



## ▶▶ SSA® Enterprise Server

# Technical Notes for Porting Set 7.6b

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# About this Guide

This document provides the Technical Notes to inform you about the SSA Enterprise Server Porting Set 7.6b.

This document contains the following chapters:

- Chapter 1, “Operating System Notes” provides information about the supported database and operating system versions for SSA Enterprise Server.
- Chapter 2, “RDBMS Notes,” provides information about the supported databases for SSA Enterprise Server.
- Chapter 3, “Java Support,” provides information about the supported Java versions, as well as some parameter tips.
- Chapter 4, “Known Issues/Points of Attention,” lists various points of attention when you upgrade to this porting set.

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



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# Chapter 1

## Operating System Notes

# 1

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

**Example:** SSA Global provides support for IBM AIX 5.1 on this porting set as long as IBM continues standard support for AIX 5.1.

## End-of-service notifications

### Java

Most vendors will end their support for Java 1.3 by March 2006. Customers are advised to plan migration to at least 1.4.2.

### IBM AIX

IBM will withdraw support for AIX 5L 5.1 as of April 1, 2006. Customers are advised to plan migration to a later version.

### Windows 2000

Be aware that Microsoft has withdrawn standard support for Windows 2000 as of June 2005. Customers are strongly advised to migrate to a later version.

## Hardware support x86

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

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

**Note:** SSA Global currently supports the 32-bit variants of Windows and Suse Linux.

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

**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.mspix>

For Suse Linux, check Novell's hardware requirements.

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

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

## HP PA-RISC HPUX

Supported OS version:

HP-UX 11i: v1, v2: 11.00, 11.11, 11.23

Supported RDBMS: Oracle: 9.2, 10g

Informix IDS: 7.31, 9.40, 10



## Required OS patches

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

[http://h21007.www2.hp.com/dspp/tech/tech\\_TechSoftwareDetailPage\\_IDX/1,1703,1743,00.html](http://h21007.www2.hp.com/dspp/tech/tech_TechSoftwareDetailPage_IDX/1,1703,1743,00.html)

In addition, SSA 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 1.4 support

To enable Java 1.4:

- 1 Make sure the LD\_PRELOAD is set. Take the following steps:
  - a Create a script with the following content:
    - `#!/bin/ksh`
    - `export LD_PRELOAD=/opt/java1.4/jre/lib/PA_RISC2.0/hotspot/libjvm.sl`
    - `$BSE/bin/bshell6.2 $@`
  - b Create a new bshell entry in the \$BSE/lib/ipc\_info like bshell\_j14 that points to the following 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.
  - d Make sure in the BW configuration is: -set LD\_PRELOAD="".
- 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`

## HP IA64 HPUX

Supported OS version: HP-UX 11.23

Supported RDBMS: Oracle 9.2, 10  
Informix IDS 10

### Required OS patches

7.6b is the first porting set built based on HP aC++ A6.02. Be sure to install as 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](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

To enable Java 1.3, add the following to the \$BSE/java/jvm\_options:

```
Djava.library.path=/opt/java1.3/jre/lib/IA64:/opt/java1.3/jre/lib/IA64/classic:/
Baan/bse/shlib:/usr/baan/shared/shlib:/usr/lib
```

**Note:** This assumes that /Baan/bse is the BSE and that /usr/baan/shared is the SSA TA License Manager home directory.

To enable Java 1.4:

- 1 Make sure the LD\_PRELOAD is set. Take the following steps:
  - a Create a script, example bshell\_j14 ith the following content:
    - `#!/bin/kshexport`
    - `LD_PRELOAD=/opt/java1.4/jre/lib/IA64N/hotspot/libjvm.so`
    - `$BSE/bin/bshell6.2 $@`

