

**BUSINESS CHALLENGE**

Distributed systems, by their nature, span diverse environments. Building around distributed environments forces systems architects to address this diversity and heterogeneity in general. There are classes of distributed systems that do not fit well with simplistic, lowest-common-denominator solutions. Where organizations have to compete on how well-engineered their systems are, they need middleware that is tailored to their particular qualitative requirements. The problems are all the more demanding because they are simultaneously challenging on several fronts: performance, scalability, reliability, availability, security and deterministic behaviour.

Infrastructure problems like these cannot usually be met in-house because their solutions depend on specialized expertise that is difficult to maintain in an organization that competes on its domain knowledge. The answer is to out-source expertise in distributed systems by buying in the infrastructure components.

**PRODUCT OVERVIEW**

VisiBroker<sup>®</sup> is a comprehensive CORBA<sup>®</sup> environment for developing, deploying and managing distributed applications. Built on proven and open industry standards and upon a high-performance architecture, VisiBroker is ideally suited for low latency, complex, data-oriented, transaction-intensive, mission-critical environments. With its sophisticated thread and connection management and efficient implementation of the IIOP<sup>®</sup> protocol, VisiBroker easily scales to large numbers of clients and servers. It supports the CORBA Real-Time specifications for deployment within embedded systems. VisiBroker provides all the functionality needed for seamless interoperability of CORBA applications with other leading technology stacks including Web Services, .NET, and J2EE<sup>™</sup> enabling them to conform to a modern Services-Oriented Architecture (SOA).

**KEY BENEFITS****Lowest total cost of ownership (TCO) value**

VisiBroker offers the best price-performance ratio of any commercial CORBA ORB on the market, as well as better development productivity and rapid integration. It provides very high reliability and built-in management capabilities to reduce system downtime while ensuring efficient, active resource utilization. Coupled with outstanding technical support, VisiBroker is a cost-effective, low risk solution for CORBA applications.

**Impressively engineered to give power-users the edge**

VisiBroker is engineered internally to the highest standards to enable users to build sophisticated distributed systems that meet the most demanding requirements thrown at Systems Architects. This attention to detail allows high performance, highly scalable and highly reliable challenges to be met without compromise. Additional components solve Security, Transactional and Asynchronous Notification needs.

**Services-oriented multi-technology interoperability**

VisiBroker allows CORBA applications to be SOA-enabled by providing out-of-the-box functionality to interoperate with applications based on Web Services and J2EE standards. Additionally, VisiBroker enables developers to write .NET applications, in any .NET language (such as Microsoft<sup>®</sup> C++, C# and Visual Basic<sup>®</sup>), that can talk to existing, unmodified CORBA and J2EE applications.

**Backward compatibility and interoperability**

VisiBroker releases provide built-in features for CORBA application compatibility, interoperability and efficient migration. This feature provides investment protection and a migration path for applications written in prior versions of VisiBroker.

## Widest range of support for hardware, operating system and compiler

VisiBroker recognizes that Systems Architects will already be placed under platform constraints so VisiBroker is available for a wide range of platform options. Available platforms are characterized by operating system, processor architecture, C++ compiler and JDK to offer architects unconstrained flexibility for distributed systems.

## DETAILED FEATURE OVERVIEW

**SOA-ready** - VisiBroker enables CORBA applications to be exposed as services and easily integrated with applications based on other leading technology stacks including Web Services, .NET, and J2EE.

**VisiBroker for .NET** - Integrates existing CORBA applications with .NET applications without requiring modifications to the CORBA applications. VisiBroker enables developers to transparently write CORBA applications using a .NET language which can interoperate seamlessly with other CORBA applications written in a different language.

**Automatic discovery, load balancing and failover of CORBA objects** - Easy configuration for automated discovery of objects, load balancing, and failover. VisiBroker supports standard CORBA naming service APIs, scalable to large networks of objects. It enables high availability of application objects/servers through object clustering and high availability of the Naming Service itself through replicated naming servers and mirrored database back-ends.

**VisiBroker for Java™ and VisiBroker for C++** - Leverage the full Java implementation of the CORBA ORB to make CORBA IIOP available wherever Java is available and the readily portable, full C++ implementation with ANSI-compliant C++ interfaces.

