Infor ERP Baan 5.0b/ 5.0c

Technical Notes Porting Set 7.1d.16

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About this Guide

This document provides Technical Notes to inform users about porting set 7.1d.16 for Infor ERP Baan 5.0b/5.0c.

This document contains the following chapters:

Chapter 1, “Introduction,” provides several end-of-service notifications, and describes hardware support for Infor ERP Baan.

Chapter 2, “Operating System Notes,” provides notes and additional information for the various operating systems on which Infor ERP Baan can run.

Chapter 3, “RDBMS Notes,” provides information on the various RDBMSs that Infor ERP Baan supports.

Chapter 4, “Java Notes,” provides information for users who run Infor ERP Baan on Java.

Chapter 5, “New Features,” lists the various new features available in porting set 7.1d.16.

Chapter 6, “Upgrade Remarks/Known Issues,” provides information on how to upgrade from previous porting sets and lists several known issues that you can encounter while you perform an upgrade.

Chapter 7, “Enable Licensing by means of Infor Solution License Manager”, describes the process to install and enable Infor Solution License Manager, the strategic license manager for Infor applications.

Send us your comments

We continually review and improve our documentation. Any remarks/requests for information concerning this document or topic are appreciated. Please e-mail your comments to documentation@infor.com.

In your e-mail, refer to the document code and title. More specific information will enable us to process feedback efficiently.

Chapter 1
Introduction

1

Main stream porting set continued on porting set version 8

With the introduction of porting set 8.2b for Infor ERP Baan 5.0b and 5.0c, version 8 have now become the mainstream porting sets. An upgrade document is now available on the Infor365 support site, available via solution 105618

Take note that porting set 7.1d.16 is the last porting set provided based on the 7.1d code base for the following platforms:

- HP-UX, both PA-RISC and IA64
- AIX
- Solaris
- Windows
- RedHat
- Suse
- Reliant Unix
- Dynix PTX

Customers on these platforms will need to upgrade to the 8 porting set.

The support for IBM i5/OS and HP Tru64 will continue on the 7.1d code base.

End-of-service notifications

The support described in this document is restricted to the support the actual vendor supplies. Infor, for example, provides support for Microsoft Windows 2003 on this porting set, as long as Microsoft provides mainstream support for Windows 2003.

The following sections list end-of-service notifications for a number of products.

Oracle 9.2

July 1 2007, Oracle 9.2 premium support is ended by Oracle. Customers are advised to plan upgrade to a later version.

Business Objects Crystal 10

June 8 2007, Crystal 10 support is dropped by Business Objects. Customers are advised to plan migration. Business Objects XI is the follow-up product, but be aware that it's only supported via the 8 porting set.

Hardware support

Infor ERP LN solutions, including ERP Baan 5.0c, are supported on Intel and AMD based x86, AMD64, and EM64T under the following conditions:

- The operating system must be an ERP LN-supported platform.

  Note: Infor currently supports the 32-bit variants of Windows. For Linux RedHat and Suse, both 32 and 64 bit are supported. Be aware that ERP Baan 5.0c is a 32-bit application, and therefore requires the 32-bit clients of the selected database.

- The operating system vendor must support the hardware.

  The chosen hardware must minimally support the SSE2 instruction set, which is common for modern processors.

  Note: Make sure other required software, such as RDBMS, is supported on the platform of your choice as well.

  For Windows, refer to the Microsoft HCL list: http://www.microsoft.com/whdc/hcl/default.mspx

For Suse Linux, refer to Novell's hardware requirements:
http://www.novell.com/products

Infor cannot guarantee that the information will be available on the provided links. These links are provided here purely for your convenience.

Chapter 2
Operating System Notes

2

This chapter describes the operating system and database combinations that are supported to deploy Infor ERP Baan 5.0b and 5.0c.

Some porting sets require minimum runtime patches for the OS compiler. Solution 205538 provides basic information on your current runtime patch level.

HP PA-RISC HP-UX

Supported:

- HP-UX 11i v1, v2

Supported RDBMS:

- Oracle 10.1, 10.2 (level 2)
- Informix IDS 7.31, 9.40, 10 (level 1 and level 2)
- DB2 UDB 8.1, 8.2 (level 2 and Infor ERP Baan 5.0c only)

Required OS patches

For 7.1d.12 or later, you must install HP-UX patch PHSS_33032 for HP-UX 11.00 and PHSS_33033 for HP-UX 11.11.

