

If necessary, press F12 to go back and correct the parameters.

If the parameters are correct, press Enter to upgrade the libraries. The system displays the same messages and generates the same reports as for the direct upgrade of Version 000.

Read messages and return to menu

When the system has submitted the batch job, the system prompts you to press Enter to return to the menu.

Check the reports to ensure a successful upgrade.

If the upgrade was successful, continue to the second part of the process, applying the new temporary version's upgraded libraries to the existing training or test version you are upgrading.

Task 2: Apply upgrade to target existing training/test version

Perform the following tasks to apply the upgrade to your target existing training or test version and to clean up the temporary version.

Version numbers used for these instructions

For the purposes of these instructions we refer to the existing training or test version that is still at the old release level as Version 001. We refer to the temporary new version as Version 002.

Substitute your own version numbers for these values.

For example, if your target version is Version 010 and the temporary version is Version 020, substitute 010 for 001 and 020 for 002.

Update target version's release and modification

Caution: This step is extremely important for avoiding job control problems.

Perform the following steps to change the target Version 001 (or your equivalent version) release and modification to the new release level:

- 1 Sign on as Infinium AM and select *Systems and Versions*.
 - 2 Select the application with 5 and press Enter.
 - 3 Press F7 to display the System Version Maintenance screen.
-

- 4 For the target version (in our example, Version 001), change the values in the *R/s* and *Mod* fields to the new release level.

Update target version's library list

Still in Infinium AM, display the library list for the target version (in our example, Version 001) by typing **5** in the *Opt* field next to the library list to be displayed. The list needs to reference the upgraded libraries.

Ensure that the library list has the upgraded program library. For example, if you renamed the program library to *xx2000rrmT*, such as *GL2000131T* during upgrade to the temporary version, ensure that the target version library list specifies this program library.

Also ensure that the library list has the upgraded training or test database library name. This may not be in the library list depending on your actions during the upgrade to the temporary version.

For more information about maintaining library lists, refer to the *Infinium AM Guide to Application Manager*.

Copy menu controls from temporary to target version

The new temporary version has the menu controls for the new release. Use Infinium AM to copy these controls to the target version.

In our example, this means copying the controls from new temporary Version 002 to target existing training or test Version 001. Substitute your own numbers for this step.

- 1 To identify the supervisor user profile that you need for this task, select *Systems and Versions* from the Infinium AM main menu, type **5** in the *Opt* field next to the appropriate system and press Enter.

The system displays the name of the supervisor user profile in the *Supervisor* field near the top of the screen.

- 2 Make a note of the name, exit back to the menu and go to a command line.
- 3 To delete the target version's old menu for this supervisor user profile, type the following command using the appropriate application, version, and supervisor profile values and press Enter:

DLTAMMNU SYSD(xx) SYSV(999) USER(profilename)

Example for Infinium GL target test or training version 001 and GLSUPER supervisor user profile:

DLTAMMNU SYSD(GL) SYSV(001) USER(GLSUPER)

The remaining steps are to copy the new menu from the upgraded temporary test version to the new target test or training version for this supervisor user profile.

- 4 At the Infinium AM main menu, select *AM Utilities*, *System/Version*, and *Copy menu to user*.
- 5 At the Copy Menu (CPYMNU) screen specify the following:
 - In the *From System Designator*, *From Version*, and *From User* fields, type the application code such as **GL**, the upgraded temporary test version number such as **002** in our example, and the supervisor user profile name.
 - In the *To System Designator*, *To Version*, and *To User* fields, type the application code such as **GL**, the target test or training version to be upgraded such as **001** in our example, and the supervisor user profile name.

Note: You can press F11 to toggle the screen display to view either the field keywords or field value ranges.

- 6 Press Enter to submit the copy process.

Copy user-defined job controls from old release

If you had user-defined job controls in the old release and modification, copy these controls from the old release level to the new release level.

