**BUSINESS CHALLENGE**

Distributed systems span diverse environments. Building around distributed environments forces systems architects to address this diversity and heterogeneity in general. There are classes of distributed systems where simplistic, lowest-common-denominator solutions are unsuitable. 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® is a comprehensive CORBA® 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 thread and connection management and efficient implementation of the IIOP® 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™ enabling them to conform to a modern Services-Oriented Architecture (SOA).

**KEY BENEFITS**

**Low Total Cost of Ownership (TCO)**

VisiBroker offers improved developer productivity and rapid integration. Built-in management capabilities reduce system downtime while ensuring efficient use of resources. This provides a low risk solution for CORBA applications.

**Engineered to give power-users the edge**

VisiBroker is engineered internally to the highest standards to enable users to build distributed systems that meet the most demanding requirements. This attention to detail enables challenges surrounding high performance to be met without compromise. Additional components solve security, transactional and asynchronous notification needs.

**Services-oriented multi-technology interoperability**

VisiBroker enables 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® C++, C# and Visual Basic® - that can ‘talk’ to existing, unmodified CORBA and J2EE applications.

Through close integration with Artix, the Micro Focus Extensible ESB solution, VisiBroker applications are able to directly interact with any required protocol or technology.

**Backward compatibility and interoperability**

VisiBroker provides 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.
Wide range of support for hardware, operating system and compiler

Systems architects must deal with many platform constraints. VisiBroker is available for a wide range of platform options. Available platforms are characterized by operating system, processor architecture, C++ compiler and Java Development Kit (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 the need to modify the CORBA applications. VisiBroker enables developers to transparently write CORBA applications using a .NET language which interoperates seamlessly with other CORBA applications written in another language.

CORBA object support - Easy configuration for automated discovery of objects, load balancing and failover of CORBA objects. 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.

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 Network Address Translations.

Multi-platform 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 Real-time CORBA 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. 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 provides a runtime view of distributed objects, which helps in development and debugging.

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

PRODUCT SPECIFICATIONS AND 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.

For additional information please visit: www.microfocus.com

© 2014 Micro Focus IP Development Limited. All rights reserved. MICRO FOCUS, the Micro Focus logo, among others, are trademarks or registered trademarks of Micro Focus IP Development Limited or its subsidiaries or affiliated companies in the United Kingdom, United States and other countries. All other marks are the property of their respective owners. DSVIBR0511