

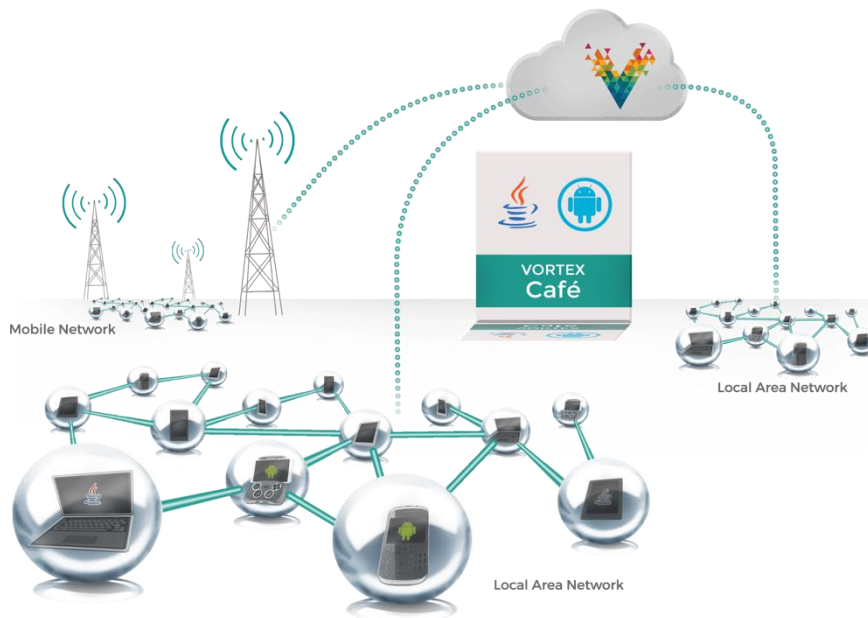


Real-time Data Sharing for Mobile and Java™ Centric IoT Devices

Vortex Café brings the Data Distribution Service (DDS) to Java-centric systems including mobile devices powered by Android. Vortex Café combines the benefits of the Java™ programming model with real-time data sharing to enable users to create the next generation of high performance Internet of Things (IoT) applications.

Overview

Vortex Café is a pure Java™ DDS implementation optimized for Android and J2SE Java™ Virtual Machines (JVMs). Vortex Café is the first real-time peer-to-peer middleware infrastructure designed for mobility whilst enabling seamless interoperability with existing DDS systems. Vortex Café brings the benefits and productivity advantages of the Java programming language such as “write once, run anywhere” portability and programming efficiency, combined with the real-time data sharing performance and Quality-of-Service (QoS) control required by industrial and business-critical IoT systems.



Supported Qualities-of-Service (QoS)

Vortex Café provides predictable and deterministic data sharing between applications by enabling users to have tailored control over the real-time behavior of the data. QoS can be specified to control timing, communication channel priority and resource utilization, including:

QoS Category	QoS Policy	VORTEX Café
Data Availability	DURABILITY	only VOLATILE and TRANSIENT_LOCAL
	DURABILITY SERVICE	
	LIFESPAN	
	HISTORY	✓
	WRITER DATA LIFECYCLE	✓
	READER DATA LIFECYCLE	✓
Data Delivery	PRESENTATION	
	RELIABILITY	✓
	PARTITION	✓
	DESTINATION ORDER	✓
	OWNERSHIP	✓
	OWNERSHIP STRENGTH	✓
Data Timeliness	DEADLINE	✓
	LATENCY BUDGET	✓
	TRANSPORT PRIORITY	✓
Resources	TIME BASED FILTER	✓
	RESOURCE LIMITS	✓
Configuration	USER DATA	
	TOPIC DATA	
	GROUP DATA	
	ENTITY FACTORY	✓
System Availability	LIVELINESS	only AUTOMATIC

Vortex Café Interoperability

Vortex Café is fully compliant with the OMG DDSI v2.1 Standard, meaning that Vortex Café fully interoperates with other DDS implementations that also implement the standard. Vortex Café is compliant with the Java 5 PSM specification for simpler and safer programming that delivers exceptional developer productivity. The DDSI stack is optimized for mobile environments, and can be used on Android devices along with any other device that can support a J2SE JVM.

Complementary Technologies

Vortex Café is a key component of the Vortex Intelligent Data Sharing platform, an advanced suite of complementary interoperable technologies that enable business-critical and industrial IoT systems. In addition to Vortex café, the Vortex platform consists of Vortex Lite for embedded IoT devices, Vortex Cloud for cloud services and internet wide data sharing, Vortex Web for browsers, Vortex OpenSplice for enterprise servers and Vortex Gateway for integration with third party network technologies.

Summary of Vortex Café Benefits

- Pure Java DDS implementation version targeting Java-centric systems
- Only DDSI implementation on the market designed optimized for mobility and for Android devices
- Can run on any device that supports J2SE v1.6 JVM and above
- Member of Vortex family of IoT products for end-to-end (Device-to-Device; Device-to-Cloud-to-Device) data management capability
- Seamless interoperability and integration with the other Vortex products
- Java-5 PSM (API) for simple and safe programming and exceptional productivity

For More Information

For further information regarding Vortex Café availability, platform support and pricing please e-mail:
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