**CORBA® 3.0 support** - CORBA 3.0 specification-compliant product features include Portable Interceptors (PI), Portable Object Adapters (POA), Objects-by-Value (OBV), Dynamic Invocation Interface (DII), Dynamic Skeleton (DSI), Repository (IR), Messaging QoS and Internet Inter-ORB Protocol (IIOP).

**RMI-over-IIOP and Java-to-IDL** - Write CORBA applications in Java without having to learn IDL™ and other CORBA features; migrate existing RMI applications to the high-performance VisiBroker runtime environment.

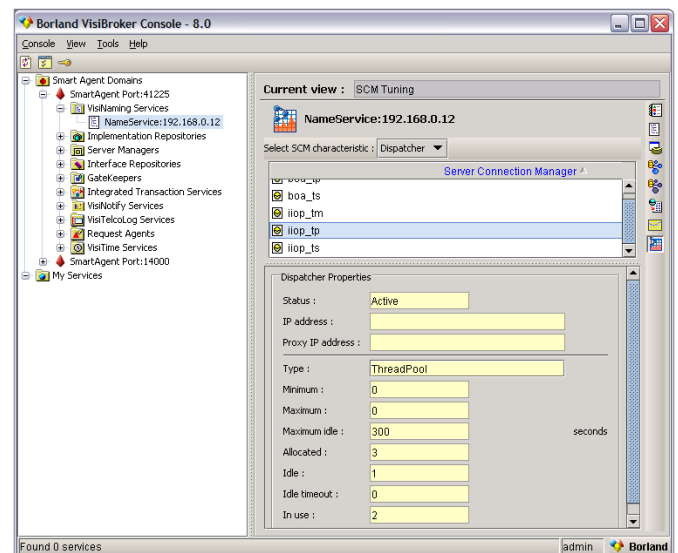
**Firewall Support** - VisiBroker supports bi-directional GIOP for managing a return path through a firewall as well as a flexible proxy-server for managing HTTP web connections and configuring connections for Firewalls and NATs.

**Multiplatform availability** - VisiBroker is formally supported on an extensive range of platforms including Windows®, Solaris™, HP-UX®, AIX® and multiple distributions of Linux®. For each operating system, VisiBroker supports several processor architectures and is compatible with multiple JDK™ versions. Where applicable, VisiBroker for C++ is also certified with alternative system libraries.

**Real-time requirements** - VisiBroker for C++ provides a compliant implementation of the CORBA Real-Time specifications for applications with real-world timing requirements. Real-Time CORBA extensions provide granular control of resource utilization and of multi-threading behavior.

**Full IPv6 Support** - While VisiBroker has long supported IPv6, networks now trend towards pure IPv6 environments (without an IPv4 stack). VisiBroker can now run all functionality (except Smart Agent) on a "pure" IPv6 environment in the absence of IPv4 on those platforms for which such a configuration is possible.

**Operational visualization** - VisiBroker Console aids in development and debugging by providing a runtime view of distributed objects.



Easy visibility into CORBA back-end systems is achieved through a GUI-based console

## PRODUCT SPECIFICATIONS & SYSTEM REQUIREMENTS

VisiBroker supports a wide range of platforms which is continually being extended. Please check the VisiBroker Product web page or check with Technical Support for the latest, complete platform coverage. Development installations require between 200 Mbytes and 400 Mbytes of disk space, depending on configuration and platform. VisiBroker is inherently distributed and multi-faceted. It is unlikely that a production deployment will make use of all the component pieces of VisiBroker. Furthermore, the core of VisiBroker is a runtime library to be used in conjunction with application code. Consequently, runtime memory requirements vary considerably.

- Microsoft® Windows XP® SP2, Windows Vista® and Windows® 7 - for x86, 32 and 64 bit processors
- Microsoft® Windows Server® 2008 and Windows Server® 2003 SP2, R2 - for x86, 32 and 64 bit processors

- HP-UX 11i v3 - for PA-RISC 32/64 bit and Itanium 64 bit processors
- Red Hat® Enterprise Linux® 5.0 - for x86, 32 and 64 bit processors
- SUSE™ Linux® Enterprise Server 10.0 and 11 SP1 - for x86, 32 and 64 bit processors
- Monta Vista Linux CGE 4.0 - for x86, 64 bit processors
- Oracle Solaris™ 10 - for SPARC and x86, 32 and 64 bit processors
- IBM AIX® 6.1 - for Power, 32 and 64 bit processors

**For additional information please visit: [www.microfocus.com](http://www.microfocus.com)**