

Getting Started Guide

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The FIRMS software provides an implementation of the WS-Reliability (WSR) and WS-Reliable Messaging (WSRM) specification. The specification for WSRM -- developed jointly by IBM, Microsoft and BEA can be found at <ftp://www6.software.ibm.com/software/developer/library/ws-reliablemessaging200403.pdf>.

The specification for WS-Reliability -- developed jointly by Fujitsu, Novell, Oracle, and Sun -- can be found at <http://docs.oasis-open.org/wsrn/2004/06/WS-Reliability-CD1.086.pdf>. The purpose of this document is to provide the user an entry point for the navigating the software. Specifically this document outlines the various documents available for FIRMS within this release, with a brief description of the contents of these documents. With this information in hand a user may decide the best course of action to achieve his/her desired goal. Our description of the documentation is organized based on the directory structure of the documentation.

1. Getting Started:

This is the directory in which THIS document resides. In addition to this, there are two other documents here.

1.1 FIRMS-ReadMe

This document provides information regarding the developers, the history, standards adopted and the list of jar files. This document also outlines the OPEN SOURCE LICENSE that governs the software.

1.2 FIRMS- Software Prerequisites for OMII

This document outlines the pre-requisites for utilizing this software.

2. Architecture:

2.1 FIRMS Conceptual Overview

This document provides a conceptual overview of the software. We encourage users who are interested in the over-arching principles governing the implementation of the WS-R and WS-RM specifications to read this document.

2.2 FIRMS Functional Specification

The document provides an in-depth view into the software. A description of the use cases and benchmarks of several important aspects of the software have also been provided here. The benchmarks provide the user with a feel for the costs (in terms of latencies and memory utilizations) associated with certain operations within the software.

Functional design considerations related to various aspects -- such as assumptions, pre-requisites, deployment scale, and error handling among others -- have also been described.

Finally, the document also provides documentation related to individual methods for several classes within the software.

2.3 FIRMS Deployment Problems in Axis

The OMII container leverages the Apache Axis Web Service Container. This document enumerates the problems that exist within Axis and how we coped with these problems. We expect that this document would be useful for developers who plan to implement support for Web Service specifications.

3. Installation

This directory contains files related to the installation and deployment of the software. Our software has been tested with version 2.3.1 & 2.3.3 of the OMII Container and when we say container this is the version that we refer to.

3.1 FIRMS User Guide

This document outlines how users can leverage the software to build their own applications. The document also describes how to develop WSR and WSRM source applications. By using this guide developers can start building their own applications.

3.2 FIRMS-Explanation of build.xml

This document provides details regarding the various ANT commands that users can use to access functionality available within the software.

3.3 FIRMS-Explanation of build_client.xml

This document provides details about the commands and operations that are accessible within the build_client.xml.

3.4 FIRMS-Explanation of build_server.xml

This document provides details about the commands and operations that are accessible within the build_server.xml.

3.5 FIRMS-Deployment within OMII

This document outlines instructions related to the deployment of the WS-ReliableMessaging and WS-Reliability software within the OMII Container.

3.6 FIRMS- Running on Different Machines within OMII

This document outlines how one can run the WS-ReliableMessaging and WS-Reliability Services on different machines, all of which are deployed within the OMII Container.

3.7 FIRMS-Running within FilterPipeline

This document outlines the steps involved in running the sample example within the prototype Filter Pipeline environment that is available as part of this release.

4. Summary

4.1 FIRMS-Summary

This document provides a summary of the WS-ReliableMessaging and WS-Reliability software within FIRMS Release

5. Support

5.1 API

In this directory an API of the software is available for the user's perusal. This API was generated using the javadoc tool.

5.2 API-WSRM-Compact

The Application Programmer's Interface of the WSRM software is available for the user's perusal. This API was generated using the javadoc tool.

5.3 API-WSRM-All

The Application Programmer's Interface of the WSRM software is available for the user's perusal. This API was generated using the javadoc tool.

5.4 API-WSR-Compact

The Application Programmer's Interface of the WSR software is available for the user's perusal. This API was generated using the javadoc tool.

5.5 API-WSR-All

The Application Programmer's Interface of the WSR software is available for the user's perusal. This API was generated using the javadoc tool.

5.6 FIRMS-Promotional

This contains an abbreviated snapshot of the software's capabilities. This PowerPoint file is suitable for disseminations within the targeted user community.

5.7 FIRMS-Tutorial

This contains FIRMS tutorial about WS-Reliable Messaging and WS-Reliability. This PowerPoint document also explains FIRMS deployment and running within OMII container.

6. Testing

6.1 FIRMS-Running JUnit Tests

We have leveraged JUnit to test several of our core classes. This document describes how these tests can run.