

Technical Notes for Porting Set 8.4a

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About this Guide

This document provides the Technical Notes to inform you about the Infor Enterprise Server Porting Set 8.4a.

Send us your comments

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

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

This chapter describes the operating system and database combinations supported to deploy:

- Infor ERP LN 6.1
- Infor ERP Baan 5.2a
- Infor ERP 5.0b and 5.0c

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

Example: Infor will continue to provide support for IBM AIX 5.2 on this porting set as long as IBM continues standard support for AIX 5.2.

End-of-service notifications

HP HP-UX

HP has withdrawn support for HP-UX 11.00 as of December 2006. Customers are strongly advised to migrate to a later version.

Solaris 8

February 16 2007, Solaris 8 general availability support is ended by Sun. Customers are strongly advised to plan upgrading to a later version.

Oracle 9.2

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

SUSE 8

November 30th, 2007 SUSE Linux Enterprise Server 8 support will end by Novell. Customers are advised to plan upgrade to a later version.

Microsoft Java Virtual Machine

December 31st 2007, Microsoft JVM support will end by Microsoft. 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.

Platform support: x86 based

ERP LN solutions, such as Infor ERP 5.0c and Infor ERP LN 6.1, are supported on Intel and AMD-based x86, AMD64, and EM64T under the following conditions:

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

Note: Infor currently supports the 32-bit variants of Windows. Windows 64 is supported when used in combination with SQL Server.

For Linux RedHat and Suse, both 32 and 64-bit are supported. Be aware that the ERP Ln solutions are 32-bit applications and therefore need the 32-bit clients of the selected database.

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

- The hardware must be supported by the operating system vendor.

Note: Make sure that 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.mspix>

For Suse Linux, check Novell's hardware requirements.

<http://www.novell.com/products>

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

Virtual Server support

VMWare

With Enterprise Server 8.3 it is supported to run ERP LN 6.1 on VMWare for demo and test purposes. Benchmarks have shown that running ERP LN in OS environments directly on the hardware significantly out-perform ERP LN in a VMWare environment.

Therefore OnePoint Support will not handle performance related inquiries related to running ERP LN in a VMWare environment and support is limited to test and demo environments.

Supported are VMWare ESX and VMWare Server with the ERP LN 6.1 Windows(32bits) x86 distribution and the ERP LN 6.1 Linux(32 bits) x86 distribution.

64 bits Windows and 64 bits Linux are supported in combination with VMWare.

Be aware that the Solution License Manager *Server* is not supported in a virtual server environment.

HP Integrity VM

With Enterprise Server 8.3 and porting set 8.3a.01 or later it is supported to run ERP LN 6.1 with HP-UX on HP Integrity VM for demo and test purposes.

OnePoint Support will not handle performance related inquiries related to running ERP LN with HP-UX in a HP Integrity VM environment and support is limited to test and demo environments.

Supported is HP Integrity Virtual Machines with the ERP LN 6.1 HP-UX IA64 distribution.

Be aware that the Solution License Manager *Server* is not supported in a virtual server environment.

Support matrix Infor ERP LN 6.1 and Infor ERP Baan 5.2a*

	Supported OS	Oracle	IBM Informix IDS	IBM DB2	SQL Server	MySQL ⁿ
		9.2, 10.1, 10.2	9.40, 10	8.1, 8.2, 9	2000, 2005	5.0
HP PA_RISC HP-UX	11i v1, v2, v3	+ ^u	+			
HP IA64 HP-UX	11i v2, v3	+ ^u	10			
Sun Sparc Solaris	9, 10	+ ^u	+			
IBM Power5 AIX	5.2, 5.3	+ ^u	+	+		
Linux x86 Suse	SLES 8, 9, 10	+ ^u	+			+
Linux x86 RedHat	ES 4, AS 4	+ ^u	+			+
Microsoft x86 Windows	2003	+ ^{u32}			+ ^u	

Notes:

+ : supported (as long as supported by the actual vendor)

number: supported for the mentioned database version

^u : Unicode support (Multi language support), Oracle 10 and SQL Server 2005 only . Not supported for Infor ERP Baan 5.2a

* : Infor ERP Baan 5.2a based on Infor Enterprise Server 8

ⁿ Infor ERP Baan 5.2a is not supported on Linux/MySQL
MySQL is Controlled Available.