If you want to carry forward user-defined controls from the prior release, perform the following steps to copy the old controls to the new release that you are using in the upgraded test or training version:

To copy user-defined job controls from a prior release, that prior release must be installed on your System i computer.

- 1 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 values in the *System*, *From Release*, and *From Modification* fields to identify the source from which you are copying the user-defined job controls.

Also type the name of your current Infinium AM platform library in the *From Library* field.

- 6 Type values in the *To Release* and *To Modification* fields to identify where you want to copy the Job Controls.

Also type the name of your current Infinium AM platform library in the *To Library* field.

- 7 Press Enter to execute the command. The system provides a report identifying the copied job controls.

Update user-defined user or group menus

If you have user-defined user or group menus, refer to the appropriate *Infinium xx Release Installation Details* document for menu change information. This may include new or deleted menu options, or changes to menu option names. Apply the appropriate changes.

Refer to the *Infinium AM Guide to Application Manager* for information on working with menus.

Delete the temporary version to save space (optional)

Once you have applied the changes to the target version, Version 001 in our example, you can delete the temporary intermediate version, Version 002 in our example.

Chapter 8 Upgrade to a New Test Version

8

Overview

This chapter addresses upgrading an existing database to a new test version on the new release level. Using your production Version 000 database as the source for an upgrade to a new test version does the following:

- Leaves the production database unchanged
- Provides a new test version that has the same data as the production database

This procedure lets you use your production data to test the upgraded system in a safe environment when you do not have an existing test environment already set up. If you already have an existing test environment, you can consider using the procedure described in the preceding “Upgrade of an Existing Training or Test Version” chapter.

If you do create a new test environment, test the upgrade in that environment. Then you can follow the procedure in the “Move a Test Version to Production Version 000” chapter, to upgrade your production version.

Assumptions for this scenario

For the purposes of the examples in this chapter, this scenario assumes that you currently have the following on your system:

- A System Version 000 at the prior release
- A database library for System Version 000 at the prior release level

The typical standard name for the production database library is xxDBFA, such as GLDBFA. You may have assigned a different name.

Procedure to upgrade to a new test environment

Begin the upgrade as usual

Upgrading to a new version uses the same screens as upgrading 000.

- 1 Sign on as **AM2000**.
- 2 Select *AM Utilities*.
- 3 From the *AM Utilities* menu, select *Install Functions*.
- 4 From the *Install Functions* menu, select *Application Installation*.
- 5 At the initial screen, specify the following and then press Enter:
 - The *xxrrmmaabb* installation library indicated in the appropriate *Infinium xx Release Installation Details* document
 - The media device name, if you did not restore the installation library to your system; otherwise leave the *Device* field blank
 - I for interactive environment. You must use I in this field.

Specify a new version

Read the screen messages. When prompted for a version, specify a new non-existing version such as our example's Version 002. You can specify any non-existent version number from 001 to 999.

Specify upgrade

At the First Time or Upgrading selection screen, specify 2 (Upgrade product libraries) and press Enter. The system displays the Upgrading Existing Software library selection screen.

Specify library upgrade parameters

The Upgrading Existing Software library selection screen identifies and describes the libraries that the upgrade program found on your system eligible for upgrade. The libraries must not be in use during the upgrade process.

Opt field

Keep the **X** in the *Opt* field next to both of the following libraries to indicate upgrade:

- Your production program library (**xx2000** or your alternative name that you use for your existing Version 000 program library)
- Your production database library (**xxDBFA** or your alternative name that you use for your existing Version 000 database library)

To Library field

In the *To library* field, change the default ***SAME** value to new non-existent library names such as new names indicating the new release levels as in **xx2000rrm** and **xxDBFArrm**. This ensures that you can clearly identify and not overwrite existing libraries.

Examples for upgrading Infinium GL to a Release 13.1 test version:

- Program library: GL2000_131
- Database library: GLDBFT_131 (the T indicates a test version)

Optional tasks at this screen

As in the case of directly upgrading Version 000, you can perform additional optional tasks at this screen. For example, you can type **2** next to a library and press Enter to display a screen for changing the default report output queue ***USRPRF**, change the queue, and press Enter again to return to the Upgrading Existing Software screen.

