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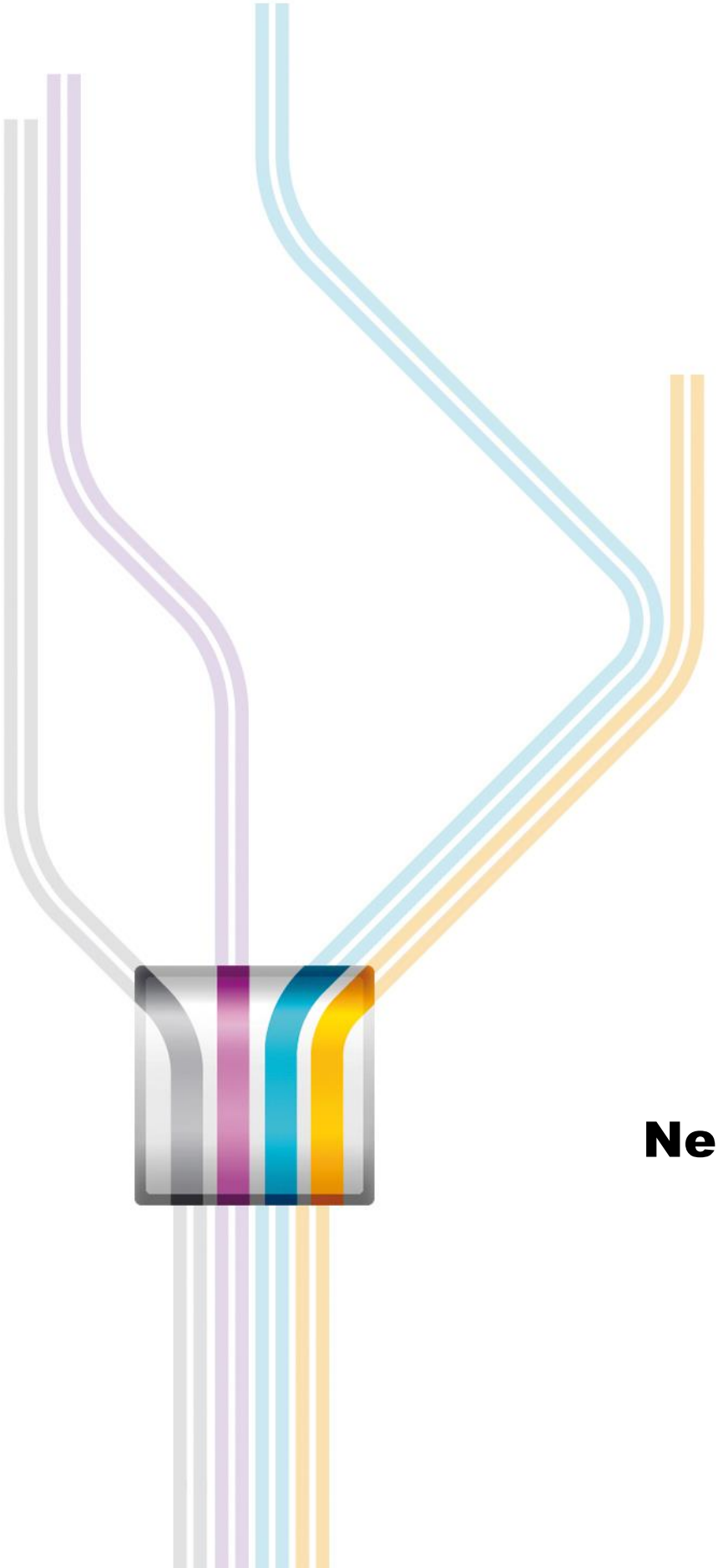

Neoxen Trelox QX

White Paper

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1 Neoxen Trelox

Information Mediation Broker

1.1 Executive Summary

Neoxen Trelox is a 32/64-bit multi-functional Information Mediation Broker. It is based on the Neoxen QX Framework, the core of Neoxen QX technology and the foundation of all Neoxen products. All current desktop and server versions of Microsoft Windows are supported – From Windows 7 and Windows 8(.1)/10 to Windows Server 2012 R2.

Neoxen Trelox allows you to efficiently integrate diverse communications systems with minimum effort. It is a small and lightning fast mediator between systems developed with varying technologies and platforms. It supports Server Side Customizations (SSC) allowing extensions for different business verticals and different communications needs.

Conceptually Neoxen Trelox functions as a broker mediating between distributed applications and devices, thus providing a virtual network of integrated solutions. Instead of communicating with each other, applications and devices communicate only with the broker. An application sends a request to the broker, providing the logical name of the receiving business logic modules. The broker looks up a module registered under the logical name and then passes the data to it for further action.

