forward faster

SSA® Enterprise Server

Technical Notes for Porting Set 7.6b.01

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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.

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@ssaglobal.com.

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

Chapter 1
Introduction

1

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

Example: SSA Global will 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

Java

Most vendors have ended their support for Java 1.3 as of March 2006. Customers are advised to plan migration to at least 1.4.2.

IBM AIX

IBM has withdrawn support for AIX 5L 5.1 as of April 1, 2006.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

Windows 2000

Microsoft has withdrawn standard support for Windows 2000 as of June 2005.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

ERP LN solutions 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: Currently, SSA Global supports the 32-bit variants of Windows. For Linux RedHat and Suse, both 32 and 64 bit are supported. Be aware that Baan ERP 5.0c is a 32-bit application and therefore needs 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: SSA Global cannot guarantee that the information will be available on the provided links. This information is provided merely for your convenience.

Chapter 2
Operating System Notes

2

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

Multi-language (Unicode) support

With this porting set, Unicode-based installation is supported for:

- AIX / Oracle 10
- HP-UX / Oracle 10

HP PA-RISC HPUX

The supported OS versions are:

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

The supported RDBMSs are:

- Oracle: 9.2, 10.1 and 10.2
- 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

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 support

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 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 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.
   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

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 HPUX

The supported OS version is:

- HP-UX 11.23

The supported RDBMSs are:

- Oracle 9.2, 10.1 and 10.2
- Informix IDS 10

Required OS patches

7.6b is 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

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.

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

1. Make sure the LD_PRELOAD is set:
   a. Create a script, for example, bshell_j14 with 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_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 the BW configuration contains the following:
      -set LD_PRELOAD=""

      Note: The symbol -- is double hyphens.
2. Make sure the ${BSE}/java/jvm_options file exists and contains: -Xusealtsigs.
3. 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

The supported OS version is:

- AIX 5.1, 5.2 and 5.3

The supported RDBMSs are:

- Oracle 9.2, 10.1 and 10.2
- 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.

Linux x86 Suse

The supported OS version is:

- SLES 8, 9

The supported databases are:

- Informix 9.40, 10
- Oracle 9.2, 10.1 and 10.2

The required hardware is:

- 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.

Linux x86 RedHat

The supported OS version is:

- RedHat Enterprise 4

The supported databases are:

- Informix 9.40, 10
- Oracle 9.2, 10.1 and 10.2

The required hardware is:

- Pentium-III (minimum)

Microsoft x86 Windows

The supported OS version is:

- Windows 2003 SP1 and R2:
  Standard and Enterprise Edition and Small Business Server

The supported RDBMSs are:

- Oracle 9.2, 10.1 and 10.2
- 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.

     Note: This path is valid only for Java 1.3.
   - Required path of the jvm.dll, for example <*JRE install dir*>\bin\client.

     Note: This requirement is only valid for Java 1.4.
   - C:\Baan\shlib #, assuming a default installation of Baan.
   - C:\Baan\bin #, assuming a default installation of Baan.

Sun Sparc Solaris

The supported OS version is:

- Solaris 8, 9 and 10

The supported RDBMSs are:

- Oracle 9.2, 10.1 and 10.2

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

For 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.

Chapter 3
RDBMS Notes

3

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 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

Oracle

Supported:

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

Chapter 4
Java Support

4

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.

SSA Global advises customers 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 1.4.2	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
Known Issues/Points of Attention

5

ERP Installer 11 and porting set 7.6b.01

Porting set 7.1b.01 and later and ERP Installer 11 and later are built with Visual Studio 2005. You must install the Visual Studio 2005 runtime files, otherwise, no program will run.

To install the runtime files, you can run the file vcredist_x86.exe. This file is in the root directory of the related Installable Unit.

Installation procedure

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

This porting set requires that you regenerats 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 this 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, use the following 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 this file again.

Porting set installation

Installation of porting set 7.6b.01 requires, as a minimum, SSA Installation Wizard 11.5.

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, 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**.

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 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*.

IBM AIX and Java 1.4 / Adapter for ERP LN

In certain situations, the tmboaserver crashes 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, 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 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.