When done defining the libraries to be upgraded, press Enter at the Upgrading Existing Software screen to continue to the Interactive or Batch? selection screen.

Specify batch mode

Infinium strongly recommends that you run the upgrade in batch mode. At the Interactive or Batch? selection screen, type **2** and press Enter to continue to the Batch Installation screen.

Specify a single threaded batch job queue

The Batch Installation screen identifies the job queue and job description parameters. Review the parameters.

Caution: Ensure that you specify a single-threaded batch queue.

Press Enter to continue to the Confirmation Panel.

Verify the library upgrade parameters

The Confirmation Panel displays the parameters you specified for the library upgrades. Review the parameters for accuracy. If necessary, press F12 to go back and correct the parameters.

If the parameters are correct, press Enter to upgrade the libraries. The system displays the same messages and generates the same reports as for the direct upgrade of Version 000.

Read messages and return to menu

When the system has submitted the batch job, the system prompts you to press Enter to return to the menu.

Check the reports to ensure a successful upgrade. If the upgrade was successful, return to the menu and continue to the post upgrade steps that apply to upgrading to a new test environment.

Post-upgrade steps for upgrading to a new test environment

The preceding procedure results in a new version (in our example test Version 002 and on your system whatever you assigned). This new version has the new release information. During these post upgrade steps, you ensure that the version has the program and database libraries at the new release level, with the new names that you assigned.

The new upgraded database library has a test copy of the data that you had in your existing production (Version 000) database library.

To complete setup of this new test version complete the tasks below.

Set up new version's library list

To set up the library list for the new test version, complete the steps below.

- 1 Log on to Infinium AM.
 - 2 Select *Systems and Versions*.
 - 3 Select the application with 5.
-

- 4 Press F7 to work with the application's versions.
- 5 Select the new version, such as 002 in our example.
- 6 Specify the new libraries that you named during the upgrade for this new version's library list, such as GL2000_131 and GLDBFT_131.

For more information about working with library lists, refer to the *Infinium AM Guide to Application Manager*.

Check for interfacing test libraries

If the application interfaces with other applications, ensure that the other applications also have test database libraries.

This ensures that people using your new test version do not inadvertently change data in the production versions of interfacing applications.

Authorize users to access new version

Authorize your users to use the new upgraded test version of the application.

For information on user authorizations, refer to the *Infinium AM Guide to Application Manager*.

Create default printer control for new version

Refer to the *Infinium AM Guide to Application Manager* for details about creating printing controls.

Use the following printer control values:

- The two-character product code such as **GL** for General Ledger in the *System* field and the new version number in the *Version* field
 - Blanks in the *User Profile* and *Printer File* fields
-

Notes

Chapter 9 Move a Test Version into Production Version 000

9

Overview

This chapter addresses moving a test version such as our example Version 002 into your production environment, System Version 000.

This procedure applies after you have tested a new release in a test environment (the test version) and are ready to use the new release in your production environment (Version 000).

For the purposes of the examples in this chapter, this scenario assumes that you currently have the following on your system:

- A System Version 000 at the prior release level
- A database library for System Version 000 at the prior release level

The typical standard name for the production database library is `xxDBFA`, such as `GLDBFA`. We use `xxDBFA` for our examples.

- A new test version such as Version 002 at the new release level

Your test version can have any number between 001 and 999. We use Version 002 in our examples.

A typical standard name for a new test version database library is `xxDBFT_rrm`, such as `GLDBFT_131`. We use `xxDBFT_rrm` for our examples.

Caution: This procedure uses a different Infinium AM function than the other installation and upgrade procedures.

This procedure has three steps. Refer to the procedures after this list for details.

- 1 Ensure that the installation library for the new release, typically called *xxrrmmaabb* such as GL13010000, is restored to your computer. Step 2 requires access to this library.
- 2 Execute the General install functions program to upgrade the production database library to the new release level. This program bypasses the AM Build stage of the installation process and goes directly to the list of libraries eligible for upgrade to the new release.

