
PROGRESS[®] ORBIX[®]

Core Services Release Notes

Version 3.3, Service Pack 11, March 2012

Progress Orbix v3.3.11

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Introduction

Orbix 3.3 SP 11 Core Services is a service pack release of Orbix 3.3 on the following platforms:

- Microsoft Windows
- Red Hat Enterprise Linux 5
- Sun Solaris x86_64
- Sun Solaris SPARC
- IBM AIX
- HP-UX Itanium

Orbix 3.3 SP 11 Core Services includes Orbix Java Edition, Orbix C++ Edition, and OrbixNames. This document contains information about Orbix 3.3 SP 11, including build information, details of bugs fixed in this release, known problems and workarounds, new features, tips, and deprecated features.

Orbix 3.3 SP 11 and Orbix 3.0.1

For details of the changes that took place between Orbix 3.0.1 and Orbix 3.3, see the Orbix 3.3 Release Notes at <http://communities.progress.com/pcom/docs/DOC-105220>.

Migrating from an Earlier Version of Orbix

For information on migrating from an earlier version of Orbix to Orbix 3.3 SP 11, see the Migration Guide at: <http://www.progress.com/en/orbix/index.html>.

Interoperability with Other Orbix Products

The Java and C++ editions of Orbix 3.3 SP 11 are tested with, and are interoperable with, each other except for those areas that are documented under known problems.

The Java and C++ editions of Orbix 3.3 SP 11 have also been tested with, and are interoperable with, the following Orbix products:

- Previous Orbix 3.3 C++ and Java editions.
- Orbix E2A Application Server Platform 6.0 SP3 C++ and Java.
- Orbix Trader 1.2.1 Java Edition (no C++ edition available).
- Orbacus 4.0.5.
- Orbix 3.0.1

- OrbixWeb 3.2

Licensing

- The IDL compilers, `idl` and `idlj`, are licensed.
- The Orbix daemon `orbixd` is licensed.
- The OrbixSSL update utility is licensed.

Deprecated Features Policy

When a feature is deprecated it means that:

- No support for this feature is given for the current version and for subsequent versions (we do not explain how to use it, and we do not fix any bugs in this feature).
- If you have not used this feature before, DO NOT start using it with this release.
- If you are already using this feature, you should remove it if at all possible.
- The feature may not be present in future versions of the product.

Documentation Errata

The following is a list of errors in the Orbix 3.3 documentation.

- The `CORBA::ORB::connectionTimeout()` is in milliseconds and not in seconds as stated in the *Orbix Programmer's Reference, C++ Edition*.

Development Environments

For details of the operating system versions and compiler versions on which Orbix 3.3 SP 11 is built and certified, see the following page:

<http://communities.progress.com/pcom/docs/DOC-105810>

Note: You may build and run an Orbix 3.3 SP 11 application on any of the platforms listed for Orbix 3.3.

Java-Specific Information

This section contains information that is relevant for all elements and services that use Java.

JRE not included

The Orbix 3.3 SP 11 installer does not include a Java Runtime Environment (JRE).

JAVA_P_FLAG

The `JAVA_P_FLAG` environment variable was introduced in Orbix 3.3 SP 7. The purpose of this flag is to accommodate Orbix 3.3 Java's ORB classes implementation to take precedence over Sun's, while running Orbix 3.3 Java applications. The Orbix 3.3 SP 11 installer automatically sets the value of this variable to `/p`.

When Orbix 3.3 SP 11 is installed, this variable is available in the `setenv.sh` environment script, which enables it to be set in the Orbix environment.

For more details, read the following Knowledge Base article (4799.578):

- [What is JAVA_P_FLAG for and how is it used in Orbix 3](#)

Orbix 3.3 SP 11 Core Services C++ Edition

This section describes changes made to the Orbix 3.3 SP 10 C++ Edition for the Orbix 3.3 SP 11 C++ Edition.

New Features

Orbix 3.3 SP 11 C++ Edition is binary compatible with Orbix 3.3 C++ Edition. Orbix 3.3 SP 11 C++ Edition now supports integration with Actional. This enables Orbix 3.3 applications and services to be monitored using Actional SOA management tools. Actional integration feature provides end-to-end visibility into the availability and performance of distributed Orbix applications. For more details, refer to the "Actional Integration with Orbix" guide for Orbix 3.3 SP11.

