Infor ERP Baan IV / Triton 3

Technical Notes Porting Set 6.1c.11

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About this Guide

This document provides Technical Notes to inform you about the porting set 6.1c.11.

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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

For last-minute notes in regard to this porting set, check solution 15219 at the Infor365 Online Support Web site at http://www.infor365.com.

Note: On December 14, 2009, Infor introduced the new Infor Web portal for Support services, which can be found at www.Infor365.com.

To access the solution numbers referenced in this document, go to www.Infor365.com. Select Downloads – Baan from the menu, and then search for the respective solution number.

Note: Where path names are mentioned in this document, sometimes forward slashes (/) and backward slashes (\) are used. You should use backward slashes on Windows and forward slashes on UNIX and Linux.

End-of-service notifications

The support described in these notes is restricted by the support provided by the actual vendor.

For example: Infor will provide support for Microsoft Windows 2003 on this porting set as long as Microsoft provides standard support for Windows 2003.

Red Hat Enterprise Linux 4

On March 31, 2009, the Production 1 phase ended for Red Hat Enterprise Linux 4. Customers are advised to upgrade to a later version.

Platform support: x86 based

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

- The operating system must be an Infor supported platform.

Note: Check the Windows section to get specifics on 32-bit and 64-bit database support.

For Linux RedHat and Suse, both 32-bit and 64-bit OS are supported. Be aware that Infor BaanIVc4 is a 32-bit application and therefore needs the 32-bit clients of the selected database and java version.

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 the RDBMS, is supported on the platform of your choice as well.

Virtual Server support

VMware

The following statements apply to Infor BaanIV Microsoft Windows x86 distribution and Linux x86 distribution:

With porting set 6.1c.07.21 and later, distributions on VMware ESX 3.5 and ESXi 3.5 are supported for all purposes, including production. When you size the system, take the overhead of VMware ESX/ ESXi into account. For guidelines, refer to the Sizing guide.

With porting set 6.1c.07.21 and later, it is supported to run BaanIV on VMware Server for demo and test purposes. However, benchmarks show that ERP LN in OS environments directly on the hardware performs much better than ERP LN in a VMware Server environment; therefore Infor will not handle performance support calls when BaanIV runs on a VMware Server environment.

32-bit and 64-bit Windows and 32-bit and 64-bit Linux are both supported in combination with VMware.

Note: Since the Baan License daemon and Infor SLM Server (Solution License Manager) are not supported in a virtual server environment they

must be setup on a separate non-virtual server. Solution 82511 explains how to setup a remote Baan license daemon.

SLM Client is supported in a VMware environment.

Disclaimer: The previous support statements of VMware ESX/ESXi 3.5 do not extend to any third-party product. For instance, if the DBMS vendor does not support VMware ESX, the porting set is still supported on VMware ESX, but the DBMS is not. In this case, a solution is to run in 3-tier mode and configure the DBMS on another, non virtual system.

HP Integrity VM

With porting set 6.1c.07.21 or later, it is supported to run BaanIV with HP-UX on HP Integrity VM for demo and test purposes. Infor will not handle performance related inquiries about running BaanIV with HP-UX in a HP Integrity VM environment; support is limited to test and demo environments.

HP Integrity Virtual Machines with the BaanIV HP-UX IA64 distribution are supported.

Note: Since the Baan License daemon and Infor SLM Server (Solution License Manager) are not supported in a virtual server environment they must be setup on a separate non-virtual server. Solution 82511 explains how to setup a remote Baan license daemon.
SLM Client is supported in a virtual server environment.

Support matrix for Infor ERP Baan IVc4

	Supported OS	Oracle	IBM Informix IDS	IBM DB2	SQL Server	Bisam
		10.2, 11.1	**10, 11.1, 11.5**	**9**	**2005 SP1, SP2, SP3** **2008 SP1**	**2.1**
HP PA_RISC HP-UX	11i v1, v2, v3	√	√			√ [32]
HP IA64 HP-UX	11i v2, v3	10.2 [2] 11.1 [4]	10, 11 [2]			
HP Alpha Tru64	5.1b-3, 5.1b-4 5.1b-5	√	√			√ [32]
Sun SPARC Solaris	10	√	√	√ **(on request)**		√ [32]
IBM Power5/6 AIX	5.3, 6.1	√	√	√		√ [32]
Linux x86 Suse	SLES 9 SP3, 10 SP1, SP2	√ [2]	[10, 11] [2]			√ [32]
Linux x86 RedHat (same build as Suse build)	ES/AS 5	√ [2]	[10, 11] [2]			√ [32]
Microsoft x86 Windows	2003 [3] SP1, SP2 + R2 2008 [3] SP2 + R2	√ [2 32 *]	[10, 11.1] [32] **(on request)**	√[32] **(on request)**	√	

* : Oracle 64 bit is supported in 3-tier mode

[2] : Level 2 database driver only

[3] : 64-bit Windows only supported in combination with SQL Server

[4] : The 32-bit Oracle client libraries are not delivered with 11.1.0.6

Databases are supported in 32-bit and 64-bit version unless noted otherwise:
[32] : 32-bit database supported

Note: The Infor Integration Connector for ODBC and JDBC is not supported with bisam and level 1 databases.

