Technical Notes Porting Set 6.1c.07.20

be enterprising

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About this Guide

This document provides Technical Notes to inform you about the porting set 6.1c.07.20

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Chapter 1
Introduction

1

For last-minute notes in regard to this porting set, check solution 15219 at the Infor365 Online Support site:

http://www.infor365.com

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.

Java 1.4.2

Sun will end the support for Java 1.4.2 by October 30th, 2008. Customers are advised to plan the upgrade to a later version.

SQL Server 2000

April 2008 Microsoft ended mainstream support for SQL Server 2000. Customers are advised to plan upgrade to a later version

Fujitsu-Siemens MIPS Reliant UNIX

Support for Fujitsu-Siemens MIPS Reliant UNIX will end December 2008. Customers are advised to plan the upgrade to another platform.

IBM DB2 V8

On April 30, 2009, IBM will end the support for IBM DB2 Universal Database 8.1 and 8.2. Customers are advised to plan upgrade to a later version

IBM Informix IDS 9.40

April 30, 2009, IBM will end the support for IBM Informix IDS 9.40. Customers are advised to plan upgrade to a later version

SLM 7.1.0.2

With a next release of this porting set the minimum version for the license monitor will be Infor SLM 7.1.0.2.

Hardware support

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 32/64 bits database support. For Linux RedHat and Suse both 32 and 64 bits 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.

For Windows, check the Microsoft HCL list:

http://www.microsoft.com/whdc/hcl/default.mspx

For Suse Linux, check Novell's hardware requirements:

http://www.novell.com/products/linuxenterpriseserver/sysreqs.html

Note: Infor cannot guarantee that the information will be available on the provided links. These links are provided merely for your convenience.

Support matrix for Infor ERP Baan IVc4

	Supported OS	Oracle	IBM Informix IDS	IBM DB2	SQL Server	Bisam
		10.1, 10.2	**7.31, 9.40, 10, 11**	**8.1, 8.2, 9**	**2005 SP1**	**2.1**
HP PA_RISC HP-UX	11i v1, v2, v3	√	√			√ [32]
HP IA64 HP-UX	11i v2, v3	√ [2]	10, 11 [2]			
HP Alpha Tru64	5.1b-3, 5.1b-4	√	√			√ [32]
Sun SPARC Solaris	9, 10	√	√	√ **(on request)**		√ [32]
IBM Power5 AIX	5.2, 5.3	√	√	√		√ [32]
Linux x86 Suse	SLES 9 SP3, 10 SP1	√ [2]	[9.40, 10, 11] [2]			√ [32]
Linux x86 RedHat (same build as Suse build)	ES/AS 4, 5	√ [2]	[9.40, 10, 11] [2]			√ [32]
Microsoft x86 Windows	2003 [3]	√ [2 32 *]	√ [32] **(on request)**	√[32] **(on request)**	√	
Fujitsu-Siemens MIPS Reliant UNIX	5.45 **(on request)**		7.31, 9.40			√ [32]

[*] : Oracle 64 bits supported in 3-tier mode

[2] : Level 2 database driver only

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

Databases are supported in 32 and 64 bits version unless noted otherwise:
[32] : 32 bits 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
		10.1, 10.2	**7.31, 9.40, 10, 11**	**8.1, 8.2, 9**	**2.1**
HP PA_RISC HP-UX	11i v1, v2, v3	√	√		√ [32]
HP Alpha Tru64	5.1b-3, 5.1b-4	√	√		√ [32]
Sun SPARC Solaris	9, 10	√	√		√ [32]
IBM Power5 AIX	5.2, 5.3	√	√	√	√ [32]
Linux x86 Suse	SLES 9 SP3, 10 SP1				√ [32]
Linux x86 RedHat (same build as Suse build)	ES/AS 4,5				√ [32]
Fujitsu-Siemens MIPS Reliant UNIX	5.45 **(on request)**		7.31, 9.40		√ [32]

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

[32] : 32 bits database supported

64 bits strategy

64bits becomes the standard for operating systems, databases and server applications. Therefore Infor is planning to port Baan IV, Baan ERP 5 and ERP LN 6.1 to 64 bits binaries, assuring platform compatibility for the future.

The current Baan IV porting set will be split up in 2 branches, a 6.1c.07.x and a 6.1d.x branch.

The 6.1c.07.x branch

This branch will deliver 32bits porting sets for the currently supported platforms as long as the 6.1d branch is not general available.

When the 6.1d branch is general available, support via the 6.1c branch will be continued only for the Tru64 platform and until the end of support of Tru64 by HP.

The 6.1c.07.x branch will introduce the support for licensing based on the SLM license manager as optional alternative for the license daemon based licensing.