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

³² 32 bits database supported

Support matrix Infor ERP 5.0b and 5.0c

	Supported OS	Oracle	IBM Informix IDS	IBM DB2	SQL Server
		9.2, 10.1, 10.2	7.31, 9.40, 10	8.1, 8.2, 9	2000, 2005
HP PA_RISC HP-UX	11i v1, v2, v3	+	+	On request (5.0c only)	
HP IA64 HP-UX	11i v2, v3	+	9.40, 10		
Sun Sparc Solaris	9, 10	+	+	On request (5.0c only)	
IBM Power5 AIX	5.2, 5.3	+	+	+	
Linux x86 Suse	SLES 8, 9, 10	+	+		
Linux x86 RedHat	ES 4, AS 4	+	+		
Microsoft x86 Windows	2003	+	+	On request	+

Notes:

+ : supported (as long as supported by the actual vendor)

Number : supported for the specified database version

Level 1 database drivers are not supported with this porting set.

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

HP PA-RISC HP-UX

Required OS patches

8.2b was the first porting set requiring HP-UX patch PHSS_33032 for HP-UX 11.00 and PHSS_33033 for HP-UX 11.11. Be sure to have it installed.

7.6b was the first porting set built based on HP aC++ A03.63. Be sure to install, at a minimum, the runtime patches for compiler version A03.63 for HP aC++. See the following link:

http://h21007.www2.hp.com/dspp/tech/tech_TechSoftwareDetailPage_IDX/1.1703,1743,00.html

In addition, it is recommended that you install the core patches distributed on the extension software media.

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

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

Java support

From 8.2b onward, Infor recommends that you add the libjsig.sl to the LD_PRELOAD path, which are indicated in **bold**, as well,.

The process to enable Java 1.4 consists of the following steps:

Make sure the LD_PRELOAD is set as follows:

1. Create a script "bshell_j14" in folder \$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/server/libjsig.sl
$BSE/bin/bshell6.2 $@
```

2. Create a new bshell entry in the \$BSE/lib/ipc_info such as bshell_j14. To do so, simply copy the bshell entry and change the entries, for example:
bshell_j14 s 0 0 p \${BSE}/bin/bshell_j14
3. Make sure the bshell name in the BW configuration is: bshell_j14.
4. Make sure the file \${BSE}/java/jvm_options exists and contains: -Xusealtsigs.
5. 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

The procedure to enable Java 1.5 is similar to the procedure 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 bshell6.2
```

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

HP IA64 (Itanium 2) HP-UX

Required OS patches

8.4a was the first porting set built based on HP aC++A6.13. Be sure to install as a minimum the *runtime* patches for compiler version A6.13 for HP aC++.

www.hp.com/go/cpp (runtime patches are described in green)

Select 'Latest Version and patch information'

PHSS 34860 linker + fdp cumulative patch

PHSS 34853 libm cumulative patch

PHSS 34441 or PHSS 35055.

patch fix list aC++ runtime patch

PHSS 35753 u2comp/be patch

PHSS 34859 unwind library cumulative patch

If you use the Java interface, for example, if you use Infor Open Architecture, check the following link for patches:

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

Java support

The procedure to enable Java 1.4 consists of the following steps:

1. Make sure the LD_PRELOAD is set. 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/server/libjsig.sl

$BSE/bin/bshell6.2 $@
```
2. Create a new bshell entry in the \$BSE/lib/ipc_info, such as bshell_j14, that points to the script. To create this new bshell entry, copy the bshell entry and change the entries, for example:


```
bshe11_j14      s  0      0  p  ${BSE}/bin/bshell_j14
```
3. Make sure the bshell name in the BW configuration is: bshell_j14.

Note: The symbol -- is double hyphens.
4. Make sure the \${BSE}/java/jvm_options file exists and contains: -Xusealtsigs.
5. Make sure the 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
```

The procedure to enable Java 1.5 is similar to the procedure for Java 1.4.

IBM Power5 AIX

Required OS patches

8.4a 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

When using the java integration of Adapter for ERP be sure to disable the JIT compiler. This is an AIX specific issue.

\$BSE/java/jvm_options:

-Djava.compiler=NONE

Linux x86 Suse

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

Informix

Support for Informix requires a minimum of Suse SLES 8 with SP3.

Support for Informix 10 requires a minimum of Suse SLES 9.