Support matrix for Infor Triton 3

	Supported OS	Oracle	IBM Informix IDS	IBM DB2	Bisam
		10.2, 11.1	**10, 11.1, 11.5**	**9**	**2.1**
HP PA_RISC HP-UX	11i v1, v2, v3	√	√		√ [32]
HP Alpha Tru64	5.1b-3, 5.1b-4 5.1b-5	√	√		√ [32]
Sun SPARC Solaris	10	√	√		√ [32]
IBM Power5/6 AIX	5.3, 6.1	√	√	√	√ [32]
Linux x86 Suse	SLES 9 SP3, 10 SP1, SP2				√ [32]
Linux x86 RedHat (same build as Suse build)	ES/AS 5				√ [32]

Databases are supported in 32-bit and 64-bit version unless noted otherwise:

[32] : 32-bit database is supported

Naming strategy

From porting set 6.1c.08 onwards, the names of the porting set are slightly changed. The last extension of the porting set name is dropped. Therefore, the successors of porting set 6.1c.08 are 6.1c.09, 6.1c.10, and so on.

64-bit strategy

64 bit becomes the standard for operating systems, databases and server applications. Because there is already a 64-bit version of the ERP LN 6.1 porting set, which can also be used for Baan ERP 5, Infor is planning to make the ERP LN 6.1 porting set 8.xx suitable for use for Baan IV.

The 6.1c.xx porting sets

The 6.1c.xx 32-bit porting sets will be delivered for the currently supported platforms if the 8.xx porting set is not generally available for BaanIV.

When the 8.xx porting set is available for Baan IV, support via the 6.1c.xx porting set will be continued based on the customers' requirements. Any planned changes will be communicated well beforehand, taking into account customer interests.

The 8.xx porting sets

New developments, such as new platform validations, will be completed in the 8.xx porting sets.

The 8.xx porting set will support licensing based on SLM license manager. Licensing via the license daemon is not supported. Migration to the SLM license manager must be done with the 6.1c.08 (or later) porting set which supports the SLM license manager and the license daemon.

For the supported 32 bit platforms, a 32 bit porting set will be delivered as long as these platforms are standard supported by their vendors.

A Tru64 porting set will not be delivered. This support will be continued via the 6.1c.xx porting sets.

The 8.xx porting sets will not provide support for:

- bisam

- Level 1 database drivers
- Previous implementations of JVMI (JVMI-2 will be supported)
- Windows/DB2
- Windows/Informix
- Solaris/DB2

Chapter 2
Operating System Notes

2

This chapter describes which operating system and database combinations are supported to deploy Triton 3 and Baan IV.

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

You need only install the runtime patches for the compiler. The compiler itself is not needed.

HP PA-RISC HP-UX

Required OS patches

6.1c.07.14 was the first porting set build based on HP aC++ A03.73. Be sure to install, at a minimum, the runtime patches for compiler version A03.73 for HP aC++. See the following link:

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

For 6.1c.07.12 or later you must install HP-UX patch PHSS_33033 for HP-UX 11.11.

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 support: JVMI (will be deprecated in the future: see chapter 5)

To enable java 1.5:

1. Make sure the LD_PRELOAD is set. Take the following steps:
   a. Create a script, for example bshell_j15, in $BSE/bin with the following content:
   #!/bin/ksh
   export DS_AS=bshell_j15
   export LD_PRELOAD=/opt/java1.5/jre/lib/PA_RISC2.0/hotspot/libjvm.sl:/opt/java1.5/jre/lib/PA_RISC2.0/hotspot/libjsig.sl
   $BSE/bin/bshell6.1 “$@”
   b. Create a new bshell entry in the $BSE/lib/ipc_info like bshell_j15 that points to the script.

      Simply copy the bshell entry and change the entries. For example:
      `bshell_j15  s  0  0  p  ${BSE}/bin/bshell_j15`
   c. Make sure the bshell name in the BW configuration is: bshell_j15.
2. Make sure the file ${BSE}/java/jvm_options exists and contains: -Xusealtsigs
3. Make sure the SHLIB_PATH in ${BSE}/lib/bse_vars points to the Java 1.5 libraries:

   SHLIB_PATH=/opt/java1.5/jre/lib/PA_RISC2.0:/opt/java1.5/jre/lib/PA_RISC2.0/hotspot:/opt/java1.5/jre/lib/PA_RISC2.0/native_threads

   Due to a bug in Java 1.5, however, you must run the following command once:

   ```
   chatr -B deferred -B nonfatal bshell6.1
   ```

   You must run this program as root and no bshells must be running when you run this program.

HP IA64 (Itanium 2) HP-UX

Usage of this porting set requires a license key. Solution 146337 provides a correction program to add the related commercial function.

If you move an existing Infor Baan IV environment from another OS to HP-UX Itanium 2:

Be sure to install solution 146337 and run the correction program *before* you move the BSE environment, because you cannot perform subsequent installation when you do not have the required license-key.

Required OS patches

6.1c.08 is the first porting set build based on HP aC++A6.22. Be sure to install as a minimum the *runtime* patches for compiler version A6.22 for HP aC++.

Procedure:

- Connect to www.hp.com/go/cpp
- Select 'Latest Version and patch information'
- Select your OS version
- Download and install the runtime patches

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 support: JVMI (will be deprecated in the future: see chapter 5)

To enable Java 1.5:

1. Make sure the LD_PRELOAD is set. Take the following steps:
   a. Create a script, for example bshell_j15, in $BSE/bin with the following content:
   #!/bin/ksh
   export DS_AS=bshell_j15
   export
   LD_PRELOAD=/opt/java1.5/jre/lib/IA64N/hotspot/libjvm.so:/opt/java1.5/jre/lib/IA64N/hotspot/libjsig.so
   $BSE/bin/bshell6.1 "$@"
   b. Create a new bshell entry in the $BSE/lib/ipc_info like bshell_j15, pointing to the script.

