Infor ERP Baan IV / Triton 3.1

Technical Notes Porting Set 6.1c.16

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About this Guide

This document provides Technical Notes to inform you about the porting set 6.1c.16.

Send us your comments

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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 22923521 at the Infor365 Online Support Web site at http://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 2008 on this porting set as long as Microsoft provides standard support for Windows 2008.

AIX5.3

IBM will withdraw support for AIX5.3 in April 2012. AIX6.1 will then become the minimum OS version and requires a POWER4 processor. We recommend that customers upgrade to a later version.

DB2 V9.1

IBM will withdraw support for DB2 V9.1 in April 2012. Customers are advised to upgrade to a newer version.

Tru64

As of 31 Dec 2012, HP will withdraw support for True64. Customers are advised to upgrade to a different platform.

Oracle 10.2

As of July 2011, Oracle withdrew support for version 10.2. Customers are advised to upgrade to a later version.

SLES 9

In August 2011, Novell withdrew support for version SLES 9. Customers are advised to upgrade to a later version.

SQL Server 2005

In April 2011, Microsoft withdrew support for SQL Server 2005. 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:

> The following virtual machines are supported with porting set 6.1c.07.21and later:
>
> - distributions on VMware ESX 3.5 and ESXi 3.5, and vSphere 4
> - distributions on Windows Server 2008 (R2) Hyper-V, and Microsoft Hyper-V Server 2008 R2 (recommended)

When you size the system, take the overhead of the virtual machine into account.

Porting set 6.1c.07.21 and later are supported to run BaanIV on the 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 is not supported in a virtual server environment, this must be set up on a separate non-virtual server. Solution 22868904 explains how to setup a remote Baan license daemon.

SLM is supported in a VMware environment.

VMware Fault Tolerance is not supported.

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 Server7.1.x (Solution License Manager) are not supported in a virtual server environment, they must be set up on a separate non-virtual server. Solution 22868904 explains how to set up a remote Baan license daemon.

SLM Client is supported in a virtual server environment.

Performance and tuning

For more information on performance and tuning, refer to solution 22881401 at http://www.infor365.com.

Support matrix for Infor ERP Baan IVc4

	Supported OS	Oracle	IBM Informix IDS	IBM DB2	SQL Server	Bisam
		11.1, 11.2	**11.1, 11.5, 11.7**	**9.1, 9.5, 9.7**	**2008 SP1, SP2** **2008 R2, SP1**	**2.1**
HP PA_RISC HP-UX	11i v1, v2, v3	√	√			√ [32]
HP IA64 HP-UX	11i v2, v3	√[2 4]	√ [2]			
HP Alpha Tru64	5.1b-4 5.1b-5	√	√			√ [32]
Sun SPARC Solaris	10	√	√	√ **(on request)**		√ [32]
IBM Power AIX	5.3, 6.1, 7.1	√	√	√		√ [32]
Linux x86 Suse	10 SP1, SP2 & SP3, 11 SP1	√ [2]	√ [2]			√ [32]
Linux x86 RedHat (same build as Suse build)	ES/AS 5	√ [2]	√ [2]			√ [32]
Microsoft x86 Windows	2008 SP2 2008 R2, SP1	√ [1 2 32]	√[32] **(on request)**	√[32] **(on request)**	√	

√ : Supported only if supported by the actual vendor

The numbers show the supported database versions.

On request: Available only on request from the account manager

[1] : Oracle 64-bit is supported in 3-tier mode

[2] : Level 2 database driver only

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

[I] : For installation on IDS11.70xC1 different CSDK/Informix Connect is needed, see 3-2 for more info.

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 3.1

	Supported OS	Oracle	IBM Informix IDS	IBM DB2	Bisam
		11.1,11.2	**11.1, 11.5, 11.7**	**9.1, 9.5, 9.7**	**2.1**
HP PA_RISC HP-UX	11i v1, v2, v3	√	√		√ [32]
HP Alpha Tru64	5.1b-4 5.1b-5	√	√		√ [32]
Sun SPARC Solaris	10	√	√		√ [32]
IBM Power AIX	5.3, 6.1, 7.1	√	√	√	√ [32]
Linux x86 Suse	10 SP1, SP2 & SP3, 11 SP1				√ [32]
Linux x86 RedHat (same build as Suse build)	ES/AS 5				√ [32]

√ : Supported only if supported by the actual vendor

Databases are supported in 32-bit and 64-bit version unless noted otherwise. Only BaanIVc4 is optimized for use with level 2 databases.

[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 with 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 3.1 and Baan IV.

Some porting sets require minimum runtime patches for the OS compiler. Solution 22895665 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.13 was the first porting set build based on HP aC++ A03.85. Be sure to install, as a minimum, the runtime patches for compiler version A03.85 for HP aC++.

To install the patches, complete the following steps:

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

SLM

On HP PA-RISC HP-UX, SLM 7.2.0.4 is not supported; use SLM 7.1.0.4 instead.