New and Modified APIs

Orbix 3.3 SP 11 C++ Edition is binary compatible with Orbix 3.3 C++ Edition. There are no new APIs, and no existing APIs are modified.

Functionality Removed

Orbix 3.3 SP 11 C++ Edition is binary compatible with Orbix 3.3 C++ Edition. No functionality is removed.

Deprecated Features

The following is a list of deprecated features in Orbix C++ Edition:

Feature	Description	Feature Removed	When Deprecated
<code>_bind()</code>	Should use other means.	No	Orbix 3.0
Transformers	Can use SSL for security.	No	Orbix 3.0
Piggy backing data with filters	Should use Service Contexts.	No	Orbix 3.0
Opaque data type		No	Orbix 3.0
Orbix network protocol (POOP)	Must use IIOP instead.	No	Orbix 3.0
IDL compiler options <code>-i</code> and <code>-f</code>		No	Orbix 3.0
IR	Replaced with the IFR.	Yes	Orbix 3.0
Locator	Can implement own load balancing solution.	Yes	Orbix 3.3

Non-native exceptions	Must use Native Exceptions	Yes	Orbix 3.3
TIE macro DEF_TIE(I,X)	Use other form	Yes	Orbix 3.3
Configuration Explorer (ConfigurationExplorer.bat)	Configure Orbix components without modifying the configuration files directly.	No	Orbix 3.3 SP 5
Server Manager (ServerManager.bat)	Allows you to manage the Implementation Repository.	No	Orbix 3.3 SP 5

Note: Orbix 3.0 was released February 1999 and Orbix 3.3 was released September 2000.

Bugs Fixed

This section describes the bugs fixed in this release. All bugs are described in terms of the following:

- Incident ID
This is the reference number used by the development teams to track bugs, which may in turn relate to one or more problem reports (PR) as reported by customers.
- Synopsis
This is a short description of the reported problem. A description of the fix is included where necessary.

The following bugs were fixed in Orbix 3.3 SP 11 C++ Edition:

Incident ID	Synopsis
ORBTHREE-573	Orbix 3.3.9 use of Getusername on vista causes Orbix to crash .
ORBTHREE-838	Orbix server crashes after installing Orbix3.3 SP10.
ORBTHREE-864	Sequence of sequence gives segmentation fault during code generation on Solaris.
ORBTHREE-934	Memory leak in Orbix server.

Orbix 3.3 SP 11 Core Services Java Edition

This section describes changes made to the Orbix 3.3 SP 9 Java Edition for the Orbix 3.3 SP 11 Java Edition.

New Features

Orbix 3.3 SP 11 Java Edition is binary compatible with Orbix 3.3 Java Edition. Orbix 3.3 SP 11 Java Edition now supports integration with Actional. This enables Orbix 3.3 applications and services to be monitored using Actional SOA management tools. Actional integration feature provides end-to-end visibility into the availability and performance of distributed Orbix applications. For more details, refer to the "Actional Integration with Orbix" guide for Orbix 3.3 SP11.

New and Modified APIs

Orbix 3.3 SP 11 Java Edition is binary compatible with Orbix 3.3 Java Edition. No new APIs were added, and no existing APIs were modified.

Functionality Removed

Orbix 3.3 SP 11 Java Edition is binary compatible with Orbix 3.3 Java Edition. No functionality is removed.

Deprecated Features

The following is a list of features deprecated in Orbix Java Edition:

Feature	Description	Feature Removed	When Deprecated
<code>_bind()</code>	Should use other means.	No	OrbixWeb 3.2
Transformers	Can use SSL for security.	No	OrbixWeb 3.2
Piggy backing data with filters	Should use Service Contexts.	No	OrbixWeb 3.2
Opaque data type		No	OrbixWeb 3.2
Orbix network protocol (POOP)	Must use IOP instead.	No	OrbixWeb 3.2
IDL compiler options <code>-i</code> and <code>-f</code>		No	OrbixWeb 3.2

Orbix Java activator (orbixdj.bat)	Java activator in graphical mode	No	Orbix 3.3 SP 5
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Note: OrbixWeb 3.2 was released February 1999.

