



forward faster

►► SSA® Enterprise Server

Technical Notes for Porting Set 8.3a.01

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About this Guide

This document provides the Technical Notes to inform you about the SSA Enterprise Server Porting Set 8.3a

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 number and title. More specific information will enable us to process feedback efficiently.

This chapter describes the operating system and database combinations supported to deploy SSA ERP LN 6.1, SSA ERP 5.2a, and SSA 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HP has withdrawn support for HP-UX 11.00 as of December 2006.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 advised to migrate to a later version.

Solaris 8

February 16 2007, Solaris 8 general availability support will be ended by Sun. Customers are 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.

Platform support: x86 based

ERP LN solutions, such as SSA ERP 5.0c and SSA 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 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.mspx>

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 SSA Enterprise Server 8.3 it is supported to run SSA 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 not supported in combination with VMWare.

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

HP Integrity VM

With SSA Enterprise Server 8.3 and porting set 8.3a.01 or later it is supported to run SSA 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 SSA License Manager *Server* is not supported in a virtual server environment.

Support matrix SSA ERP LN 6.1 and SSA Baan ERP 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	2000, 2005	5.0
HP PA_RISC HP-UX	11i v1, v2	+ ^u	+			
HP IA64 HP-UX	11.23, 11.23_0409	+ ^u	10			
Sun Sparc Solaris	8, 9, 10	+ ^u	+			
IBM Power5 AIX	5.2, 5.3	+ ^u	+	+		
Linux x86 Suse	SLES 8, 9	+ ^u	+			+
Linux x86 RedHat	EE 4	+ ^u	+			+
Microsoft x86 Windows	2003	+ ^u			+ ^u	

Notes:

+ : supported

number: supported for the mentioned database version

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

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

ⁿ SSA BaanERP 5.2a is not supported on Linux/MySQL
MySQL is Controlled Available.

Support matrix SSA 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	2000, 2005
HP PA_RISC HP-UX	11i v1, v2	+	+	On request (5.0c only)	
HP IA64 HP-UX	11.23, 11.23_0409	+	9.40, 10		
Sun Sparc Solaris	8, 9, 10	+	+	On request (5.0c only)	
IBM Power5 AIX	5.2, 5.3	+	+	+	
Linux x86 Suse	SLES 8, 9	+	+		
Linux x86 RedHat	EE 4	+	+		
Microsoft x86 Windows	2003	+	+	On request	+

Notes:

+ : supported

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

If you use the Java interface, for example, if you use SSA Open Architecture, 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:

- 1 Make sure the LD_PRELOAD is set as follows:
 - a Create a script 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 $@`
 - b 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`
 - 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`

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 HP-UX

Required OS patches

7.6b was the first porting set built based on HP aC++ A6.02. Be sure to install, at a minimum, the runtime patches for compiler version A6.02 for HP aC++. See the following link:

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

If you use the Java interface, for example, if you use SSA 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 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:

```
bshell_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 SHLIB_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

8.3a is the first porting set built based on XL C/C++ ED V8.0. Make sure the required XL C/C++ Enterprise Edition V8.0 library patches are installed:

<http://www-1.ibm.com/support/docview.wss?rs=2239&context=SSJT9L&dc=D400&uid=swg24012762>

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

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

Infoc recommends Suse SLES 8 with SP3 or SuSe SLES 9.

MySQL

MySQL is only supported for SuSe SLES 9
MySQL is controlled available

Linux x86 RedHat

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

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

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

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

- Patch 109147
- Patch 108434
- Patch 108827

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

Do not use fixpack 9, 10 and 11

Fixpack 12 and 13 did pass internal tests.

IBM Informix

Supported: Informix IDS 7.31, 9.40, 10

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](#)

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

MySQL is Controlled Available.

Java options

Infor recommends that you raise the maximum heap size. To do so, set the following value in \$BSE/java/jvm_options:

- -Xmx256m

Supported Java versions

For this porting set, Infor recommends version J2SE 1.4.2.x.

Infor advises customers to use the latest available minor Java version.

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

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 SSA ERP LN 6.1 and SSA Baan ERP 5.2a

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SSA ERP LN 6.1 FP3 licensing

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

ERP LN 6.1

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

ERP LN 6.1 Service

- SSA ERP 6 Service: 10896
- SSA ERP 6 Service (2): 7117
- SSA Business Data Entity Modeler: 7033
- SSA Business Data Entity Implementation Generator: 7034
- SSA 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. With 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 SSA ERP LN 6.1 FP2 users.

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

- SSA ERP LN 6.1 SP0
- SSA ERP LN 6.1 SP1
- SSA BaanERP 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 SSA Enterprise Server 8.2 (tt_7.6_a or tt_7.6_a1) and whose application version is any of the following:

- SSA ERP LN 6.1 SP0
- SSA ERP LN 6.1 SP1
- SSA Baan ERP 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.

SSA 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 SSA 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 6.0 java code.

- Installing the SSA 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 OA6.0.

Installation procedure

Porting set installation

Installation of porting set 8.3a requires, as a minimum, SSA Installation Wizard 12.

- 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.ssaglobal.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\StaginWizard.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 SSA Installation Wizard** and click **Next**.

Note: If your current porting set is older than 7.6b.01 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 8.2b and click **Next**.
- 13 Select the porting set for the appropriate platform and click **Next**.

The remainder of the steps vary by platform but are rather straightforward. For details on these steps, refer to the installer Help or the *Overall Installation Guide*.

Chapter 6

Installation Procedure SSA Baan ERP 5.0b/c

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This porting set can only be used for ERP 5.0b or 5c when the conditions for upgrading from the 7.1d porting set line are met. For more detail, refer to the *SSA® Baan ERP 5.0c User's Guide to Upgrade to Porting Set 8.2b or Later (U8985A US)* for details.

This document is available at solution 105618 at:
<http://onepoint.ssaglobal.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
```

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 this number is more than 50331648 (48 MB) you have to adjust \$BSE/lib/shm_config later on in this procedure.

- 2 Install the porting set
- 3 Start the environment.
If the used shared memory is higher than 48 Mb adjust \$BSE/lib/shm_config by uncommenting and raising the value of shm_segment_size to at least the number noted in step 1.
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 300000000 value due to link option maxdata=200000000 -> start value might need to go to e0000000

Porting set installation procedure

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

The installation will be performed using the SSA Installation Wizard, which runs on Windows. For BaanERP 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
- SSA Installation Wizard 12.4.3 or later

Preparation

Inform the users the environment will go down.

- Create a temporary directory, e.g. 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: 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 **“SSA 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

7

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\odaxch\oxch0501' (productId 0). Cannot open Package Security File

For SSA® ERP LN 6.1 FP2 install solution 212523

For SSA® BaanERP 5.0 install solution 208194

Java: Crashes JIT compiler

If the JIT compiler stops responding when you use the Java interface, Infor recommends that you disable the JIT compiler.

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

- -Djava.compiler=NONE

Oracle 10.2

The first time you use Oracle 10.2, you can receive a message that the shared libraries are unavailable. In 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 Java1.4: 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, Infor strongly advises you to extend the value of SHMADD in your onconfig file to:

```
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: **[c\ -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.

8.3a: Dynamic shared memory allocation

Upon startup the shared memory manager will create itself a `$BSE/lib/shm_config` file showing the defaults used and the `shmmanager.6.2.log` will show more detailed information about the memory allocation and does not need predefined segments anymore. The file `$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 speeded 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 this 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 Mechanism

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
```