



## VisiBroker 8.5.2

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Release Notes

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# Micro Focus VisiBroker 8.5.2 Release Notes

## Installing VisiBroker

### Before Installing SP2

This release updates VisiBroker 8.5. Before installing this Service Pack you must have VisiBroker 8.5 installed.

### Installing SP2

To install this release:

1. Download the release archive to your VBROKERDIR folder.
2. Unpack the archive in the same folder.
3. Restart the application.

## Operating Systems Supported

- Microsoft Windows 8
- Microsoft Windows 7
- Microsoft Windows Vista
- Microsoft Windows XP
- Microsoft Windows Server 2008 (R2) (Standard & Enterprise editions)
- Microsoft Windows Server 2012 R2
- Embarcadero C++ Builder XE for Windows
- Solaris 10.x (SPARC)
- Solaris 10.x (x86 and x64)
- Solaris 11.x (SPARC)
- Solaris 11.x (x86 and x64)
- Red Hat Enterprise Linux 5.x (x86 and x64)
- Red Hat Enterprise Linux 6.x (x86 and x64)
- SUSE Linux Enterprise Server 10.x (x86 and x64)
- SUSE Linux Enterprise Server 11.x (x86 and x64)
- HP UX 11i v3/11.31 on Itanium
- AIX 6.x (32 or 64 bit)
- AIX 7.1 (32 or 64 bit)
- Montavista Linux CGE V4 (x64)

For a full list of supported platforms, see

<http://supportline.microfocus.com/supportresources/VB85SP2prodmatrix.aspx>.

# New Features

This release provides enhancements in the following areas.

## Support for Visual Studio 2012

VisiBroker 8.5.2 adds support for Microsoft Visual Studio 2012. A new installer is included for Visual Studio 2012 installations.

### Note

Existing VisiBroker application code must be recompiled before you can use it with Microsoft Visual Studio 2012.

## Support for Windows 8

VisiBroker 8.5.2 adds support for Microsoft Windows 8.1, using Microsoft Visual Studio 2012.

## Support for Windows Server 2012

VisiBroker 8.5.2 adds support for Microsoft Windows Server 2012 R2, using Microsoft Visual Studio 2012.

## JDK 8 certification

VisiBroker 8.5.2 supports Oracle JDK 8.

## IPv4/IPv6 co-existence

This release enables IPv4 and IPv6 to co-exist within client code.

## Security providers

### Note

This section does not apply if you are using Embarcadero C++ Builder XE for Windows.

VisiSecure for C++ now provides support for an OpenSSL security provider as well as for the default Certicom security provider. A Security Provider Selection utility is included. See [Specifying the Security Provider](#) for information on using this utility.

The OpenSSL security provider offers a range of additional cipher suites are now supported, but support is withdrawn for some other cipher suites:

- Cipher suites incorporating SHA-256 hashing, SHA-384 hashing, or the AES algorithm are now supported.
- Cipher suites without encryption, EXPORT strength suites, and DES-56 encryption are no longer supported.
- If OpenSSL is selected, it is possible to use the TLS version 1.2 communications protocol.

## Specifying the Security Provider

### Note

This section does not apply if you are using Embarcadero C++ Builder XE for Windows.

With this Service Pack VisiSecure for C++ provides support for OpenSSL security as well as for the default Certicom security provider.

A Security Provider Selection utility is provided, which you can use to specify your default security provider after installation, or to change it subsequently. To start this utility:

- On Windows systems, run `<VBROKERDIR>\bin\SelectSecurityProvider.cmd`, either from a command prompt or by double clicking.
- On UNIX systems, run `$VBROKERDIR/bin/SelectSecurityProvider.sh`.

You are prompted to close any open VisiBroker instances, and then prompted as follows:

```
Please select a security provider:
```

- ```
1) Certicom
2) OpenSSL
3) Exit with no changes
```

```
Select option:
```

Select the option you require. VisiBroker reconfigures and confirms that the selected security provider is in operation, with the message:

```
Configuring <name> security provider...
Done.
```

You can alternatively specify a command line parameter such as:

```
bin/"SelectSecurityProvider.cmd" certicom
bin/SelectSecurityProvider.sh openssl
```

This runs the utility to the same effect, but does not provide the prompt.

## User Documentation

New documentation released with this Service Pack is available online, from <https://supportline.microfocus.com/productdoc.aspx>. It will be made available from within the product at a future release.

The documentation currently accessed from within the product is the legacy documentation from the VisiBroker 8.5 GA version.

## Known Issues

### JDataStore not supported on IBM AIX JDK7

During testing of JDK7 on IBM AIX 64-bit, it was observed that Exceptions were being raised by the IBM JDK 7 JIT compiler within JDataStore code when VisiNaming was configured to use JDataStore as a backend store.

Micro Focus does not support the use of JDataStore with IBM JDK7. When using the VisiNaming service and IBM JDK7, other supported JDBC drivers should be used instead.

