Release Notes for WebSphere Business Integration Connect, Enterprise and Advanced Editions, Version 4.2.1

These release notes cover release information for IBM(R) WebSphere(R) Business Integration Connect, Enterprise and Advanced Editions, Version 4.2.1. They contain the following sections:

New in this release

Product fix history

Hardware and software requirements

Installation, migration, upgrade, and configuration

Limitations

Known problems and workarounds

Documentation

Note: Important information about this product may be available in Technical Support Flashes issued after these release notes were published. These can be found on the WebSphere Business Integration support Web site at http://www.ibm.com/websphere/integration/wbiserver/support. Select the component area of interest and search the flashes section.

New in this release

This section lists the new features and improvements made in this release.

Additional platform support

In addition to RedHat Linux Advanced Server 2.1, Business Integration Connect Enterprise and Advanced Editions can now be installed on the following platforms:

- Windows(R) 2000
- Solaris 8
- UnitedLinux Version 1.0
- AIX(R) 5L Version 5.2

Additional database support

In addition to DB2(R) Universal Database, this release now works with Oracle 9.2.

New protocol support

This release supports the following business protocols:

- SOAP (passthrough support) for Web services
- cXML

Enhanced RosettaNet support

The RosettaNet support enhancements include the following:

- Support for synchronous messaging
- PIP document flow packages (see section on PIP document flow packages below)
- An Data Handler feature to manage attachments that you send to or from WebSphere InterChange Server
- Globalization enablement

PIP document flow packages

Business Integration Connect provides Partner Interface Process (PIP) document flow packages for the RosettaNet Implementation Framework (RNIF) 1.1 and 2.0. These packages are ZIP files that contain XML and XSD files. The XML file specifies the document flow definitions used by Business Integration Connect to handle the PIP. The XSD files specify the format of the PIP messages and acceptable values for the message element. Business Integration Connect provides PIP document flow packages for the PIPs listed in the table below. The *Administrator Guide* provides information on how to create PIP document flow packages for other PIPs and other versions of these PIPs.

PIP	Name	Version
PIP 2A12	Distribute Product Master	V01.03.00
PIP 3A1	Request Quote	V02.00.00
PIP 3A2	Request Price and Availability	R02.01.00B
PIP 3A4	Request Purchase Order	V02.02.00
PIP 3A5	Query Order Status	R02.00.00
PIP 3A6	Distribute Order Status	V02.02.00
PIP 3A7	Notify of Purchase Order Update	V02.02.00
PIP 3A8	Request Purchase Order Change	V01.02.00
PIP 3A9	Request Purchase Order Cancellation	V01.01.00
PIP 3B2	Notify of Advance Shipment	V01.01.00

PIP 3C3	Notify of Invoice	V01.01.00
PIP 3C4	Notify of Invoice Reject	V01.00.00
PIP 3C6	Notify of Remittance Advice	V01.00.00
PIP 3D8	Distribute Work in Process	V01.00.00
PIP 4A1	Notify of Strategic Forecast	V02.00.00
PIP 4A3	Notify of Threshold Release Forecast	V02.00.00
PIP 4A5	Notify of Forecast Reply	V02.00.00
PIP 4B2	Notify of Shipment Receipt	V01.00.00
PIP 4C1	Distribute Inventory Report	V02.03.00
PIP 5C1	Distribute Product List	V01.00.00
PIP 5C4	Distribute Registration Status	V01.02.00
PIP 5D1	Request Ship From Stock And Debit Authorization Status	V01.00.00
PIP 7B1	Distribute Work in Process	V01.00.00
PIP 0A1	Notification of Failure	v1.0
PIP 0A1	Notification of Failure	V02.00.00

Product fix history

Between release 4.2.0 and 4.2.1, the following CRs, based on customer-reported cases, were fixed.

Console time uses UTC
The Community Console lists times in Coordinated Universal Time (UTC) rather than in the local time zone. This applies also to 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. Fixed in 4.2.1.

Screen resolution
The recommended screen resolution is 1024 x 768. The online help incorrectly states 800 x 600. Fixed in 4.2.1.

Additional step when installing from the CD To install Business Integration Connect from a CD, you need to extract all files from the `<part number>.tar` file to a writable file system with sufficient free space. Fixed in Release 4.2.1.
Changing the initial and maximum heap size to avoid out-of-memory errors To improve routing performance and eliminate out-of-memory errors, use the following scripts to change the initial and maximum heap size: "Query current heap size" and "Set min/max heap size." Fixed in Release 4.2.1.

Hardware and software requirements

Hardware and software requirements are included in the product documentation. See Installation, migration, upgrade, and configuration information for links to those guides.

Installation, migration, upgrade, and configuration information

Whether you are installing the software from the CD or downloading it from Passport Advantage and installing it from a local directory, refer to *Installing WebSphere Business Integration Connect*.

The guide also includes general migration, upgrade, and configuration information.