Note: Although you can also use this program to upgrade the program library at the same time; this procedure uses a post upgrade step to provide access to your test program library by both the production and the test versions. The method recommended in this procedure therefore saves you disk space.

- 3 Perform post upgrade steps to complete moving from the test version to the upgraded production version.

Step 1: Ensure the installation library is on the computer

Because this scenario presumes that you have upgraded to a test version of the new release, installation library *xxrrmmaabb* should be on your System i computer.

If you cannot find the library restored to the System i computer or have inadvertently deleted the installation library, perform the following steps to restore the library from the media shipped with this new release:

- 1 Sign on as **AM2000** and go to a command line.
- 2 Load the CD with *xxrrmmaabb* in the CD drive.
- 3 Use the following command to restore the installation library, substituting the appropriate product designator such as GL or PM, the appropriate release and modification number such as 131, and your device name where applicable. Check the installation details for the exact library name. Some applications add a “G” for general availability release after the *rrm*.

```
RSTLIB SAVLIB(xxrrmmaabb)  
DEV(device-name) VOL(*MOUNTED)  
MBROPT(*ALL)  
RSTLIB(xxrrmmaabb)
```

Example for Infinium GL Release 13.1 using the OPT01 CD drive:

```
RSTLIB SAVLIB(GLINS131G)
DEV(OPT01) VOL(*MOUNTED)
MBROPT(*ALL)
RSTLIB(GLINS131G)
```

The qualifier at the end of this command ensures that you remove the release/mod extension and a possible G extension from the shipped library name just as the automated restoration process does during the installation process.

- 4 Press Enter after typing the command.

Step 2: Execute *Install Product Libraries* function for database library

To upgrade the production database from the prior release to the new release, perform the following steps (you will handle the program library in a post upgrade task):

Procedure

- 1 From the Infinium AM main menu, select *AM Utilities*.
- 2 Select *Install Functions*.
- 3 Select *General Install Functions*.
- 4 Select *Install product libraries*.

The system bypasses the AM Build phase of installation and goes directly to the prompt for the installation library.

- 5 Specify the installation library that you ensured was on the System i computer during the first step of this process, such as GL13010000.

Press Enter to continue.

- 6 At the Upgrade Existing Software screen, the system lists only libraries that are at the previous release level.
 - Deselect the program library by blanking out the X in the *Opt* field next to that library. You will handle the program library later, to avoid creating multiple program libraries at the same release.

- Select the Database Library by keeping the **X** in the *Opt* field next to that library. Keep ***SAME** in the *To library* column.

Refer to the appropriate *Infinium xx Release Installation Details* document for information about other libraries.

- 7 Press Enter to continue through the remainder of this function, specifying batch installation and confirming the installation parameters as usual. Check the reports as usual.

Note: For more information about the screens in this process, refer to the chapter on direct upgrade of Version 000 earlier in this guide.

Results

The result is Version 000 with the program library still at the previous release level (you work with it later) and the database library upgraded to the new release level. Both libraries retain their old names.

Note: The effect on the old database depends on the individual application. The following are typical:

- All Infinium applications except Infinium AR, Infinium CM, Infinium FP, and Infinium GT

The system has typically used the Change Physical File command to upgrade the Version 000 database library to the new level directly.

- Infinium AR, Infinium CM, Infinium FP, and Infinium GT

The system has typically renamed the Version 000 database library by appending OLD, OL, or the old release number. The system has then installed the new database library at the new release and copied your Version 000 database data into the new database library.

Continue to the next topic for the remaining tasks.

Step 3: Post upgrade tasks to complete moving to Version 000

Rename program libraries for Version 000

At this point, Version 000 still has a program library at the prior release level and the test version has the program library at the new release level.

