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Orbix 6.3.5 Release Notes

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THE BASIC LIBRARY FUNCTIONS

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Orbix 6.3.5 Release Notes

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CORBA Compliance

Orbix 6.3 complies with the following specifications:

- CORBA 2.6.
- GIOP 1.2 (default), 1.1, and 1.0
- C++ Language Mapping (formal/99-07-41)
- IDL-to-Java Language Mapping (formal/99-07-53)
- Object transaction service (OTS) 1.1 and 1.2

Platforms and Compilers

This section provides the following information:

- A list of new platforms and compilers supported by Orbix 6.3.5.
- A list of platforms and compilers for which support is not available from this release.
- A list of deprecated platforms and compilers.

Note: The supported platforms and compilers may have changed since the publication of this document. For the latest updates, refer to http://communities.progress.com//pcom/docs/DOC-106962.

New platforms and compilers supported

Orbix 6.3.5 supports the following new platforms and compilers:

- Visual Studio 2010 (32 and 64-bit) on Windows XP
- Visual Studio 2010 (32 and 64-bit) on Windows 7
- Visual Studio 2008 SP1 64-bit on Windows 2008 Server R2
- Visual Studio 2010 SP1 64-bit on Windows 2008 Server R2
- Sun Studio 12 Update 2 (32 and 64-bit) on Solaris 10 x86
- Sun Studio 12 Update 2 (32 and 64-bit) on Solaris 10 SPARC
- aC++ A.06.2x Itanium on HP-UX 11i v2 (32 and 64-bit)

Platforms and compilers not supported

Orbix 6.3.5 does not support the following platforms and compilers:

Platforms

- Red Hat Enterprise Linux 4
- Solaris 8
- Solaris 9

Compilers

- GCC 3.4
- Oracle Solaris Studio 8
- Oracle Solaris Studio10
- aC++ A.06.1x
- XL C++ 8

Deprecated platforms and compilers

The list of deprecated platforms and compilers might change and versions of platforms and compilers might be added or removed prior to the next release of Orbix. Please contact Progress Software for the latest information.

Orbix 6.3.5 is the last release of Orbix to support the following deprecated platforms and compilers:

Windows platforms

- Windows 2003 Server
- Windows Vista

HPUX platforms

- HPUX 11iv1 (PA-RISC)
- HPUX 11iv2 (PA-RISC and Itanium)

AIX platform

- AIX 5.3

Windows compilers

- Visual Studio 6
- Visual Studio 2003
- Visual Studio 2005

AIX compiler

- XL C/C++ Enterprise Edition for AIX 9.0

For more details of the platforms and compilers that Orbix 6.3.5 supports, see the Orbix Platform Support web page:

http://web.progress.com/orbix/supported_platforms.html

New Features

Orbix 6.3.5 includes the following new features:

- Orbix/WS component
- WoW64 support
- IPv6 support
- KVM virtualization support

Orbix/WS component

Orbix 6.3.5 supports integration with Web services. The Orbix/WS component enables Orbix applications to interoperate with Web service applications using SOAP/HTTP.

Enabling the new Orbix/WS functionality within your Orbix deployment involves simple configuration and deployment steps, none of which requires you to make any changes to your existing code. That means no development, no re-compiling, and no re-linking.

The Orbix/WS component enables existing Orbix applications to:

- Expose SOAP/HTTP Web services endpoints for consumption by external Web services.
- Invoke external SOAP/HTTP Web services endpoints.
- Use the SOAP/HTTP binding/transport between Orbix applications.

WoW64 support

Orbix 6.3.5 supports WoW64 (Windows 32-bit On Windows 64-bit), thereby enabling 32-bit builds of Orbix to be deployed on Windows 64-bit. WoW64 is a subsystem of the Windows operating system that is capable of running 32-bit applications on 64-bit versions of Windows. WoW64 aims to create a 32-bit environment that provides the interfaces required to allow 32-bit Windows applications to run unmodified in the 64-bit system.

IPv6 support

IPv6 support is now available on all platforms. You can configure Orbix servers for the following internet protocol connections:

- IPv6 and IPv4
- IPv6 only
- IPv4 only

By default, Orbix servers are configured for IPv4 connections.

You have to configure the following variables to enable Orbix servers to support IPv6 and IPv4 connections:

```
policies:network:interfaces:prefer_ipv4
```

```
policies:network:interfaces:prefer_ipv6
```

For details on IPv6 support, see the Orbix Administrator's Guide and Orbix Configuration Reference.

