

IBM WebSphere Business Connection



Release Notes

Version 1.1.1

Note!

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 13.

Third Edition (December 2002)

This edition applies to Version 1, Release 1, Modification 1, of *IBM® WebSphere® Business Connection* (5724-D26) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Contents

WebSphere Business Connection

Version 1.1.1 Release Notes 1

About this document	1
About this release	1

Installation, upgrade, migration, and configuration information 3

Method One - Install and Configure WebSphere Business Connection 1.1.1	3
Deleting WebSphere enterprise applications and application servers	3
Deleting CrossWorlds artifacts	4
Deleting DB2 databases.	5
Removing the previous version and installing WebSphere Business Connection 1.1.1	5
Method Two - Custom installation of WebSphere Business Connection 1.1.1	5
Removing WebSphere Business Connection 1.1 components.	6

Installing WebSphere Business Connection 1.1.1.	7
Updating the WebServices Gateway WebSphere components.	7
Updating WebSphere Business Connection WebSphere components.	7
Updating CrossWorlds	8
Making miscellaneous updates	8

Known limitations 9

Required software	9
Web Services Gateway restrictions	9
Registration and Provisioning	10
Security	10
CrossWorlds restrictions	10
Miscellaneous restrictions.	10

Notices 13

Programming interface information	14
Trademarks and service marks	15

WebSphere Business Connection Version 1.1.1 Release Notes

Welcome to the IBM^(R) WebSphere^(R) Business Connection Version 1.1.1 family of offerings.

About this document

This document lists the new features of the release and describes general scenarios for migrating from the WebSphere Business Connection Version 1.1 release.

About this release

In Version 1.1, WebSphere Business Connection Express Edition (only) was available on the AIX^(R) and Solaris platforms. All three editions of WebSphere Business Connection were available on the Windows^(R) platform.

Version 1.1.1 offers support for additional WebSphere Business Connection editions on the UNIX-based platforms. The following table lists the editions of WebSphere Business Connection Version 1.1.1 available for each platform:

Table 1. WebSphere Business Connection editions available

Platform	Business Connection editions
AIX	WebSphere Business Connection Express Edition WebSphere Business Connection WebSphere Business Connection Enterprise Edition
Solaris	WebSphere Business Connection Express Edition WebSphere Business Connection
Windows 2000	WebSphere Business Connection Express Edition WebSphere Business Connection WebSphere Business Connection Enterprise Edition

This release also features increased automation in the installation procedures.

Installation, upgrade, migration, and configuration information

This section describes two ways to migrate from WebSphere Business Connection 1.1 to WebSphere Business Connection 1.1.1.

- The first and preferred way is to remove WebSphere Business Connection 1.1 from the system and then install and configure WebSphere Business Connection 1.1.1. This method involves overwriting databases, which means that all data will be lost. This method is ideal for Proof-of-Concept machines.
- The second way is to custom install each part of WebSphere Business Connection 1.1.1. This method is complicated and subject to error.

With either method, make a back up copy of the target system before beginning. Read all instructions before starting. These guidelines apply to all editions of WebSphere Business Connection. If you are migrating a Business Connection Express edition, ignore the sections that do not apply to your system.

Method One - Install and Configure WebSphere Business Connection 1.1.1

In this method, you completely remove (“scrub”) the system, removing WebSphere Business Connection 1.1 and then installing WebSphere Business Connection 1.1.1. If you have any non-WebSphere Business Connection CrossWorlds applications, make a back-up copy of the CrossWorlds repository before scrubbing. Install and configure WebSphere Business Connection 1.1.1 according to the instructions in the Installation and Configuration Guide for Windows or Installation and Configuration Guide for UNIX.

The following sections guidelines to follow if you are removing WebSphere Business Connection 1.1:

Deleting WebSphere enterprise applications and application servers

The first step is to delete the WebSphere enterprise applications and application servers, as follows:

1. From the WebSphere Administrative Console, stop the following application servers:
 - **BCTExceptionLog**
 - **BCTAuditLog**
 - **BCTBusinessLog**
 - **WSGW**
 - **BCT_DE**
 - **BCT_RP**
 - **BCT_RP_Web**
 - **BCT_RP_TC**
 - **BCT_SRA**
 - **BCT_SRA_CW**
 - **Default_server**
 - **WebSphereMemberServices**