7.1d.11 was the first porting set built based on HP aC++ A03.63. Be sure to install, at a minimum, the runtime patches for compiler version A03.63 for HP aC++. See the following link:

http://h21007.www2.hp.com/dspp/tech/tech_TechSoftwareDetailPage_IDX/1,1703,1743,00.html

In addition, Infor recommends that you install the core patches distributed on the extension software media.

If you use the Java interface, for example, when you use Infor Integration, check the following link for patches:

http://www.hp.com/products1/unix/java/patches/index.html

Java enabling

The process to enable Java 1.4, which is similar to the process to enable Java 1.5, consists of the following steps:

1. Make sure the LD_PRELOAD is set. You can arrange this in the following way:
   - Create a script “bshell_j14” in folder $BSE/bin with the following content:

     ```
     #!/bin/ksh
     export LD_PRELOAD=/opt/java1.4/jre/lib/PA_RISC2.0/hotspot/libjvm.sl
     $BSE/bin/bshell6.2 $@
     ```

   - Create a new bshell entry in the $BSE/lib/ipc_info like bshell_j14 that points to the script. To do so, simply copy the bshell entry and change the entries, for example:
     bshell_j14 s 0 0 p ${BSE}/bin/bshell_j14.
   - Make sure the bshell name in the BW configuration is bshell_j14.
2. Make sure the file ${BSE}/java/jvm_options exists and contains -Xusealtsigs.
3. Ensure that SHLIB_PATH in ${BSE}/lib/bse_vars points to the Java 1.4 libraries:
   SHLIB_PATH=/opt/java1.4/jre/lib/PA_RISC2.0:/opt/java1.4/jre/lib/PA_RISC2.0/hotspot:/opt/java1.4/jre/lib/PA_RISC2.0/native_threads
4. For Java 1.5 users:
   Run the following command once against $BSE/bin/bshell6.2:

   ```
   chatr -B deferred -B nonfatal bshell6.2
   ```

   This command requires that no bshells be running. Note that no locks are permitted during execution.

HP IA64 HP-UX

Supported:

- HP-UX 11.23

Supported RDBMS:

- Oracle 10.1, 10.2 (level 2)
- Informix IDS 9.40, 10 (level 2)

Infor ERP Baan 5.x environment from another operating system to HP Itanium

Note: This section is not relevant if you use Infor Solution License Manager.

If you move an existing ERP Baan 5.x environment from another operating system to HP Itanium, the use of this porting set requires a license key. Solution 143963 provides a correction program to add the related commercial function.

Be sure to install solution 143963 and run the correction program before you move the BSE environment, because you cannot perform the installation afterwards due to the required license key.

Required OS patches

7.1d.15 was the first porting set built based on HP aC++A6.13. Be sure to install as a minimum the *runtime* patches for compiler version A6.13 for HP aC++.

www.hp.com/go/cpp (runtime patches are described in green)
Select 'Latest Version and patch information'
PHSS_34860 linker + fdp cumulative patch

PHSS_34853 libm cumulative patch

PHSS_34441 or PHSS_35055.
patch fix list aC++ runtime patch

PHSS_35753 u2comp/be patch

PHSS_34859 unwind library cumulative patch

If you use the Java interface, for example, when you use Infor Integration, check the following link for patches:

http://www.hp.com/products1/unix/java/patches/index.html

Java enabling

The process to enable Java 1.4, which is similar to the process to enable Java 1.5, consists of the following steps:

1. Make sure the LD_PRELOAD is set as follows:
   - Create a script “bshell_j14” in folder $BSE/bin with the following content:

     #!/bin/ksh
     export LD_PRELOAD=/opt/java1.4/jre/lib/IA64N/hotspot/libjvm.so
     $BSE/bin/bshell6.2 $@

   - Create a new bshell entry in the $BSE/lib/ipc_info, such as bshell_j14, that points to the script. To do so, simply copy the bshell entry and change the entries, for example:

     ```
     bshell_j14      s    0    0  p  ${BSE}/bin/bshell_j14
     ```

   - Make sure the bshell name in the BW configuration is bshell_j14.
2. Make sure the file ${BSE}/java/jvm_options exists and contains -Xusealtsigs.
3. Make sure LD_LIBRARY_PATH in ${BSE}/lib/bse_vars points to the Java 1.4 libraries:

   LD_LIBRARY_PATH=/opt/java1.4/jre/lib/IA64N:/opt/java1.4/jre/lib/IA64N
   /hotspot:/opt/java1.4/jre/lib/IA64N/native_threads

HP Alpha Tru64

Supported:

- Tru64 5.1b-2, 5.1b-3, 5.1b-4

Supported RDBMS:

- Oracle 10.1, 10.2 (level 2)
- Informix IDS 7.31, 9.40, 10 (level 1 and level 2)

Required OS patches

Porting set 7.1d.12 is the first porting set built on HP C++ V7.1. Ensure that the required patches for your Tru64 version are installed.

If you require a newer C++ redistribution kit, check the following link. The redistribution kit must be compatible with version 7.1.

ftp://ftp.compaq.com/pub/products/C-CXX/tru64/cxx/CXXREDIST.HTM

Before you use the combination HP Tru64/ Informix 7.31, be sure to install Informix patch IDS 7.31.FD1 or later.

Java enabling

You must add the native_threads java library directory to the library path.

Linux x86 SuSe

Supported:

- SuSe SLES 8, 9

Supported RDBMS:

- Oracle 10.1, 10.2 (level 2)
- Informix IDS 9.40, 10 (level 2)

Informix IDS 9.40 requires a minimum of Suse 8 Service Pack 3.

Informix IDS 10 requires a minimum of Suse 9.

If you create an account on your operating system that will serve as an Informix account, do not use a capital letter as the first letter for the password. The Informix binary cannot process a password that starts with a capital letter.

To move an existing Infor ERP Baan 5.0b/c environment from another operating system to Linux

Note: This section is not relevant if you use Infor Solution License Manager for validating the ERP 5.0 environment.

To move an existing ERP Baan 5.0b/c environment from another operating system to Linux, before you move the BSE environment, be sure to install solution 145335 and run the correction program. You cannot install the solution afterwards due to the required license key.

Linux x86 RedHat

Supported:

- RedHat Enterprise 4

Supported RDBMS:

- Oracle 10.1, 10.2 (level 2)
- Informix IDS 9.40, 10 (level 2)

If you create an account on your operating system that will serve as an Informix account, do not use a capital letter as the first letter for the password. The Informix binary cannot process a password that starts with a capital letter.

To move an existing Infor ERP Baan 5.0b/c environment from another operating system to Linux

Note: This section is not relevant if you use Infor Solution License Manager for validating the ERP 5.0 environment.

To move an existing ERP Baan 5.0b/c environment from another operating system to Linux, before you move the BSE environment, be sure to install solution 145335 and run the correction program. You cannot install the solution afterwards due to the required license key.

IBM Power5 AIX

Supported:

- AIX 5L 5.2 and 5.3

Supported RDBMS:

- Oracle 10.1, 10.2 (level 2)
- Informix IDS 7.31, 9.40, 10 (level 1 and level 2)
- DB2 UDB 8.1, 8.2 (level 1 and level 2)

Required OS patches

7.1d.13 is the first porting set built based on XL C/C++ ED V8.0. Make sure the required XL C/C++ Enterprise Edition V8.0 library patches are installed:

http://www-306.ibm.com/software/awdtools/xlcpp/support/

Java enabling

Make sure the file ${BSE}/java/jvm_options exists and contains the following:

-Djava.compiler=NONE.

IBM iSeries i5/OS

Supported:

- OS400 i5/OS V5R3, V5R4

Supported RDBMS:

- DB2 integrated version (level 1 and level 2)

Required OS patches

To run on V5R3, you must install PTF pack 4272.

To run on V5R4, you must install PTF SI22389, the cover letter of the same is:

APAR#	II14151
Component	INFOAS400 - AS/400 Information
Releases(s)	R540

Java enabling

Make sure the file ${BSE}/java/jvm_options exists and contains the following:

-Djava.version=1.4 or 1.5 (as applies to your Java version).