KVM virtualization support

Orbix 6.3.5 has been tested and certified for Red Hat Enterprise Linux 5 Virtualization Hypervisor based on Kernel-Based Virtual Machine (KVM) virtualization technology.

Migration from Previous Versions

To upgrade to Orbix 6.3.5 from existing Orbix 6.3.x installations:

- Back up existing installations before you upgrade to Orbix 6.3.5.
- Go to the Orbix 6.3.x directory and run the Orbix 6.3.5 installer. The Orbix installer overwrites the existing version.

Note: Do not change any configuration unless you want to use new features such as Actional integration or the Orbix/Web service component.

For details on installing Orbix 6.3.x service packs, see the Orbix Installation Guide. For details on migrating from earlier Orbix versions, see the migration and upgrade documentation on http://communities.progress.com/pcom/docs/DOC-105909.

Known Issues

Orbix 6.3.5 includes the following known issues:

- Deployment problem on Windows 7 or Windows 2008 R2 virtual machine on VMWare
- IBM JDK 6 on AIX 5.3
- client_address_mode_policy on Windows Vista/Windows 7
- Actional integration is not supported
- Instrumented CFR domain without security service
- Orbix domain services on Windows
- Spaces in install path and itant
- Orbix Java services on Linux with 64-bit JDK
- Secure CFR domain with replicated services
- Orbix COMet development environment

Deployment problem on Windows 7 or Windows 2008 R2 virtual machine on VMWare

You might encounter an intermittent failure to deploy services on virtual machines with only 1 CPU. This problem does not occur when the virtual machine has 2 or more CPUs.

IBM JDK 6 on AIX 5.3

For Orbix 6.3.5 to work correctly with IBM Java 6 on AIX 5.3, you must do the following:

1. Ensure your IBM JDK 6 version is at least SR 5.
2. Specify IBM JSSE toolkit instead of Baltimore (which is the default toolkit) using the following Orbix configuration setting:

```
plugins:atli2_tls:use_jsse_tk = "true";
```

Note: Baltimore is not supported with Java 6 on AIX.

The IBM JSSE has the following known issues:

- Multi-certificate authentication uses only the latest certificate supplied.
- Certificate validator overrides do not work.

For details of Orbix security configuration, see the Orbix Security Guide.

client_address_mode_policy on Windows Vista/Windows 7

Errors occur on Windows Vista or Windows 7 when using the `policies:iiop:client_address_mode_policy:local_hostname` configuration variable.

When `policies:iiop:client_address_mode_policy:local_hostname` is set to "localhost", the client ORB resolves the IP address and binds it to 127.0.0.1.

If the address published by the server is the actual hostname or numeric IP of the server, then the connection fails and the system displays an error message "Network is unreachable" with a Winsock error value 10057.

If `policies:iiop:client_address_mode_policy:local_hostname` is set to 10.X.X.X or the actual hostname and if the address published by the server is 127.0.0.1, the connection fails and the system displays an error message "Cannot assign requested address" with a Winsock error value 10049.

To resolve the problem, you must set the `policies:iiop:client_address_mode_policy:local_hostname` configuration variable to the address published by the server.

Actional integration is not supported

Orbix and Actional integration is not supported with Microsoft Windows Visual C++ 6.0.

Note: Microsoft Visual C++ 6.0 support is deprecated in this release, and will be removed in the next release.

By default, the CORBA Telecom Logging services are not instrumented when you enable Actional integration with the **Orbix Configuration** tool. However, integration with these services can be configured using the `enable_actional.tcl` script. Integration between Orbix performance logging and Actional is not supported. See also Instrumented CFR domain without security service.

Instrumented CFR domain without security service

A configuration repository-based domain that has been fully instrumented with Actional, but does not include an Orbix security service, might have an issue when some instrumented services (for example, the naming service or node daemon) are started.

The following error might be reported during service startup:

```
IT_Core:ON_POSSIBLE_SERVER_BINDING
```

Windows platforms may report this error as a system exception during service startup. This issue is due to a bug in the configuration generation tool, and will be fixed in a patch. Please contact your Technical Support representative for download details of this patch.

As a workaround, use the following command to fix your domain configuration for each affected service. When this command is run, the service will start successfully:

```
itadmin InstallDir/asp/6.3/bin/enable_actional.tcl
   iona_services.Service.Hostname
```

For example:

```
itadmin InstallDir/asp/6.3/bin/enable_actional.tcl
   iona_services.node_daemon.my_host_name
itadmin InstallDir/asp/6.3/bin/enable_actional.tcl
   iona_services.naming.my_host_name
```

Orbix domain services on Windows

On Windows with VC6/VC71/VC8, Orbix domain services now run with `Vc7/CRT` instead of `Vc6/CRT`. Orbix domain services include the configuration repository, locator daemon, and naming service.