   Simply copy the bshell entry and change the entries, for example:
   ```
   bshell_j15   s  0  0  p  ${BSE}/bin/bshell_j15
   ```

c Make sure the bshell name in the BW configuration is bshell_j15.

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 1.5 libraries:
LD_LIBRARY_PATH =/opt/java1.5/jre/lib/IA64N:/opt/java1.5/jre/lib/IA64N/hotspot:/opt/java1.5/jre/lib/IA64N/native_threads

IBM System i / System p AIX

Required OS patches

6.1c.10 was the first porting set build based on XL C/C++ ED V10.1. Ensure the required XL C/C++ RTE for AIX V10.1 library runtime patches (July 2009) or later are installed. This runtime can be downloaded at (check the 'C++ Runtime Environment' section in the table):

http://www-01.ibm.com/support/docview.wss?rs=2239&uid=swg21110831

Ensure that your AIX version is on a supported technology level:

http://www-933.ibm.com/eserver/support/fixes/fixcentral/pfixpacks/53

With porting set 6.1c.10 or later, the minimum technology level for AIX 5.3 is 5300-07. For AIX 6.1 there are no special requirements for the technology level.

DB2 UDB

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

Java support: JVMI (will be deprecated in the future: see chapter 5)

Java 1.5 support:

Make sure the file ${BSE}/java/jvm_options exists and contains:
-Djava.compiler=NONE

This is an AIX specific issue.

Microsoft x86 Windows

Since 6.1c.07.14 the chosen hardware must minimally support the SSE2 processor instruction set, which is common for modern processors.

Supported OS version:

- Standard and Enterprise Edition
- Small Business Server

Java support: JVMI (will be deprecated in the future: see chapter 5)

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 default installation of Infor BaanIV

   C:\Baan\bin, assuming default installation of Infor BaanIV

Caution: To activate these variables, you must restart Infor BaanIV.

To avoid having to restart Microsoft Windows, you can add or adjust the PATH variable to the environment variables in the Baan NT Manager:

Linux x86 Suse

Since 6.1c.07.14 the chosen hardware must minimally support the SSE2 instruction set, which is common for modern processors.

Supported:

- Suse Enterprise Edition (SLES)

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

To use this porting set, you require a license key. Solution 142799 provides a correction program to add the related commercial function.

If you move an existing Infor ERP Baan IV environment from another OS to Linux

Be sure to install solution 142799 and run the correction program before you move the BSE environment, because you cannot perform subsequent installation when you do not have the required license-key.

To enable the porting set, take the following steps:

1. Install solution 142799.
2. Run correction program ottcorlinux.
3. Migrate the Infor ERP Baan IV environment to the Linux platform.
4. Activate **Porting Set Linux x86 Suse** in the Maintain Requested System Configuration (ttadv0145m000) session and request a new license key.

   Infor recommends the Java engine Sun JRE.

   This porting set supports the remote bisam database and distributed Infor ERP Baan IV application servers.

Upgrade from porting set 6.1c.07.04

To upgrade from porting set 6.1c.07.04, you require a new validation key. Two procedures are possible:

Standard procedure:

Use this procedure if you can perform the installation during office hours:

1. Inform Infor Validation, Infor.validation@infor.com, that they can expect a new key request and that you expect the request to be handled quickly.
2. Install the new porting set using the standard procedure.
3. Request a new validation key, wait for the response from Infor validation, and rebrand the environment.

   The advantage of this method is that you use standard procedures. Note, however, that this procedure requires close cooperation with Infor Validation if uptime of the environment is important.

High-availability procedure:

With this procedure, the new key request is separated from the actual porting set implementation.

Key request:

1. Unpack the porting set in a separate directory.
2. Create a new directory <*temp BSE env*>/bin and copy the file <*new porting set*>/bin/brand6.1 to this directory.
3. Start a BW connection with the following setting in the **Command** field:

   ```
   -- -set BSE_BIN=<temp BSE env>/bin
   ```

4. Follow the steps of the process to request a new license key up to and including the step “Print the requested system configuration.”
5. Send the key request to Infor Validation, Infor.Validation@infor.com, and wait for the response.

   Installation:

6. Install the porting set by means of the standard procedure.
7. Run the Maintain Security Code / Validation Key session and create a new brand file.

Linux x86 RedHat

Since 6.1c.07.14 the chosen hardware must minimally support the SSE2 instruction set, which is common for modern processors.

Supported:

- RedHat ES and AS

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

To use this porting set, you require a license key. Solution 142799 provides a correction program to add the related commercial function.

If you move an existing Infor ERP Baan IV environment from another OS to Linux

Be sure to install solution 142799 and run the correction program before you move the BSE environment, because you cannot perform subsequent installation when you do not have the required license-key.

To enable the porting set, take the following steps:

1. Install solution 142799.
2. Run correction program ottcorlinux.

3 Migrate the Infor ERP Baan IV environment to the Linux platform.

4 Activate **Porting Set Linux x86 Suse** in the Maintain Requested System Configuration (ttadv0145m000) session and request a new license key.

It is recommended to use the Java engine Sun JRE

This porting set supports the remote bisam database and distributed Infor ERP Baan IV application servers.

