



Discover the Future of CORBA

# VisiBroker-RT 7.0

Micro Focus is the world's largest provider of CORBA products. VisiBroker-RT 7.0, alongside VisiBroker 8.5, Orbix 6 and Orbix 3, form a comprehensive suite of Premier CORBA® products. Premier ORBs are built to enable easy integration with Micro Focus CORBA Modernization Add-Ons.

## Product Highlights

Micro Focus CORBA solutions have been under continuous development and improvement for over 30 years. VisiBroker underpins mission-critical systems in many of the world's largest organizations. Micro Focus's commitment to the future of CORBA ensures its customers can continue to rely on VisiBroker to power their CORBA applications for decades to come. Built on proven, open industry standards and a high-performance architecture, VisiBroker is ideally suited for low latency, complex, data-oriented, transaction-intensive, mission-critical environments. With its thread and connection management, and efficient implementation of the IOP protocol, VisiBroker easily scales to large numbers of clients and servers. VisiBroker-RT supports the CORBA Real-time specifications for deployment within embedded systems. Micro Focus's continuing support for the latest operating systems and compilers enables organizations to take advantage of the latest performance improvements within modern hardware platforms. VisiBroker provides all the functionality needed for seamless interoperability of CORBA applications with other leading technology stacks.

## Key Benefits

### Compact and Efficient

VisiBroker-RT for C++ is made available as a set of high performance runtime libraries. Application developers are free to pick and choose which features are to be loaded, enabling the application footprint to be kept as small as necessary to suit the target constraints.

### Accelerates Distributed Software Development

VisiBroker-RT simplifies and accelerates distributed software development by providing a complete, high-level, C++ communications infrastructure that liberates developers from the low-level details of interprocessor messaging and system architecture.

### Full CORBA Compliance

VisiBroker-RT provides a complete CORBA implementation, maximizing source code portability and runtime interoperability. Allows embedded developers to choose between a full CORBA implementation and the CORBA/e Compact Profile—both with the Real-Time CORBA extensions.

### Well Suited to Heterogeneous Applications

For applications that span embedded and general-purpose systems, VisiBroker-RT and VisiBroker 8.5 (for C++ and Java) provide the same development tools, programming interfaces, and high-availability infrastructure. For example, user interface and management applications can be developed in Java, while the embedded agent is written in C or C++ where typically no on-board Java Virtual Machine is available.

### Enables Highly Available Applications

VisiBroker-RT allows an object to have redundant instantiations. In the event that an object is no longer accessible—due to hardware, network, or software reasons—requests can

## Quick View

- VisiBroker-RT for C++ accelerates development and deployment of distributed applications incorporating embedded computers, including communications equipment, defense electronics, instrumentation, and process control systems
- CORBA 3 compliant
- Compliant with OMG Real-time CORBA Specification version 1.2
- Portable Object Adapter (POA) ORB that also provides compatibility with Basic Object Adapter (BOA) developed applications
- VisiBroker OSAgent manages applications for minimal configuration, automatic discovery of services and objects. Provides load-balancing and high availability across Object replicas
- Real-Time CORBA features in C++
- Provides OMG Naming and Event Services

automatically fail-over to a backup. Multi-homing allows an object to be visible on multiple networks; if one network fails, communication reroutes to an alternate.

### Proven Reliability and Interoperability

The core technology that underlies both VisiBroker-RT and VisiBroker 8.5 is the most widely deployed CORBA solution on the market.

### Key Features

#### VisiBroker-RT for C++ CORBA Compliance

- Compliant with CORBA 3, minimizing the learning curve for developers with CORBA experience
- A complete Portable Object Adapter (POA) implementation maximizes portability and allows optimization of application performance and memory utilization
- IOP 1.2 maximizes runtime interoperability with other CORBA implementations
- VisiBroker-RT for C++ also allows choice between full CORBA and CORBA for Embedded (CORBA/e) Compact Profile which minimizes static memory utilization
- Real-Time CORBA extensions provide fine-grained control over resource utilization and multi-threading behavior
- Interoperable Naming Service (INS) provides standard mechanism for locating objects and interoperates with other CORBA implementations
- Event Service provides supplier-consumer and publish-subscribe messaging model; events (such as alarms) may be delivered to multiple consumers with a single call

### Embedded and Real-Time Optimizations

- Native support for fully utilizing the available CPU cores to service many object requests concurrently (VxWorks SMP)
- Support for running applications in kernel mode or user mode (VxWorks RTP)
- Extensible Transports enable the use of custom and other non-TCP/IP networks
- System-level logging interface allows custom handlers to be installed for both VisiBroker-RT and application-originated error, warning, informational, and debug messages
- Optimized communications between in-process clients and servers—performance can be nearly that of a direct function call

### Robust Development Environment

- Visualization tools available through Customer Support aid in both development and debugging by providing runtime view of VisiBroker-RT and distributed objects
- Wind River VxWorks Simulator (VxSim) support allows development and testing to proceed without the need for target hardware

### System Requirements

- Development host on Red Hat Linux 7, Red Hat 8, OpenSUSE Leap 15.1
- VxWorks 7: ARM, Intel/AMD, SIMLINUX. Other VxWorks-supported chipsets available on demand.

Check the Micro Focus SupportLine site:  
<https://supportline.microfocus.com/prodavail.aspx>

Learn more at

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