2. Delete the following Enterprise Applications:
 - **WebServices *** (all application names that begin with “WebServices”)
 - **BCT_***
 - **Audit**
 - **Exception**
 - **Business**
 - **DE_EAR**
 - **SRA**
 - **SRA_CW**
 - **WebSphere Member Services**
 - **FederationService**
 - **TPIContectorService**
 - **ProvisioningHandler**
 - **HostingEAR**
 - **HostingUIEAR**
3. Delete the following application servers:
 - **BCTExceptionLog**
 - **BCTAuditLog**
 - **BCTBusinessLog**
 - **WSGW**
 - **BCT_DE**
 - **BCT_RP**
 - **BCT_RP_Web**
 - **BCT_RP_TC**
 - **BCT_SRA**
 - **BCT_SRA_CW**
 - **WebSphereMemberServices**

Deleting CrossWorlds artifacts

Next, you delete the CrossWorlds artifacts listed in this section. From the CrossWorlds System Manager, delete:

- Collaboration templates that start with **BCT_*** and their associated collaboration objects
- All maps that start with **BCT_*** or have **BCT** in the name
- Connectors with names that start with **BCT**
- Business objects that start with:
 - **BCT***
 - **Com.ibm.bct.***
 - **MO_Client_BOtoSOAP***
 - **MO_Client_SOAPtoBO***
 - **MO_Server_BOtoSOAP***
 - **MO_Server_SOAPtoBO***
 - **XML***

Deleting DB2 databases

To delete DB2 databases:

1. Bring up the DB2 Control Center.
2. Delete the databases (which were created for all WebSphere Business Connection components) listed below. Do **NOT** delete the CrossWorlds database (CWREPOS) or the WebSphere database (WAS40).
 - WSGWDB
 - BCTDE
 - BCMLOG
 - AUDITLOG
 - WMS
 - ACCOUNT
 - SECAUTH
 - OFFER
 - BILL
 - BULKLOAD
 - SANTAFE
 - CONTRACT

You can also use the db2 command prompt to drop the databases. Type the following command: `db2 drop db <DB_NAME>`

Removing the previous version and installing WebSphere Business Connection 1.1.1

The final step in scrubbing your system is to uninstall WebSphere Business Connection 1.1 using the directions in the *Version 1.1 Installation and Configuration Guide*. Delete all the files and directories in `<BCT_HOME>`.

After you have removed WebSphere Business Connection 1.1, install and configure WebSphere Business Connection 1.1.1 according the instructions in the *Installation and Configuration Guide for Windows*.

Method Two - Custom installation of WebSphere Business Connection 1.1.1

This migration method involves selectively removing parts of WebSphere Business Connection 1.1 and replacing them with the corresponding parts of WebSphere Business Connection 1.1.1.

The configuration program normally queries the user for configuration data and then configures all of WebSphere Business Connection, removing any data in the databases. The normal configuration, therefore, cannot be used when you want to save data. Because the method described in this section is more complicated than the other method, there is an inherently greater risk of user error; therefore, use this method only if you have data in the databases that you must keep.

Note: This procedure does not save the configuration of the Web Services Gateway. If you have deployed any of your own Web services, save the necessary information about the Web services and then re-deploy them after migrating.

Removing WebSphere Business Connection 1.1 components

The first step in the migration process is to remove parts of WebSphere Business Connection 1.1 and install WebSphere Business Connection 1.1.1.

1. Make a copy of the installedApps directory (in `<BCT_HOME>`) and the `<WBC_HOME>` directory. Also make a copy of the CrossWorlds Repository using `<CROSSWORLDS>\bin\repos_copy.bat`.
2. From the WebSphere Application Server Administrative console, stop the following application servers:
 - **BCTExceptionLog**
 - **BCTAuditLog**
 - **BCTBusinessLog**
 - **WSGW**
 - **BCT_DE**
 - **BCT_RP**
 - **BCT_RP_Web**
 - **BCT_RP_TC**
 - **BCT_SRA**
 - **BCT_SRA_CW**
 - **Default_server**
 - **WebSphereMemberServices**
3. Delete the following enterprise applications:
 - **WebServices *** (all application names that begin with “WebServices”)
 - **BCT_***
 - **Audit**
 - **Exception**
 - **Business**
 - **DE_EAR**
 - **SRA**
 - **SRA_CW**
 - **WebSphere Member Services**
 - **FederationService**
 - **TPIContectorService**
 - **ProvisioningHandler**
 - **HostingEAR**
 - **HostingUIEAR**
4. Delete the following application servers:
 - **BCTExceptionLog**
 - **BCTAuditLog**
 - **BCTBusinessLog**
 - **WSGW**
 - **BCT_DE**
 - **BCT_RP**
 - **BCT_RP_Web**
 - **BCT_RP_TC**
 - **BCT_SRA**

- BCT_SRA_CW
 - WebSphereMemberServices
5. Uninstall WebSphere Business Connection 1.1 using the directions in the Version 1.1 *Installation and Configuration Guide*. Delete all the files and directories in <BCT_HOME> *except* for the <BCT_HOME>\partners directory. Update the pre-reqs according to the instructions in Version 1.1 *Installation and Configuration Guide*.

