



IBM Software Group

## IBM WebSphere® Partner Gateway V6.1.1

### *Archiving performance improvement*



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This presentation covers the new Archiving Performance Improvement feature added in WebSphere Partner Gateway V6.1.1 release.

## Goals

- Overview of archiving and purging
- Behavior in V6.1.0
- What is new or changed in WebSphere Partner Gateway V6.1.1



At the end of this session, you will have a clear understanding on archiving and purging of transactional data from the system.

## Agenda

- Archiving of non-repudiation data store
- Deleting files or data from common folders
- New features in V6.1.1
- Summary and references



This presentation details the process of archiving non-repudiation data store, along with an overview of the deleting files and data from common folder. The new features in V6.1.1 release will also be discussed. This session will end with a summary and references will be provided to help you better understand this feature.

## Section

# *Overview*



This section provides an overview of the archiving function.

## Archiving and purging - Overview

- Non-repudiation data
  - ▶ Messages can be copied to a backup device
  - ▶ Purged from the common file store
  - ▶ Related data from the database table can be archived
- Common file system
  - ▶ Delete (purge) files from message store
  - ▶ Delete the intermediate files from other common folders



WebSphere Partner Gateway stores messages and related information in the common file system, and database. Depending on the configuration settings, the messages might be stored in the Non-repudiation message store and gateway folders. The related metadata is stored in the message archive tables in the database.

Archiving of messages involves copying the data from Non-repudiation data store to a backup location, and backing up the metadata from the database.

## Archiving and purging - Overview (continued)

- Database maintenance
  - ▶ Delete data from activity logging tables
  - ▶ Delete data from state engine tables
  - ▶ Delete data from summary tables
  - ▶ Delete data from message archive tables



The data can be purged by deleting the files from the file system, and deleting the rows from the related tables in the database.

## Section

# *Archiving features in V6.1.0*



This section provides an overview of the archiving functionality in WebSphere Partner Gateway V6.1 and earlier, and some of the issues with that implementation.

## Archiving and purging in V6.1 and before

- Shell script interface
  - ▶ Single threaded
  - ▶ Sequential
  - ▶ Multiple steps
  - ▶ Less than adequate performance for high volume data



WebSphere Partner Gateway V6.1 and earlier versions provide a command line interface to perform the steps required for Archiving and Purging of data. To accomplish the task, the administrator needs to invoke a set of batch scripts one after the other. Purging of files from the common file system requires three steps, and another four steps to delete the data from the database tables. The performance of these has not been adequate where the volumes of data are high.



## Section

### ***New archiving features in V6.1.1***



This section covers the overview on the new features in the archiving functionality in WebSphere Partner Gateway V6.1.1.

## What is new in V6.1.1

- Multiple threads to copy or delete files from common file system
- Option to delete from file system AND purge data from database tables in a single script
- Use intermediate work-tables to delete data from tables
- Option to use table-partitions in the table for storing non-repudiation data



WebSphere Partner Gateway V6.1.1 features include an improved set of archive and purge functions. It uses a configurable number of threads to copy or delete the files. It now allows you to purge files and delete data from the database by invoking a single script. Hence, you can cleanup the file system and related data from the database by specifying a cutoff date, and to invoke this as a scheduled task.

In order to improve the concurrency and performance, a new set of work tables are used to store the intermediate data for purging. You can re-create the message archive with the "TABLE PARTITIONING" option. This option requires additional tasks to be performed for the database maintenance, and allows you to remove partitions instead of deleting individual rows from the table.

## Section

# *Summary*



Here is the summary of the archiving feature.

## Summary

- Several new archiving features are provided in V6.1.1
  - ▶ Multi-threaded
  - ▶ Better performance
  - ▶ Single script for delete and purge
  - ▶ Table partitioning



To re-cap the new features, WebSphere Partner Gateway V6.1.1 provides configurable number of threads to copy or delete the files. You can also delete and purge files using a single script. This version of the product is enhanced to provide better performance, and good table partitioning options.

To understand the functionality better, refer to the Administration and Installation guides in the product Information Center.

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