

METRO



Web Services Stack

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Agenda

- ▶ Overview
- ▶ Architecture
- ▶ Demos
- ▶ Roadmap
- ▶ Q & A

What is Metro?

Metro is one-stop shop for all your web services needs.

- ▶ Java web services stack
- ▶ Part of GlassFish™ project
- ▶ Production-quality & High-performance

Metro = JAX-WS RI + WSIT/Tango

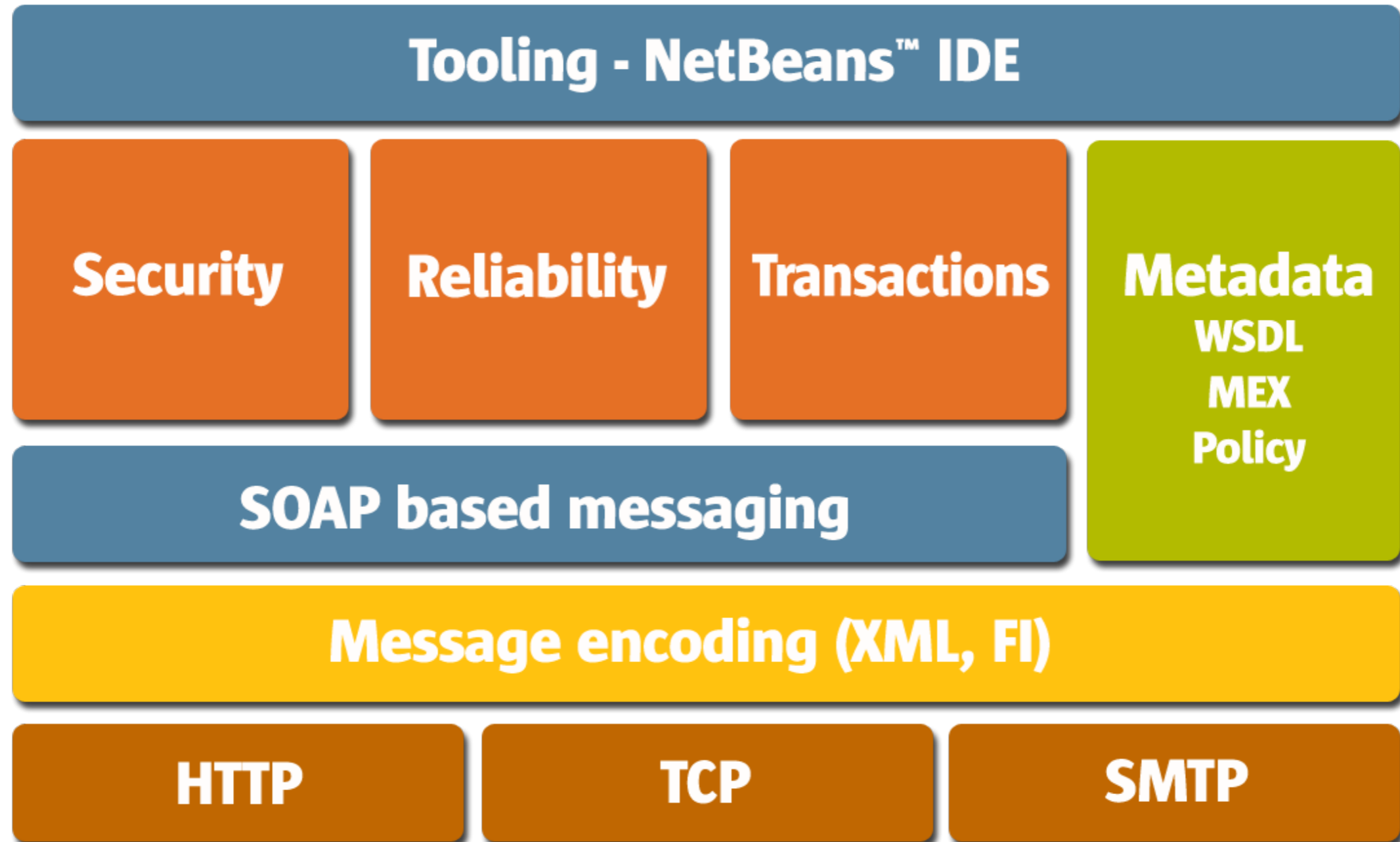
▶ JAX-WS RI

- Implements Java API for XML Web Services (JAX-WS)
- Provides core Web services support
- Extensible and pluggable architecture

▶ Web Services Interoperability Technology

- Provides support for QoS
 - Security, Reliability, Transactions
- Implementation of WS-* specifications
 - Interoperability with .NET 3+

