

IBM WebSphere Business Connection



Registration Flow Collaboration

Version 1.1.0

Note!

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 31.

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Registration Flow Collaboration

The Registration and Provisioning component of IBM^(R) WebSphere^(R) Business Connection is made up of a variety of programming elements that provide a complete service for organizations to register with trading partners (marketplaces and service providers, for example).

For the organization that wants to register, Registration and Provisioning provides an easy sign-up process. After registering, the administrator of an organization can then subscribe to services of the trading partner as well as update information about the organization.

For the trading partner (the marketplace or service provider), the benefits are an easy-to-use registration for its subscribing organizations and provisioning of services to the subscribers.

A significant and important part of Registration and Provisioning is the BCT_TPRegFlow collaboration, which is activated whenever a new organization registers with the trading partner. The collaboration uses the profile information about an organization to invoke the Federation Service, which exports the profile to the appropriate gateway and which transfers information about the trading partner to the newly registered organization. The result is that both the registering organization and the trading partner have the information needed to communicate with each other.

For information about the BCT_TPRegFlow collaboration, see “BCT_TPRegFlow Collaboration” on page 3.

If you want information on registering as an organization with a trading partner or on administering organization requests, refer to the Administering the System document, which describes the tasks for using this service.

Use case - Administrator registers organization

This process involves an administrator of an organization who wants to register with a marketplace or service provider as a trading partner.

Actors

This use case has a single actor, the administrator.

Course

The following tables describe the main course that may be followed in the case:

Table 1. Use case description (main course)

#	Activity by the actor	System activity	Reference
M1	Requests registration form by entering URL	Displays initial registration screen	
M2	Enters organization information, which is stored in its own database	Profile is stored	

Table 1. Use case description (main course) (continued)

#	Activity by the actor	System activity	Reference
M3	Sends profile information to trading partner	Administrator at trading partner is notified of request	
M4	Receives notification that request is accepted	Registration collaboration kicks off process whereby the trading partner's profile is exported to the customer's Federated Partner Profile	

Use case - Administrator at trading partner accepts registration

This process involves the administrator at the trading partner who receives a request for the registration of an organization.

Actors

This use case has a single actor, the administrator at the trading partner.

Course

The following tables describe the main course that may be followed in the case:

Table 2. Use case description (main course)

#	Activity by the actor	System activity	Reference
M1	Receives notification that a registration request has arrived	Request is added to Customer Accounts page as "Guest"	
M2	Approves request	Registration collaboration kicks off process whereby the customer's profile is exported to the appropriate gateway	

BCT_TPRegFlow Collaboration

The BCT_TPRegFlow collaboration is used to pass a business object (representing the profile of a registering organization) to the Federation Service, which exports the profile to the appropriate gateways.

BCT_TPRegFlow uses the generic XML_BCTPartnerProfile business object to represent the profile. The XML_BCTPartnerProfile is a child business object of XML_TLO_BCTPartner Profile, which is itself a child object of the top-level BCTPartnerProfileGBO.

Required documents

The BCT_TPRegFlow collaboration is based on CollaborationFoundation and uses its features, ports, and configuration properties.

To create and configure a BCT_TPRegFlow collaboration object, use the following documents:

- This document for the BCT_TPRegFlow collaboration-specific information.
- *Standard Collaboration Processes* for information about business processes inherited from CollaborationFoundation.
- *Standard Collaboration Properties* for information about configuration properties inherited from CollaborationFoundation.
- *Collaboration Development Guide* for information about Collaboration Foundation, and for general information about creating and configuring collaboration objects.

Collaboration setup

This section includes the following information:

- “Port information”
- “Setting up the collaboration” on page 4

Port information

The following diagram illustrates BCT_TPRegFlow’s ports, as they are displayed in the IBM CrossWorlds^(R) System Manager (CSM):

Figure: How the collaboration object connects to ports

Note: To keep the collaboration from using a port, bind that port to the Port connector. Doing so indicates that the port is unused without causing the collaboration to provide additional functionality.

Table 3. Port name: From

Business Object	Bound To	Function	Verbs Used
BCT_Partner ProfileGBO	Source application (Provisioning Handler via the SAI)	Receives the triggering business object.	Retrieve

Table 4. Port name: To

Business Object	Bound To	Function	Verbs Used
BCT_Partner ProfileGBO	SOAP Connector to Federation Service	Sends the triggering business object to the Federation Service to federate the partner profile	Retrieve

Table 5. Port name: CMS

Business Object	Bound To	Function	Verbs Used
BCT_Partner ProfileGBO	SOAP Connector to Federation Service	Sends the triggering business object to the Federation Service to update the partner's status in the CMS	Retrieve

Table 6. Port name: email

Business Object	Bound To	Function	Verbs Used
BCT_Partner ProfileGBO	RegSyncEmail From port	Sends the triggering business object to an E-mail collaboration to update the primary contact on the status of registration	Retrieve

Setting up the collaboration

To set up BCT_TPRegFlow as a stand-alone collaboration object, complete the following steps:

1. Create the BCT_TPRegFlow collaboration object.
2. Bind the collaboration object's port to the destination application's connector or to the Port connector.
3. Bind the remaining ports as described in "Port information" on page 3.

