



### **Power Tools**

# **Pre-Requisites**

- All the software demonstrated during this Webcast can be obtained at the following web-sites:
  - http://www.opensplice.org
  - http://www.sparxsystems.com



r2 - 27 Nov 2009 - 16:38:05 - SimonMcQueen

### Full OMG DDS Implementation. Fully Open Source!

OpenSplice Community Edition has no equal in terms of standards compliance and openness.

	OMG DDS Standard Compliance					
	DCPS Profiles					DDSI
	Minimum				DLRL	RTPS
OpenSplice DDS Community Edition	Yes	Yes	Yes	Yes	No	Yes
Other DDS (Best Case)	Yes	Partial	Yes	No*	No	Yes

### What is the right OpenSplice DDS Edition for you?

OpenSplice DDS is available in four different editions, whose features are summarized below,

Edition	Good to Know	Action
OpenSplice DDS Community Edition	Freely available at no cost Open Source under LGPL License Full DDS Implementation Interoperability Wire Protocol (DDSI/RTPS) Real-time Networking CORBA Co-habitation More Features than any other DDS Implementation	Download
OpenSplice DDS Compact Edition	All features included in the Community Edition plus  Eclipse-based Model Driven Tools, to improve your productivity up to 10x  Rich set of Tools for inspecting your DDS applications  Available via PrismTech through Commercial Subscriptions	Learn More
OpenSplice DDS Professional Edition	All features included in the Compact Edition plus Full implementation of the OMG DDS-DLRL Standard to natively integrate DDS into C++ and Java Web connectors Available via PrismTech through Commercial Subscriptions	Learn More
OpenSplice DDS Enterprise Edition	All features included in the Professional Edition plus  Secure DDS Extension  Connector to any ODBC 3.0 DBMS (e.g. MySQL, Oracle, etc.)	Learn More

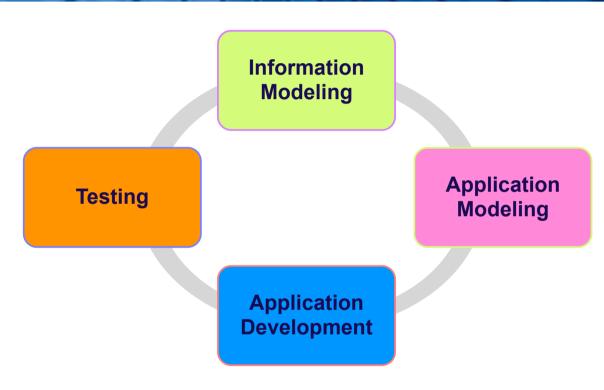






Building DDS Applications

# **Building DDS Applications**



- ▶ Tools can be applied at various stages of system development
- ▶ Different Tools and Modeling approaches are more suitable for the different stages







Relevant Standards

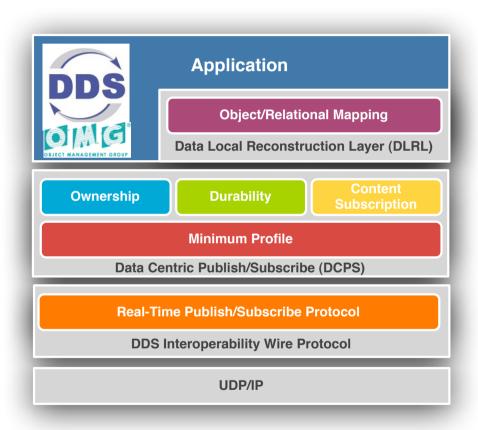
### The OMG Data Distribution Service (DDS)

### DDS v1.2 API Standard

- Language Independent, OS and HW architecture independent
- ▶ DCPS. Standard API for Data-Centric, Topic-Based, Real-Time Publish/Subscribe
- DLRL. Standard API for creating Object Views out of collection of Topics

### DDSI/RTPS v2.1 Wire Protocol Standard

- Standard wire protocol allowing interoperability between different implementations of the DDS standard
- Interoperability demonstrated among key DDS vendors in March 2009







## **UML Profile for DDS**

- ▶ A UML Profile designed for the analysis and design of object-oriented systems using Data Distribution Service technology.
- Provides DDS designers, architects and practitioners with a standard, domainspecific modeling language to design DDSbased distributed information systems in a manner not specific to the underlying implementation of that design.









Building a DDS Application in Action

# **Building DDS Applications**



Information Modeling



**Testing** 

**Application Modeling** 

OpenSplice DDS

**Application Development** 

OpenSplice DDS







Let's go live!

## **Online Resources**

### OpenSplice DDS

Delivering Performance, Openness, and Freedom

- http://www.opensplice.com/
- \* emailto:opensplicedds@prismtech.com



\*http://bit.ly/1Sreg



http://www.youtube.com/OpenSpliceTube





http://www.sparxsystems.com/



\* http://www.slideshare.net/angelo.corsaro



http://opensplice.blogspot.com