Sun Sparc Solaris / Fujitsu Siemens Sparc Solaris

Required OS patches

Porting set 6.1c.11 is the first porting set build on Sun Studio 12 Update 1. Make sure the required 32-bit shared library patch for C++ for your Solaris version is installed.

http://docs.sun.com/source/819-3052/patches.html or

http://developers.sun.com/sunstudio/downloads/patches/ss12u1_patches.jsp

Only the shared library patch for C++ is required (patch 119963).

Java support JVMI (will be deprecated in the future: see chapter 5)

Java 1.5 support:

Make sure the file ${BSE}/java/jvm_options exists and contains: -Xusealtsigs.

Make sure the LD_LIBRARY_PATH in ${BSE}/lib/bse_vars points to the Java 1.5 libraries.

HP Alpha Tru64

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 handle a password that starts with a capital letter.

Porting set 6.1c.11 is the first porting set that supports Tru64 version 5.1B-5.

Required OS patches

Porting set 6.1c.07.10 was the first porting set build on HP C++ V7.1. Make sure the required patches for your Tru64 version are installed.

Check the following link if you require a newer C++ redistribution kit. The redistribution kit must be compatible with V7.1

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

Chapter 3
RDBMS Notes

3

This chapter provides database specific information.

IBM DB2

Supported:

- DB2: V9.1, V9.5, V9.7

Supported in 32-bit and 64-bit mode for UNIX.

Supported in 32-bit mode for Windows.

Validated:

- For DB2 v9.1: FP3, FP4, FP5, FP6, FP7, FP8
- For DB2 v9.5: FP1, FP2, FP3, FP4, FP5

IBM Informix

Supported:

- Informix IDS Enterprise Edition

Supported in 32-bit and 64-bit mode for UNIX.

Supported in 32-bit mode for Windows.

Informix IDS 10, HP-UX only

It is recommended to install IDS 10FC5 or later, which positively impacts performance.

IDS FC5 can crash or hang sometimes. Workaround is to disable read ahead feature in Informix. Therefore the RA_PAGES parameter in the onconfig file must be set to 0.

Informix IDS 10

For performance reasons 10.00 C04 or higher is recommended.

Microsoft SQL Server

Supported:

- SQL Server Enterprise Edition,
- SQL Server Standard Edition
- SQL Server Workgroup Edition in combination with Windows 2003 Small Business Server.

Supported in 32-bit and 64-bit mode.

Level 2 is supported with SQL Server for Infor Baan IVc4.

To enable the level 2 driver:

1. Install solution 142802.
2. Run correction program ottcormsql.
3. Click **Activate MSQL Server Level II** in the Maintain Requested System Configuration (ttadv0145m000) session and request a new license key

SQL Server 2005

If you migrate to SQL Server 2005, make sure to install SQL_DMO as part of the SQL Server 2005 installation, because BaanIV requires this module for SQL Server administration.

SQL Server 2008

If you install BaanIV on SQL Server 2008, or migrate to SQL Server 2008, make sure to install the Microsoft addon package SQL_DMO (Distributed Management Objects). BaanIV requires this module for SQL Server administration. SQL_DMO is not part of the SQL Server 2008 installation, but can be found at the SQL Server 2008 Installation medium. Search for the .msi file "SQLServer2005_BC.msi". There are two flavors, 32-bit and 64-bit. Select the flavor that corresponds with the bitness of SQL Server. It has to be installed after SQL Server 2008. The SQL_DMO addon package does not install if the wrong version is taken. Then install the SQL Server 2008 SPs. Check the support matrix in this document for supported service packs.

Oracle

Supported:

- Oracle Standard Edition
- Oracle Enterprise Edition
- Oracle Standard Edition One

Supported in 32-bit and 64-bit mode for UNIX platforms.

Supported in 32-bit mode For Windows. In 3-tier mode, 64-bit mode is supported.

Oracle RAC support

Oracle RAC can be used for high available systems or for solutions where one system can not handle the load. Customers who implement RAC are expected to be able to solve their own configuration and performance issues that have to do with RAC or have clear arrangement on this with a consulting organization. A RAC environment is much more complex than a non-RAC environment. Measurements show that locking can take longer and more total CPU power is required.

Chapter 4
Java Notes

4

This chapter provides Java specific information.

The recommended version is Java 5

Java options

It is recommended that you raise the maximum heap size. Set the following values in $BSE/java/jvm_options:

```
- Xmx256m
```

If the JIT compiler stops responding when you use the Java interface, we recommend that you disable the JIT compiler.

To disable the JIT compiler, set the following value in $BSE/java/jvm_options:
-Djava.compiler=NONE

Supported Java versions

Use the latest available minor java version of a major version.

Be sure to have installed the 32-bit java version.

For example:
From the major release 5.0, currently the latest minor release is 5.0 update 21.

OS	Java 1.5	Java 1.6
HP Tru64_Unix	No	No
HP PARISC HP-UX	Yes	Yes
HP IA64 HP-UX	Yes	Yes
IBM Power5/6 AIX	Yes	Yes
Linux x86 Suse (Sun JRE) / RedHat	Yes	Yes
Microsoft x86 Windows[1]	Sun JRE	Sun JRE
Sun Sparc Solaris	Yes	Yes

[1] For more information, refer to the “Java Support” section of Microsoft x86 Windows in Chapter 2.

The previous implementation of JVMI, see “New Features” on page 5-1, is not supported for Java 1.6.