Sun Sparc Solaris/Fujitsu Siemens Sparc Solaris

Supported:

- Solaris 9 and 10

Supported RDBMS:

- Oracle 10.1, 10.2 (level 2)
- Informix IDS 7.31, 9.40, 10 (level 1 and level 2)
- DB2 UDB 8.1, 8.2 (level 2 and Infor ERP Baan 5.0c only)

If you use bshellxma6.2, or other XMA related binaries (csapi_compiler, idl_compiler), make sure the related patches (or successors) are installed:

http://docs.sun.com/source/817-0642/patches.html

Required OS patches

Porting set 7.1d.11 is the first porting set built on Sun Studio 10. Make sure the required patches for your Solaris version are installed:

http://developers.sun.com/prodtech/cc/downloads/patches/ss10_patches.html

For Solaris 8, make sure the following Sun OS patches are installed:

- Patch 109147
- Patch 108434
- Patch 108827

If you use bshellxma6.1, refer to the following link and make sure the related patches are installed:

http://docs.sun.com/source/817-0642/patches.html

Java support

Make sure the file ${BSE}/java/jvm_options exists and contains the following:

-Xusealtsigs

In addition, make sure the ${BSE}/lib/bse_vars points to the Java libraries.

Microsoft x86 Windows

Supported:

- Windows 2003 SP1, SP2 + R2

Note: R2 WinDefender may detect the rexecd.exe as potential malicious software.

Supported RDBMS:

- Oracle 10.1, 10.2 (level 2)
- Informix IDS 7.31, 9.40, 10 (level 1 and level 2)
- DB2 UDB 8.1, 8.2 (level 1 and level 2)
- SQL Server 2000 (level 1 and level 2)

Java support

Microsoft has announced plans to discontinue support of the Microsoft Java Virtual Machine. For more information, refer to:

http://www.microsoft.com/mscorp/java/

For this reason, the porting set has been extended with Sun JRE support on Windows.

Both Microsoft JVM and SUN JRE will be supported for a short period to enable a smooth transition.

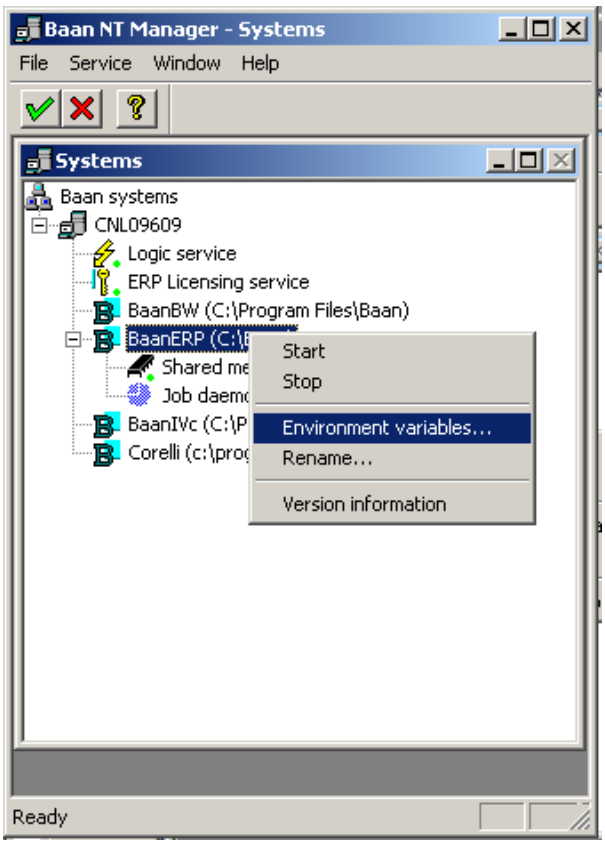
Support for Microsoft JVM will be removed in a future release of the porting set, according to the end of support by Microsoft.

To enable the Sun JRE, take the following steps:

1. Install the Sun JRE.
2. Make sure the **System Environment PATH** variable contains the following paths:
   - Required path of the JRE, for example:
     <*JRE install dir*>\bin
   - Required path of the jvm.dll, for example:
     <*JRE install dir*>\bin\client
   - C:\Baan\shlib #, assuming a default installation of ERP Baan.

- C:\Baan\bin #, assuming a default installation of ERP Baan.