The 6.1d.x branch

New developments, like enablement for SOA and new platform validations, are taking place on the 6.1d.x branch.

The 6.1d.x porting set will support licensing based on SLM license manager. Licensing via the license daemon is not supported.

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

A Tru64 porting set will not be delivered for the 6.1d branch. This support will be continued via the 6.1c.x branch.

Gradually also 64bits porting sets will be delivered, beginning with a 64 bits Windows porting set.

The 64bits porting sets will not provide support for:

- bisam

- level 1 database drivers
- JVMI
- Windows/DB2
- Windows/Informix
- Solaris/DB2
- 64 bits db-libraries

A limited available 6.1d.x version is expected by the end of 2008.

Support statement

The 32 bits binaries, delivered via the 6.1d.x branch, will be supported as long as the related 32 bits operating system is standard supported by its vendor.

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.

HP PA-RISC HP-UX

Required OS patches

6.1c.07.14 was the first porting set built 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 1.4 and Java 1.5 support

To enable java 1.4:

1. Make sure the LD_PRELOAD is set. Take the following steps:
   a. Create a script, for example bshell_j14, in $BSE/bin with the following content:
   #!/bin/ksh
   export DS_AS=bshell_j14
   export LD_PRELOAD=/opt/java1.4/jre/lib/PA_RISC2.0/hotspot/libjvm.sl:/opt/java1.4/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_j14 that points to the script.

      Simply copy the bshell entry and change the entries. For example:
      `bshell_j14  s  0  0  p  ${BSE}/bin/bshell_j14`
   c. Make sure the bshell name in the BW configuration is: bshell_j14.
2. Make sure the file ${BSE}/java/jvm_options exists and contains: -Xusealtsigs
3. Make sure the SHLIB_PATH in ${BSE}/lib/bse_vars points to the Java 1.4 libraries:

   SHLIB_PATH=/opt/java1.4/jre/lib/PA_RISC2.0:/opt/java1.4/jre/lib/PA_RISC2.0/hotspot:/opt/java1.4/jre/lib/PA_RISC2.0/native_threads

To enable java 1.5, a similar procedure is needed as for java 1.4.

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

To enable Java 1.4:

1. Make sure the LD_PRELOAD is set. Take the following steps:
   a. Create a script, for example bshell_j14, in $BSE/bin with the following content:
   #!/bin/ksh
   export DS_AS=bshell_j14
   export
   LD_PRELOAD=/opt/java1.4/jre/lib/IA64N/hotspot/libjvm.so:/opt/java1.4/jre/lib/IA64N/hotspot/libjsig.so
   $BSE/bin/bshell6.1 "$@"
   b. Create a new bshell entry in the $BSE/lib/ipc_info like bshell_j14, pointing to the script.

   Simply copy the bshell entry and change the entries, for example:
   ```
   bshell_j14   s  0  0  p  ${BSE}/bin/bshell_j14
   ```

c Make sure the bshell name in the BW configuration is bshell_j14.

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

3 Make sure LD_LIBRARY_PATH in ${BSE}/lib/bse_vars points to the Java 1.4 libraries:
LD_LIBRARY_PATH =/opt/java1.4/jre/lib/IA64N:/opt/java1.4/jre/lib/IA64N/hotspot:/opt/java1.4/jre/lib/IA64N/native_threads

To enable java 1.5, a similar procedure is needed as for java 1.4.

IBM System i / System p AIX

Required OS patches

6.1c.07.14 was the first porting set built based on XL C/C++ ED V8.0.0.5. Make sure the required XL C/C++ Enterprise Edition V8.0.0.5 library runtime patches or later are installed:

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

DB2 UDB

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

Java 1.4 and java 1.5 support

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

Sun Sparc Solaris / Fujitsu Siemens Sparc Solaris

Required OS patches

Porting set 6.1c.07.19 was the first porting set built on Sun Studio 11. 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

Make sure the following Sun OS patches are installed:

Solaris 9:

- patch 111711

Java 1.4 and 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 1.4 or java 1.5 libraries.

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:

- Windows 2003 SP1, SP2 + R2
  - Standard and Enterprise Edition
  - Small Business Server

Java support

Microsoft discontinued support for Microsoft Java Virtual Machine. See http://www.microsoft.com/mscorp/java/.

Therefore, the porting set now only supports the Sun JRE on Windows.

Both MS JVM and SUN JRE were supported for a while to enable a smooth transition.

Support for MS JVM will be removed in a next release of the porting set.

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 (java 1.4 and java 1.5)
- C:\Baan\shlib, assuming default installation of Infor BaanIV
- C:\Baan\bin, assuming default installation of Infor BaanIV
- Make sure the resource use_msjava_dll is not set or has value 0
- Make sure the environment variable USE_MSJAVA_DLL=0 or not set

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**[1] 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.