Synchronization process

The following diagram illustrates BCT_TPRegFlow's process logic.

Figure: Registration flow's process diagram

Viewing collaboration messages

To view an explanation of this collaboration's messages, invoke Message Browser and open the collaboration's message file.

To invoke Message Browser and open the collaboration message file, complete the following actions:

1. In the Start menu, click **Programs > CrossWorlds > Server and Tools > Message Browser**.

2. On the **File** menu, click **Open**.
3. Use the **Look In** field to change the current folder to
`\collaborations\messages\BCT_TPRegFlow.txt`

See also

- “BCTPartnerProfileGBO” on page 7
- “XML_TLO_BCTPartnerProfile business object” on page 9
- “XML_BCTPartnerProfile business object” on page 11

BCTPartnerProfileGBO

The generic BCTPartnerProfileGBO business object is used to carry information about a registering trading partner. It is a top-level business object and has one child attribute, XML_TLO_BCTPartnerProfile.

Business object structure

BCTPartnerProfileGBO includes the following attributes:

Table 7. Business object attributes

Name	Type	Key	Cardinality
URL	String	x	
MimeType	String		
BOprefix	String		
XMLDeclaration	String		
DocType	String		
UpdateStatus	String		
TLO	XML_TLO_BCTPartner Profile		1
ObjectEventId	String		

Supported verbs

The generic BCTPartnerProfileGBO business object supports the Retrieve verb.

Examining the object

To examine a listing of the attributes of the generic BCTPartnerProfileGBO business object, use CrossWorlds System Manager or CrossWorlds Business Object Designer.

See also

For more information on related business objects and collaborations, see the following documents:

- “BCT_TPRegFlow Collaboration” on page 3
- “XML_TLO_BCTPartnerProfile business object” on page 9

XML_TLO_BCTPartnerProfile business object

The generic XML_TLO_BCTPartnerProfile business object is used to bundle business objects for translation from XML.

Business object structure

XML_TLO_BCTPartnerProfile includes the following attributes:

Table 8. Business object attributes

Name	Type	Key	Cardinality
BCTPartnerProfile	XML_BCTPartnerProfile		1
ObjectEventId	String		

Supported verbs

The generic XML_TLO_BCTPartnerProfile business object supports the Retrieve verb.

Examining the object

To examine a listing of the attributes of the generic XML_TLO_BCTPartnerProfile business object, use CrossWorlds System Manager or CrossWorlds Business Object Designer.

See also

For more information on related business objects and collaborations, see the following documents:

- “BCT_TPRegFlow Collaboration” on page 3
- “BCTPartnerProfileGBO” on page 7
- “XML_BCTPartnerProfile business object” on page 11

XML_BCTPartnerProfile business object

The generic XML_BCTPartnerProfile business object is used to carry information about a registering trading partner.

Business object structure

XML_BCTPartnerProfile includes the following attributes:

Table 9. Business object attributes

Name	Type	Key	Cardinality
email_message_text	String		
email_message_subject	String		
correlationID	String		
serviceURL	String		
companyName	String	x	
interchangeType	String		
interchangeId	String		
addressLine1	String		
addressLine2	String		
addressLine3	String		
city	String		
state	String		
postalCode	String		
primaryContact Name	String		
primaryContact Phone	String		
primaryContactFax	String		
primaryContactEmail	String		
secondaryContact Name	String		
secondaryContact Phone	String		
secondaryContact Fax	String		
secondaryContact Email	String		
ebXMLInfo	XML_BCTPartner Profile_ebXMLInfo		1
TPIServerProfile	XML_BCTPartner Profile_TPIServerProfile		1
WSGWProfile	XML_BCTPartner Profile_WSGWProfile		1

Table 9. Business object attributes (continued)

Name	Type	Key	Cardinality
TPICConnectorProfile	XML_BCTPartnerProfile_TPICConnectorProfile		1
ServiceInfo	XML_BCTPartnerProfile_ServiceInfo		n
CMSProfile	XML_BCTPartnerProfile_CMSProfile		1
DIServiceProfile	XML_BCTPartnerProfile_DIServiceProfile		1
ObjectEventId	String		

Supported verbs

The generic XML_BCTPartnerProfile business object supports the Retrieve verb.