- b 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_l_j14      s    0    0    p    ${BSE}/bin/bshell_l_j14
```

- c Make sure the bshell name in the BW configuration is: bshell\_j14.
- d Make sure the BW configuration contains the following:  
-set LD\_PRELOAD=""

**Note:** -- is double hyphens.

- 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:  
LD\_LIBRARY\_PATH=/opt/java1.4/jre/lib/IA64N:/opt/java1.4/jre/lib/IA64N  
/hotspot:/opt/java1.4/jre/lib/IA64N/native\_threads

## IBM Power\_PC AIX

Supported OS version: AIX 5.1, 5.2 and 5.3

Supported RDBMS:     Oracle 9.2, 10  
                      DB2 UDB V8.1, V8.2  
                      Informix IDS 9.40, 10

### Required OS patches

7.6b is the first porting set built based on XL C/C++ ED V7.0. Make sure the required XL C/C++ Enterprise Edition V7.0 library patches are installed:

<http://www-1.ibm.com/support/docview.wss?uid=swg24010363>

### DB2 UDB

Make sure the shared library search path LIB\_PATH of the environment points to the DB2 libraries.

## Java 1.4 support

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

## Microsoft x86 Windows

Supported OS version:

- Windows 2000 SP3a and SP4
- Windows 2003 SP1:  
Standard and Enterprise Edition and Small Business Server

Supported RDBMS:      Oracle 9.2, 10  
                             SQL Server 2000

## 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 hotspot library, for example:  
`<JRE install dir>\bin\hotspot` Only valid for java1.3
  - Required path of the `jvm.dll`, for example `<JRE install dir>\bin\client`.  
This requirement only applies to Java 1.4.
  - `C:\Baan\shlib #`, assuming a default installation of Baan.
  - `C:\Baan\bin #`, assuming a default installation of Baan.

## Linux x86 Suse

Supported OS version: SLES 8, 9

Supported databases: Informix 9.40, 10  
Oracle 9.2, 10g

Hardware: Minimal Pentium-III

### 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

SSA Global recommends Suse SLES 8 with SP3 or SuSe SLES 9.

## Sun Sparc Solaris

Supported OS version: Solaris 8 and 9

Supported RDBMS: Oracle 9.2, 10

### Required OS patches

This porting set is 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](http://developers.sun.com/prodtech/cc/downloads/patches/ss10_patches.html)

Solaris 8: Make sure the following Sun OS patches are installed:

- Patch 109147
- Patch 108434
- Patch 108827

## Java 1.4 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 libraries.

## IBM DB2

Supported: DB2 V8.1, V8.2

## IBM Informix

Supported: Informix IDS 7.31, 9.40, 10

### 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>`

The problem is caused by the Informix software and will be solved in a future release of Informix 9.40.

## Informix 7.31

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

## Microsoft SQL Server

Supported:

SQL Server 2000 SP3a and SP4

## Oracle

Supported:

Oracle SE/EE 9.2 and 10g  
Standard Edition, Enterprise Edition and Standard Edition One



## Java options

SSA Global recommends that you deactivate the JIT compiler and raise the maximum heap size. To do so, set the following values in `$BSE/java/jvm_options`:

- `-Djava.compiler=NONE`
- `-Xmx256m`

## Supported Java versions

For this porting set, SSA Global recommends version J2SE 1.4.2.x.

Customers are advised to use the latest available minor Java version.

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

OS	Java 1.3.1	Java 1.4.2
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	Sun JRE	Sun JRE
Sun SPARC Solaris	Yes	Yes

## Installation procedure

To upgrade from a porting set before 7.6a.02 [UNIX/Linux]

This porting set requires a regeneration of the file `$BSE/lib/shm_param`, which is a shared memory related parameter file.

To perform the upgrade, take the following steps:

- 1 Move `$BSE/lib/shm_param`
- 2 Install the porting set. The installation automatically creates a new `$BSE/lib/shm_param` file.
- 3 If you manually adjusted the `shm_param` file in the past, adjust the file again.

If you already installed the porting set without this precaution you run the risk that your shared memory will not start during the installation. In that case, follow this procedure:

- Create a back-up of `$BSE/lib/shm_param`, for example, by means of:  
`mv $BSE/lib/shm_param $BSE/lib/shm_param_<date>`
- Restart the porting set installation.
- If you manually adjusted the `shm_param` file in the past, adjust the file again.

## Porting set installation

Installation of porting set 7.6b requires, as a minimum, SSA Installation Wizard 10.3.03.

- 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 [www.support.baan.com](http://www.support.baan.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 Source directory name 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**.
- 8 Verify the information and click **Next**.

The Installation Wizard is now installed.

- 9 Click **Next**. The Installation Wizard Welcome screen opens.
- 10 Click **Next**.
- 11 Select the environment to update, and click **Next**.
- 12 Select the installable unit 7.6b 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*.

## Informix IDS 10

Before you install SSA ERP LN 6.1, SSA Global 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 moment this porting set was released, an issue exists with Oracle 9.2.0.6 and 10.1.0.4. 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 hostname lengths. SSA ERP LN 6.1 does not support host names beyond 20 characters in length.