Bugs Fixed

This section describes the bugs fixed in this release. All bugs are cross platform unless otherwise stated. All bugs are described in terms of the following:

- Incident ID
This is the reference number used by the development teams to track bugs, which may in turn relate to one or more problem reports (PR) as reported by customers.
- Synopsis
This is a short description of the reported problem. A description of the fix is included where necessary.

The following bugs were fixed in Orbix 3.3 SP 11 Java Edition:

Incident ID	Synopsis
ORBTHREE-525	The ClientConnection not cleaned up properly from ConnectionTable when the server process exits.
ORBTHREE-804	Race condition in unmarshalling any.

OrbixNames 3.3 SP 11

This section describes changes made to OrbixNames 3.3 SP 9 for OrbixNames 3.3 SP 11.

New Features

OrbixNames 3.3 SP 11 is binary compatible with OrbixNames 3.3. No new features are added, and no existing features are modified.

New and Modified APIs

OrbixNames 3.3 SP 11 is binary compatible with OrbixNames 3.3. No new APIs are added, and no existing APIs are modified.

Functionality Removed

OrbixNames 3.3 SP 11 is binary compatible with OrbixNames 3.3. No functionality is removed.

Deprecated Features

The following is a list of features deprecated in OrbixNames:

Feature	Description	Feature Removed	When Deprecated
Names Service browser (NamesBrowser.bat)	Allow you to monitor and manage the Naming Service externally to your applications.	No	Orbix 3.3 SP 5

Bugs Fixed

There were no bugs fixed in OrbixNames in this release.

Orbix SSL C++ 3.3 SP 11

This section describes changes made to OrbixSSL C++ 3.3 SP 9 for OrbixSSL C++ 3.3 SP 11.

New Features

OrbixSSL C++ 3.3 SP 11 is binary compatible with OrbixSSL C++ 3.3. No new features are added, and no existing features are modified.

New and Modified APIs

OrbixSSL C++ 3.3 SP 11 is binary compatible with OrbixSSL C++ 3.3. No new APIs are added, and no existing APIs are modified.

Functionality Removed

OrbixSSL C++ 3.3 SP 11 is binary compatible with OrbixSSL C++ 3.3. No functionality is removed.

Credit Attribution

1. The bundled OpenSSL command line utility and toolkit includes software written by Eric A. Young (ey@cryptsoft.com). The version of OpenSSL used is 0.9.8i. The cryptographic libraries used by OrbixSSL C++ were also written by Eric A. Young. For more details on OpenSSL please see the OpenSSL website at www.openssl.org.

Bugs Fixed

No bugs were fixed in Orbix SSL C++ 3.3 SP 11.

Known Problems

The installer does not automatically update the 64-bit SSL libraries with the default location of the Orbix SSL configuration file.

Orbix SSL Java 3.3 SP 11

This section describes changes made to OrbixSSL Java 3.3 SP 9 for OrbixSSL Java 3.3 SP 11.

New Features

OrbixSSL Java 3.3 SP 11 is binary compatible with OrbixSSL Java 3.3. No new features are added in this release.

New and Modified APIs

OrbixSSL Java 3.3 SP 11 is binary compatible with OrbixSSL Java 3.3. No new APIs are added, and no existing APIs modified.

Functionality Removed

OrbixSSL Java 3.3 SP 11 is binary compatible with OrbixSSL Java 3.3. No functionality is removed.

Deprecated Features

The following is a list of features deprecated in OrbixNames:

Feature	Description	Feature Removed	When Deprecated
RC2 Cipher Suite	JCP toolkit	YES	Orbix 3.3
JPK File Support	JPK file support for loading private keys in OrbixSSL Java. <code>keyenc</code> utility remains for converting OrbixSSL private keys.	NO	Orbix 3.3.1

Bugs Fixed

There were no bugs fixed in OrbixSSL Java in this release.

