IBM WebSphere Business Integration Connect
Enterprise Edition and Advanced Edition

IBM®

Release Notes

Version 4.2.0

Release Notes

These release notes contain the following sections:

Introduction

Welcome to the release of WebSphere® Business Integration Connect, version 4.2.0, an enterprise-strength, business-to-business (B2B) community. WebSphere Business Integration Connect serves as your private trading community's foundation. It enables integration extension into the horizontal, extended value chain. As your trading community's hub, you achieve full, at-a-glance visibility of data flow across the entire community. Meanwhile, each of your participants benefits from filtered exchange visibility.

Your data is maintained with a full set of data integrity tools, and thanks to its interoperability, you are compatible with a host of leading B2B applications. This product offers comprehensive RosettaNet PIP (Partner Interface Process) support, multi-data format and transport support, assured end-to-end transaction deliveries, plus high availability. For system robustness and performance, the application is vertically and horizontally scalable.

Features

This release of WebSphere Business Integration Connect contains several key features:

- Hub and Participant Visibility — At the hub level, you achieve 24x7 at-a-glance visibility into data flow across the overall trading community. You are able to manage and configure the system including console branding, permissions and password policy, events, workflow, and document routing. The participant level permits every participant a filtered view of all data relevant to them. Each participant can drill into transactions, viewing individual message status (received, in progress, failed, successful), plus document content and choreography.

- Data Integrity Tools — Pre-defined, customizable query tools help you locate documents by participant, document ID, timestamp, protocol, and document status. Errors in document structure/format are identified by field location and value, with corrective actions suggested based on comprehensive error analyses. Exception notification is handled via a robust alert engine and e-mail generation. A data repository stores original and final documents, document origin information, transport method information (HTTP, FTP, SMTP), and packaging information (RNIF, AS1/AS2). Digital signatures with industry-standard document encryption/decryption and security tools are supported.

- Proven Interoperability — The application supports multiple Internet transport protocols: HTTP/S, FTP, and SMTP. For document packaging/unpackaging, multiple industry trading protocols are supported: RNIF 1.1 and 2.0, EDIINT (AS1 and AS2), and proprietary XML/HTTP frameworks. In addition, utilizing its XSLT and Java™ document translation capabilities, you modify or adopt messaging standards at the hub level without forcing corresponding changes at the participant level.

- RosettaNet PIP Support — Fully compliant with RN standards (RNIF 1.1/RNIF 2.0) and EDIINT (AS1/AS2). The solution is compatible with both standard and custom PIP implementations.

- Assured Delivery — This application includes message queuing with transport and process-level message delivery retries. Process retries are executed according to protocol until the message in question is appropriately acknowledged or other response is received. If all retries are exhausted (both retry and queuing parameters are configurable), the system fails the B2B process according to protocol. The hub and participants are notified of this and other B2B process failures through pre-defined error and exception messages.

- High Availability — The application's distributed-architecture design, coupled with redundant configurations for IP load-balancing and shared storage, provides high-availability document receipt and processing. Database and messaging configurations are redundant. Plus, the solution permits dynamic environment configuration through use of redundant, distributed application components — all without system downtime.

- Scalable Platform — Components can be deployed and run on separate servers for flexible, independent component scalability. Vertical scaling is accomplished by adding processing power to a single server and employing Multithreaded Managed Bean (MBean) with a configurable number of processing threads. To achieve horizontal scaling, the system is architected using shared work queues with a locking mechanism (persistent JMS-based queues). A configurably redundant database and routing supports high-transaction volumes.

Limitations and known issues

The following issues are present in this release of the product:

Additional step when installing from the CD

To install Business Integration Connect from a CD, extract all files from the `<part number>.tar` file to a writable file system with sufficient free space. You can then follow the instructions in Installing Business Integration Connect to install the product.