Examining the object

To examine a listing of the attributes of the generic XML_BCTPartnerProfile business object, use CrossWorlds System Manager or CrossWorlds Business Object Designer.

See also

For more information on related business objects and collaborations, see the following documents:

- “BCT_TPRegFlow Collaboration” on page 3
- “BCTPartnerProfileGBO” on page 7
- “XML_TLO_BCTPartnerProfile business object” on page 9
- “XML_BCTPartnerProfile_ebXMLInfo business object” on page 13
- “XML_BCTPartnerProfile_TPIServerProfile business object” on page 15
- “XML_BCTPartnerProfile_WSGWProfile business object” on page 17
- “XML_BCTPartnerProfile_TPICConnectorProfile business object” on page 19
- “XML_BCTPartnerProfile_ServiceInfo business object” on page 21
- “XML_BCTPartnerProfile_CMSProfile business object” on page 23
- “XML_BCTPartnerProfile_DIServiceProfile business object” on page 25

XML_BCTPartnerProfile_ebXMLInfo business object

The generic XML_BCTPartnerProfile_ebXMLInfo business object is reserved for future use.

Business object structure

XML_BCTPartnerProfile_ebXMLInfo includes the following attributes:

Table 10. Business object attributes

Name	Type	Key	Cardinality
CPAId	String		
CPALocation	String		
version	String		
ObjectEventId	String		

Supported verbs

The generic XML_BCTPartnerProfile_ebXMLInfo business object supports the Retrieve verb.

Examining the object

To examine a listing of the attributes of the generic XML_BCTPartnerProfile_ebXMLInfo business object, use CrossWorlds System Manager or CrossWorlds Business Object Designer.

See also

For more information on related business objects and collaborations, see the following documents:

- “BCT_TPRegFlow Collaboration” on page 3
- “XML_BCTPartnerProfile business object” on page 11

XML_BCTPartnerProfile_TPIServerProfile business object

The generic XML_BCTPartnerProfile_TPIServerProfile business object is used to carry information about a trading partner's TPI server.

Business object structure

XML_BCTPartnerProfile_TPIServerProfile includes the following attributes:

Table 11. Business object attributes

Name	Type	Key	Cardinality
filename	String		
ObjectEventId	String		

Supported verbs

The generic XML_BCTPartnerProfile_TPIServerProfile business object supports the Retrieve verb.

Examining the object

To examine a listing of the attributes of the generic XML_BCTPartnerProfile_TPIServerProfile business object, use CrossWorlds System Manager or CrossWorlds Business Object Designer.

See also

For more information on related business objects and collaborations, see the following documents:

- “BCT_TPRegFlow Collaboration” on page 3
- “XML_BCTPartnerProfile business object” on page 11

XML_BCTPartnerProfile_WSGWProfile business object

The generic XML_BCTPartnerProfile_WSGWProfile business object is used to carry information about a trading partner's Web Services Gateway setup.

Business object structure

XML_BCTPartnerProfile_WSGWProfile includes the following attributes:

Table 12. Business object attributes

Name	Type	Key	Cardinality
password	String		
userid	String		
authType	String		
authCertType	String		
authCertKeyLength	String		
authOrgCertSource	String		
authCertIssuerName	String		
encryptType	String		
encryptCertType	String		
encryptCertKeyLength	String		
encryptOrgCert Source	String		
encryptCertIssuer Name	String		
filename	String		
ObjectEventId	String		

Supported verbs

The generic XML_BCTPartnerProfile_WSGWProfile business object supports the Retrieve verb.

Examining the object

To examine a listing of the attributes of the generic XML_BCTPartnerProfile_WSGWProfile business object, use CrossWorlds System Manager or CrossWorlds Business Object Designer.

See also

For more information on related business objects and collaborations, see the following documents:

- “BCT_TPRegFlow Collaboration” on page 3
- “XML_BCTPartnerProfile business object” on page 11

XML_BCTPartnerProfile_TPIConnectorProfile business object

The generic XML_BCTPartnerProfile_TPIConnectorProfile business object is used to carry information about a trading partner's TPI connector.

Business object structure

XML_BCTPartnerProfile_TPIConnectorProfile includes the following attributes:

Table 13. Business object attributes

Name	Type	Key	Cardinality
xmlMimeType	String		
ediMimeType	String		
binaryMimeType	String		
configfilename	String		
filename	String		
ObjectEventId	String		

Supported verbs

The generic XML_BCTPartnerProfile_TPIConnectorProfile business object supports the Retrieve verb.

Examining the object

To examine a listing of the attributes of the generic XML_BCTPartnerProfile_TPIConnectorProfile business object, use CrossWorlds System Manager or CrossWorlds Business Object Designer.