Installing WebSphere Business Connection 1.1.1

Install WebSphere Business Connection 1.1.1 in the same location in which the 1.1 version was installed. Use the WebSphere Business Connection Installation and Configuration Guide for Windows or Installation and Configuration Guide for UNIX. Follow the installation process up to the “Configuring the WebServices Gateway” section and stop.

Updating the WebServices Gateway WebSphere components

Run the steps in the “Configuring WebServices Gateway” and “WebServices Gateway channels” sections.

If you are migrating WebSphere Business Connection Express Edition, you have successfully completed the migration and can stop here. Re-deploy any custom Web services that were originally on your system.

Updating WebSphere Business Connection WebSphere components

To update the WebSphere components, you create two files—dummy.xml and dummy.bat—and then run the BCTConfigure command against dummy.xml. Follow these steps:

1. In the <BCT_HOME>\bin directory, create the two files:

- a. The file dummy.xml should contain the following:

```
<?xml version="1.0" encoding="UTF-8"?>
<!doctype INSTALLABLE_COMPONENT SYSTEM "BCT_INSTALL.dtd">
<installable_component ComponentName="Migration" Description="WBC1.1.1">
<commandset CommandName="Dummy File">
<commandvariable CommandAction="dummy.bat"
  CommandParameter="&gt; c:\vReplace.log">
<resultset return_mode="c:\vReplace.log" return_token_warning="1"
  return_token_fail="2" return_token_success="0" />
</commandvariable>
</commandset>
</installable_component>
```

- b. The file dummy.bat should contain the following:

```
echo Variables were replaced successfully
```

2. From the <BCT_HOME>\bin directory, run:

BCTConfigure dummy.xml

A graphic user interface is displayed. You use the interface to fill in information specific to this configuration. The fields in the interface are described in the WebSphere Business Connection 1.1.1 *Installation and Configuration guides*.

After you fill in the information, the configuration program updates the configuration information in all the files in the <BCT_HOME>\bin and <BCT_HOME>\properties directories.

Make sure that WebSphere Application Server is started.

1. Run the following commands from a command prompt. Enter the WebSphere user ID and password if prompted:
 - **cd <BCT_HOME>\bin**
 - **smimport.bat**
 - **bctde_configureWAS.bat**
 - **BCTReplace.bat BCT_RP_REPLACE_WMS_DATA_FIRST.xml**
 - **BCTReplace.bat BCT_RP_REPLACE_WBCUI_DATA_FIRST.xml**
 - **RP_WAS_Import.bat**
 - **BCT_RP_COPY_WMS_FILES_AFTER_WAS_SETUP.bat**
 - **BCTReplace.bat BCT_RP_REPLACE_WSDL_DATA.xml**
 - **bct_sra_xmlconfig.bat**
 - **BCTReplace BCT_SRA_REPLACE_DATA_AFTER_WAS_SETUP.xml**
2. Run steps 19-22 from the Installation and Configuration Guide for Windows.
3. In <BCT_HOME>\wsdl\BCT_DocumentTransfer_Create.wsdl, update the IP address to the IP address of the target machine.
4. In <BCT_HOME>\wsdl\BCTDE_ServiceDefinition.xml, replace “localhost” with the IP address of the target machine.
5. Run the command **bct_sra_cw_xmlconfig.bat**
6. Run step 2 in the “Other Configuration” section.

Updating CrossWorlds

Update the CrossWorlds configuration as follows:

1. From the CrossWorlds System Manager, stop the following collaboration objects and then delete the objects:
 - **BCTDESendConnector_to_BCTDESOAPConnector_BCT_DocumentTransferOutbound**
 - **SAI_to_BCTDEReceiveConnector_BCT_DocumentTransferInbound**
2. From <BCT_HOME>\bin, run **bctde_loadrepository.bat**
3. Restart the InterChange Server.

Making miscellaneous updates

The final step is to perform two procedures from the Installation and Configuration Guide for Windows.

1. Run all the steps in “Securing WebSphere Business Connection enterprise applications” section.
2. Run all the remaining steps, after “Securing WebSphere Business Connection enterprise applications” section, if they apply to your configuration.

Known limitations

This section lists known limitations and restrictions.

Required software

The entire set of required software is listed in the *Installation and Configuration Guide*. The following is a list of key points you should be aware of before you begin installation:

- **Supported browser:** Only Internet Explorer 5.5 or higher is supported. There is no support for Netscape.
- **Supported database:** Only IBM DB/2^(R) is supported.

Web Services Gateway restrictions

The following list documents some restrictions in using the Web Services Gateway. Be aware that some of these restrictions discuss components (such as Document Exchange) that are not available on WebSphere Business Connection Express Edition.

