



IBM Software Group

IBM WebSphere Partner Gateway 6.2

Smart migration



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This presentation will discuss the smart migration feature. This is introduced as a part of WebSphere Partner Gateway 6.2

Agenda

- Overview of smart migration
- Features supported
- Topology based migration steps
- Troubleshooting



This presentation will provide an understanding of the features of smart migration.

Section

Overview of smart migration



You now will look at the overview of smart migration.

Overview of smart migration

- What is smart migration
 - ▶ Smart migration helps you to migrate from previous supported versions of WebSphere Partner Gateway to the latest 6.2
 - How one can make use of smart migration
 - ▶ By invoking WebSphere Partner Gateway 6.2 installer, you will have see create new instance or migrate options under the installer panel
 - ▶ Once you select the migrate option, installer will guide you through migration to version 6.2
- NOTE:** the options are displayed in installer panel only if your previous is a supported version of WebSphere Partner Gateway



Smart migration helps you to migrate from previous supported versions of WebSphere Partner Gateway to the latest version of 6.2. This slide also provides information on how to make use of smart migration.

Overview of smart migration

- What is expected from user before starting smart migration
 - ▶ User has to take database backup (refer to installation guide for more information)
 - ▶ User has to upgrade WebSphere application server environment as mentioned in system requirements
 - ▶ There should not be any document in process state while starting migration
 - ▶ In distributed mode, it is recommended to stop all clusters/servers before starting migration except for deployment manager and node agent
 - ▶ Planning downtime depends upon the data present in the database. (Refer to Technote ...)

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Smart migration

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Here, you will see the preparatory information before starting the migration activity.

It is highly recommended to take a database backup manually.

You have to upgrade the WebSphere Application Server fix pack levels as specified in the system requirements.

Ensure that there is no document in process before starting migration.

You have to be aware that during the migration period, the system is not able to serve any request, so downtime must be planned before starting the migration.

Section

Features supported



In the subsequent slide, you will look at the features supported by smart migration.

Features

- Database migration is supported
- Hub migration with auto-restore option is supported
- Installer will automatically restore the hub with previous version in case of any failure during hub migration
- Auto restore option is not supported for users migrating from WebSphere Partner Gateway 6.0
- You are expected to perform manual database restoration in case of any migration failure
- Co-existence of different version of WebSphere Partner Gateway is recommended only for test mode, and not for production mode. Refer to installation guide for more information



Smart migration supports database migration from all supported versions of WebSphere Partner Gateway.

Smart migration supports hub migration with auto restore facility. This feature is from WebSphere Partner Gateway versions 6.1 and up.

Smart migration also allows you to have two different versions of WebSphere Partner Gateway under a single machine. At any point of time, you cannot run two instances of WebSphere Partner Gateway. Refer to the installation guide for more information in this regard.

Section

Topology based migration steps

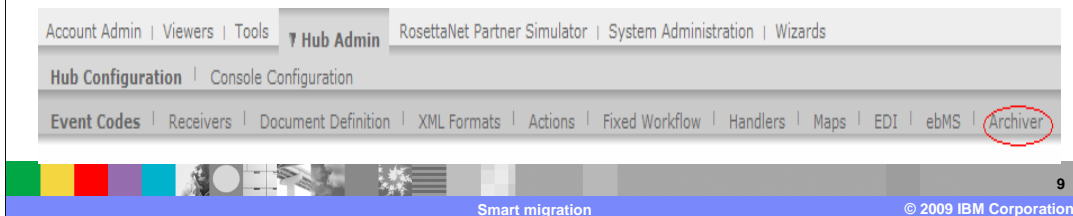


The next slide will discuss the migration steps to be followed for every topology.

Topology based migration steps

■ Steps recommended for simple mode

- ▶ Stop server
- ▶ Migrate database
- ▶ Migrate hub
- ▶ Start the server
- ▶ Login to WebSphere Partner Gateway console (cross-check version displayed in login page)
- ▶ Ensure you are able to see the new feature archiver tab as shown below under Hubadmin tab

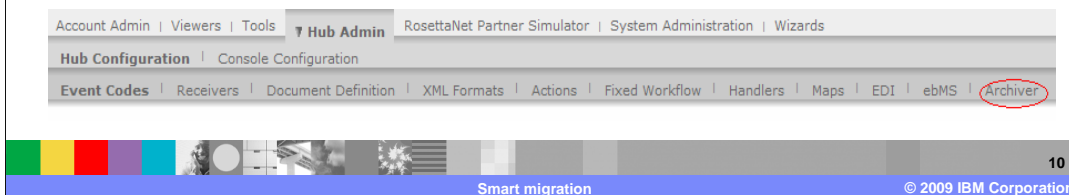


Here are detailed steps for simple mode migration. It is recommended to stop the server before starting migration.

Migrate the WebSphere Partner Gateway database first and then migrate hub. After migration, start the server, login to WebSphere Partner Gateway console, cross check the version displayed, and check the existence of new features of 6.2.