JVMI-2 has been introduced in porting set 6.1c.08. See chapter 5.

If you use the previous implementation of JVMI on HP PA_RISC HP-UX, ensure you install the aa versions of the Java libraries.

HP delivers Java for HP-UX on PA_RISC systems in two flavors: Java JRE edition, which is based on the classic C++ runtime, and the JREaa edition, which is based on the standard C++ runtime. The JREaa edition contains a few additional files, such as libjvm_v2.sl. Both editions must be installed when you use the previous implementation of JVMI with porting set 8.6a or later. The LD_PRELOAD environment variable must point to the libjvm_v2.sl library instead of the libjvm.sl library. If LD_PRELOAD points to the incorrect library, the Java VM fails to start, and the bshell will report an error. If JVMI-2 is used, you can optionally install the JREaa edition. Installing the regular JRE edition will then suffice.

For more technical information about the differences between these two editions, see http://www.hp.com/go/cpp and search for "C++ runtime environments (-AA and -AP) on HP-UX". This page provides additional information about Java.

Java support JVMI-2 on Unix and Linux

To enable Java for use with Infor Integration, ensure that the path is pointing to the correct JRE, for example, <*JRE install dir*>\bin.

Note for IBM System i /System p AIX: With JVMI it was required to have –Djava_compiler=NONE set. During testing of JVMI-2, this setting was no longer required. However, in case you experience problems, ensure that the ${BSE}/java/jvm_options file exists and contains –Djava_compiler=NONE.

Note for HP IA64 / HP PA_RISC HP-UX: With JVMI it was required to have –Xusealtsigs set. During testing of JVMI-2, this setting was no longer required. However, in case you experience problems, ensure that the ${BSE}/java/jvm_options file exists and contains -Xusealtsigs.

Java support: JVMI-2 on Windows

To enable Java for use with Infor Integration, complete these steps:

1. Download the Sun JRE versions at http://java.sun.com.
2. Ensure that the System Environment path is pointing to the correct JRE, for example, <*JRE install dir*>\bin.

Chapter 5
New Features

5

This chapter describes the features provided with the latest porting sets. If a porting set number is not given it means there were no new features introduced with that porting set.

6.1c.09 features

BWPrint: 2D-barcode support

The BWPrint delivered with this porting set supports printing of 2D-barcodes.

All barcode types provided to the first parameter of the 4-argument variant of the Baan 3GL bc$() function in the range of 1000-2000 are considered to be 2D-barcodes. The other variants of bc$() do not support 2D-barcodes. The actual number of barcode types that can be displayed in BWPrint is limited by the 3rd party barcode dll's.

In order to be able to use the 4-argument variant of the bc$() function, the porting set version must be 6.1c.07.09 or later.

The Online Help menu of BWPrint contains a 2D-barcode test.

6.1c.08 features

JVMI-2: Alternative implementation for JVMI

JVMI is the interface for Enterprise Server to communicate with java. JVMI is used mainly by Infor Integration.

The previous implementation of JVMI required a cumbersome configuration and debugging for several operating system platforms. Therefore, a more decoupled implementation is chosen: JVMI-2.

The previous implementation of JVMI will be deprecated in the future.

In case you would need to fallback to the previous implementation of JVMI, then the following resource should be set:

jvmi_arch:1

To enable Java for use with Infor Integration, ensure that the path is pointing to the correct JRE, for example, <*JRE install dir*>\bin.

SLM license manager

Support for licensing based on the SLM license manager as an optional alternative for the license daemon-based licensing.

In case you use products that use SLM (BCLM) licensing, such as Infor Integration (OpenWorld), ensure that you have installed SLM 7.1.0.2 as a minimum. It is advised to install the latest version.

SLM 7.1.0.2 is available through solution 209192.

For the procedure to adopt the SLM license manager, refer to U9555 US: SLM Adoption on Infor ERP BaanIVc.

SLM requires that you install:

- Solution 234715: containing 4GL Tools updates.
- Solutions 239030, and 239031: containing the security files for the Tools and Application packages. These solutions were not available yet at the release of porting set 6.1c.08.

Infor Security integration

Porting set 6.1c.08 is enabled to integrate with Infor Security to support single sign on. For details, refer to U9559 US “Infor ERP BaanIVc — To Configure Single Sign On.”

This feature requires that you install solution 232281.

Chapter 6
Known Issues / Points of Attention

6

This chapter describes known issues as well as points of attention when upgrading from an earlier porting set version.

Generic

SLM

In case you use products that use SLM (a.k.a. BCLM) licensing, like Infor Integration (a.k.a. OpenWorld), be sure to have installed SLM 7.1.0.2 as a minimum. It is advised to install the latest version.

SLM 7.1 is available via solution 209192: Latest version of SLM (Infor Solution License Manager).

Virtual Servers: License manager not working

The Baan license daemon and the Infor SLM Server (Solution License Manager) will not run in an OS based on a virtual server.

Infor Integration Connector for ODBC and JDBC

The Infor Integration Connector for ODBC and JDBC is not supported with bisam and level 1 databases.

OS specific

Windows

Upgrade of BaanIVc4 from Windows Server 2003 to Windows Server 2008 is not supported

BaanIVc4 must be freshly installed on Windows Server 2008 because of major differences between Windows Server 2003 and Windows Server 2008.

IW 14.0.3.0 (or a later version) must be used for this installation. The Windows master image containing this IW version and porting set 6.1c.11 is available for download from the Infor Global Download Center.