Note: To activate these variables, you must restart the ERP Baan environment. To avoid a Windows reboot, you can add or adjust the PATH variable to the environment variables in the Baan NT Manager:



3 Configure the use of the Sun JRE for the ERP Baan environment in one of the following ways:

- Add use_msjava_dll:0 to the $BSE\lib\defaults\bshell file

  Or:

- Use USE_MSJAVA_DLL=0 as the environment variable.

4 Set the variable to **1** or remove the variable to enable the use of the MSJVM, because the default value is **0**.

Fujitsi Siemens MIPS Reliant UNIX

A version of this porting set for Reliant UNIX is available on request.

Supported:

- Reliant UNIX 5.45

Supported RDBMS:

- Informix IDS 7.31, 9.40

MIPS Reliant UNIX is nearing the end of its lifecycle. Because new technologies are no longer enabled on Reliant UNIX, Infor can no longer deliver new functionality for this platform. As a result, only maintenance support for this platform will be available for customers who use this platform.

IBM x86 Dynix PTX

A version of this porting set for Dynix PTX is available on request.

Supported:

- Dynix 4.4.9, 4.4.10, 4.5.2, 4.5.3, and 4.6.1

Supported RDBMS:

- Informix IDS 7.31

IBM x86 Dynix PTX is nearing the end of its lifecycle. Because new technologies are no longer enabled on Dynix PTX, Infor cannot deliver new functionality for this platform. As a result, only maintenance support will be available for customers who use this platform.

Chapter 3
RDBMS Notes

3

IBM Informix

Supported:

- Informix IDS 7.31, 9.40, and 10

With porting set 7.1d.11, the CSDK version used during the porting set build is changed to 2.90, with the exception of Tru64.

Informix 10, HP-UX only

It is advised to install IDS 10FC5, where available, which positively impacts performance.

Informix 9.40, Windows only

Before you start the installation, take the following steps:

1. Start Regedit.
2. Go to hkey_local_machine\\software\\informix\\online\\ <*$informixserver*>\\environment
3. Make the following string value:

   INFORMIXSQLHOSTS=\\<*server name*>

   The problem is caused by the Informix software and will be resolved in a future Informix 9.40 release.

Oracle database

Supported:

- Oracle 9.2, 10.1, 10.2

Supported: Standard Edition One, Standard Edition, and Enterprise Edition

ERP Baan 5.0c installation media for Windows is not currently adjusted to support Oracle 10 installations.

Oracle 9.2.0.2

If you install Oracle 9.2.0.2, be sure to also install the Oracle patch 3871601.

Microsoft SQL Server

Supported:

- SQL Server 2000 SP3a and SP4

IBM DB2

Supported:

- DB2 V8.1, 8.2, 9

It is advised you not to install Fix Pack 9, 10, and 11, because in some situations these can lead to an error “db2 error sqlcode -99999][CLI Driver] CLI0125E.”

DB2 V8: Fixpack 12, 13, 14 and 15 pasted internal tests.

DB2 V9: Fixpack 3 pasted internal test

Make sure the shared library search path of the environment points to the DB2 libraries:

Platform	Shared Library Environment Variable
Solaris	LD_LIBRARY_PATH
AIX	LIBPATH
HP-UX	SHLIB_PATH
Windows	PATH

Chapter 4
Java Notes

4

Java options

It is recommended that you raise the maximum heap size. To do so, set the following value in $BSE/java/jvm_options:

-Xmx256m

Supported Java versions

For this porting set, J2SE 1.4.2.x is the recommended version. It is advised to use the latest available minor set of a Java version.

If the vendor no longer supports a specific J2SE version, Infor support is also discontinued.

The Sun JRE is the preferred Java interface for the Windows platform.

OS	Java 1.4.2	Java 1.5
HP Alpha Tru64_Unix	Yes	Not available
HP PA-RISC HP-UX	Yes	Yes
HP IA64 HP-UX	Yes	Yes
Linux x86 RedHat	Yes	Yes
Linux x86 Suse	Yes	Yes
IBM Power5 AIX	Yes	Yes
Microsoft x86 Windows[1]	MS JVM 3167 and higher	
Microsoft x86 Windows[1]	Sun JRE (recommended)	Sun JRE (recommended)
Sun SPARC Solaris	Yes	Yes
IBM iSeries i5/OS	Yes	Yes

[1] For details, refer to “Java Support” under “Microsoft x86 Windows,” in the “Operating System Notes” chapter.

