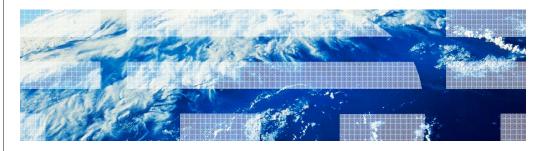
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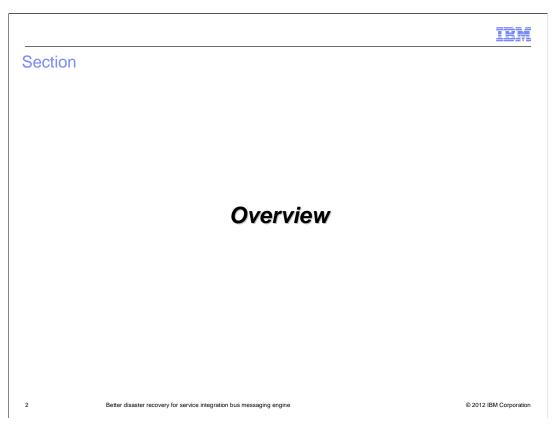
IBM WebSphere Application Server V8.5

Better disaster recovery for service integration bus messaging engine



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This presentation describes support for "Better disaster recovery for Service Integration Bus Messaging Engine" included in IBM WebSphere® Application Server V8.5



Better disaster recovery for Service Integration Bus Messaging Engine feature will enable users to recover the lost configuration of messaging engine and configuration of its queue and topic destinations from the message store. The service integration bus messaging engine connects to a message store to store persistent messages. The following are the two types of message store: the database system and the file system.

IRM

Background

- Service integration bus messaging engine can be configured to use either Database or FileStore as its persistence store. Each of the messaging engine in service integration bus has a unique messaging engine UUID.
- This messaging engine UUID is burnt into the persistence layer such that no other messaging engine can use this persistence layer.
- In the event of an messaging engine failing to restart (because the server instance or messaging engine is corrupted or some reason unavailable) the persistence layer becomes inaccessible.
- No other messaging engine can access this persistence layer, since the messaging engine UUID is burnt into the persistence layer.
- All the messages held in the persistence layer remains locked and not reachable.

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When a server or a cluster is added as a new service integration bus member, service integration bus creates a new messaging engine with a unique UUID for it in the configuration. On messaging engine start, it burns this UUID in the message store, such that only the same messaging engine can use it. If the messaging engine fails or it gets corrupted and its configuration is lost, then the persistent messages in the message store to which it was connected to cannot be recovered. The reason for inability to recover persistent messages is that the service integration bus creates a new messaging engine UUID in its configuration when it tries to add new bus member. The new UUID does not match with the UUID of the previous messaging engine stored in the message store and so it is unable to process the persistent messages.

IEM

What is better disaster recovery for service integration bus messaging engine?

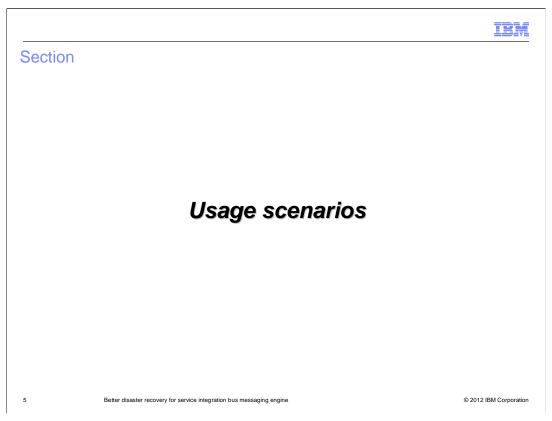
- The new feature provides disaster recovery of the service integration bus messaging engine such that the recovered messaging engine takes over the corrupted messaging engine and connects to the persistence layer that the corrupted messaging engine was using before.
- The user can start the recovered messaging engine and can process the persistent messages in queue and topic destinations of the messaging engine message store.

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The feature provides new WSADMIN command "recoverMEConfig", which connects to the message store to which the previously corrupted messaging engine was using and then recovers the UUID of the previous messaging engine. It also recovers the UUID of the queue and topic destinations of the previous messaging engine and default values for all other configuration properties.

After the WSADMIN command completes, you can start and run the new messaging engine to process the persistent messages of the locked messaging engine.



The following slide describes an usage scenario.

IEM

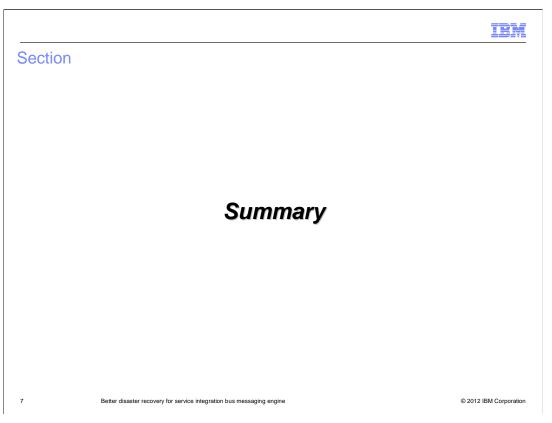
You want to configure a new messaging engine in the service integration bus to take over a corrupted messaging engine and connect to the persistence layer

- You recover the failed or corrupted messaging engine configuration by running the new WSADMIN command *recoverMEConfig* .
- recoverMEConfig command recovers the messaging engine configuration at server level and cluster level.
- User uses this command if the backup of the configuration data of the failed or locked messaging engine is not available.

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This command recovers the UUID of the messaging engine and UUID of messaging engine queues and topics from the message store. Default values are recovered for the other configuration properties. It can recover the messaging engine configuration for server bus member and for cluster bus member.



In summary ..

IRM

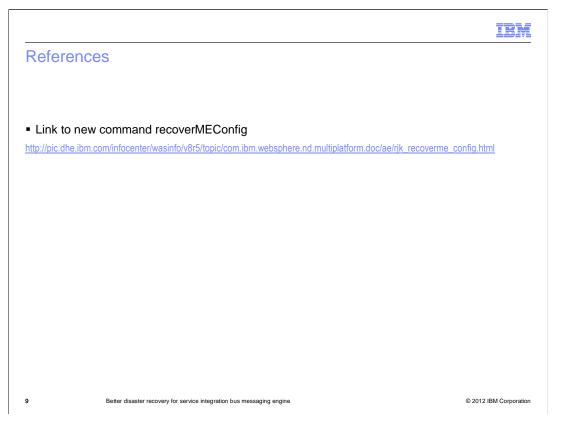
Summary

- New WSADMIN command recoverMEConfig provides better disaster recovery of failed or corrupted messaging engine configuration.
- The command recovers the messaging engine configuration at the server or at the cluster level.
- It connects to the service integration bus messaging engine message store and recovers the messaging engine UUID and UUID of messaging engine queue and topic destinations.
- The user can then start and run the messaging engine to process the persistent messages

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The persistent messages in service integration bus messaging engine message store cannot be recovered if the configuration of the messaging engine is lost. To recover these messages the new WSADMIN command "recoverMEConfig" is provided. The command recovers the lost messaging engine configuration which was previously defined at server or at cluster level. The command starts by connecting to the message store, reading the stored messaging engine UUID and UUID of its destinations. The command completes by creating the lost messaging engine configuration. When you start the messaging engine, the persistent messages are recovered and can be processed further.



See these references for additional information about disaster recovery of systems integration bus messaging engine configuration.

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