Oracle

Suse SLES 8 with SP3 or SuSe SLES 9 is recommended

MySQL

MySQL is only supported for SuSe SLES 9

MySQL is controlled available

Linux x86 RedHat

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

MySQL

MySQL is controlled available

Microsoft x86 Windows

The supported OS version is:

- Windows 2003 SP1 and R2:
Standard and Enterprise Edition and Small Business Server
- The chosen hardware must minimally support the SSE2 instruction set, which is common for modern processors.

Java support

- 1 Install the Sun JRE.

You can download the Sun JRE versions at: <http://java.sun.com>.

- 2 Make sure the System Environment PATH variable contains the following paths:
 - Required paths of the JRE, for example: *<JRE install dir>\bin*.
 - Required path of the jvm.dll, for example *<JRE install dir>\bin\client*.
 - %BSE%\shlib
 - %BSE%\bin
-

Sun Sparc Solaris

Unicode code is supported for Solaris 9 and later.

Required OS patches

7.6b.01 was the first built on Sun Studio 10. Make sure the required patches for your Solaris version are installed.

<http://docs.sun.com/source/819-0485/patches.html>

Java 1.4 and 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 libraries.

IBM DB2

Supported: DB2 V8.1, V8.2, 9

Do not use fixpack 9, 10 and 11

Fixpack 12, 13 and 14 did pass internal tests.

IBM Informix

Supported: Informix IDS 7.31, 9.40, 10 Enterprise Edition

Do not use Informix IDS 10.FC5.

Informix 9.40, Windows only

Before you start the installation, you must start Regedit.

Go to:

[Hkey_Local_Machine\\Software\\Informix\\Online\\<\\$Informixserver>\\Environment](#)

make the following string value:

[InformixSQLHosts=\\<Servername>](#)

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

Informix 7.31

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

Microsoft SQL Server

Supported:

- SQL Server 2000 SP3a and SP4
- SQL Server 2005 SP1

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 ERP LN requires this module for SQL Server administration.

Oracle

Supported:

- Oracle SE/EE 9.2 and 10.1 and 10.2
- Standard Edition, Enterprise Edition and Standard Edition One

MySQL

Supported:

- MySQL 5.0
- MySQL 5.0 Pro Certified Server,

Minimal required MySQL 5.0.19

The Solution License Manager product-id for MySQL is: 7080, register as a server license.

MySQL is Controlled Available.

Java options

Raise the maximum heap size. To do so, set the following value in \$BSE/java/jvm_options:

- -Xmx256m

Supported Java versions

For this porting set, version J2SE 1.4.2.x is recommended.

Use the latest available minor version of a major release.

For example:

from the major release 1.4, currently the latest minor release is 1.4.2

If the vendor no longer supports a specific J2SE version, support by Infor will also end.

Make sure to install the 32-bits version of the java runtime because the ERP LN application is a 32-bits application.

OS	Java 1.4.2	Java 1.5.1
HP PA-RISC HP-UX	Yes	Yes
HP IA64 HP-UX	Yes	Yes
IBM PowerPC AIX	Yes	Yes
Microsoft x86 Windows	Sun JRE	Sun JRE

Linux x86 Suse/RedHat	Sun JRE	Sun JRE
Sun SPARC Solaris	Yes	Yes

Chapter 5

Installation Procedure for Infor ERP LN 6.1 and Infor ERP Baan 5.2a

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Infor ERP LN 6.1 FP3 licensing

This licensing procedure is not different from Infor ERP LN 6.1 FP2 licensing. The following license ID's must be used:

ERP LN 6.1

- Infor ERP 6: 10056
- Infor ERP 6 (2): 7114
- Infor ERP 6 (3): 7115
- Infor ERP 6 (4): 7116

ERP LN 6.1 Service

- Infor ERP 6 Service: 10896
 - Infor ERP 6 Service (2): 7117
 - Infor Business Data Entity Modeler: 7033
 - Infor Business Data Entity Implementation Generator: 7034
 - Infor Business Data Entity Repository: 7035
-

[Unix/Linux] Shared memory allocation changed

With porting set 8.3a.01 the allocation of a shared memory segment changed. The memory segments are allocated dynamically instead of based on the predefined addresses in \$BSE/lib/shm_param with a default fixed size.

With 8.3a only one segment was allocated, with 8.3a.01 additional segments will be allocated if needed.