Credit Attribution

1. The bundled OpenSSL command line utility and toolkit includes software written by Eric A. Young (eay@cryptsoft.com). The version of OpenSSL used is 0.9.8i. The cryptographic libraries used by OrbixSSL C++ were also written by Eric A. Young. For more details on OpenSSL please see the OpenSSL website at www.openssl.org.
2. OrbixSSL Java uses the JSSL/Jcrypto 2.0 toolkit as its backend SSL engine. The cryptographic libraries used by OrbixSSL Java were written by Baltimore Technologies.

Appendix

This appendix contains information that is relevant to all versions of Orbix 3.3. It does not contain information that is relevant to only one version of Orbix 3.3. It contains information about performance tips, known problems and workarounds, enhancements and new features to Orbix 3.3, but not introduced in this version. It does not contain any information about bug fixes (please refer to previous release notes for these).

This appendix contains the following sections:

- Orbix C++ Edition
- Orbix Java Edition
- OrbixNames

Orbix C++ Edition

This section describes changes made to Orbix Generation 3 C++ Edition products between Orbix 3.3 and Orbix 3.3 SP 9, which are relevant to Orbix 3.3 SP 11 C++ Edition.

New APIs

The following new APIs were added in Orbix 3.3 SP 9:

- `CORBA::BOA::getFileDescriptors(int*& fdSet)`
- `CORBA::ORB::getAllOrbixFDs(int*& fdSet)`
- `CORBA::ORB::getForeignFDSet(int*& fdSet)`
- `CORBA::ORB::getSelectableFDSet(int*& fdSet)`

See the *Orbix Reference Guide, C++ Edition* for more details.

IFR Refactoring

Some refactoring of the IFR implementation was carried out in Orbix 3.3 SP 5 that affects repository storage. These changes affect the internal representation of the IFR repository. With the new IFR, it is possible to continue using the existing IFR repository. However, if you start using the new IFR and need to revert back to older versions (pre-Orbix 3.3 SP 4), the IFR repository needs to be depopulated up and repopulated using the original IDL files or a backup of the old repository. It is recommended that you backup your IFR repository before installing any service pack after Orbix 3.3 SP 5.

Tips

IT_MASK_SIGTERM, IT_MASK_SIGQUIT and IT_MASK_SIGINT

The `IT_MASK_SIGTERM`, `IT_MASK_SIGQUIT`, `IT_MASK_SIGINT` configuration variables are used to mask asynchronous signals (`SIGTERM`, `SIGQUIT`, `SIGINT`). While `IT_MASK_SIGUSR1` and `IT_MASK_SIGUSR2` are used to mask the user signals (`SIGUSR1`, `SIGUSR2`). In Orbix internal threads, do not use the `setConfigValue()` method to set these variables.

Before you start your application, you should export these variables as follows:

```
export IT_MASK_SIGTERM=YES
export IT_MASK_SIGQUIT=YES
export IT_MASK_SIGINT=YES
export IT_MASK_SIGUSR1=YES
export IT_MASK_SIGUSR2=YES
```

Known Problems

This section summarizes known issues and suggested workarounds for earlier Orbix 3.3 releases.

Incident ID	Synopsis
ORBTHREE-1	Orbix daemon memory leak.
64992	There is a known problem with foreign FDs (File Descriptors) on HP-UX 11. When Orbix is asked to manage foreign FDs, there are some situations where the process hangs. It is not typical to ask Orbix to manage foreign FDs, and this problem can be avoided by not asking Orbix to manage foreign FDs.
64991	There is a known problem using C++ keywords in various situations in the IDL file. Using C++ keywords for attribute names, operations names and field names (of structures and exceptions) works. However, using C++ keywords as the type name of a module, interface, exception, or struct does not work. Customers should avoid using C++ keywords in the IDL as the type names of modules, interfaces, exceptions, and structs.
56121	The IDL compiler issues warnings if the IDL contains identifiers that are reserved keywords but not all lower case. For example, the IDL "interface Attribute{};" causes the warning "Warning : identifier Attribute clashes with keyword" even though it is a valid interface name and is case-different from the reserved keyword "attribute".
55600	No overloaded output-streaming operator (<<) is provided for the unsigned long long CORBA type (CORBA::ULongLong) in Orbix 3.3.
55599	No overloaded output-streaming operator (<<) is provided for the signed long long CORBA type (CORBA::LongLong) in Orbix 3.3.
55547	Orbix 3.3 generated IDL stub code on Windows NT for multi-dimensional arrays as in parameters should work around known VC6 multidimensional array const bug.
56334	When service context handlers in Orbix runtime encounter an abnormal condition, the diagnostic messages are not very informative.