Limitations

PIP document flow packages

Business Integration Connect is not able to support PIPs that send XML documents with more than one format per action. For example, a typical one-action PIP sends an XML document of only one format to a receiver. The PIP 2A1 V1.0, however, uses two different formats for the service content.

If you create a PIP document flow package, the name of the PIP or its DTD and the names of the XML and XSD files in the PIP document flow packages cannot exceed 120 characters. If any of the names exceed this limit, Business Integration Connect cannot upload the PIP document flow package.

Sync Ack Required attribute affects the Digital Signature Required and Non-Repudiation of Receipt attributes

In one-way synchronous RosettaNet routing, the Sync Ack Required attribute determines whether the Digital Signature Required and Non-Repudiation of Receipt attributes take effect or not. The following two examples illustrate this functionality.

For example 1, consider a Participant initiated, one-way synchronous PIP with the following connection attributes:

- Digital Signature Required = Yes
- Non-Repudiation of Receipt = Yes (The receipt acknowledgement contains the original message digest)
- Sync Supported = Yes
- Sync Ack Required = No (A synchronous receipt acknowledgment is required for Non-Repudiation of Receipt)

In this example, the Sync Ack Required has priority and Business Integration Connect will return an "http 200" to the Participant and not generate a receipt acknowledgement even though the Non-Repudiation of Receipt attribute is Yes. Likewise, if the Community Manager initiates a one-way PIP to a Participant, Business Integration Connect will expect only an "http 200" status and no receipt acknowledgement.

For example 2, consider a Participant initiated, one-way synchronous PIP with the following connection attributes:

- Digital Signature Required = Yes
- Non-Repudiation of Receipt = Yes (The receipt acknowledgement contains the original message digest)
- Sync Supported = Yes
- Sync Ack Required = Yes (A synchronous receipt acknowledgment is required for Non-Repudiation of Receipt)

In this example, Business Integration Connect will generate a receipt acknowledgement with the correct message digest and signature. Likewise, if the Community Manager initiates a one-way PIP to a Participant, Business Integration Connect will expect a receipt acknowledgement with the correct message digest and signature.

Directory names cannot contain non-ascii characters
This is a limitation of Websphere Application Server, which responds to WebSphere Business Integration Connect requests. It cannot handle a non-ascii character within a directory name. This includes all installation directories.

Known problems and workarounds

Once installation is complete, starting the router, receiver, and console services 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.

Disabling an established Participant connection by clicking the **X** icon under the **Deactivate** heading may fail on the first try.

To work around this, retry the disable attempt by clicking the **X** icon. All subsequent actions on the Java Server Page (JSP) should work correctly.

Shutdown of the receiver and router may fail on Solaris platforms. The shutdown command (stopServer.sh server1) for either the router or receiver will begin when executed, but may process indefinitely.

To work around this, stop the processing of the shutdown command. Then run the following commands for the router and receiver:
For the router, execute `pkill -9 -U bcguser -f router`
For the receiver, execute `pkill -9 -U bcguser -f receiver`

Linux operating systems do not check for free disk space during installation, which may result in an installation failure if the target directory or filesystem does not have enough free disk space. The message `java.io.IOException: No space left on device` may appear in the installation log.

To work around this, check to see if enough disk space is available in the target directory (and file system) before proceeding with installation on Linux systems.

A Windows services view may incorrectly report the status of an IBM WebSphere Application Server - bcgDocumentManager service.

To work around this, use a command prompt (DOS) to stop and start the server. Stop the server by executing either the `shutdown_bcg` command or the `stopserver` command. When shutting down the server, the server name is not needed. Start the server by executing the following command from the <WBICRoot>\router\was\bin directory: `startserver server1`.

Events may not show up in the Event Viewer.

To work around this, stop and restart the Websphere Application Server console, router, and receiver. These commands are operating-system specific and can be found in the installation guide. They are the same commands issued to start the servers during installation.

New users may not initially pick up the default time zone of the hubadmin user. If a user does not select a local time zone setting, the default may be either blank or show GMT on initial login.

To work around this, the new user should log out and log in again, and then choose the time zone of the hubadmin user.

Only 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.

Step eight of the "Creating a new contact with a new alert" section of the online help applies only to event alerts. Step eight does not apply to volume alerts.

The Community Manager can only view volume and event alerts created by the Community Operator or a Participant. The online help incorrectly states that the Community Manager has edit capabilities.

The required version of Internet Explorer is 5.5 or later. Confirm that your browser includes the latest service pack available from Microsoft.

A single, non-display box is used for entering the default passwords during the database and community console installation. The user should ensure 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.

If a database connection is lost while starting the console server, no error message will be displayed. As a result, however, graphics will be missing from the console login screen, and any password entered into the console will be invalid, even if it is correct.

Documentation

Product documentation is not included as part of the product package, either by CD or electronic product distribution. The documentation for this product can be found in the following InfoCenter:

http://www.ibm.com/software/integration/wbiconnect/library/infocenter/

To obtain the product documentation, visit the Web site and download the current documentation set for the release that you are using. Follow the instructions provided on the InfoCenter page to complete the installation.