Use previous shared memory manager behavior

It's also possible to fall back to the previous shared memory behavior, thus by using the binary shm_values6.2 and the parameter file \$BSE/lib/shm_param

Do so by adding the following line to \$BSE/lib/defaults/all

```
shm_compat_mode:1
```

On AIX this might give an issue with default start 300000000 value due to link option maxdata=200000000 -> start value might need to go to e0000000

Unicode on Oracle [upgrading from 8.2b or earlier]

This release note is only relevant for customers on Oracle using the Unicode mode, upgrading from a porting set 8.2b or earlier.

In porting set 8.3a a change has been made in the default mapping of the DB.STRING data type to the Oracle data type. From porting set 8.3a and onwards it will be mapped to the Oracle NCHAR data type when the porting set runs in Unicode mode. Otherwise the mapping remains unchanged.

Impact for existing users:

This change has some impact for the existing sites that are running in Unicode mode, and have database created with porting set 7.6b or 8.2a.

Because the database still contains the Oracle CHAR data type, and the porting set now uses the NCHAR data type for data binding, performance problems will occur after the porting set upgrade, because the database will not use some indexes anymore due to the need of a internal Oracle conversion from CHAR to the NCHAR data type.

There are two solutions to prevent the performance problems caused by this type mismatch:

- 1). Reorganize the whole ERP LN database (export/import on the ERP LN level), so that all tables will be recreated with the new data type
- 2). Set the **ora_use_nchar:0** resource in the \$BSE/lib/defaults/db_resource file. When this value is set, the driver fall back to the default behavior of the previous porting sets.

Security file installation [upgrading from 7.6b.01 or earlier]

This note is not applicable for Infor ERP LN 6.1 FP2 users.

If you use Infor Enterprise Server 8.2 (tt_7.6_a2, tools version that came with Infor ERP LN 6.1 FP2) and your application version is any of the following:

- Infor ERP LN 6.1 SP0
- Infor ERP LN 6.1 SP1
- Infor ERP Baan 5.2a

You must have installed solution 206321. If you do not have this solution installed you will encounter licensing problems with the application sessions.

Other users

For users of versions prior to Infor Enterprise Server 8.2 (tt_7.6_a or tt_7.6_a1) and whose application version is any of the following:

- Infor ERP LN 6.1 SP0
- Infor ERP LN 6.1 SP1
- Infor ERP Baan 5.2a

you must have installed solution 208211 and run the correction program mentioned *before* installing porting set 8.2. If you do not have this solution installed, you might not be able to access the environment again. Solution 208211 also describes a workaround for this situation.

Infor Adapter for ERP

This note is only applicable for customers who use the Adapter for ERP.

From now on, Adapter for ERP LN will be delivered as part of the ERP LN application itself, as part of the Porting Set and Tools.

Due to the new delivery, conflicts with existing installations, such as 2.6 and 2.7, can arise. The following sections describe the various scenarios that users might encounter.

ERP LN without any Adapter yet

- Upgrading the porting set to 8.2b or later delivers the files ow.jar and ow3p.jar and owconfig.properties.
- Installing the Infor Enterprise Server 8.3 AddOn delivers all the ERP LN sessions and API, such as tmboaserver, tmbdeserver, and so on.

ERP LN with Adapter for ERP LN 2.6 or 2.7

- Upgrading porting set to 8.2b or later delivers the files ow.jar and ow3p.jar and owconfig.properties.

This setup can conflict with the existing b3.jar and owxml.jar files. Therefore, you must remove these files, after which, ERP LN will continue to work with 2.7 ERP LN code and Integration 6.x java code.

- Installing the Infor Enterprise Server 8.3 AddOn delivers all the ERP LN sessions and API, such as tmboaserver, tmbdeserver, and so on, based on Adapter for ERP version 6.x.

Installation procedure

Porting set installation

Installation of porting set 8.4a requires, as a minimum, Infor Installation Wizard 13.4.3.

- 1 Download the Installation Wizard and the appropriate porting set installable unit. For convenience, store the Wizard and the installable unit in the same folder.

Note: You can download both installable units from <http://onepoint.infor.com> generic solution 148218.

- 2 Start the Staging Wizard for the environment you want to update.

Note: You can start the Staging Wizard from
<Staging Area>\Start\StagingWizard.bat.