To upgrade Version 000 to the new program release level without creating a duplicate program library on your system, perform the following steps:

- 1 Rename the prior release Version 000 program library by appending OLD or the old release number to the library name.

For example, if the Version 000 program library has the standard default name `xx2000`, rename `xx2000` to `xx2000OLD`. If you prefer to keep track of the library release levels and you are upgrading for example from Infinium GL 12.3 to 13.1, you can rename the library `GL2000` to `GL2000_131`.

- 2 Rename the new release level program library associated with the test version to the name you use for Version 000. The standard Version 000 name is `xx2000`.

For example, if the test version has `xx2000_rrm` indicating the new release level (such as `GL2000_131`) and your Version 000 library list references `xx2000` (such as `GL2000`), rename `GL2000_131` to `GL2000`.

The result of these two steps is to make the new upgraded program library the library used by Version 000 while keeping an old copy of the old Version 000 program library for reference.

Update system and version data

Caution: This step is extremely important for avoiding job control problems.

Perform the steps below to change the Version 000 release and modification to the new release level.

- 1 Sign on as **AM2000** and select *Systems and Versions*.
- 2 Select the application with **5** and press Enter to display the system definition.
- 3 To ensure the integrity of your versions, you set every non-000 version that is at a prior release to having a version menu, not a system menu. Otherwise, you risk losing members of the older release.

Ensure versions at old release have version menus

- 1 Press F7 on the System Definition Maintenance screen to display the System Version Maintenance screen. Change each older release version that has a system menu to having a version menu by typing **8** in the *Opt* field next to the version and pressing Enter. The system changes the value and remains at the version screen.
- 2 When you are finished working with the versions, press F3 to return to the System Definition Maintenance screen.

Change Version 000 release and modification to new level

- 1 At the System Definition Maintenance screen, change the values in the Version 000 *Rls* and *Mod* fields to the new release level.
- 2 Remain at this screen for the next task.

Check Version 000 library list

At the System Definition Maintenance screen, perform the following steps to check the Version 000 (system) library list and ensure that the list has the correct program and database library names:

- 1 Press F14 to work with codes.
- 2 At the list of codes, select *Library list variables* with any character or number and press Enter to display the library list.
- 3 Review and if necessary update the library list.
- 4 Press F3 as often as necessary to return to the Infinium AM main menu.

For more information about maintaining library lists, refer to the *Infinium AM Guide to Application Manager*.

Copy menu controls from test version to Version 000

The test version has the menu controls for the new release. Use Infinium AM to copy these controls to Version 000.

In our example, this means copying the controls from test Version 002 to Version 000. Substitute your own test version number for this step.

- 1 To identify the supervisor user profile that you need for this task, select *Systems and Versions* from the Infinium AM main menu, type 5 in the *Opt* field next to the appropriate system and press Enter.

The system displays the name of the supervisor user profile in the *Supervisor* field near the top of the screen.

- 2 Make a note of the name, exit back to the menu, and go to a command line.
- 3 To delete Version 000's old menu for this supervisor user profile, type the following command using the appropriate application and supervisor profile values and press Enter:

DLTAMMNU SYSD(xx) SYSV(000) USER(profilename)

Example for Infinium GL and a GLSUPER supervisor user profile:

DLTAMMNU SYSD(GL) SYSV(000) USER(GLSUPER)

The remaining steps are to copy the new menu from the test version to Version 000 for this supervisor user profile.

- 4 At the Infinium AM main menu, select *AM Utilities*, *System/Version*, and *Copy menu to user*.
 - 5 At the Copy Menu (CPYMNU) screen specify the following:
 - In the *From System Designator*, *From Version*, and *From User* fields, type the application code such as **GL**, the test version number such as **002** in our example and the supervisor user profile name.
 - In the *To System Designator*, *To Version*, and *To User* fields, type the application code such as **GL**, version **000**, and the supervisor user profile name.
- Note:** You can press F11 to toggle the screen display to view either the field keywords or field value ranges.
- 6 Press Enter to submit the copy process.