The embedded server framework can act as a metadata management server allowing you to combine database data with physical files stored in server repositories. It forms a front-end server for multi-vendor database and file repository back-ends. It supports over ten different RDBMS (Relational Database Management) systems out of the box. It allows you to store and distribute structured and unstructured data from different multi-vendor sources. Multi-vendor database storage provides additional scalability, advanced search and integration capabilities.

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Neoxen Trelox is designed for project groups, systems integrators and independent software vendors for rapid development of communications systems. It provides a solid foundation, which drastically shortens design and implementation time and significantly reduces development costs. Neoxen Professional Services uses it as a foundation technology in all customer projects requiring a robust, high-performance communications platform.

1.2 From Legacy Systems to Smart Devices and Server Clusters

Customer demand for systems interoperability continues to grow, driven largely by the need to cut costs due to tight budgets, the need to maximize return on investments, and the need for fine tuning and standardizing the corporate processes.

The challenge for hardware/software vendors is to respond to this demand efficiently. More effort is required to find strategies to integrate and extend existing legacy deployments without compromising the system reliability or costly complete application re-writes. The new communications solutions develop the need to integrate with existing systems, legacy devices and still enable controlled access with the latest technological innovations.

Some of the essential features required from a distributed communications platform are:

- It should be transparent to use in different platforms, and it is essential to scale from legacy systems to hand-held smart devices, multimedia terminals and server clusters.
- It needs to seamlessly support all Microsoft operating environments in the system level. It needs to be compliant with Microsoft Windows SDK, Microsoft Foundation Classes (MFC), C# and scripting languages. It should provide developers with an optimal path between existing and new generation systems.
- It should contain ready-made project and server extension templates, in order to shorten the time-to-market and time-to-money spans.
- It needs to be small in size and have a small memory footprint. It should be very well performing and robust. It should scale from small devices to enterprise servers. The structure should be modular, preferably object oriented and it needs to support multiple programming languages.

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- It should be fully internationalized and provide easy localization procedures for all the major language areas, including the Far East.

Neoxen Trelox answers to these requirements and many others. Therefore, it is the chosen broker platform for any development organization seeking for more competitive advantages in today's rapidly evolving global markets.

1.3 Neoxen Trelox - Built To Meet the Business Needs

Designed as a highly flexible and customizable multi-functional broker, Neoxen Trelox allows exercising as much control over the architectural layers as required by the business needs of the solution. It permits developers and integrators to easily leverage the full power of this technology for their own benefit.

By design, development of communications solutions with Neoxen Trelox allows subsequent access to all the technologies and platforms supported by Microsoft and many others. The users of the platform are not forced to stick to one and only solution or technology. This business-oriented flexibility offers a true competitive advantage.

This technology specifically offers the following system development benefits:

- The modular architecture integrates easily with existing solutions and services
- It works with many different commonly used technologies from multiple manufacturers
- Multi-layered architecture is extendable and customizable with all layers accessible to developers

Using Neoxen Trelox as the main broker platform also has a positive impact on development and maintenance costs, whether it is implemented with a single application or within a network of different solutions.

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2 Main Advantages

2.1 Save in Development Costs

Neoxen Trelox is easy to learn and easy to use and the licensing is flexible and competitive. Neoxen Trelox contains a consistent interface in every supported platform. Therefore, less coding is required to achieve the targets and the testing efforts can be concentrated on the business level functionality.

2.2 Build Better Solutions

As you save in development costs, you will also build better solutions utilizing the extensively tested and proven foundation. Less bugs, shorter testing cycles and shorter project completion will raise your customer satisfaction and give you a competitive advantage.

2.3 Save in Support Costs

When there is a need to upgrade or modify your solution, your developers can typically concentrate on just the business level. Neoxen Trelox Release 10.58 is backwards compatible. If there is a need to upgrade the platform, the existing solutions remain fully functional and can even take advantage of some of the new features without re-coding.

2.4 Earn Confidence

Whether you create a solution designed to reside on an intranet or run over the Internet, customers will feel more confident using the system based on a robust and proven platform. Furthermore, the developers can have the Neoxen Trelox sources stored in an escrow service for even further confidence.

One of the additional benefits of Neoxen Trelox is that its usage is not restricted to any particular programming language or development environment. The core technology is written in low-level C language for optimal performance and inter-operability. Therefore, all the functionality is accessible from any programming language capable of calling C-style library functions (C, C++, C#, most scripting and macro languages, Java, etc.).

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The whole code base of Neoxen Trelox has been fully internationalized. Therefore, the solutions created can be easily localized to any language area, including the Far East.

As a whole, Neoxen Trelox is an answer to the development of globally as well as locally targeted business driven communications solutions.

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3 General Availability

3.1 Shipping Release

The Neoxen Trelox is available directly from the vendor. Please visit our web site at http://www.neoxen.com or contact our sales department at sales@neoxen.com.

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