Console time uses UTC

All times in the Community Console are in UTC rather than the time defined by the local time zone. This includes drop-down selections such as defining alerts. The offset between standard and daylight savings time must be accounted for in UTC. It is necessary to update alert-monitoring periods so they remain the same with respect to the local time. (1-1LW11)

Error message when starting the Document Manager, Receiver, and Community Console

Once installation is complete, starting the Business Integration Connect components with the command: `./startServer.sh server1` generates the following error message:

```
./startServer.sh server1

./startServer.sh: ulimit: cannot modify limit: Operation not
permitted

ADMU0116I: Tool information is being logged in file

/opt/IBM/WBIConnect/receiver/was/logs/server1/startServer.log

ADMU3100I: Reading configuration for server: server1

ADMU3200I: Server launched. Waiting for initialization status.

ADMU3000I: Server server1 open for e-business; process id is
8151
```

This is an informational warning designed into the system and not an actual error. All services will function normally. (1-1P839)

One help topic is displayed at a time

If a help topic is already open and in the background, a newly selected help topic will not be displayed. The original help topic will remain in the background until it is closed. (1-1NFCP)

Screen resolution

The recommended screen resolution is 1024x768. The online help incorrectly states 800x600. (1-1QBTT)

Alert visibility for community manager

The community manager can only view volume and event alerts that are created by the community operator or a participant. The online help incorrectly states that the community manger has edit capabilities. (1-1OIJT)

Help topic for creating a new contact with a new alert

Step eight of the Creating a new contact with a new alert section of the online help applies only to event alerts and not volume alerts. (1-1RQ7P)

Version of Internet Explorer

The required version of Internet Explorer is 5.5 or later. Confirm that your browser includes the latest service pack available from Microsoft®. (1-1R8E1)

Verify password during installation

A single, non-display box is used for entering the default passwords during the database and community console installation. The user should double-check that the password entered into the text box is correct. For example, if a user mistakenly transposes the password smith and enters `smiht` during installation, the system will reject the correct smith password and not allow access into the database or community console.

Loss of database connection results in no error messages when starting console

If a database connection is lost while starting the console server, no error message will be displayed. To verify if this has occurred, the graphics will be missing from the console login screen, and any password entered into the console will be invalid regardless if the correct password is used.

Changing the initial and maximum heap size to avoid out-of-memory errors

To improve routing performance and eliminate out-of-memory errors, the following scripts are used to change the initial and maximum heap size:

- Query current heap size

  ```
  /opt/IBM/WBIConnect/console/was/bin/wsadmin.sh -conntype NONE
  -f $LOCATION_OF_SCRIPTS$/queryJVMAttrs.jacl
  ```

- Set min/max heap size

  ```
  /opt/IBM/WBIConnect/console/was/bin/wsadmin.sh -conntype NONE
  -f $LOCATION_OF_SCRIPTS$/setJVMAttrs.jacl
  ```

Change the heap size to the recommended values by editing `setJVMAttrs.jacl`.

Default
Xms=50
Xmx=256

First recommendation
Xms=256
Xmx=512

Second recommendation
Xms=256
Xmx=1024

Documentation

The following documentation is provided with this release of WebSphere Business Integration Connect:

- Product Overview — Description of the entire WebSphere Business Integration Connect product family with additional details on WebSphere Business Integration Connect Enterprise and Advanced editions.

- Architecture Overview — High-level description of the Business Integration Connect architecture including components, subcomponents, and message flows.

- Installation Guide — Step-by-step installation instructions including environment planning.

- Integration Overview — Description of the interface, packaging, and protocols that back-end applications use when sending and receiving messages from Business Integration Connect. The Integration Overview also describes the integration with WebSphere InterChange Server and WebSphere Data Interchange as well as EDI message routing.

- Administrator Guide — Instructions for managing the hub infrastructure, configuration, and participant connectivity.

- Community Console User Guide — Instructions for using the community console to manage the exchange of business documents across the trading community.

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