[1] For RedHat the same porting set build is used as for Suse.

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.

Required OS patches

Porting set 6.1c.07.10 was the first porting set built 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

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

Fujitsu Siemens Mips Reliant UNIX

The porting set for Reliant UNIX is available on request. Contact your support representative.

Chapter 3
RDBMS Notes

3

This chapter provides database specific information.

IBM DB2

Supported:

- DB2: V8.1, V8.2, V9.1, V9.5

Supported in 32 and 64 bits mode for Unix.

Supported in 32 bits mode for Windows.

Validated: V8 FP14, FP15, FP 16

For DB2 v8.1, 8.2: As minimum Infor advices FP14

For DB2 v9: FP3, FP4

IBM Informix

Supported:

- Informix IDS Enterprise Edition

Supported in 32 and 64 bits mode for Unix.

Supported in 32 bits 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 7.31

The minimum required patch level required is IDS 7.31.FD1.

Informix IDS 9.40

For performance reasons we recommend 9.40.C.08 or higher.

Informix IDS 10

For performance reasons 10.00 C04 or higher is recommended.

Informix IDS 11

No additional notes.

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 and 64 bits 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.

Oracle

Supported:

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

Supported in 32 and 64 bits mode for Unix platforms

For Windows supported in 32 bits mode.

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
```

Supported Java versions

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

For example:
from the major release 5.0, currently the latest minor release is 5.0 update 15

OS	Java 1.4	Java 1.5	Java 6
HP Tru64_Unix	Yes	No	No
HP PARISC HP-UX	Yes	Yes	No
HP IA64 HP-UX	Yes	Yes	No
IBM Power5 AIX	Yes	Yes	No
Linux x86 Suse (Sun JRE) / RedHat	Yes	Yes	No
Microsoft x86 Windows[1]	Sun JRE	Sun JRE	No
Sun Sparc Solaris	Yes	Yes	No
Fujitsu-Siemens Sparc Solaris	Yes	Yes	No

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

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.07.16 Clean up shared memory

With previous porting sets it was required to empty shared memory (BSE/lib/srdd_tab6.2) and restart shared memory before installing new PMC solutions.

The porting set is improved in this area; the shared memory manager will check if objects in shared memory are still valid. If not, due to installation of new objects, the objects from disk are used.

6.1c.07.13 features

[Unix/Linux] Shared memory allocation changed

With porting set 6.1c.07.13 the allocation of a shared memory segment is changed. The memory segments are allocated dynamically instead of based on the predefined addresses in $BSE/lib/shm_param with a default fixed size.

6.1c.07.12 features

PAM Pluggable Authentication Module(s)

Only applicable for the UNIX and Linux flavors:

With this porting set the blogin daemon is enabled to use PAM authentication if configured on OS level.

Informix: update statistics

The Informix driver will now automatically update the IDS statistics, having a positive impact on database performance.

6.1c.07.10 features

Adjustable log size

By default the size of the logfiles in $BSE/log is 512k. When the log file exceeds that size it will move the logifle to type olg and start writing from scratch.

With the newly introduced resource ‘log_size’ the size of the log files can be adjusted. The default value is: 512

The parameter can for example be set by adding the following line to the $BSE/lib/defaults/all file:

```
log_size:1024
```

JVMI version

With the following command:

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

the JVMI version will be provided.

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.

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 contact your IBM support contact to get a fix for listed APARs below:

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

Infor Integration Connector for ODBC and JDBC

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

[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

Windows: 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

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.

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).

[Informix] 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

[Virtual Servers] License manager not working

Although not formally supported some customers have their ERP environment deployed in a virtual server environment. Be aware that the license daemon will not run in an OS based on a virtual server.

[Solaris] Adapter for BaanDB

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

```
CORE=1
```

[Solaris] 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.

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
```

Oracle 10.2

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.

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.

Microsoft JVM, upgrade before 6.1c.07.08

The Sun JRE has become the default JVM in porting set 6.1c.07.08. If you still want to use the Microsoft JVM, be sure to make the following adjustments in the environment:

Configure the use of the Sun JRE for the Baan ERP environment:

- Add use_msjava_dll:1 to the $BSE\lib\defaults\bshell file

Or:

- Use USE_MSJAVA_DLL=1 as environment variable.

Range expression validation

With porting set 6.1c.07.09, 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.

HP-UX: 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.

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.

RosettaNet Enabling Kit, Windows-only issue

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.

Oracle 7 driver

The Oracle 7 driver has been removed since porting set 6.1c.07.06.

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 on http://onepoint.infor.com

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.

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.

BCK and BCBE

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