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 22869383 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 22869383 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.13 is the first porting set build based on HP aC++A6.25. Be sure to install, as a minimum, the *runtime* patches for compiler version A6.25 for HP aC++.

To install the patches, complete the following steps:

- 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.

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.14 was the first porting set build based on XL C/C++ ED V10.1 with the October 2010 PTF applied. Therefore, you must install the *C++ Runtime Environment, October 2010 PTF* or later. IBM delivers only the V11.1 runtime, this runtime is the successor of the V10.1 runtime. The V10.1 C++ runtime environment is no longer delivered. To download this runtime, go to http://www-01.ibm.com/support/docview.wss?rs=2239&uid=swg21110831 and select the “C++ Runtime Environment” section in the table that is displayed.

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

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

With porting set 6.1c.15 or later, the minimum technology level for AIX 5.3 is 5300-10. For AIX 6.1 there are no special requirements for the technology level.

DB2

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.

Cluster support Windows

- The cluster awareness of porting set 6.1c.12 and later is *incompatible* with previous porting set releases. If your current porting set is of an older version, run the following commands before the upgrade is started:
  - bmscsset.exe remove <bsename>
  - bmscsset.exe create <bsename>

  The bmscsset.exe tool is typically located in %windir%\baan\bin or in c:\Infor\ERPLN\commonx86\bin
- Porting set 6.1c.12 and later *require* Installation Wizard 14.0.8.0 or later for cluster installations. Neither older porting sets can be installed on

clusters with this version or newer versions of the Installation Wizard, nor newer porting sets with older versions of the Installation Wizard.

- Migration of a Windows 2003 cluster to Windows 2008 is not supported.
- Only one BSE can be installed on a cluster. Multiple BSEs cannot be enabled for clustering.

Linux x86

Required OS patches

The porting set has been built with a C++ compiler. As a minimum, you must install the RUNTIME for these compiler versions:

- gcc-3.3.3-43.24
- gcc-c++-3.3.3-43.24
- glibc-2.3.3-98.28
- libstdc++-3.3.3-43.24

You do not need to install the compiler itself.

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 22842915 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 and you are not using SLM.

Be sure to install solution 22842915 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 22842915.
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.

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 22842915 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 22842915 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 22842915.
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 minimum required 32-bit shared library patch for C++ for your Solaris version is installed.

http://download.oracle.com/docs/cd/E19205-01/820-7601/gptch/index.html

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 for the first letter of the password.

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

SLM

On HP Alpha Tru64, SLM 7.2.0.4 is not supported; use SLM 7.1.0.2 instead.

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:

- Enterprise Server Edition
- Express Edition
- Workgroup Server Edition
- 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 fix packs: 3, 4, 5, 6, 7, 8, 9, 10
- For DB2 v9.5 fix packs: 1, 2, 3, 4, 5, 6, 7, 8
- For DB2 v9.7 fix packs: 1, 2, 3, 4

IBM Informix

Supported:

- Informix Ultimate Edition

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

Supported in 32-bit mode for Windows only on request.

For installation with IDS 11.70xC1 on Windows the next Informix fix is needed:

> APAR IC73135: BACKWARD COMPATIBILITY ISSUE INTRODUCED WITH TRUSTED CONTEXT IMPLEMENTATION IN ESQL/C "

This is fixed in newer versions of the informix CSDK/Informix Connect. Default the Informix CSDK/Informix Connect version that is installed with IDS11.70xC1 is version 3.70xC1. But for correct working at least version 3.70xC2 is needed and should be manually installed.

Microsoft SQL Server

Supported:

- SQL Server Enterprise Edition,
- SQL Server Standard Edition
- SQL Server Workgroup Edition

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 when not using SLM:

1. Install solution 22842914.
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 2008

Porting Set 6.1c.14

As of porting set 6.1c.14, SQL Server Management Objects (SQL-SMO) is used to create and maintain the SQL Server database. The SQL-SMO package will be installed automatically by the Installation Wizard during the installation or update of the porting set. Microsoft's .NET must be installed. For Windows versions earlier than Windows 2008, .NET might not have been installed. In this case, installing SQL-SMO by means of the Installation

Wizard will result in a message being displayed in the Windows event viewer. This message states which package must be installed first. Download this package from the Microsoft download site and, after you install it, retry the installation with the Installation Wizard.

SQL-SMO can also be installed manually. This package consists of two .msi files: SQLSysClrTypes.msi and SharedManagementObjects.msi. These files are in the top directory of the porting set Installable Unit.

Porting Set 6.1c.09 – 6.1c.13

If you install BaanIV on SQL Server 2008, or migrate to SQL Server 2008, make sure to install the Microsoft add-on 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 add-on 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.

Oracle 11.2 support on 32-bit porting set

Starting with Oracle 11.2, the 64-bit Oracle software does no longer contain a 32-bit client interface.

Customers must install separate 32-bit Oracle client software. Refer to the Oracle installation guides for more details.

An Oracle Database Net service must be configured in such a way that the 32-bit Oracle client installation can access the Oracle database.