Copy printer controls to Version 000

To copy the printer controls from the test version to Version 000, perform the following steps:

- 1 From the Infinium AM main menu, select *AM Utilities*.
- 2 Select *Printer Control*.
- 3 Select *Copy*.
- 4 At the Copy Printer Controls (CPYPRTCTL) screen, specify the following:
 - In the *From System Designator* and *From Version* fields, type the application code, such as **GL**, and the test version number, such as **002** in our example.
 - In the *To System Designator* and *To Version* fields, type the application code, such as **GL** and version **000**.
- 5 Press Enter to begin the copy process.

Copy user defined job controls from old release to new release

To copy new user defined controls from the prior release to the new release, perform the steps below. The system copies only job controls that do not exist on the target version.

- 1 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 values in the *System*, *From Release*, and *From Modification* fields to identify the source from which you are copying the user-defined job controls.

Also type the name of your current Infinium AM platform library in the *From Library* field.

- 6 Type values in the *To Release* and *To Modification* fields to identify where you want to copy the Job Controls.

Also type the name of your current Infinium AM platform library in the *To Library* field.

- 7 Press Enter to execute the command. The system provides a report identifying the copied job controls.

Update user-defined user or group menus

If you have user-defined user or group menus, refer to the appropriate *Infinium xx Release Installation Details* document for menu change information. This may include new menu options, the removal of menu options, or changes to menu option names.

For information on working with menus, refer to the *Infinium AM Guide to Application Manager*.

Delete the test version to save space (optional)

Once you have moved the upgrade from the test version to Version 000, you can delete the test version from your system to save space.

Use the information in this part to resolve installation issues. See Infinium AM Solution Record MS1000 for more tips about installing an Infinium application.

Media and media device issues

Device not ready

If you receive a message that the device is not ready, either the drive is not available or you have not correctly loaded the media on the drive.

Media error

If you receive a media error message, clean the media drive and retry the restoration or installation operation.

Some objects not restored

If you receive a message that a certain number of objects were restored and a certain number of objects were not restored, the system has successfully restored a library but has not restored all of the objects in that library.

Review the job log to identify the objects that were not restored. Use the **RSTOBJ** command to restore those objects.

System unable to rename an object

If the system cannot rename an object because the object is locked by another process, use the **WRKOBJLCK** command to identify the job that is locking the object. Try again when the object is no longer locked.

Library release level issues

Library not at release required for upgrade

If you receive a message that a library you selected for upgrade is not at the prerequisite release level, refer to the appropriate *Infinium xx Release Installation Details* document to identify the prerequisite levels.

Upgrade the application to the prerequisite release level before trying the upgrade again.

Subledger library not at correct release

If you receive a message that a subledger program library such as the Infinium PL program library PL2000 is not at the prerequisite release level, refer to the appropriate *Infinium xx Release Installation Details* document to identify the prerequisite subledger levels for this upgrade.

Upgrade the subledger applications to the required release levels before trying the upgrade again.

Command failure

If you receive a message that a command failed, the system has not been able to complete a standard installation step.

Review the job log to identify the command that failed. Repeat execution of the application installation function.

If the system repeats the error, report the issue to Customer Support.

Object not found

If you receive a message that object xxxxx of type yyyyy was not found, the installation process was unable to find a specified object that is required for a successful installation. Consider the following:

- Ensure that the object exists.
- If the object does not exist, determine whether you skipped a step during the installation process and whether your current libraries are at the correct release levels.
- If the object exists, ensure that you are authorized to access the object.

Installation report issues

Report has characters other than asterisks

Sometimes the report may contain unusual characters such as pound signs in the left column where asterisks could appear.

These characters do not indicate an error. They result from how a message is built and how the printer prints an attribute.

Only an asterisk (*) indicates an error.

System does not correctly print report

If the report is missing the header, the lines, or both, you probably have printer file parameter problems.

After the system has produced reports, you cannot reproduce these reports without re-installing the software.