- 3 On the **Welcome** screen, click **Next**.
-

- 4 Select as the **Source** directory the name of the directory to which the installable units of the installation wizard and porting set are downloaded.
- 5 Click **Next**.
- 6 Select both installable units and click **Next**.
- 7 Select **Yes, Start the Infor Installation Wizard** and click **Next**.

Note: If your currently installed porting set is older than 8.4a you must install the Visual Studio 2005 runtime files before you start the Installation Wizard.

To install these runtime files, run the file `vcredist_x86.exe`, which is provided in the root directory of the porting set Installable Unit, and start the Installation Wizard.

- 8 Verify the information and click **Next**.

The Installation Wizard is now installed.

- 9 Click **Next**. The Installation Wizard Welcome screen appears.
- 10 Click **Next**.
- 11 Select the environment to update and click **Next**.
- 12 Select the installable unit of the porting set 8.x and click **Next**.
- 13 Select the porting set for the appropriate platform and click **Next**.

The remainder of the steps varies by platform but is rather straightforward. For details on these steps, refer to the installer Help or the *Overall Installation Guide* (U8204 US).

Chapter 6

Installation Procedure Infor Baan ERP 5.0b/c

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This porting set can only be used for ERP Baan 5.0b or 5.0c when the conditions for upgrading from the 7.1d porting set line are met. For more detail, refer to the *User's Guide to Upgrade to Porting Set 8.2b or Later (U8985 US)*“ for details.

This document is available at solution 105618 at:

<http://onepoint.infor.com>.

[Unix/Linux] Shared memory allocation changed

With porting set 8.3a the allocation of a shared memory segment is changed. One memory segment is allocated dynamically instead of based on the predefined addresses in \$BSE/lib/shm_param with a default fixed size. When the ERP LN's SHM size was larger than this size some manual action has to be taken.

With the new porting set it's only required to have a large enough memory segment defined.

Take the following steps to check if you have to make adjustments after the installation of the porting set.

- 1 Before upgrading to the new porting set run:

```
shm_manager6.2 -s 2>&1 | grep USED
```

For example: USED BYTES 35857640 FREE BYTES 14474008 SHMID 3
NO ATTCH 90

Sum up the number of 'USED BYTES' if there are multiple lines and remember that quantity; this is the used shared memory at this moment.

If the number is more than 50331648 (48 MB) you must adjust \$BSE/lib/shm_config later.

- 2 Install the porting set
- 3 Start the environment.
If the used shared memory is higher than 48 Mb adjust \$BSE/lib/shm_config. Uncomment and raise the value of shm_segment_size to at least the number noted in step 1.
- 4 Restart the environment.

Use previous shared memory manager behavior

It's also possible to fall back to the previous shared memory behavior, thus by using the binary shm_values6.2 and the parameter file \$BSE/lib/shm_param

Do so by adding the following line to \$BSE/lib/defaults/all

shm_compat_mode:1

On AIX this might give an issue with default start 30000000 value due to link option maxdata=20000000 -> start value might need to go to e0000000

Porting set installation procedure

This procedure describes how to install the porting set in an existing Infor ERP Baan 5.0b or 5.0c environment which already is upgraded to porting set 8.2b or later.

The installation will be performed using the Infor Installation Wizard, which runs on Windows. For ERP Baan running on Windows the install must be performed on that system; a local install. For Unix the installation is a remote installation performed from a Windows client.

Prerequisites

You need:

- the porting set Installable Unit for your platform
 - Infor Installation Wizard 13.4.3 or later
-

Preparation

Inform the users the environment will go down.

- Create a temporary directory, for example; tempinstall
- Unpack the Installation Wizard in a subfolder of the temp folder, e.g. tempinstall\IW
- Unpack the porting set in a subfolder of the temp folder, e.g. tempinstall\ps

Installation

Note: logging information will be available in the folder “Logging Files”. This folder is available on the same level as the temporary created directory.

- Stop the environment via the standard procedures
- Start the Installation Wizard by starting **setup.exe** in the IW folder:
example: tempinstall\IW\setup\setup.exe

Note: If your currently installed porting set is older than 8.4a you must install the Visual Studio 2005 runtime files before you start the Installation Wizard.

To install these runtime files, run the file vcredist_x86.exe, which is provided in the root directory of the porting set Installable Unit, and start the Installation Wizard.