Chapter 5
New Features

5

7.1d.13 features

Informix: update statistics

The Informix driver now automatically updates the IDS statistics, which provides a positive impact on database performance.

7.1d.12 features

Adjustable log size

By default, the size of the log files in $BSE/log is 512 kilobytes (KB). If the log file exceeds this size, the log file switches to type **olg** and starts to write from scratch.

With the newly introduced resource log_size, you can adjust the size of the log files. The default value is **512**.

JVMI version

To view the JVMI version, use the following command:

```
java -cp bjvmi.jar BJVMIVersion.\
```

Chapter 6
Upgrade Remarks/Known Issues

6

7.1d.15

PAM support

Customers requiring PAM support (Pluggable Authentication Modules) will need to move to the porting set 8 version.

7.1d.14

bdbpre/post

-q option is removed because it was a redundant option.

dpt6.2 and kermit6.2 binary removed

dpt6.2 and kermit6.2 are removed from the porting set delivery

To upgrade from a porting set prior to 7.1d.13

UNIX: baan login daemon

This topic is intended only for Unix/Linux users who use the blogind6.2.

Before you start the blogind6.2, be sure to run the following command:

unset USER

You can add this command to the $BSE/etc/rc.start_blogind script.

Failure to run this unset USER command before starting the blogind6.2 leads to error “1: Not authorized to run as user 'root'” when users attempt to log on to the ERP environment.

Java: Crashes JIT compiler

If the JIT compiler stops responding when you use the Java interface, it is recommended that you disable the JIT compiler.

To do so, set the following value in $BSE/java/jvm_options:

Djava.compiler=NONE

Oracle 10.2

The first time you use Oracle 10.2, you can receive a message that the shared libraries are unavailable. In this case, check the file permissions for group **Others** in the Oracle install directory settings, particularly the lib and client directories.

To upgrade from a porting set prior to 7.1d.12

Development requires SLM

If the Baan 5.0 environment is used to develop scripts, porting set 7.1d.12 and later versions require the installation of SLM. SLM is required to perform the license check on source code licensing.

To upgrade from a porting set prior to 7.1d.11

New bic_include file

If you have porting set 7.1d.11 or later, you must also install the bic_include files provided in solution 114812.

Range expression validation

With porting set 7.1d.11, the validation of domain range expressions has been extended with additional logging.

Previously, the porting set tolerated particular domain range constructions, which, in fact, are incorrect and can lead to behavior other than that intended by the developer.

The validation of domain ranges is now improved to report erroneous range definitions.

Examples of reported range definitions include:

- **[c-a]**
  This range definition is reported as a problem because, obviously, ‘a’ comes before ‘c’ in the alphabet. At runtime, only ‘c’ will be selected.

  Using **[a-c],** the developer receives the range of A, B, and C. The expression to specify ‘a’, ‘c’, or a hyphen is:

  [c\-a] or **[-ac]**

- **[_-.]**
  Again, in the range, the dot comes before the underscore. At runtime, only the underscore is selected.

  Using **[.-_],** the developer selects the range of dot through underscore.

  Or:

  If, perhaps, the user wants to have the selection of dot, underscore, and dash, the user can use: **[_.\-]**, translated as [underscore dot backslash dash].

Because a dash is a special character, in the range definition, the dash is preceded by a backslash to indicate that the character must be handled as a range character.

Erroneous range definitions are reported as a domain: range expression error 60.

HP-UX: PA-RISC and IA64: Java 1.4

Previously, the user was required to reset the LD_PRELOAD variable by means of the BW configuration:

- Make sure the BW configuration is: -set LD_PRELOAD=""

This requirement now no longer applies, because the bshell can now handle this setting.

You can, however, still safely reset the LD_PRELOAD variable by means of the BW configuration.

To upgrade from a porting set prior to 7.1d.09 [UNIX]

This porting set requires that you regenerate the file $BSE/lib/shm_param, which is a shared memory-related parameter file.

To regenerate this file, take the following steps:

1. Move the $BSE/lib/shm_param.
2. Install the porting set. The installation automatically creates a new $BSE/lib/shm_param file.
3. Repeat the shm_param file, if you manually adjusted the file in the past.