If you repeat the installation process, use the following command at a command line to change the printer file parameters in the AM2000 library to accommodate the printer that you are using:

```
CHGPRTF FILE(INTPRTF) PAGESIZE(66 132) LPI(6) CPI(10)  
OVRFLW(62)
```

Notes

Appendix A Installation Checklist

A red square containing a white capital letter 'A'.

Use the checklist provided in this appendix to assist with a successful installation.

Upgrade checklist

Use this checklist to ensure a successful installation of your Infinium application.

Task	Date started / initials	Date completed / initials
1 Schedule time for the upgrade.	_____	_____
2 Specify the time scheduled for upgrade:	_____	_____
3 Review the release notes to see if changes in the upgrade release affect your customized programs.	_____	_____
4 Thoroughly review the <i>Release Installation Details</i> publication. Become familiar with all installation steps, including the post-installation tasks.	_____	_____
5 Check for space. <ul style="list-style-type: none">■ If you do not have enough space on your System i, use the RSTLIB command to restore the application program library. Retrofit your customizations into the new release code.■ If you do have space, perform an upgrade installation into a test version. In addition to testing the applications, you should now retrofit your customizations into the new release code.	_____	_____
6 Delete the xxrrmmaabb and AMBLDxx999 libraries.	_____	_____

Task	Date started / initials	Date completed / initials
7 Schedule the production system upgrade. Complete this step after successful testing sign off, and/or validation of customizations over the upgrade application releases,.	_____	_____
8 Ensure that during the upgrade that the production applications are unavailable to users and there are no locks on the application-specific files and libraries. Use the IBM WRKOBJLCK command.	_____	_____
9 Restore the installation library, xxrrmmaabb, or run the installation directly from the CD.	_____	_____
10 Using the Application Installation Screen, install all applications.	_____	_____
11 Review the reports to validate that the installation was successful.	_____	_____
12 Validate library lists within <i>AM Systems and Versions</i> including the new custom library.	_____	_____
13 Complete the applicable post-installation tasks.	_____	_____