Note: Upon startup the Installation Wizard will scan the parent folders for the availability of 'installable units'. If these are not found it will return with an error message and exit. Make sure the porting set installable unit is in the folder structure as described in 'preparation'.

- Click **Next** on the **Welcome** screen
- On the **Environment** screen provide an 'environment' name and click **Next**

The given 'environment name' is only used in the context of this installation and can be found back in the 'logging files' folder.

- On the '**Select Installable Units**' screen select the (appropriate) porting set and click 'Next'.
 - On the "**Infor Environment Location**" screen the choice will be 'local' for a Windows update and 'remote' for a Unix/Linux update. Click **Next**
 - On the '**Host name**' screen
Windows: check the Hostname and loginname and click **Next**
Unix/Linux: provide following information and click **Next**
-

- hostname
- loginname: commonly bsp
- password (of loginname)
- Super User password (root password)
- On the '**Destination directory**' provide the installation directory of the ERP environment and click **Next**
- On the '**Configuration Files**' screen click **Next** (assuming you don't want to change existing settings)
- On the '**Ready to Install**' screen check the settings and click **Install**

If somehow the installation fails, save the error-message and the 'Installation Failed' screen will appear. Click the **Log info** button to get additional information where logging information can be found.

- On the '**Installation completed**' screen click **Finish**
Environment can be given to the users again.
-

Chapter 7

Known Issues/points of attention

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Porting set 8.4a

DEM impact

ERP LN 6.1, ERP 5.2a and ERP 5.0 customers using DEM are advised to add the following line to **\$BSE/lib/defaults/all**

```
bshell_max_strbuf_size:131072
```

Not setting this resource will lead to 'string stack overflow' problems, resulting in bshell crash. UI symptom in BW: "Connection with server lost."

Dump format changed

The internal dumpformat generated by bdbpre, via session 'create sequential dump of tables', is improved. Older porting sets will not be able to read this dump format.

Via the environment variable PREVERSION=3 or the resource preversion:3 it is possible to enforce dumping in the old format.

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.

[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 on the following link:

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

[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

Porting set 8.3a or later

Shared memory management

With porting set 8.3a the memory segments used for shared memory are dynamically allocated during startup of the shared memory manager instead of based on the predefined segments defined in \$BSE/lib/shm_param with the earlier porting sets.

During the first start of shared memory the shared memory manager will log in \$BSE/lib/shm_config which size is default taken for the memory segment.

example: # shm_segment_size:50331648

In this example the segment is 48Mb

Default size too small

It is possible that the default is too small for your environment.

In that case you will see in the logfile \$BSE/log/log.srdd_init6.2 the following message:

All memory blocks are used

```
shmmanager6.2 -s
```

```
USED BYTES 592044 FREE BYTES 16185172 SHMID 13 NO ATTCH 6
```

Maximum allowed memory allocation

For all Unix/Linux systems:

The shared memory manager requires to be able (at default) to allocate 50331648 bytes of shared memory or any amount of bytes as specified in \$BSE/lib/shm_config with the shm_segment_size:<size> resource. The shared memory manager will fail to start if the kernel or operating system does not allow allocating requested amount of shared memory. The shared memory manager will then return with an error, indicating that allocation of shared memory failed. The kernel settings, which dictate a minimum or maximum are system specific.

For Linux systems: to be able to run the shared memory manager, the value in /proc/sys/kernel/shmmax need to have a value of at least 50331648.

For SUN systems: you need to add a line in /etc/system file like: set shmsys:shminfo_shmmax=<value>, where value should be at least 50331648.

For other Unix systems: use the administrative tools for your OS to adjust the required kernel setting.

Porting set 82b or later installed: No license to run object

After the installation of porting set 8.2b or later it is under certain conditions not possible to run sessions of the 'da' package. Error messages in the logfile:

No license to run object

'd:\baan6\application\da3.3_b\lodaxch\oxch0501' (productId 0). Cannot open Package Security File

For Infor ERP LN 6.1 FP2 install solution 212523

For Infor ERP Baan 5.0 install solution 208194

Java: Crashes JIT compiler

If the JIT compiler stops responding when you use the Java interface, disable the JIT compiler. To do so, set the following value in `$BSE/java/jvm_options`:

- `-Djava.compiler=NONE`

Oracle 10.2

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

IBM AIX and Java 1.4 / Adapter for ERP LN

Note:

This issue was described in the Technical Notes for a previous porting set, but is resolved as of version 8.2b. As a result, you no longer are required to set `LDR_CNTRL=USERREGS`.

