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IBM WebSphere Partner Gateway V6.1

Partner migration – Problem determination

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Converted to video July 31, 2014

This presentation provides an overview of the migration of the participant profiles to V6.1

Goals and agenda

- Troubleshooting errors

- Important notes about partner migration

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This presentation covers the problem determination and troubleshooting for partner migration. Also covered are some of the important notes you should know about partner migration.

Connectivity error

- Connection Error Message:

```
Unable to connect to the server. The
reasons could be :
1. Wrong host name, port name.
2. Server may not be running
ERROR: User does not have enough
permissions.
```

A connection error is seen if the utility cannot connect to the console instance. When you run the utility, you may get the error message shown in the slide. There are several different reasons that you would get this error. The next couple of slides will walk through the various scenarios and suggest the solution

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Connectivity troubleshooting (1)

- Is console running?

- Is host name/IP correct?

- Check network connectivity (firewalls, ...)

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To troubleshoot the connectivity error, check if the console application is running. The import utility requires the console application to be running. If the console is running, verify that you have provided the right host name or IP address when running the migration tool. Also make sure that there are no network issues. Make sure you can ping the target machine.

Check network connectivity and firewalls. Be sure that the port you are specifying is open on any firewalls you are connecting through. This also applies to software firewall programs installed on your machines.

Connectivity troubleshooting (2)

- Check the port number (default port is 58809)
  - ▶ Go to the WebSphere® Application Server administrative console,
  - ▶ Servers->Application Servers->*yourServer*->Ports
  - ▶ Listed as BOOTSTRAP_ADDRESS

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Another item to check is the port number used to connect. The port is by default 58809, but this can be changed during installation or post install using the administrative console. To check if you are using the right port, log into the WebSphere Application Server administrative console on the system that is hosting the WebSphere Partner Gateway Console component. Navigate to Servers ->Application Servers -> (select your Server) ->Ports. The port number should be listed as the BOOTSTRAP_ADDRESS.

Connectivity troubleshooting (3)

- If you then see the error:
  ERROR: User does not have enough permissions.
  - ‣ username/password authentication failed,
  - ‣ or the user does not have the Migration Module permission activated.

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If you set debug output to level 2, check for the message "Logging in….." in the log files. You will only see this if you have connected to the server successfully. If you see this message then this means port numbers and host names are correct. So the problem is because either the username or password provided are wrong or you do not have the Migration Module permission activated.

Connectivity troubleshooting (4)

- Check username and password
  - ▸ Recommend using hubadmin user
  - ▸ Otherwise, check the Migration Module permission for the specific user you are logging in as

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To fix the permissions error, you should check the username and password that you are using. It is recommend that you use the hubadmin user because this user does not need special permissions to be enabled in order to use the migration utility. If you are using an alternate user, be sure that that user is a member of the Hub Operator company, and that the user has the Migration Module permission enabled, and set to Read and Write.

Migration of maps (1)

- EIF files (EDI Maps) not be exported or imported.
  - ▸ need to be migrated separately.
- EIF Map stubs will appear in the migration file as place holders.

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EDI Maps cannot be exported or imported by the migration utility. They will need to be migrated separately. When you export you will see that EIF map stubs appear in the migration file. These are only place holders, and do not hold the actual map data. The place holders will be exported and imported, but the actual map data will not. This only applies to EDI Maps imported from the DIS Client or .eif files imported using command line tool.

Migration of maps (2)

- Migrating document definitions (Routing Objects) migrates any maps that are associated with document definition.

- If EIF maps are associated, then they must still be moved separately (using command line or EIF wizard), after completing the partner migration.

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When you migrates document definitions (Routing Objects) will also migrate any maps that are associated with any document definition. If EIF maps are associated, then they must be moved separately using command line tool or EIF wizard after completing the partner migration. Although the debug messages say that existing maps will not be overwritten, this only applies to maps which are not linked to any document definition. If you migrate RoutingObejcts, in overwrite mode, your maps will be overwritten.

Migration by object names

- Objects are migrated based on the object name

- Example:
  - If a Receiver named "myReceiver" exists in the target system (the importing system), and exists in the import xml file, then this receiver will be overwritten (assuming the overwrite option is specified).

Objects are migrated based on the object name. Objects with matching names will be overwritten if the overwrite option is given. For example if you have a receiver named myReceiver in your WebSphere Partner Gateway instance and the import file also has a receiver called myReceiver, when you import the file into WebSphere Partner Gateway the existing myReceiver in the system will be replaced by the myReceiver in the import file if overwrite option is specified.