Compilation problems on Windows NT result in the following error message:

"Warning: Orbix wants an fd_set of size 1024 or greater. Please include CORBA.h before winsock2.h"

This may be resolved by defining WIN32_LEAN_AND_MEAN when compiling.

For example: `CL /c ... -DWIN32_LEAN_AND_MEAN ... myFile.cpp`

If you do not wish to use this option when compiling, you may also resolve the problem by editing `corba.h` by moving line 22,

```
#include <corba/PreCORBA.h>
```

to the position immediately after line 15,

```
#define CORBA_INCLUDES
```

Actional Integration

Usage of the Actional Integration feature in conjunction with a Thread Filter will result in the Actional Integration not reporting correctly when the `ThreadFilter inRequestPreMarshal()` method implementation returns -1. This is caused by the fact that the Actional Interceptor is implemented using Filters, and returning -1 from a `ThreadFilter inRequestPreMarshal()` method causes all subsequent Filters in the Filter not be invoked.

On HP-UX systems, the Actional Integration feature may fail to dynamically load within single-threaded processes.

The Actional Integration feature is implemented as a shared library that is dynamically loaded by the Orbix C++ runtime. This shared library links to a multi-threaded Actional C SDK library, used to communicate with the Actional Agent service. The HP-UX dynamic loader may fail to dynamically load this multi-threaded library within a single threaded process (that is, the orbix daemon).

In order to work around this issue, the `LD_PRELOAD` environment variable should be set so that the `pthread` library is preloaded.

To diagnose this issue and determine the location of the `pthread` library, perform the following:

HP-UX PA-RISC:

- Set the environment variable `IT_SHLIB_VERBOSE` to 1
- Execute your single-threaded process
- Look for the following line in the output:
 - `/usr/lib/dld.sl: Can't shl_load() a library containing Thread Local Storage: /usr/lib/libpthread.1`

To resolve the issue, set `LD_PRELOAD` as shown:

- `LD_PRELOAD=/usr/lib/libpthread.1`

HP-UX Itanium:

- Set the environment variable `IT_SHLIB_VERBOSE` to 1
- Execute your single-threaded process
- Look for the following line in the output:
 - `/usr/lib/hpux32/dld.so: Cannot dlopen load module '/usr/lib/hpux32/libpthread.so.1' because it contains thread specific data.`

To resolve the issue, set `LD_PRELOAD` as mentioned below:

- `LD_PRELOAD=/usr/lib/hpux32/libpthread.so.1`

Stopping double deletion of CORBA::Any when un-marshaling CORBA::Anys during DSI invocation processing

Some applications use the following pattern for memory management of CORBA::Anys required for DSI request processing. This is incorrect and causes a memory corruption error with this version of Orbix:

```
CORBA::NVList_ptr pArgList;
if (CORBA::Orbix.create_list(1, pArgList))
{
    CORBA::Short value_of_n = 0;
    // create an any on heap. This is the representative
    // of the in argument. All of the arguments (anys)
    // will be stored in an NV list
    //
    CORBA::Any* pAny = new CORBA::Any(CORBA::_tc_short,
        &value_of_n, 0);
    // populate the NV list with the heap allocated any
    // and name of "n"
    //
    pArgList->add_value("n", *pAny, CORBA::DSI_ARG_IN);
    // read all the arguments (values) from the request
    // into the NV list
    //
    rSrvReq.params(pArgList);
    // do invocation processing
    // ***** NOTE *****
    // Deleting the CORBA::Any is an error as the Orbix
    // runtime will do so.
    //
    delete pAny; // Error! Don't do this.
}
```

This code would not have caused problems prior to Orbix 3.3.1 as Orbix 3.3 and earlier versions did not properly delete the Any. Since Orbix 3.3.1, Orbix deletes the Anys, so it is no longer necessary to do it.

