



IBM Software Group

# IBM® WebSphere® Extended Deployment V6.1

## ***WebSphere Virtual Enterprise***

*Formerly Operations Optimization*

## ***Extended repository service***



@business on demand.

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WebSphere Extended Deployment V6.1, Extended Repository Service

This module was originally recorded for WebSphere Extended Deployment Operations Optimization, which is now called WebSphere Virtual Enterprise. Though the module uses the previous names, the technical material covered is still accurate.

## Agenda

- Extended repository service overview



This presentation will cover an overview of the extended repository service in WebSphere Extended Deployment V6.1.

## Repository checkpoints

- Repository checkpoints give you enhanced control over the configuration repository
- A full checkpoint is a snapshot of the repository
  - ▶ Restoring from a full checkpoint returns to the configuration state from the time the snapshot was taken
- A delta checkpoint records the most recent change to your configuration
  - ▶ Delta checkpoints can be rolled back individually, in order
  - ▶ Can be created automatically when changes are made



The extended repository service enables enhanced restore functionality, so you can better manage your WebSphere Extended Deployment configuration.

WebSphere Extended Deployment version 6.1 provides two types of repository checkpoints. First, at any time you can back up a complete copy of all WebSphere configuration files. This 'full checkpoint' can be used to restore your configuration to that state should future configuration changes cause operational problems. You can also configure WebSphere Extended Deployment to create a 'delta checkpoint' each time a configuration change is made. Delta checkpoints contain a record of configuration objects that were changed during the last save action. Delta checkpoints can be restored in the reverse order of their creation to achieve a multilevel undo capability, much like clicking ctrl-z in a word processor.

## Configuring extended repository service

- *System Administration* → *Extended Repository Service*
- Enable automatic repository checkpoints
  - ▶ will create a delta checkpoint every time a configuration Save takes place

The screenshot shows a configuration window titled "Extended Repository Service". It contains a text area with an introduction to the service, followed by a "Configuration" section. This section is divided into "General Properties" and "Additional Properties". Under "General Properties", there are three fields: "Repository location" (C:\WebSphere\AppServer\profiles\Dmgr01\config), "Repository Checkpoint location" (a variable path), and "Automatic checkpoint depth" (set to 5). There is also an unchecked checkbox for "Enable automatic repository checkpoints". The "Additional Properties" section has a sub-section for "Repository Checkpoints". At the bottom are "Apply", "OK", "Reset", and "Cancel" buttons.

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Extended repository service

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Checkpoint maintenance is available from the administrative console by selecting “Extended Repository Service”, which can be found under the “System Administration” menu. On this panel you configure where checkpoint information is stored, and how many automatic checkpoints to maintain.

## Managing repository checkpoints

- System Administration → Extended Repository Service
  - Repository Checkpoints
- Checkpoints can be created, deleted, and restored

Select	Name	Documents	Type	Sequence	Description
<input type="checkbox"/>	<a href="#">Delta-1178478519997</a>	1	DELTA	1178478519997	Autosave delta image
<input type="checkbox"/>	<a href="#">Delta-1178478660779</a>	23	DELTA	1178478660779	Autosave delta image
<input type="checkbox"/>	<a href="#">Delta-1178478667409</a>	1	DELTA	1178478667409	Autosave delta image
<input type="checkbox"/>	<a href="#">Initial configuration</a>	167	FULL	1178478486068	Config before performing labs
Total 4					



Selecting “Repository Checkpoints” from the previous panel allows you to restore or delete full or delta checkpoints, and create full checkpoints. A full checkpoint includes the current set of delta checkpoints.

## Summary

- The extended repository service gives you greater control over the configuration repository
  - ▶ Revert to a saved configuration snapshot
  - ▶ Roll back individual configuration changes



In summary, WebSphere Extended Deployment allows you save snapshots, or 'checkpoints', of your configuration repository, giving you the ability to return to that state at a later time. You can also configure WebSphere Extended Deployment to automatically create delta checkpoints each time you save changes to your configuration. You can then roll back these changes in reverse order, similar to an "undo" feature, which allows for more agile configuration restoration.

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