   If you install the porting set without this precaution, you run the risk that your shared memory will not start. In that case, take the following steps:
4. Create a backup of $BSE/lib/shm_param, for instance, by means of:

   cp $BSE/lib/shm_param $BSE/lib/shm_param_<*date*>
5. Run shm_values6.2 > $BSE/lib/shm_param.
6. Adjust the shm_param if you manually adjusted the shm_param previously.
7. Restart your ERP environment.

To upgrade from a porting set prior to 7.1d.09 [Oracle with Solaris/Tru64/HP-UX PA-RISC]

For the Solaris, HPTru64, and PA-RISC HP-UX operating systems, the binding with the oracle client changes from static to shared-library based.

The advantage is that you can now use the Oracle client appropriate to your environment, rather than depend on the client libraries used during the build of this porting set.

To prepare your environment, if Oracle runs on a system other than ERP, take the following steps:

1. Prepare the Oracle connection from the ERP system to the Oracle instance.

2. Ensure that the appropriate Oracle client is installed on the ERP system.
3. Configure OracleNet on the ERP system to point to your Oracle instance.
4. Check if this connection is working on the ERP system, for example, by means of sqlplus, to connect to your Oracle instance.

   In all cases:

5. If you made manual changes to $BSE/lib/ora/oracle_home, make sure these are reflected in the configured oracle communication.
6. Run $BSE/bin/ora_update. This script removes $BSE/lib/ora/oracle_home and performs other adjustments.
7. Test the environment.

Printer daemon on AIX

To enable ERP Baan 5.0c users to print by means of the AIX printer daemon, make sure that users **root** and **lpd** are added to the group **bsp** in /etc/group and restart the pdaemon.

HP-UX: host name length limited to a maximum of 20 characters

HP-UX 11.23.05.05 and later support extended host-name lengths.
ERP Baan 5.0c does not support host names in excess of 20 characters in length.

For development environments

Make sure solution 114812, the general solution for bic_include files, is installed.

To uninstall a porting set or replace the porting set with a previous version

For information on how to uninstall or overwrite a porting set with a previous version, check solution 123645.

Chapter 7
Enable Licensing by Means of Infor Solution License Manager

7

The strategic license manager for Infor applications is Infor Solution License Manager (SLM). Therefore, ERP Baan 5.0b/c applications can be licensed by means of this License Manager, as well, which provides a successor for the Baan license daemon. This enables customers to maintain their Infor licenses from a central point.

This chapter describes the procedure to install and enable Infor Solution License Manager.

Prerequisites

Porting set

Before you install any PMC solutions described in this chapter, make sure you have porting set 7.1d.12a or later installed.

Note: The combination of porting set 7.1d.11 with solution 208075 requires SLM enabling. Therefore, for best results, install 208075 after you upgrade to porting set 7.1d.12a.

Infor Solution License Manager

The minimal License Manager version is SLM 2.5.

Procedure

The process to enable license validation by means of Infor SLM consists of the following general steps, each of which is described in more detail in the subsequent sections:

1. Prepare License Manager:
   a. Install the SLM server.
   b. Install the SLM client.
   c. Configure and activate the license manager.
2. Prepare the ERP Baan environment for SLM licensing:
   a. Install porting set 7.1d.12a or later.
   b. Install the PMC solutions with the appropriate security files.
3. Enable the license manager.
4. Test the license validation process.

Prepare License Manager

For more information, refer to the *License Manager Installation and Configuration Guide*.

Install the SLM server

If you already have an SLM server available in your environment, you can skip this step.

Otherwise, determine if you want to set up the SLM server in a cluster setup, for availability reasons, and decide where you want to deploy the SLM servers. You can install the SLM server on the same host on which ERP Baan resides.

Install the SLM servers on the appointed machines.

Install SLM client

Install the SLM client on the ERP Baan host and configure the connection to the SLM servers.

Non Windows environments

Add the following line to the $BSE/lib/bse_vars:

BAANHOME=/usr/baan/shared

Define here the SLM client installation directory.

ERP Baan uses this information to locate the SLM client software.

Configure and activate Infor Solution License Manager

Before your ERP Baan environment is licensed by means of SLM, you must configure the SLM product IDs and request an activation key from Infor Validation.