Spaces in install path and itant

If your Orbix installation path contains spaces, and you use the `itant` tool to build the Java demos, the following message might appear in the console output:

```
C:\Program%20Files\Progress\Orbix\asp\6.3\demos\corba\demo.xml could
   not be found
```

This is a benign message and can be ignored. The Java demos build successfully.

Orbix Java services on Linux with 64-bit JDK

On Linux, with a 64-bit JDK, you must also install a 32-bit JDK to use Orbix Java services (for example, management, security, and trader services). This is because Orbix Java services run in a 32-bit JVM. For example, after you have installed 32-bit JDK, you can set up your environment as follows:

```
export JAVA_HOME_32=~/jdk1.6.0_16
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$JAVA_HOME_32/jre/lib/i386/server
```

Secure CFR domain with replicated services

In a secure configuration repository (CFR)-based domain with replicated Orbix services, CFR replica sets can not be automatically shrunk. This issue does not occur in an insecure CFR-based domain. If you have to remove CFR replicas in a secure CFR-based domain, please contact Orbix technical support.

Orbix COMet development environment

Orbix COMet is supported with Microsoft Visual Studio 6.0 only. Orbix 6.3.5 also supports Visual Studio .NET 2003, Visual Studio 2005, Visual Studio 2008, and Visual Studio 2010. However, Orbix COMet does not support these newer compiler versions, and works with Visual Studio 6.0 only.

Bugs Fixed

The following bugs are fixed in Orbix 6.3.5:

Bug	Description
ORB-1338	Marshaling exception is encountered while using `com.iona.corba.IT_IMRAdmin.Process.startup_info()`
ORB-1386	Secure corbalocs containing numeric IPv6 addreses cause an exception
ORB-1399	The `list()` operation on the naming service slows down a lot when more and more entries are added to the naming service
ORB-1419	CSIv2 does not support multiple hostnames
ORB-1431	Added node deamon to Orbix domain using itconfigure GUI - no option to run as windows service
ORB-1434	The java persistent server starts a listener that listens on "0.0.0.0" NIC interface even when specific `policies:well_known_addressing_policy:iiop:addr_list` in root scope
ORB-1435	The Naming service started as indirect persistence starts a listener on 0.0.0.0 when an ip is specified using `policies:well_known_addressing_policy:iiop:addr_list`
ORB-1436	`plugins:management:iiop:port` and management service's corbaloc contain incorrect port in generated configuration when listening interface specified
ORB-1559	Enhance itconfigure to check status of child processes

Bug	Description
ORB-1751	Orbix 6.3.3 secured (JSSE TLS) java client will not timeout if invoking upon an Orbix 6.3.3 secured (TLS) java server whose POA manager has not been activated yet
ORB-1752	Windows 7 support for Orbix 6
ORB-1757	CFR cache gets into inconsistent/corrupt state and returns returning `IDL:omg.org`/CORBA/UNKNOWN exception to scope list admin command
ORB-1758	Bug configuring multiple CA files with itconfigure
ORB-1764	configuration and deployment fix when using cfr with orbmon but without *is2*
ORB-1779	Add support for `tcp_listener:reincarnate_attempts` for NIO with the Java ORB
ORB-1781	Orbix locator crashes when load balancing POAs using the random algorithm
ORB-1784	orbmon c++ plugin crashes with "runtime error R6025 - pure virtual function call" when `PortableServer::SINGLE_THREAD_MODEL` POA policy is used
ORB-1786	Crash in VC90 version of Orbix Schannel dll
ORB-1797	The *it_bzip21_vc90.dll* file missing from Windows VC90 32-bit kit
ORB-1805	Licensing issues occur when installing Orbix 6.3.4 on Windows Server
ORB-1807	Orbix 6.3.4 itnotify_console crashes with NPE if *JDK 1.6.0_18* is used
ORB-1812	Orbix server hangs, and does not throw "MarshalException" when marshaling a structure with a null string
ORB-1820	Notification service crashes when setting a filter on a channel
ORB-1821	Problems with starting management service when using *JDK1.6* on AIX