Architecture



Core Features

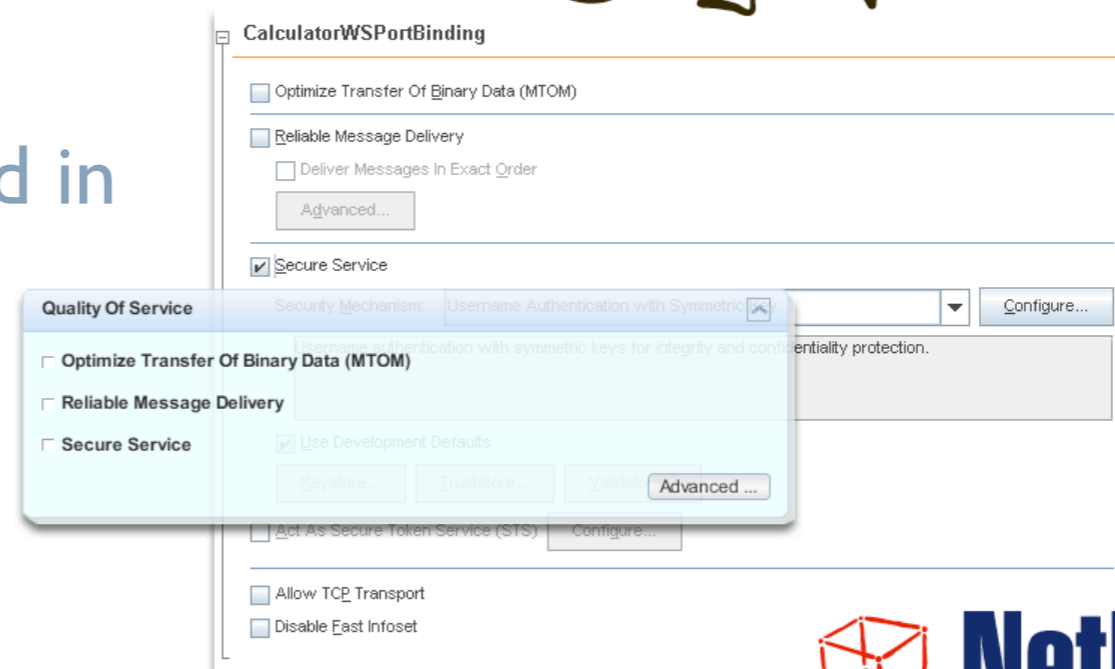
- ▶ JAX-WS 2.1: Easy to use Web services API
 - New addition : Web Services Addressing 1.0 support
- ▶ Embrace POJO concepts via annotations
 - Descriptor-free programming
- ▶ Encoding, Protocol and Transport Independence
- ▶ Integrated Java Architecture for XML Binding (JAXB)
 - Java™ platform API
 - 100% XML Schema Support
- ▶ Communication Optimization Standards
 - MTOM/XOP (W3C), FastInfoset (ITU-T/ISO)

Advanced Features

- ▶ Bootstrapping Communication and QoS
 - WS-MetadataExchange, WS-Policy
- ▶ Quality of Service
 - Reliable Message Delivery
 - Atomic Transactions
 - Secured Communication
- ▶ Transparent to application code

Programming model

- ▶ Components developed using JAX-WS and JavaEE APIs
- ▶ Quality of service specified in configuration file
 - produced by NetBeans™ module



It's Showtime!

- ▶ “Hello World” Service
- ▶ Efficient data handling
- ▶ Message level security
- ▶ Reliable message delivery + REST



Roadmap

▶ Metro v1.5

- Current FCS version

▶ Metro v2.0

- Aligned with GlassFish v3
 - To be released in Summer, 2009
- Bundles JAXB 2.2 and JAX-WS 2.2
- Feature one-pagers:

<http://wikis.glassfish.org/metro/Wiki.jsp?page=V2.0OnePagers>

Community

- ▶ Lots of adoption
 - JavaSE/EE SDK, IBM JDK, GlassFish, Oracle, ...
 - OpenSSO, OpenESB, Wiseman, ...
- ▶ Very active mailing lists and forum
 - Even our Microsoft colleagues hang out there
- ▶ Hosted extensions
 - Spring, JSON, SMTP transport, DIME, ...
- ▶ Be active - participate!
 - Vote on issues, provide patches, review documentation

Metro Summary

- ▶ Full-featured WS stack
- ▶ Popular in Java community
- ▶ Many advanced features
- ▶ Interoperability (with Microsoft .NET)
- ▶ High Performance
- ▶ Running on GlassFish and Tomcat

Questions?





THANK
YOU

For more information...

<http://metro.dev.java.net>

<http://wsit.dev.java.net>

<http://jax-ws.dev.java.net>

<http://glassfish.dev.java.net>

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