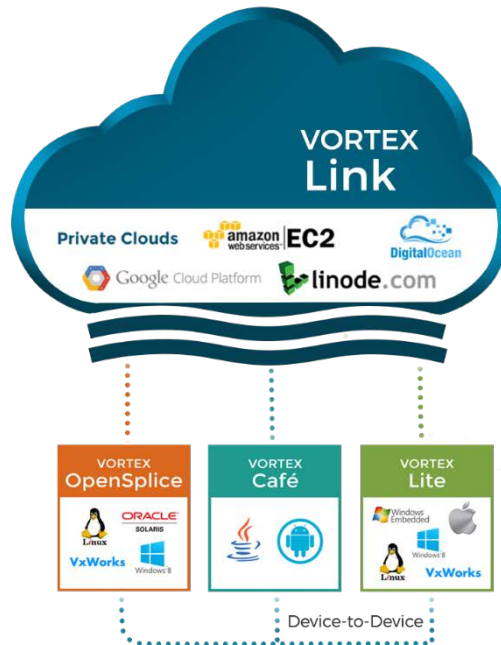


Vortex DDS the Intelligent Data Sharing Platform

Vortex DDS is the Intelligent Data Sharing Platform for Business-Critical Internet of Things (IoT) applications. Vortex DDS helps system integrators, OEMs, device platform vendors, and Cloud service providers (IaaS, PaaS, SaaS, DaaS) deliver 'Smart' solutions for many vertical markets, including: IT and Networks, Healthcare, Energy, Transportation, Smart Cities, Industrial Automation, Finance and Government (Security and Public Safety).



Introduction

Vortex DDS provides efficient, secure and interoperable real-time Internet scale data sharing. It is a key enabler for systems that have to reliably and securely deliver high volumes of real-time data with stringent end-to-end qualities-of-service (QoS).

Vortex DDS Key Benefits:

- Device to Device, Device to Cloud, and Device to Device via the Cloud real-time data sharing
- Platform independent interoperable solution for Embedded, Mobile, Web and Enterprise environments
- Operating system and programming language independent
- Built on the Object Management Group (OMG) Open standards to enable application portability, interoperability and component re-use
- LAN or WAN deployment over private or public networks, Clouds and Edge network
- Seamless integration with legacy and 3rd party application, providing connectors to over 100 different protocols and endpoint technologies. Open architecture APIs enable integration of 3rd party development environments/IDEs, frameworks and analytics software
- End-to-end qualities of service providing superior performance, scalability, reliability, determinism, interoperability, security and network efficiency
- Information-centric security model is supported by a modular security framework.
- Dynamic discovery for applications publishing and subscribing to data
- Plug-and-play for applications enabling systems to evolve more easily

Vortex DDS enables system-wide data sharing for machines, devices and people. It allows users to leverage the growing proliferation of the next generation of intelligent devices to create new IoT solutions. Vortex DDS helps users to harness the ever-increasing amounts of device generated data, process the data in real-time and act on events as quickly as they occur to drive smarter decisions, enable new services / revenue streams and reduce costs. Vortex DDS

simplifies the development, the deployment and the management of large scale IoT applications, so enabling users to bring their new products and solutions to the market more quickly.

The Vortex DDS Intelligent Data Sharing Platform consists of the Vortex SDK's and Vortex Link. The Vortex DDS platform product bundles are designed to provide a range of capabilities that best suit the specific needs of a system:

Vortex Device enables device applications to securely share real-time data using different device platform and network configurations. This includes being able to support data sharing between devices (Device to Device) on the same LAN, data sharing between devices and a Cloud-based datacentre (Device to Cloud) and between devices and a Web browser client. Vortex Device includes interoperable data sharing technologies that can support a broad range of Enterprise, Embedded and Handheld systems. Vortex Device also includes a suite of advanced tooling that helps users design, develop, test, debug, tune, monitor and manage deployed Vortex DDS systems and systems of systems.

Vortex Link provides universally accessible Routing and Discovery Services that enable ubiquitous data sharing and WAN connectivity for Vortex systems or any other system/device that uses a compliant Data Distribution Service (DDS) software stack. Vortex Link provides transparent discovery and routing between data readers and data writers regardless of location. Vortex Link supports a number of different deployment and connectivity scenarios, including individual device to cloud, system to cloud and also system federation. Vortex Link enables edge-to-edge communication as a way to complement and optimize traditional cloud architectures. Keeping the data at the edge of the network where the connected devices are creating the data offers the possibility to create new and innovative services and process efficiencies not possible with cloud computing alone.

Develop

Vortex DDS provides users with both flexibility and choice when developing IoT applications. Vortex DDS is both programming language and operating system independent. Projects can choose their preferred programming language(s) with APIs available in C, C++, Java, JavaScript and C#. Developers have the choice to create native Vortex DDS applications using their preferred compiler / IDE or leverage Vortex's DDS Open APIs to create applications using a specific application framework or platform technology. Vortex's DDS Open architecture allows it to be easily integrated with 3rd party technologies such as an analytics engine or a management / monitoring tool.

Vortex DDS Intelligent Data Sharing Platform is an advanced suite of complementary interoperable technologies that enable business-critical and industrial IoT systems. Vortex Link can be used to provide Internet wide, secure data sharing. The Vortex DDS platform provides implementations targeting different device platforms, including: Vortex Lite for embedded IoT devices, Vortex Café for Android and Java-centric environments, and Vortex OpenSplice for servers and desktops.

Share

Vortex DDS supports real-time data sharing between devices and machines, enterprise systems and people. This includes devices such as a sensor, other types of specialized real-time embedded processing units, enterprise servers or any other type of computing resource that needs to share data across a network (wired, wireless or hybrid) even if the applications are hosted in a Cloud-based datacentre or another LAN accessible via the Internet. Vortex DDS provides fast and deterministic data sharing between applications by enabling users to have tailored control over the real-time behaviour of the data. QoS can be specified to control importance, urgency and resource utilization.

Manage

Vortex DDS provides advanced tooling that helps users design, develop, test, configure, tune, debug, then monitor and manage deployed Vortex DDS systems and systems of systems.

Summary

Vortex DDS is a unique suite of technologies that can enable an IoT global data space with support for over 20 configurable QoS to ensure the performance, efficiency and robustness required of business-critical systems. It facilitates system requirements such as deterministic data delivery, interoperability between systems, data analytics on edge devices and in the Cloud, and mobility for users. For IoT systems that require efficient, secure and interoperable real-time Device to Device and Device to Cloud information sharing, combined with flexibility and choice then Vortex DDS can provide users with a superb cost effective solution. Using Vortex DDS reduces the

complexity of your applications, which reduces cost for development and ensures you can get your solutions to the market more quickly.

For More Information

For further information regarding Vortex DDS availability and pricing please e-mail: ist_info@adlinktech.com or visit: www.adlinktech.com



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