See also

For more information on related business objects and collaborations, see the following documents:

- “BCT_TPRegFlow Collaboration” on page 3
- “XML_BCTPartnerProfile business object” on page 11

XML_BCTPartnerProfile_ServiceInfo business object

The generic XML_BCTPartnerProfile_ServiceInfo business object is used to carry information about a trading partner's Web services.

Business object structure

XML_BCTPartnerProfile_ServiceInfo includes the following attributes:

Table 14. Business object attributes

Name	Type	Key	Cardinality
name	String		
type	String		
invocationType	String		
roleName	String		
roleType	String		
roleId	String		
IsAdmin	String		
description	String		
privilegeMask	String		
gatewayType	String		
channelType	String		
transportType	String		
serviceURL	String		
serviceURI	String		
serviceId	String		
Communication Information	XML_BCTPartnerProfile_CommunicationInformation business object		1
ObjectEventId	String		

Supported verbs

The generic XML_BCTPartnerProfile_ServiceInfo business object supports the Retrieve verb.

Examining the object

To examine a listing of the attributes of the generic XML_BCTPartnerProfile_ServiceInfo business object, use CrossWorlds System Manager or CrossWorlds Business Object Designer.

See also

For more information on related business objects and collaborations, see the following documents:

- “BCT_TPRegFlow Collaboration” on page 3
- “XML_BCTPartnerProfile business object” on page 11
- “XML_BCTPartnerProfile_CommunicationInformation business object” on page 27

XML_BCTPartnerProfile_CMSPProfile business object

The generic XML_BCTPartnerProfile_CMSPProfile business object is used to carry information about a trading partner's information relating to CMS.

Business object structure

XML_BCTPartnerProfile_CMSPProfile includes the following attributes:

Table 15. Business object attributes

Name	Type	Key	Cardinality
filename	String		
ObjectEventId	String		

Supported verbs

The generic XML_BCTPartnerProfile_CMSPProfile business object supports the Retrieve verb.

Examining the object

To examine a listing of the attributes of the generic XML_BCTPartnerProfile_CMSPProfile business object, use CrossWorlds System Manager or CrossWorlds Business Object Designer.

See also

For more information on related business objects and collaborations, see the following documents:

- “BCT_TPRegFlow Collaboration” on page 3
- “XML_BCTPartnerProfile business object” on page 11

XML_BCTPartnerProfile_DIServiceProfile business object

The generic XML_BCTPartnerProfile_DIServiceProfile business object is used to carry information about a trading partner's EDI setup.

Business object structure

XML_BCTPartnerProfile_DIServiceProfile includes the following attributes:

Table 16. Business object attributes

Name	Type	Key	Cardinality
filename	String		
ObjectEventId	String		

Supported verbs

The generic XML_BCTPartnerProfile_DIServiceProfile business object supports the Retrieve verb.

Examining the object

To examine a listing of the attributes of the generic XML_BCTPartnerProfile_DIServiceProfile business object, use CrossWorlds System Manager or CrossWorlds Business Object Designer.

See also

For more information on related business objects and collaborations, see the following documents:

- “BCT_TPRegFlow Collaboration” on page 3
- “XML_BCTPartnerProfile business object” on page 11

XML_BCTPartnerProfile_CommunicationInformation business object

The generic XML_BCTPartnerProfile_CommunicationInformation business object is used to carry communication information about a trading partner's web services.

Business object structure

XML_BCTPartnerProfile_CommunicationInformation includes the following attributes:

Table 17. Business object attributes

Name	Type	Key	Cardinality
messageType	String		
outboundDirectory	String		
ObjectEventId	String		

Supported verbs

The generic XML_BCTPartnerProfile_CommunicationInformation business object supports the Retrieve verb.

Examining the object

To examine a listing of the attributes of the generic XML_BCTPartnerProfile_CommunicationInformation business object, use CrossWorlds System Manager or CrossWorlds Business Object Designer.

See also

For more information on related business objects and collaborations, see the following documents:

- “BCT_TPRegFlow Collaboration” on page 3
- “XML_BCTPartnerProfile_ServiceInfo business object” on page 21

Connectors

The Registration flow collaboration communicates with the following connectors:

Table 18. BCT_RegistrationFlow collaboration connectors

Registration Flow Connector	Based on CrossWorlds:
External Connector	Server Access Interface
BCT_CMSSOAPConnector	SOAP Connector
BCT_FedSOAPConnector	SOAP Connector

The External connector (Server Access Interface) receives the partner profile generic business object and forwards it to the collaboration. The collaboration forwards the information to the BCT_FedSOAPConnector, which is based on the CrossWorlds SOAP connector. It also passes it to the BCT_CMSSOAPConnector, which interacts directly with the database.

The Server Access Interface and SOAP connectors are described in the CrossWorlds documentation.

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