Topology based migration steps

- Steps recommended for simple distributed mode
 - ▶ Stop clusters
 - ▶ Migrate database
 - ▶ Migrate hub over every machine
 - ▶ Start the server
 - ▶ Login to WebSphere Partner Gateway console (cross-check version displayed in login page)
 - ▶ Ensure you are able to see the new feature archiver tab as like below under Hubadmin tab



Here are detailed steps for migration in simple distributed mode.

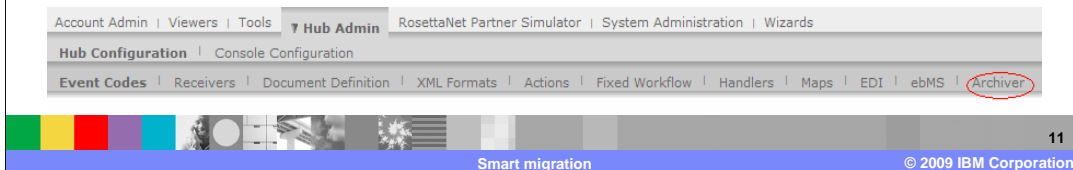
It is recommended to stop the clusters before starting migration.

Migrate the WebSphere Partner Gateway database first and then migrate hub components.

After migration, start the clusters, login to WebSphere Partner Gateway console, cross check the version displayed, and check for existence of new features of 6.2.

Topology based migration steps

- Steps recommended for fully distributed mode
 - ▶ Stop clusters
 - ▶ Migrate database
 - ▶ Migrate hub over every machine
 - ▶ Start the server
 - ▶ Login to WebSphere Partner Gateway console (cross-check version displayed in login page)
 - ▶ Ensure you are able to see the new feature archiver tab as like below under Hubadmin tab



Here are detailed steps for migration of fully distributed mode.

It is recommended to stop the clusters before starting migration.

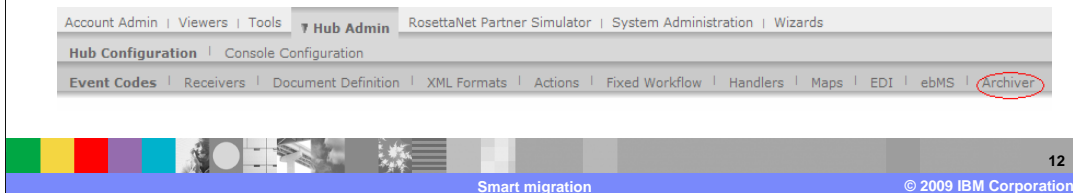
Migrate the WebSphere Partner Gateway database first and then migrate hub components.

After migration, start the clusters, login to Web Sphere Partner Gateway console, cross check the version displayed, and check for existence of new features of 6.2.

Topology based migration steps

Steps recommended for WebSphere Partner Gateway 6.0

- ▶ Stop servers
- ▶ Migrate database
- ▶ Before starting hub migration plan your topology and create deployment manager and messaging application server database in case planning for distributed topologies
- ▶ Migrate hub over every machine. (In case components are spread across machines)
- ▶ Start the server
- ▶ Login to WebSphere Partner Gateway console (cross-check version displayed in login page)
- ▶ Ensure you are able to see the new feature archiver tab as like below under Hubadmin tab



Here steps are detailed out for migration of WebSphere Partner Gateway from version 6.0.

It is recommended to stop the servers before starting migration.

Plan the required topology. Refer to WebSphere Partner Gateway documents for more information on features and various supported topologies.

Migrate the WebSphere Partner Gateway database.

Install deployment manager and messaging application server database in case the selected topology is distributed.

While migrating hub components, installer will internally guide you to uninstall the older version and install the new WebSphere Partner Gateway 6.2.

After migration, start the clusters and server, login to WebSphere Partner Gateway console, cross check the version displayed, and check for existence of new features of 6.2.

Section

Troubleshooting



The next section will discuss a few tips and tricks, which helps smart migration activity.

Troubleshooting

- What to do if hub migration fails
 - ▶ Hub migration failure is guided with automatic restore option to ensure that your previous working version is in place. In addition, manually restore database backup
- In case of multi-machine setup is it required to start migration installer in all machines
 - ▶ Yes, though the application is shared, migration installer is expected to run on all machines. There are few elements specific to machines, such as core files and WebSphere Partner Gateway version management



This slide will discuss troubleshooting.

During migration if deployment manager goes down or network breaks out, then migration can fail. In such a case, smart migration will guide you to restore the previous version of WebSphere Partner Gateway. Ensure, before you start the restoration operation, that your N/W is stable and deployment manager is available. Once hub is restored, either go for hub migration from the beginning or restore the database manually from the backup to continue operation.

You have to run smart migration for every instance of WebSphere Partner Gateway across all machines to make sure all other necessary objects are updated.

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