

## **RNIF Compliance Test Final Report**

GSRN: (8018) 086228300000000610

**IBM**

**WebSphere Partner Gateway Advanced Edition V6.0**

**WebSphere Partner Gateway Enterprise Edition V6.0**

Sponsored by:

**RosettaNet**

[www.rosettanet.org](http://www.rosettanet.org)

Prepared & Facilitated By:

**DRUMMOND GROUP INC.**

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## **Cover Letter**

DRUMMOND GROUP Inc. is pleased to announce that WebSphere Partner Gateway Advanced Edition V6.0 and WebSphere Partner Gateway Enterprise Edition V6.0 have completed all requirements and successfully passed all tests to prove compliance to the RosettaNet RNIF 2.0 specification on the basis of interaction with the RosettaNet Self Test Kit (STK) over the RosettaNet RNIF test suite.

To fully understand what completing the test means regarding the use of the product in production, please read this document carefully.

Sincerely,

Rik Drummond  
CEO, Drummond Group Inc.

## **Disclaimer**

Drummond Group Inc. (DGI) conducts interoperability and conformance testing in a neutral test environment for various companies and organizations ("Participant"). At the end of the testing process, DGI may list the name of the Participant in the final test report along with an indication that the Participant passed the test. The fact that the name of the Participant appears in the final report is not an endorsement of the Participant or its products or services, and DGI therefore makes no warranties, either express or implied, regarding any facet of the business conducted by the Participant.

**Test Participant**



**International Business Machines**

<http://www.ibm.com>

**Product names:**

**WebSphere Partner Gateway Advanced Edition V6.0**  
**WebSphere Partner Gateway Enterprise Edition V6.0**

## Test Summary

In March and April 2005, DGI administered RNIF compliance testing for the IBM product named WebSphere Partner Gateway Advanced Edition V6.0 / WebSphere Partner Gateway Enterprise Edition V6.0.

The testing proceeded through Orientation, Set-up, Debug, Dry Run and Final Run phases allowing IBM to encounter and fix any configuration or code issues.

IBM successfully executed all required tests during the initial phases, and then successfully re-executed a representative subset of the tests during the Final Run phase.

In effect, the product under test proved compliance to RNIF 2.0 as both a sender and a receiver over the features of PIPs 0C1, 0C2, 0C3 and 0C4 per the RNIF test suite as defined by RosettaNet. Features that were successfully tested included:

- SSL
- RNIF Message Packaging
- One-action and two-action PIPs
- Synchronous and asynchronous messaging
- Digital Signature
- Encryption
- The combination of Digital Signature and Encryption
- Use of multiple algorithms to support Digital Signature and Encryption
- Recognition & handling of errors in Preamble, Delivery & Service headers
- Recognition & handling of errors in the message Manifest
- Ability to retry messages
- Ability to generate appropriate Notification Of Failure messages
- Ability to handle partner message retry
- Ability to acknowledge Notification Of Failure messages from partner
- Ability to accept & verify signature on messages with single attachments
- Ability to accept & verify signature on messages with multiple attachments

## **Self Test Kit Configuration during the Test**

The compliance test was executed with these specific versions of Self Test Kit components:

Java JRE Runtime	1.3.1
Repository Base	v01[1].02.02
RRSTK	2.06.01
Tools	2.05 (which includes 5 open-source apps)
0C1 test scripts	r01[1].02.00v01.08
0C2 test scripts	r01[1].02.01v01.06
0C3 test scripts	r01[1].02.00v01.04
0C4 test scripts	r01[1].02.01v01.03

## **The Test Process**

The Compliance test progresses through five phases: Orientation, Set-up, Debug, Dry Run and Final Run.

### **Orientation**

During Orientation, the Participant attended a conference call where DGI explained the overall process, answered questions and exchanged information needed to enable connectivity. During the call, DGI delivered an online tutorial of the Test Center including how to log on, execute tests and view test results.

### **Set-up**

During the Set-up phase, the test Participant exchanged partner information and proved raw connectivity to the Test Center through firewalls and proved connectivity using SSL by executing a small subset of the RNIF Test Suite tests.

IBM chose to use a single self-signed certificate for all security features. During the test, an issue was found where the original IBM digital certificate could not be used for digital signature (see the section named Issues found during the test). IBM created a separate certificate and continued the test using one certificate for SSL and Encryption and a separate certificate for digital signature.

### **The Debug Phase**

During the Debug Phase, the test participant successfully proved compliance to all core RNIF features by exercising a large subset of the RNIF test suite. The purpose of this phase is for participants to encounter and fix configuration, design or code issues that prevent successful execution of core RNIF features.

### **The Dry Run Phase**

During the Dry Run Phase, the test participant successfully executed the majority of the RNIF Test Suite tests, including all tests which had not yet been executed during Set-up or Debug. The Test participant was allowed to make any needed configuration or code changes.

### **The Final Run Phase**

During the Final Run Phase, the test participant successfully re-executed a subset of the RNIF Test Suite tests, in a limited time, in exact order as required by the Test Plan. Code changes are allowed up to the Final Run Phase. The test participant was not allowed to make any code changes in the Final Run Phase in order to prove that they achieved a stable code base which is in compliance with RNIF 2.0.

## Executed Tests

The RNIF Test Suite contains 191 tests. During Beta testing of the Test Center, DGI and RosettaNet determined that eight tests in the test suite need not be executed due to inconsistencies with the RNIF specification. The product under test successfully executed all required tests, specifically:

- 0C1 Tests 1 through 49
- 0C2 Tests 1 through 18 and Tests 22 through 49
- 0C3 Tests 1 through 48
- 0C4 Tests 1 through 45

During the Final Run, the product under test was required to successfully re-execute 18 tests comprising a subset of the RNIF Test Suite where each of the key RNIF features as defined by the Test Suite is exercised. The Final Run tests below were executed in order, in a limited time frame with no code changes, demonstrating compliance to RNIF with a stable code base.

PIP	Tests	RNIF Features
0C2	5, 6, 7	The most likely features found in production, asynchronous two action with digital signature, no encryption executed as initiator and responder
0C1	14, 17	All core RNIF features executed as both initiator and responder in synchronous & asynchronous patterns with one-way & two-way actions
0C2	15, 16	
0C3	14, 17	
0C4	15, 16	
0C1	18	Ability to handle an acknowledgment receipt in error
0C4	18	Ability to handle a business message in error during second action, handle partner retry and acknowledge NOF sent from partner
0C2	37	Send exception message on Manifest Error
0C1	48	Single attachment messages
0C1	49	Multiple attachment messages
0C2	49	Initiate Notification of Failure
0C4	45	

## **About Drummond Group Inc.**

Drummond Group Inc. (DGI) is an independent, privately held company that works with software vendors, vertical industries and the standards community to drive adoption for standards by conducting interoperability and conformance testing, publishing related strategic research and developing vertical industry strategies. Founded in 1999, DGI represents best-of-breed in the industry on linking horizontal infrastructure technologies, standards and interoperability issues with the needs of vertical industries such as retail, grocery, health care, transportation, government and automotive. For more information, please visit [www.drummondgroup.com](http://www.drummondgroup.com) or email: [info@drummondgroup.com](mailto:info@drummondgroup.com).