No cluster support yet on Windows Server 2008

Windows Server 2008 support is introduced in porting set 6.1c.11 but clusters are not supported yet.

Missing Visual C runtime DLL's

During installation you may get the message: "The Visual C runtime DLL's are maybe not yet installed (see technical notes porting set)."

Apply these required runtime DLL's by running the vcredist_x86.exe

RosettaNet Enabling Kit

If the Baan IVc4 environment runs on a Windows platform and the integration with the Infor RosettaNet Enabling Kit is required, be sure to install the Microsoft dll MSVCP60.dll.

The Microsoft DLL MSVCP60.dll can be downloaded through solution 147212.

HP-UX

Issue

HP patch PHSS_33037 introduces a problem, resulting in a malfunctioning porting set. You need to install HP patch PHSS_35379 (or its successor) to correct the problem introduced with PHSS_33037.

Hostname length limited to max 20 characters

HP-UX 11.23.05.05 and later support extended hostname lengths. Baan IV does not support host names beyond 20 characters in length.

Solaris

Adapter for BaanDB

The Adapter for BaanDB can crash. To resolve this set the environment variable

```
CORE=1
```

Use of dbgjvmi

When enabling dbgjvmi logging on Sun, the bshell crashes with a stacktrace.

Linux

BaanLogin doesn’t work with NIS accounts

When BaanLogin is used NIS wil not work as authentication mechanism, only local accounts or PAM authentication work.

HP Alpha Tru64

SLM 7.1.0.4 does not work

If you use SLM for licensing, ensure that you use SLM 7.1.0.2.

Database specific

DB2

Possible deadlock

Symptoms:

DB2 may run into a deadlock if MultiConnect=3 mode (in db2cli.ini) was enabled for one single DB2 session (for example one bshell session). This

problem appears in DB2 versions currently supported. Please refer to your IBM support contact to get a fix for listed APARs below:

V8.2 APAR IZ12146
V9.1 APAR IZ12147
V9.5 APAR IZ12148

Informix

IDS 10.00.xC6

A new feature called INDEX_SELFJOIN is introduced by IBM. This feature needs to be enabled in the Informix **onconfig** file and can improve performance of Infor products. More details can be found:

http://publib.boulder.ibm.com/infocenter/idshelp/v10/index.jsp?topic=/com.ibm.docnotes.doc/uc6/ids_perf_docnotes_10.0.html

IDS 10 FC5

IDS FC5 can sometimes crash or hang. The workaround is to disable the read ahead feature in Informix. Therefore the RA_PAGES parameter in the onconfig file must be set to 0.

Oracle

Oracle 10.1.0.4

After you upgrade to Oracle patch 10.1.0.4, you probably will not be able to log on again and receive error 7413 (ORA-6413).

Check solution 200328 for the latest information on this issue.

Oracle 10.2: when upgrading from a porting set prior to 6.1c.07.12

When first using Oracle 10.2 a message can occur to inform you that the shared libraries are not available.

In that case, check the file permissions for ‘others’ on settings of the Oracle install directory, especially the lib and client directories.

History

6.1c.08, 6.1c.09

Libidn missing on RedHat Linux

Portingsets 6.1c.08, and 6.1c.09 contain a dependency of the libidn system library (Internationalized Domain Name support). This library is not installed by default on RedHat Linux. As a consequence, the portingset binaries fail to start. This can be solved by installing the 32-bit version of the libidn module on RedHat Linux. The required version of this module is libidn-0.3.7-64.1 or newer.

Note, that the libidn dependency is removed from portingset 6.1c.10.

6.1c.07.17

Shmvalues6.1 removed

With 6.1c.07.13 shared memory allocation was changed. There was no need anymore for bin/shmvalues6.1 and lib/shm_param.

The delivery of shmvalues6.1 is dropped with this release.

Usage of BW requires separate install

The BW-client files are also installed with the Windows porting set. However, their use is only supported for Server Side Printing (BwPrint) and for configuration of the Job Daemon (BW and jobd.bwc).

For other client functionality (especially BECS), it is required to use the separate client installer, which will create a separate client BSE.
As of version 6.1c.07.17, BECS is no longer installed with the Windows porting set.

The BW download can be found via generic solution 13743 as well as via the same solution as the porting set download (via solution 15219)

6.1c.07.13

bdbpre/ bdbpost option –q

The –q option of bdbpre and bdbpost has been identified as a redundant and confusing option. The –E and –O option deliver the same functionality. Therefore, the –q option is not available anymore.

Windows: Bentman.exe

The bentman interface for managing Baan IV related Windows services is not delivered anymore with porting set 6.1c.07.13 and later. The same functionality is offered via the baanman snapin (c:\windows\baan\bin\baanman.msc).

To upgrade from a porting set prior to 6.1c.07.12

Suse 8 and 9 compiler incompatibility

The Suse 9 compiler is not compatible with the Suse 8 compiler. Therefore you will receive errors when you try to build a C++ application on Suse 9 or later including porting set libraries because this porting set is build on SLES 8.