Object overwrites

- Objects of the same kind but different type will not be overwritten even they have the same name.
  - An Internal Partner cannot become an External Partner even if the names are the same

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Exceptions will be thrown if an object is attempted to be overwritten by another object of a different type. For example an existing JMS receiver cannot be overwritten by an Http receiver with the same name or an Internal Partner cannot become an External Partner

Modifying objects

- In general, if it cannot be modified in the console, the migration utility cannot modify it either.
  - ▸ Example: You cannot change a partner's login name.
- Only one internal partner is allowed in the system

In general, if it cannot be modified using the community console, the migration utility cannot modify it either. For example you cannot change a partner's login name. Only one Internal Partner is allowed to exist in the system. If you try to import an import file containing another internal partner, you will get an exception. If you want the internal partner in the import file to be imported, then you need to change the existing internal partner in the system to external partner.

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Exception recovery

- When an exception occurs during import or export, the utility will attempt to continue, but any dependent objects will be skipped.
  - ▸ For example, If a partner cannot be created and does not already exist, the partner's connections cannot be created.

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When an exception occurs during import or export, the utility will attempt to continue, but import or export of any of the dependent objects will be skipped. For example if a partner cannot be created and does not already exist, the partner's connections cannot be created.

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User exits

- User exit definitions will be migrated

- User exit classes and jar files are not migrated.
  They must be moved manually (on the file system)

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User exit definitions can be exported or imported. This means that you do not need to re-import the user exit xml file through the console since you can export them as part of the configuration and import them to the new system. However, user exit classes and jar files are not migrated. They must be moved manually on the file system.

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File receivers

- When importing a file directory receiver
  - Target system cannot have the directory used for file receiver already created on the file system

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When importing a file directory receiver, if the directory used for the receiver already exists on the target system, an error will be thrown, and the receiver will not be created in WebSphere Partner Gateway.

Before importing, make sure that file directory receivers that you are importing do not already exist on the file system

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Migration XML

- When exporting objects which contain special characters (&<>@) as part of their name or description, the special characters will be converted to "BCGMIGRATION_CHAR_xx" in the xml.

- Example:
  - *L&Z converts to LBCGMIGRATION_CHAR_38Z*

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When exporting objects which contain special characters as part of their name or description, the special characters will be converted to "BCGMIGRATION_CHAR_xx" in the xml. xx is the ASCII code representing the special character. This is so that the xml parser will work correctly. The special characters will be restored correctly upon import.

In the example shown, the ampersand was replaced by the text: *BCGMIGRATION_CHAR_38.*

This text will be seen in the actual migration xml, but the entry will be restored to L&Z when it is imported.

This slide lists the best practices when using a custom xml file to import. If you write your own custom xml file to import, you should take a database backup before importing. Most imported data is not validated, and importing invalid data can cause problems in WebSphere Partner Gateway. Other than using database backup created before import, there is no easy way to restore to the configuration before import in case the import results in corrupting the data. When using the migration tool for exporting the partner configuration, the tool will not warn you if you are overwriting an existing export file. It will overwrite an existing file without warning.

Temp space location (1)

- When you import or export, system temp is used to hold the temporary files
  - {*system temp*}/bcgMigrationUtilTemp/
- bcgMigrationUtilTemp directory will be created (and deleted) by the utility

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Temp Space Location

When you import or export, the program zips and unzips files to bcgMigrationUtilTemp directory in the system temp. You can verify this on your specific machine by running the migration utility with debug level 4, then check the migration output log. The bcgMigrationUtilTemp directory will be created (and deleted) by the utility. *{system_temp}* must be large enough to hold all migrating objects - such as maps, document definition zip file, and the migration xml file.

Terminology in XML files

- In the generated xml, some of the xml tags are based on old terminology.

- Here is a brief conversion table:

XML Tag	WebSphere Partner Gateway V6.1 term
DestinationType (DestType)	Operation Mode
Workflow	Action
RoutingObject (RO)	Document Definition
Gateway	Destination
ChannelInfo	Connection

In the xml files used for migration, some of the xml tags are based on old terminology used in V6.0. This slide lists the table that you can use to map some of the terms in V6.0 to V6.1. For example gateways in V6.0 are Destinations in V6.1. Targets are Receivers in V6.1

The next section provides summary and references.

Summary

- Troubleshooting migration of configuration data from one system to another

- This can be very helpful when moving from test to production environments

In summary, the new stand-alone WebSphere Partner Gateway V6.1 partner migration utility provides the important function of migrating configuration data from one WebSphere Partner Gateway V6.1 system to another system. You need to understand what configuration data is supported and what is not supported, as covered in this presentation. This can help move the configuration from test to production environment quickly. The presentation covered some of the common problems encountered during migration.

References

- WebSphere Partner Gateway V6.1 Administrator Guide

- WebSphere Partner Gateway V6.1 Programmer Guide

- XSDs in <Partner Migration Root>/schemas

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Listed on this page are references. The Information center's Administration guide provide more details on the use of the Partner migration command. The Programmer guide provides the details on how to call export and import from a Java program. The XSD schemas for the export file is included in the partner migration utility install directory.

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