In particular situations, the `tmboaserver` can crash with the following error:

```
JVMCI200 - ERROR: User register saving is not enabled,  
Garbage Collection could be incorrect.
```

```
JVMCI200 - ERROR: because of this the JVM library is  
explicitly aborting the process
```

```
JVMCI200 - ERROR: You must either rebuild the executable  
using "-bM:UR"
```

```
JVMCI200 - ERROR: or run with "export LDR_CNTRL=USERREGS"
```

This appears to be an issue with the latest versions of IBM Java 1.4: builds from January 2006 or later.

As a workaround, you can start the `bshell` with a script that contains:

```
LDR_CNTRL=USERREGS
```

Informix IDS 10

Before you install ERP LN 6.1, extend the value of SHMADD in your onconfig file to the following:

SHMADD **32768** # Size of new shared mem. segments (Kbytes)

If you use the standard value (8192), you can reach the maximum number of shared memory segments and, as a result, the database stops responding.

Oracle 9.2.0.6 and 10.1.0.4

At the time this porting set was released, an issue existed with Oracle 9.2.0.6 and 10.1.0.4 patches. After you upgrade to this Oracle patch, you might not be able to log in again and receive error 7413 (ORA-6413).

For the latest information on this issue, check solution **200328**.

Range expression validation 7.6b

With porting set 7.6b, the validation of domain range expressions is extended with additional logging.

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

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

Examples of range definitions that are reported include:

- **[c-a]**: This issue is reported as a problem because **A** comes before **C**. During runtime, only **c** is selected.

Using **[a-c]**, the developer receives the range of A, B, and V.

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

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

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

Alternatively, the developer might have wanted to have the selection of dot, underscore, and dash. In that case, the developer can use `[_.\-]` [**underscore dot backslash dash**].

Because a dash is a special character in the range definition, a 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: host name length limited to a maximum 20 characters in length

HP-UX 11.23.05.05 and later support extended host name lengths. ERP LN 6.1 does not support host names greater than 20 characters in length.

8.4a: 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.

8.4a: Combo driver support for Unix/Linux platforms

Until now the bshell and the related database driver are running as two separate processes.

It is now also possible to have them both running in the context of one process, the so called, combo driver.

To have bshell and database driver run within the context of one process add an extra entry for the database driver \$BSE/lib/ipc_info for direct connection, represented by a 'd', pointing to the correct shared library:

oracle8	d	ora8_srv6.2
oracle8	s	\${BSE}/bin/ora8_srv6.2
informix	d	inf_srv6.2
informix	s	\${BSE}/bin/inf_srv6.2

db2v5	d	db2v5_srv6.2
db2v5	s	\${BSE}/bin/db2v5_srv6.2
mysql	d	mysql_srv6.2
mysql	s	\${BSE}/bin/mysql_srv6.2

8.3a: Dynamic shared memory allocation

Upon startup the shared memory manager will create itself a `$BSE/lib/shm_config` file showing the defaults used. The `shmmanager.6.2.log` will show more detailed information about the memory allocation. There is no need predefined segments anymore. The file `$BSE/lib/shm_param` and binary `$BSE/bin/shm_values` have become obsolete.

8.3a: Informix array insert performance improvement

Importing large datasets can be accelerated up by using the array interface

Set following values to your `db_resource` file

- `inf_init:0200000`
- `inf_max_array_insert:100`

8.2b: Informix statistics

With these porting set IDS statistics will be used. To disable usage you can set the following parameter in the `$BSE/lib/defaults/db_resource` file:

```
inf_update_statistics:0
```

8.2b: PAM Pluggable Authentication Module(s)

Only applicable for the UNIX and Linux flavors:

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

8.2b: Configurable log size

You can now adjust the maximum log size of the files in \$BSE/log by setting the following parameter in the \$BSE/lib/defaults/db_resource file:

- log_size:<size in kbyte>
- The default value is 512

8.2b: getting the JVMI version

To check the version of the jvmi, you can now use the following command:

- `java -cp bjvmi.jar BJVMIVersion`

The response resembles the following:

```
bjvmi.jar version: 8.2b
Port no.          : PA.3059
Java version      : 1.4.2
OS name           : AIX
OS arch           : ppc
OS version        : 5.3
```