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
```

To upgrade from a porting set before 6.1c.07.08 (Oracle with Solaris/Tru64/HP-UX PA-RISC)

For the operating systems Solaris, HPTru64 and PA-RISC HP-UX the binding with the oracle client is changed from static to shared library based. The advantage is that you are now able to use the Oracle client appropriate for your environment, rather than depend on the client libraries used during the build of this porting set.

If Oracle is running on a system other than your Infor ERP environment (like Baan IV), take the following steps to prepare your environment:

1. Prepare the Oracle connection from the ERP system to the Oracle instance.
2. Make sure 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, for instance, using sqlplus on the ERP system 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 will remove $BSE/lib/ora/oracle_home and perform some other adjustments.
7. Test the environment.

InstallShield-based BW removed, since 6.1c.07.08

Infor provides an MSI-based BW installation. This BW installation is a replacement for the IS3-based BW installation, which is no longer delivered.

6.1c.07.09

Range expression validation

The validation of domain range expressions has been extended with additional logging.

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

The validation of domain ranges is improved so that from now on erroneous range definitions are reported.

Examples of range definitions that are reported include:

- **[c-a]**
  Reported as a problem because **A** comes before **C**. During runtime, only **C** will be selected.

  By using **[a-c],** the developer receives the range of A, B, and C.

  The expression to specify A or C or a hyphen is: **[c\-a]** or **[-ac]**.

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

  By using **[.-_],** the developer selects the range of dot up until underscore.

  Or:

  The user perhaps wanted to have the selection of dot, underscore, and dash. In that case, the user can use **[_.\-] [underscore dot backslash dash].**

Because 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.

Chapter 7
To Update a Porting Set

7

This chapter describes the procedure to update a porting set in an existing Baan IV environment on Windows.

Make sure you have the porting set available, for instance by downloading it via solution 15219.

Prerequisite

In case you use products that use SLM (a.k.a. BCLM) licensing, like Infor Integration (a.k.a. OpenWorld), be sure to have installed SLM 7.1.0.2 as a minimum. It is advised to install the latest version.

SLM 7.1.0.2 is available via solution 209192.

Installation on Windows

Preparation

- Run the self extracting executable to unpack the files in a temporary folder.

Porting set 6.1c.07.14 and later need the visual studio 2005 SP1 runtime libraries. If they are not installed yet in your environment run the following command before installing the porting set:

```
..\i386-Windows2003\vcredist_x86.exe
```

Before installation, make sure all bshells are stopped.

If you have an SLM server running on the same system it's required to stop it and be sure to close the Eventviewer if you have that open. During the installation the c:\windows\baan\bin\baanmsg.dll is updated and this dll can be locked by SLM Server and Eventviewer.

Make sure to be logged in with an account having Windows Administrative right, preferable 'baan'.

On the system where you need to install the porting set:

1. Start the installer by executing:
   ..\windows_int\InstallationWizard\setup\setup.exe
2. On the **Welcome** dialog box click **Next**
3. In the **Environment** dialog box select the BSE environment that needs to be updated and click **Next**
4. On the **Select Installable Units** dialog box, **select** the porting set and click **Next**
5. On the **Select Porting Set** dialog box click **Next**
6. On the **Host Name** dialog box click **Next**
7. Verify the **Destination directory** and click **Next**
8. On the **Ready to Install** dialog box, check the settings and click **Install**
9. If Baan related services are still running the installer will detect that and ask for confirmation to stop them.
10. On the 'Installation Completed' screen, click **Finish**

The Logic and shared memory service are automatically restarted at the end of the installation.

Installation on UNIX/Linux

From porting set 6.1c.07.06, the complete porting set is delivered as one compressed tar file. An example is as follows:

- PA. 3659.tar.Z

(For LINUX porting set, the format is PA.XXXX.tar.gz).

The PA-number of the porting set uniquely identifies the porting set. Each porting set build has its own unique PA number.

Before installation, ensure the following:

- Users log off.
- There are no running Baan jobs.
- Baan Login daemon service is stopped.

To install the porting set, complete the following steps:

1. Download the porting set compressed file applicable for your Operating System, and copy it to your **$BSE** directory.
2. Ensure you log on with an account that has Administrative right, such as root.
3. To unpack the PA.XXXX.tar.Z file in a temporary folder, run the following command:

```
compress -d $BSE/PA.XXXX.tar.Z
```

Note:

For LINUX, to uncompress the file, use the following command:

```
gunzip $BSE/PA.XXXX.tar.gz.
```

4. To check that all users are logged off, use the following command:

```
ps -ef | grep bshell |grep -v grep
```

If no bshell process is found, no one is logged in.

5. Change directory to **$BSE/etc**, and stop the environment by running the following command:

```
./rc.stop <enter>
```

6. If not stopped by the rc.stop displayed in the "stop-information", stop the license daemon and Baan Login. Run the following commands:

```
$BSE/bin/licmon6.1 -k

$BSE/bin/blogind6.1 -k
```

Note:

This will kill the primary license daemon.

7. Change the directory to **$BSE**. To revert back to the old porting set in case problems occur, create backup files.

   Copy the $BSE/bin directory to $BSE/bin.old

   Copy the $BSE/api directory to $BSE/api.old

Copy the $BSE/lib directory to $BSE/lib.old

Copy the $BSE/java directory to $BSE/java.old

Copy the $BSE/shlib directory to $BSE/shlib.old

Copy the $BSE/include6.1 directory to $BSE/include6.1.old

Note:

Do not move the lib directory; runtime files will be lost, which prevents you from using the environment.

8 If you want to check the contents of the tar file first, without installing, run the following:

```
tar tvf PA.XXXX.tar
```

If not, unpack the new porting set files in **$BSE** as follows:

```
tar xvf PA.XXXX.tar
```

If you run this command, the following directories will be unpacked:

api

bin

java

include6.1

lib

shlib

The current contents of these directories will now be overwritten.

9 To set the correct permissions, you must run the script **binperm6.1**. Change to the directory **$BSE/bin** and run the command:

```
sh binperm6.1
```

Note that the binperm6.1 script does not change permission to bsp:bsp of the $BSE/bin/ directory.

10 In case you use TBASE(TP), you must remove the file $BSE/lib/tbase/tbase_open

When you run $BSE/etc/rc.start, a new tbase_open file will be automatically created.

11 Either remove the files PA.XXXX.tar or, if you want to keep them, move them to another location.

12 Check permissions of the new installed files in **$BSE/lib**.

13 Change directory to **$BSE** and run the following command:

```
find . -user <number> -exec chown bsp:bsp {} \; -print
```

On Linux

```
find . -nouser  -exec chown bsp:bsp {} \; -print
```

14 Ensure that the following files have executable rights:

$BSE/shlib/libjvm2bvm.sl

$BSE/shlib/libjvm2bvm.so

$BSE/shlib/libjvm2bvm.a

Run the command:

```
chmod a+x libjvm2bvm.*
```

15 In case you use TBASE(TP), check permissions of the files in **$BSE/lib/tbase**. The owner of these files must be "tbase".

16 Change directory to **$BSE/etc**. To start the environment, execute the following command:

```
./rc.start <enter>.
```

17 Before you release the system to the users, check that the system runs correctly.

Change back to the old porting set on UNIX/Linux

There are two ways to change back to the old porting set:

- Follow the installation instructions described in previous section, and install the old version.
- Revert back to the saved porting set on your system.

If you followed the installation instructions previously described to save the porting set, to revert back to the old version, you can complete the steps described in this section.

1 Log in as **root**.

2 To check that all users are logged off, type the following command:

```
ps -ef |grep bshell |grep -v grep
```

If no bshell processes are found, no one is logged in.

3 Change the directory to **$BSE/etc,** and stop Baan/Triton by executing the following command:

```
./rc.stop <enter>.
```

4 If not stopped by the rc.stop displayed in the "stop-information", stop the license daemon and Baan Login. Run the following commands:

```
$BSE/bin/licmon6.1 -k

$BSE/bin/blogind6.1 -k
```

Note:

This will kill the primary license daemon.

5 Change the directory to **$BSE**.

Move the $BSE/bin directory to $BSE/bin.curr (mv $BSE/bin $BSE/bin.curr)

Move the $BSE/api directory to $BSE/api.curr

Move the $BSE/lib directory to $BSE/lib.curr

Move the $BSE/java directory to $BSE/java.curr

Move the $BSE/shlib directory to $BSE/shlib.curr

Move the $BSE/include6.1 directory to $BSE/include6.1.curr

6 Revert back to the old files:

Move the $BSE/bin.old directory to $BSE/bin

Move the $BSE/api.old directory to $BSE/api

Move the $BSE/lib.old directory to $BSE/lib

Move the $BSE/java.old directory to $BSE/java

Move the $BSE/shlib.old directory to $BSE/shlib

Move the $BSE/include6.1.old directory to $BSE/include6.1

7 To ensure that all the permissions are correct, run the script binperm6.1. Change to the directory **$BSE/bin** and execute the following command:

```
sh binperm6.1
```

8 In case you use TBASE(TP), remove the file $BSE/lib/tbase/tbase_open

When you run $BSE/etc/rc.start, a new tbase_open file will be automatically created.

9 Check permissions of the new installed files in **$BSE/lib**.

10 Change directory to **$BSE** and run the following command:

```
find . -user <number> -exec chown bsp:bsp {} \; -print
```

On Linux

```
find . -nouser  -exec chown bsp:bsp {} \; -print
```

11 Ensure that the following files have executable rights:

- $BSE/shlib/libjvm2bvm.sl
- $BSE/shlib/libjvm2bvm.so
- $BSE/shlib/libjvm2bvm.a

Run the following command:

```
chmod a+x libjvm2bvm.*
```

12 In case you use TBASE(TP), check permissions of the files in **$BSE/lib/tbase**. The owner of these files must be "tbase".

13 Change the directory to **$BSE/etc**, and start the environment by executing the following command:

```
./rc.start <enter>.
```

14 Before you release the system to the users, check that the system runs correctly.

Chapter 8
Deprecation Notes

8

This chapter identifies areas in the porting set that will not be supported in the future.

JVMI

JVMI is the interface for Enterprise Server to communicate with java. JVMI is used mainly by Infor Integration.

In porting set 6.1c.08, an alternative implementation is introduced (JVMI-2).

The previous implementation of JVMI required a cumbersome configuration and debugging for several operating system platforms. Therefore, a more decoupled implementation is chosen: JVMI-2.

The previous implementation of JVMI will be deprecated in the future.

Microsoft JVM

The support for the Microsoft JVM is dropped by December 2007. Customers using the Office Integration are advised to upgrade to version 2.1.105 or later to move away from the COM based version which is dependent on the Microsoft JVM.

USE_MSJAVA_DLL / use_msjava_dll

The environment variable USE_MSJAVA_DLL and resource use_msjava_dll were introduced to switch between the Microsoft and Sun JVM. Because the Microsoft JVM is out of support this variable is removed from the porting set.

BCK and BCBE

The support for the BaanConnectKit (BCK) and BCBE is dropped by December 2007.