- **RPC-style and document-style messaging:** The Web Services Gateway supports only RPC-style messages, while CrossWorlds^(R) generated Web services use document-style messaging. When you use CrossWorlds with Web Services Gateway, CrossWorlds-generated SOAP messages have to be structured such that they satisfy the RPC model. A solution provided by WebSphere Business Connection describes how to use the SOAP connector to produce a message with an RPC structure that can pass through the Web Services Gateway. Please refer to WebSphere Business Connection Web Services Advanced Topics and WebSphere Business Connection Web Services Technical Reference documentation for information and a documented solution.
- **Top-level elements:** The Body of a SOAP request message sent to the Web Services Gateway contains one or more top-level elements that correspond to parameters that will be used to invoke a Web service. The Web Services Gateway requires that all of these top-level elements be filled in with data that is of the appropriate type as described for the message (in the WSDL file for the Web service). If any of these elements is missing or not filled in, the Web Services Gateway cannot process the message. WebSphere Business Connection provides a utility program (CWGenUtility) to produce business-object definitions and maps so that you can wrap your generic business objects in such a way that only one top-level element (the wrapper field) is visible to the Web Services Gateway.
- **Web Services Gateway support:** Web Services Gateway does not support SOAP messages with attachments.
- **Service calls:** If you are using the Document Exchange service, be aware that you should activate security only on messages coming *into* an enterprise. This limitation is necessary because the Web Services Gateway does not distinguish between outbound calls from a service and inbound calls to a service, and the Document Exchange service uses the same name on both enterprises. If you check the secure box in the Document Exchange service in the gateway, a security challenge is presented when a message is sent (outbound) from one enterprise to the other. The security challenge should be active only on messages coming *into* the enterprise.

Registration and Provisioning

The following list applies to the Registration and Provisioning component:

- **Registration:** Do not use the organization name as the administrator's user ID for the exchange. For example, if the Organization name is IBM, do not use IBM as the user ID for the person administering the IBM exchange.
- **De-registration:** De-registration of users is not supported for WebSphere Business Connection 1.1.1. This could be done as a service engagement with a customer-specific workflow solution.
- **Update Profile not supported:** Profile update is not supported for WebSphere Business Connection 1.1.1. This could be done as a service engagement with a customer-specific workflow solution.
- **Federating Data Interchange partner profile:** For the WebSphere Business Connection Enterprise Edition, there is no federation of partner-profile information from WebSphere Data Interchange.

Security

Client certificates are not available in WebSphere Business Connection 1.1.1.

CrossWorlds restrictions

The following list describes CrossWorlds-related restrictions:

- **Namespace support:** The CrossWorlds SOAP connector can only produce a message that contains a single namespace for all its parts. This means that you cannot call a Web service with multiple namespaces from the SOAP connector..
- **RPC-style messages:** You can simulate RPC-style messages to non-CrossWorlds services with the following restrictions:
 - Only a single namespace is allowed in the SOAP message.
 - Only the data types that are available to CrossWorlds can appear in the interface to the service. The available data types are those that can be defined in a business object.
- **Primitive data types:** CrossWorlds does not support arrays of primitive data types. Arrays of business objects are supported.
- **SOAP connector:** The CrossWorlds SOAP connector does not provide security credentials in the http SOAP message.
- **Password in the clear in CrossWorlds configuration file:** The WSGenUtility in this release of CrossWorlds produces the user ID and password in clear text in the .cfg file. This is a Java^(TM) properties file used by the proxy class that WsGenUtility also generates. At this time, the information cannot be encrypted.
- **Business Object Designer:** Using the CrossWorlds Business Object Designer, you cannot create business objects that contain periods in their names. A solution is to create the business object with an underscore in its name, export it to a file, edit the file, replacing the underscore with a period, and then import the modified file. This process is described in Web Services Technical Reference.

Miscellaneous restrictions

Other restrictions include:

- **Routing filter works with SOAP channel only:** The routing filter packaged in `bctwsroutingfiltersoap.ear` works with messages received into the SOAP channel. It is possible that it works with messages received into other channels, but these configurations have not been tested.
- **Installation:** You must manually uninstall pieces of manually-configured code because the program used to uninstall WebSphere Business Connection removes only unmodified files that it installed.
- **Non-repudiation:** A non-repudiation log sufficient for legal purposes is not supported in WebSphere Business Connection 1.1.1. Non-repudiation is proof that a transaction occurred, or that you sent or received a message.
- **Correlation-ID design issue:** WebSphere Business Connection business objects do not have a correlation-ID field. This is needed for logging purposes and for maintaining the context between CrossWorlds and WebSphere Gateway.

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