The setup of the Infor ERP Baan IVc4 Oracle driver must be based on these resources:

- ORACLE_HOME (of the 32-bit Oracle client installation)
- ORACLE_SERVICE_NAME (the Oracle Database Net service name of the database).

A connection between a 32-bit porting set and an Oracle 11.2 database based on ORACLE_HOME and ORACLE_SID is not possible.

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 Power5/6/7 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.

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

The previous implementation of JVMI is not supported for Java 1.6.

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 6.1c.10 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, installing the regular JRE edition will suffice. Alternatively, you can install the JREaa edition.

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://www.oracle.com/technetwork/java/index.html.
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.14 features

DDC, Tax libraries

Starting with porting set version 6.1c.14, the TAX and DDC libraries changed on UNIX. Instead of static libraries, which are also known as archives, these files are now either a shared library for DDC or a binary api6.1 for TAX. Therefore, customers who made an integration on top of TAX or DDC libraries must relink their application. The porting set is shipped with example Makefiles that show how to relink applications. These files are in $BSE/api.

In addition to this step, it may be necessary for DDC to specify the location where the shared library resides. This system-specific environment variable (SHLIB_PATH on HPUX PA-risc and LIBPATH on AIX and LD_LIBRARY_PATH on all other UNIX/Linux Operating Systems) should point to the location where the shared library is stored, which usually is in $BSE/shlib.

For Tax, the api binary dynamically loads the required Tax library, based on the provided arguments to the api binary. This behavior is identical to the api.exe on Windows. You may also need to set the system-specific environment variable to point to the location where theTax shared libraries are stored.

6.1c.12 features

Check Infor365 maintenance contract

If you use SLM and have an Infor365 maintenance contract, you must add product-id 10365 and request a new license activation through Infor Validation. Porting set 6.1c.12 will check the end date of the maintenance contract. This check will be introduced per January 1, 2011. As of that date, sessions that are newer than the end date of the maintenance contract can no longer be started.

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.

The latest version of the SLM software can be obtained through solution 22881484 on www.infor365.com.

To adopt the SLM license manager, refer to *SLM Adoption on Infor ERP BaanIVc* (U9555 US).

If you have an Infor365 maintenance contract, add product-id 10365 and request a new license activation through Infor Validation.

SLM requires that you install:

- Solution 22914879: containing 4GL Tools updates.
- Solutions 22927504, and 22911301: 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 22917253.

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.x is available via solution 22881484: Latest version of SLM (Infor Solution License Manager).

Virtual Servers: License manager not working

The Baan license daemon 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.

Messaging from bshcmd to bshell

From porting set 6.1c.10, the messaging from bshcmd to bshell is changed. The resource “no_ipc_msg_window” became meaningless, and therefore is replaced with the new resource “no_ipc_messaging.” If “no_ipc_messaging” has a non-zero value, bshcmd cannot be used to send messages to the bshell. The default value of “no_ipc_messaging” is zero, which means that messaging is enabled.

No cluster support yet on Windows Server 2008

Windows Server 2008 support is introduced in porting set 6.1c.11 but cluster updates from Windows 2003 to 2008 are not supported.

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 22899049.

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 will not work as authentication mechanism, only local accounts or PAM authentication work.

HP Alpha Tru64

SLM 7.1.0.4 and higher 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:

- V9.1 APAR IZ12147
- V9.5 APAR IZ12148

History

BDBAPI: Cameo examples removed

The bdbapi interface, in which the client is available as a separate download, is not a strategic interface.

Starting with 6.1c.13, the following files are no longer delivered as part of the porting set:

- The BDBAPI shared library/DLL interface (from $BSE/shlib)
- The bic_cstub binary (from $BSE/bin)
- The cameo and cint examples ($BSE/api/examples)
- Some accompanying libraries ($BSE/api/lib) and header files ($BSE/api/include)

These files are obsolete. The preferred way to integrate with Baan 4c is to use ODBC/JDBC. Refer to Installation Guide for ODBC and JDBC Connectors for ERP LN (U9173 US).

Oracle

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

When first using Oracle 10.2 a message may be displayed informing you that the shared libraries are unavailable.

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

6.1c.08, 6.1c.09

Libidn missing on RedHat Linux

Porting sets 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 porting set 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 porting set 6.1c.10.

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 22923521.

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.x is available via solution 22881484.

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.

Before you can update the porting set, take the following precautions:

- Ensure that all bshells are stopped.
- Stop any SLM servers that are running on the same system.

- Close the Eventviewer if it is open. Keeping it open can lock the baanmsg.dll
- Ensure that you are logged in with an account that has Windows Administrative rights, preferably ‘baan.’

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

1. Start the installer by executing: ..\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 **Infor ES 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.

BCK and BCBE

The support for the BaanConnectKit (BCK) and BCBE was dropped in December 2007. Similar to the Windows platform (since 6.1c.07.13), the upcoming 6.1c.17 porting set release will also no longer deliver BCK/BCBE-related binaries. These binaries are:

- Bshellxma6.1
- idl_compiler6.1
- csapi_compiler6.1
- calc6.1
- atpcheck6.1