The *License Manager Installation and Configuration Guide* provides detailed information on how you can configure and activate SLM.

The following table lists the product IDs you must use to enable ERP Baan 5.0 licensing:

Infor ERP Baan 5.0 Application	Named/concurrent user	7099	Application licensing of ERP 5.0b/5.0c and 5.1, including localizations
Infor ERP Baan 5.0 Runtime tools	Named/concurrent user	7100	Tools licensing for ERP 5.0b, 5.0c. and 5.1 tools
Infor ERP Baan 5.0 Development tools	Named/concurrent user	7101	Tools development licensing for 5.0b/5.0c and 5.1 tools
Infor ERP Baan 5.0 Application Sources	Server	7098	Source license for 5.0b, 5.0c, and 5.1, including localizations

Whether the products in the table require a named or a concurrent user license depends on the contract you have. If you need a named user license, loading user names from Infor ERP Baan into the license server can be helpful. For more information, refer to the “Depreciation Notes” chapter.

Prepare the ERP Baan environment for SLM licensing

Install porting set 7.1d.12a or later

A prerequisite for enabling license validation by means of Infor License Manager is that porting set 7.1d.12a or later must be available.

You can perform the porting set installation by means of the standard procedure.

Installation of PMC solutions with security files

Porting set 7.1d.12a and later requires security files to determine the product IDs during compilation of scripts or while running an object when licensed by means of SLM. Install these security files with the following PMC solutions:

- 209483
- 208075
  Of the following range, you must install this solution first. This solution has dependencies required when you install the next solutions.
- 208077

The following solutions are not required for ERP Baan 5.0b:

- 208193
- 208194
- 207584
  This solution contains the functionality described in “To upload user names to Infor Solution License Server,” later in this chapter.

To enable SLM

The default behavior of porting set 7.1d.12a is to license by means of the license daemon and not Infor Solution License Manager. To use SLM, add the following line to the file $BSE/lib/defaults/all to activate the slm_enabled resource:

slm_enabled:1

Check your installation

To check that licensing is correctly enabled, take the following steps:

1. Log on to ERP Baan and start a tools-related session. If this succeeds, product ID 7100 is correctly licensed; and, if you have named user licensing, your user name is known to the license server.
2. Start an application-related session. If this process succeeds, product ID 7099 is licensed correctly and, if you have named user licensing, your user name is known to the license server.

   Note: The following test is only required if you have a development license.
3. Start the Sessions session and insert a new session. If this succeeds, product ID 7101 is licensed correctly and, if you have named user licensing, your user name is known by the license server.

Note: The following test is only required if you have a source code license.

4 Try to compile a program script that is derived from the standard.

To upload user names to Infor Solution License Server

For named user licenses, a list of users must be maintained in the license server. However, for ERP Baan products, a list of users is also maintained in ERP Baan. This chapter describes how to retrieve a list of users from the Authorization Management System (AMS) in ERP Baan and synchronize that list with the list maintained in the license server.

To link users to product IDs

Start the SLM Product IDs by User (ttslm0130m000) session and, on the **Specific** menu, click **Link SLM Product IDs to Users** to start the Link SLM Product IDs to Users (ttslm0230m000) session. This session checks for which sessions a range of users are authorized in AMS. The product IDs required to run these sessions are stored. Rather than retrieve data from AMS, you can also link users manually to a product ID in the Link SLM Product IDs to Users (ttslm0230m000) session.

Alternatively, you can also select the **Link SLM Product IDs to Users** check box in the Convert Changes to Runtime DD (ttams2200m000) session.

Synchronize with SLM

In the Link SLM Product IDs to Users (ttslm0230m000) session, on the **Specific** menu, click **Synchronize User Data with SLM** to start the Synchronize User Data with SLM (ttslm0230m100) session. In this session, you can synchronize the list of users with the license server. Users in the range that are in the user lists for the product IDs users are assigned to on the license server will be added to that list. Users in the range assigned to a product ID on the license server, but not in the Link SLM Product IDs to Users (ttslm0230m000) session will be removed from the list on the license server.

Alternatively, you can also select the **Synchronize with SLM** check box in the Convert Changes to Runtime DD (ttams2200m000) session.