### Specifying cipher suites with the OpenSSL security provider

If VisiSecure for C++ is acting as a server with the `vbroker.security.cipherList` property set but with no identity certificates configured, the OpenSSL security provider ignores the list of cipher suites specified by `vbroker.security.cipherList` and configures all anonymous Diffie-Hellman cipher suites instead.

## Resolved Issues

The resolved issues that customers have reported are listed in this section. The numbers that follow each issue are the Reported Problem Incident number followed by the Customer Incident Numbers (in parentheses). RPIs that have numbers only (and no text) are included to confirm that the RPIs have been fixed, since no further information is required.

- The thread maximum property setting was not enforced for Java NIO; the number of threads allocated at the server side could exceed the value set.

582474

SSL server connection manager properties are now documented in the *VisiBroker Security Guide*.

585159

- Fixed an unexpected MARSHAL exception.

590008

- VisiBroker now sets the order into which cipher suites are sorted.

590148

- Fixed incorrect MARSHAL exceptions for custom marshaled objects.

590149

- The `equals` methods generated by `idl2java` for Struct, Valuebox, Union, Enum and Value instances when an array is present will no longer throw an exception when that array is null.

599932

- Generated stubs now check for null before creating a string representation of an array or sequence.

599976

- If an invalid ciphersuite is specified in the `vbroker.security.cipherList` property, it is removed from the list. If no valid ciphersuites are specified, none are enabled. This is different from the previous behavior when all available ciphersuites would be enabled.

602836

- Added two properties to the C++ client implementation in order to make possible to set the port (and port range) to be bound when a new connection is opened by the ORB. These properties were already implemented for Java.

1078232 (2500241)

- The `vbroker.ce.iiop.host` property could only specify an address in one of IPv4 or IPv6 formats. It is now possible to specify one address in each format, separated by a comma.

1080840 (2533802)

- Protected against a NULL pointer dereference occurring after being returned from `oidToOIDType()`. This can occur when `v3_ca` extensions are used without the `vbroker.security.addOID` property being added to support them.

1081048 (2533676)

- A thread deadlock no longer occurs if a CORBA request is received during server initialization.

1081238 (2538035)

- On VisiBroker for HPIA 32-bit, `lmadm` now runs with the 32-bit JVM library.

1081826 (2545427)

- Fixed a problem whereby long timeouts specified using `vbroker.orb.tcpTimeout` were not correctly implemented.

1081913 (2543135)

- The exception `java.lang.IllegalStateException` could occur when multiple threads are trying to make SSL connections concurrently.

1082235 (2543890)

- Timeout policies were not working when a secure VisiBroker client connected to a non-CORBA and non-secure server.

1082271 (2550363)



- The hashcode methods generated by `idl2java` for `Struct`, `Valuebox`, `Union`, `Enum`, and `Value` instances are different from those in previous `VisiBroker` releases. Previously they have been identity-based, but now they are value-based. This matches the behavior of the class `equals` methods, and addresses an issue which affected their use with collections.

1082773 (2555499)

- The code generated from IDL exception declarations that contain no members used to lead to specific "The value of the field `<IDLExceptionTypeName>Helper._initializing` is not used" warnings compiled using the Eclipse compiler for Java (ECJ). This does not now happen.

1084110 (2573037)

- A memory leak that occurred when the property `vbroker.orb.ncsc=UTF8` was set has been fixed.

1087359 (2604596)

- A `MARSHAL` exception could occur when sending a `CORBA.Any` containing a `CORBA.Object`, if debug logging was enabled.

1089669 (2644002)

- Problems with using FIPS/SP800-131 (strict) validation certificates with IBM JDKs have been fixed. To use such certificates, you must set `-VBJprop vbroker.security.transport.protocol=TLSv1.2` on both the `VisiBroker` server and client.

1090570 (2656369)

- The `VisiSecure` for Java properties `vbroker.security.CSS.strict` and `vbroker.security.keyStore.keyPass` have been documented.

1090163 (2644840)

- Timer objects would generate exceptions (`IllegalStateException` and `NullPointerException`) when security was enabled. This was the result of a race condition in `VisiBroker Java`.

1090167 (2644840)

- Fixed a rare segfault which can cause a `VisiBroker` server crash when logging to file is enabled.

1092313 (2675031)

- Fix to the timeout calculation that is used when sending or receiving a message.

1092704 (2673227)

- When a new secure connection is opened from VisiSecure for Java, the ClientHello messages now include the pseudo-ciphersuite "TLS\_EMPTY\_RENEGOTIATION\_INFO\_SCSV" instead of the TLS extension "Renegotiation Info". This allows interoperability with some problematic TLS implementations.

1094117 (2696752)

# Updates and SupportLine

Our Web site gives up-to-date details of contact numbers and addresses.

## Further Information and Product Support

Additional technical information or advice is available from several sources.

The product support pages contain a considerable amount of additional information, such as:

- The WebSync service, where you can download fixes and documentation updates.
- The Knowledge Base, a large collection of product tips and workarounds.
- Examples and Utilities, including demos and additional product documentation.

To connect, enter <http://www.microfocus.com> in your browser to go to the Micro Focus home page.

**Note:** Some information may be available only to customers who have maintenance agreements.

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