Bug	Description
ORB-1829	The class `PortableServer::ObjectId` found in *omg/PortableServer.hh* is lacking a destructor.
ORB-1892	Issue listing members of an active object group in a replicated domain
ORB-1818	Server becomes unresponsive after a number of "String bounds" errors
ORB-1833	"Failed to create boot `ORB.org.omg.CORBA.NO_PERMISSION: orb` with this id already exists" when `ORB.init()` invoked concurrently by two threads
ORB-1842	Problem with "`itadmin ns unbind`" causing "`omg.org/CORBA/PERSIST_STORE:1.0: minor = 0x4954 0707 (IT_PSS_DB:DB_CALL)`, completion *`status = MAYBE`*"
ORB-1849	Actional Orbix integration - if the call failed in SSL layer, Actional fails to detect any such kind of information.
ORB-1851	Actional Orbix integration - identifying/displaying traffic on individual instances of the same CORBA server.
ORB-1853	Problem with itconfigure on windows with having license file in the default directory *`C:\Program Files (x86)`*
ORB-1856 ORB-1857	Enhancement whereby default values for POA load-balancing and replication may be controlled via config variables
ORB-1860	`idlgen` does not generate code for contexts
ORB-1874	Add 64-bit kdmjj.so.1 for relevant platforms
ORB-1875	Missing 32-bit *`libit_bzip2.so`* in 6.3.4 Linux kit
ORB-1898	Problem with threads waiting on a particular monitor but no active thread appears to be holding that monitor
ORB-1900	Issue with `resolve_initial_references` when invoked concurrently
ORB-1902	Possible deadlock when using bidirectional IIOP

Bug	Description
ORB-1931	Send null strings over a fixed length parameter with the max buffer pool turned off leads to a memory leak

Enhancements

The following enhancements have been made in Orbix 6.3.5:

- VMware virtualization support
- OpenSSL toolkit
- OpenSSL 0.9.8i

VMware virtualization support

Orbix 6.3.5 support for selected Windows, Solaris x86, and Linux platforms has been tested and certified for VMware to provide virtualization support. This allows developers to maintain isolated development environments, and test administrators to scale hardware. It also permits production deployments with fewer hardware resources, even in grid or cloud-based environments. For more details about virtualization support, see the Orbix Installation Guide.

OpenSSL toolkit

Orbix 6.3.5 supports the OpenSSL toolkit and the built-in JDK JSSE/JCE toolkit on all platforms.

In versions of Orbix prior to 6.3.4, TLS communication for C++ applications was performed using the third-party Baltimore toolkit on all platforms including Windows, or SChannel (MS-CAPI) on Windows only, whereas TLS communication for Java was performed using the Baltimore toolkit.

In Orbix 6.3.5, the OpenSSL toolkit is the default TLS toolkit for C++ applications and the JDK JSSE/JCE toolkit is the default TLS toolkit for Java applications.

The Baltimore toolkit for C++ and Java is now deprecated, and will be removed in a future release. See also “OpenSSL 0.9.8i” on page 13.

Though the baltimore toolkit is deprecated from Orbix 6.3.5, you can still use Baltimore toolkit for Java applications by setting the `use_jsse` variable to `false`. For details of the use_jsse variable, see the Configuration Reference Guide.

For details of Orbix security features, see the Orbix Security Guide.

OpenSSL 0.9.8i

Orbix 6.3.5 supports OpenSSL version 0.9.8i. This includes a different format for security certificate names from the one previously used by Orbix. OpenSSL 0.9.8i uses the `emailAddress` string instead of the `Email` string used in versions of Orbix prior to 6.3.4. For example, the return of a get name call in Orbix 6.3.5 is:

```
C=US, ST=Massachusetts, O=ABigBank -- no warranty -- demo purposes,
OU=Demonstration Section -- no warranty --, CN=Abigbank Accounts
Server/emailAddress=server@abigbank.com
```

In previous versions of Orbix, the format of the security certificate name was:

```
C=US, ST=Massachusetts, O=ABigBank -- no warranty -- demo purposes,
OU=Demonstration Section -- no warranty --, CN=Abigbank Accounts
Server/Email=server@abigbank.com
```

Previous versions of Orbix updated the OpenSSL-based format to maintain binary compatibility with earlier versions. However, Orbix 6.3.5 uses the same security certificate name format as OpenSSL 0.9.8.i.

Other Resources

The following additional resources are available:

- The most up-to-date versions of Orbix technical documentation are available at: http://communities.progress.com/pcom/docs/DOC-105909
- The Orbix Knowledge Base is a database of articles that contain practical advice on specific development issues, contributed by developers, support specialists, and customers. This is available at: http://web.progress.com/orbix/orbix-support.html
- Contact Orbix technical support at: http://web.progress.com/orbix/orbix-support.html