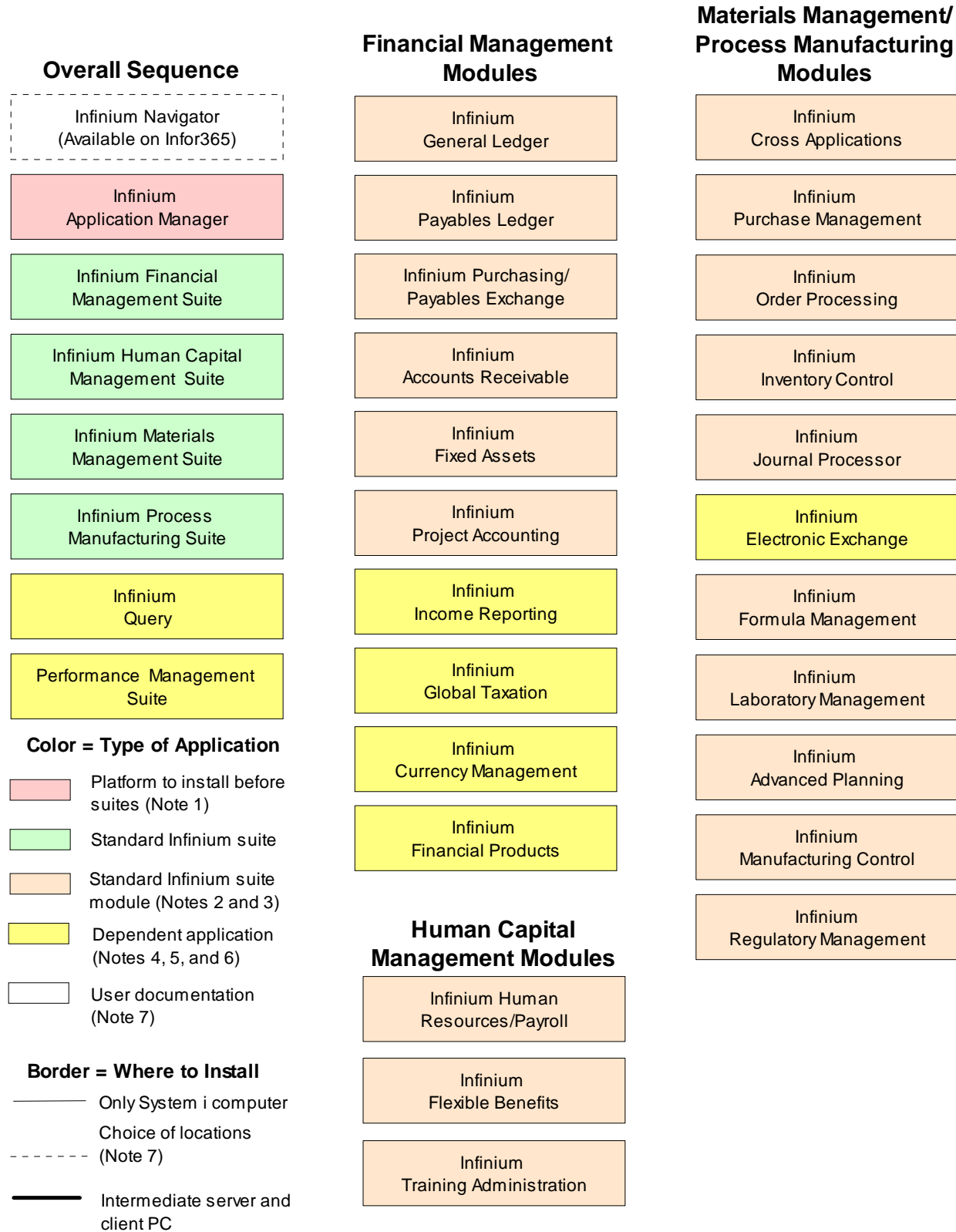
Notes

Appendix B Recommended Installation Sequence

B

This appendix contains information about the sequence in which to install Infinium applications.

Install the applications that you have in this sequence, reading top to bottom in each column beginning with the Overall Sequence column. For procedures, refer to the documents cited in the notes.



**Performance
Management Modules**

Enterprise Consolidation
for Inifinium

Enterprise Analytics
for Daily Operations

Enterprise Analytics
for FMS Inifinium

Business Intelligence
for Inifinium FM

Business Intelligence
for Inifinium HR/PY

Inifinium Analysis Manager

Enterprise Planning
for Inifinium

**Self-Service Module
on the J2EE Platform**

Infor HCM Inifinium
Self Service

Notes

The previous information summarizes the sequence that we recommend to new customers. In some cases, special instructions apply. Refer to the applicable installation instructions specified in the notes below.

We recommend that you work with your Professional Services Implementation Consultant to determine the appropriate sequence in your case.

- 1 Refer to the applicable Infinium AM installation document.
- 2 For important product and release-specific instructions, refer to the applicable release installation document. During the installation process, you can install the Web components to run the application on the Web.
- 3 If you plan to use modules from the Infinium Materials Management or Infinium Process Manufacturing suites with interfacing Infinium Financial Management modules, install the applicable interfacing modules before installing the Infinium MM and PR suites.

The interfacing Infinium FM modules are:

- Infinium General Ledger
 - Infinium Payables Ledger with Infinium Purchasing/Payables Exchange
 - Infinium Accounts Receivable
 - Infinium Global Taxation
 - Infinium Currency Management
- 4 A dependent application enhances or extends access to and use of data from one or more related database applications.
 - 5 If you plan to use modules from the Performance Management or Self Service suites, you can install these modules anytime after installing their associated core applications.
 - 6 The Infor HCM Infinium Self Service module is also referred to as the SHCM application.
 - 7 You can install the Infinium Navigator files on a server accessible to users and install the reader on each user's personal computer.

You can install the reader and the Infinium Navigator files onto each user's personal computer hard drive for direct access.