Deploying an Orbix 3.3 SP 9 daemon in Orbix 3.0.1 environment

An Orbix 3.3 SP 9 daemon can launch Orbix 3.0.1 servers. For all Orbix 3.0.1 daemon utilities, your clients and servers work with the Orbix 3.3 SP 9 daemon. All you need to do is append the library path in the environment with the Orbix 3.3 SP 9 library path.

Orbix Java Edition

This section describes changes made to Orbix Generation 3 Java Edition products between Orbix 3.3 and Orbix 3.3 SP 9 that are relevant to Orbix 3.3 SP 11 Java Edition.

New Features

Since Orbix 3.3 SP 9, a callback port can be specified through the following configuration variables:

- `OrbixWeb.IT_CALLBACK_PORT_BASE`
- `Orbix.Web.IT_CALLBACK_PORT_RANGE`

These configuration variables specify the first port to be assigned, and the number of ports starting at this port number to assign. For example, a base of 5000 and range of 2 allocates 5000 and 5001 for the callbacks. If another client tries to connect with base and range after these two ports are assigned, an exception about setting the range to a larger size will be thrown, and the client will quit.

These configuration variables can be specified in any of the following ways:

- In the configuration file (`OrbixWeb3.cfg`).
- Programmatically through the code. For example:

```
IE.Iona.OrbixWeb._CORBA..Orbix.SetConfigItem("OrbixWeb.IT_CALLBACK_PORT_BASE", "5000");
IE.Iona.OrbixWeb._CORBA..Orbix.SetConfigItem("OrbixWeb.IT_CALLBACK_PORT_RANGE", "10");
```
- By passing them as system properties to the JVM when running the client. For example:

```
-DorbixWeb.IT_CALLBACK_PORT_BASE=5000
-DorbixWeb.IT_CALLBACK_PORT_RANGE=10
```

New APIs

The following APIs are implemented:

Class	<code>IE.Iona.OrbixWeb.CORBA.Any</code>
Method	<code>public void insert_fixed (java.math.BigDecimal d, org.omg.CORBA.TypeCode type)</code>
Description	Takes one <code>java.math.BigDecimal</code> value along with <code>TypeCode</code> information, which includes scale and digits information.

Class	IE.Iona.OrbixWeb.CORBA.Any
Method	Public void insert_fixed (java.math.BigDecimal d)
Description	Takes one <code>java.math.BigDecimal</code> value without any typecode information

Class	IE.Iona.OrbixWeb.CORBA.Any
Method	Public java.math.BigDecimal extract_fixed() throws BAD_OPERATION
Description	Extracts fixed type data from Any and return a <code>java.math.BigDecimal</code> value.

Tips

Using the IDLJ compiler with JDK 1.4.x

The javac compiler, since JDK 1.4.0, is more strict than previous versions and rejects import statements that import a type from the unnamed namespace. The code generated by default by the IDLJ compiler contains import statements without a namespace or a package name if your IDL contains any data definition in global scope, and the generated code results in errors while compiling with javac. Therefore, when you are using JDK 1.4, you need to supply "-jP <packagename>" to the IDLJ compiler. By doing this, the generated code comes under the given package name and compiles without any problems.

For more details, read the following Knowledge Base article (4797.953):

[Why my existing IDL does not compile while using JDK 1.4.x](#)

CORBA fixed-point data type support

The CORBA fixed-point data type is fully supported in this edition. It is possible to use fixed type variables in arrays, structures, sequences, unions, and other user-defined data types.

Support for multiple profiled IORs

In Orbix 3.3.4, the client ORB iterates over a multi-profiled IOR until it is able to establish a connection to a server. It always starts at the first profile when connecting or reconnecting to a server.

This new feature enables interoperability with Orbix 2000 servers that use high availability features (see the Orbix 2000 2.0 Install Guide).

Known Problems

This section summarizes known issues and suggested workarounds in earlier Orbix 3.3 Java Editions.

Incident ID	Synopsis
65605	The Server Manager GUI doesn't update when a server is started and then stopped (affects Orbix 3.3.2 and upwards). This GUI is deprecated.
64957	Fragmentation error occurs on the client side if large chunk of data is sent in fragments from an ASP 5.x and higher server. The Fragments received from the ASP server are malformed. This is interoperability issue between ASP and Orbix Java 3.3 SP 5.

OrbixNames fails to launch automatically on Windows NT

If you register the naming service with spaces in its `bootclasspath` variable in one of the following files, the OrbixNames server fails to be automatically launched by the daemon.

```
<installation_directory>\bin\registerns12.bat
```

(Automatic launch should occur when you run one of the utilities for OrbixNames, `ls ns` for example, or when you run a client or server that tries to use the Naming Service.)

An error like this appears in the window for the Orbix Java daemon (`orbixdj`):

```
Can't find class java.lang.NoClassDefFoundError.
```

Solution

If you find the directory name "Program Files" in these files, replace every occurrence with `progra-1`:

```
<installation_directory>\bin\registerns12.bat
```

The above batch files are for registering the OrbixNames server with the daemon. If you have already registered the OrbixNames server, you can undo this and register it again as follows. (First ensure that the daemon is running.)

To undo the registration:

```
rmit NS
registerns12
```

Multiple “font not found” messages starting JDK 1.3.1

When Orbix Server Manager and Configuration Explorer are launched, you get multiple `font not found` messages. The fonts specified in `font.properties` need to be found on the host system. Otherwise, these messages are displayed:

```
Font specified in font.properties not found [-urw-its zapfdingbats-  
medium-r-normal--*-%d-*-*p-*-sun-fontspecific]  
Font specified in font.properties not found [-urw-its zapfdingbats-  
medium-r-normal--*-%d-*-*p-*-sun-fontspecific]  
Font specified in font.properties not found [-urw-its zapfdingbats-  
medium-r-normal--*-%d-*-*p-*-sun-fontspecific]
```

Workaround

1. Customize the `font.properties` file for each machine.
2. Install the `SUNIWof` font packages.

OrbixNames

This section describes changes made to Orbix Generation 3 Names products between Orbix 3.3 and Orbix 3.3 SP 9 that are relevant to OrbixNames 3.3 SP 11.

New Features

IT_NAMES_REP_CLEAN_CNT configuration variable added to orbixnames3.cfg

The configuration variable, `IT_NAMES_REP_CLEAN_CNT`, is added to `orbixnames3.cfg`. This variable is used to remove deleted contexts from the configuration repository.

The default value for the new variable is set to 100, which means that after deleting 100 contexts the naming repository is cleared.

In previous versions of Orbix 3.3, the naming repository was cleared every time a context was deleted which slowed down the performance of the naming service.

Tips

Using the IDLJ compiler with JDK 1.4.x

The `javac` compiler, since JDK 1.4.0, is more strict than previous versions and rejects import statements that import a type from the unnamed namespace. The code generated by default by the IDLJ compiler contains import statements without a namespace or a package name if your IDL contains any data definition in global scope, and the generated code results in errors while compiling with `javac`. Therefore, when you are using JDK 1.4, you need to supply `-jP <packagename>` to the IDLJ compiler. By doing this, the generated code comes under the given package name and compiles without any problems.

For more details, read the following Knowledge Base article (4797.953):

[Why my existing IDL does not compile while using JDK 1.4.x](#)

Known Problems

Note: The bug IDs 4276129 and 4285197 refer to JDK bugs assigned by Sun Microsystems.

Bug ID: 4276129 in JDK1.3.1—Multiple font not found messages starting jdk1.3.1

When the Naming Service is persistently launched, the Password dialog box is displayed at the same time as the missing font messages below:

```
Font specified in font.properties not found [-urw-its zapfdingbats-medium-r-normal--*-%d-**-p-*-sun-fontspecific]
```

```
Font specified in font.properties not found [-urw-its zapfdingbats-medium-r-normal--*-%d-**-p-*-sun-fontspecific]
```

```
Font specified in font.properties not found [-urw-its zapfdingbats-medium-r-normal--*-%d-**-p-*-sun-fontspecific]
```

The fonts specified in `font.properties` need to be found on the host system. Otherwise these messages are displayed.

Workarounds

- Customize the `font.properties` file for each machine.
- Install the SUNIWof font packages.

Secure JVM on AIX

The Orbix naming service will be unable to obtain its SSL private key passphrase from the KDM when running in secure mode within a 64-bit Java Virtual Machine on AIX operating systems.