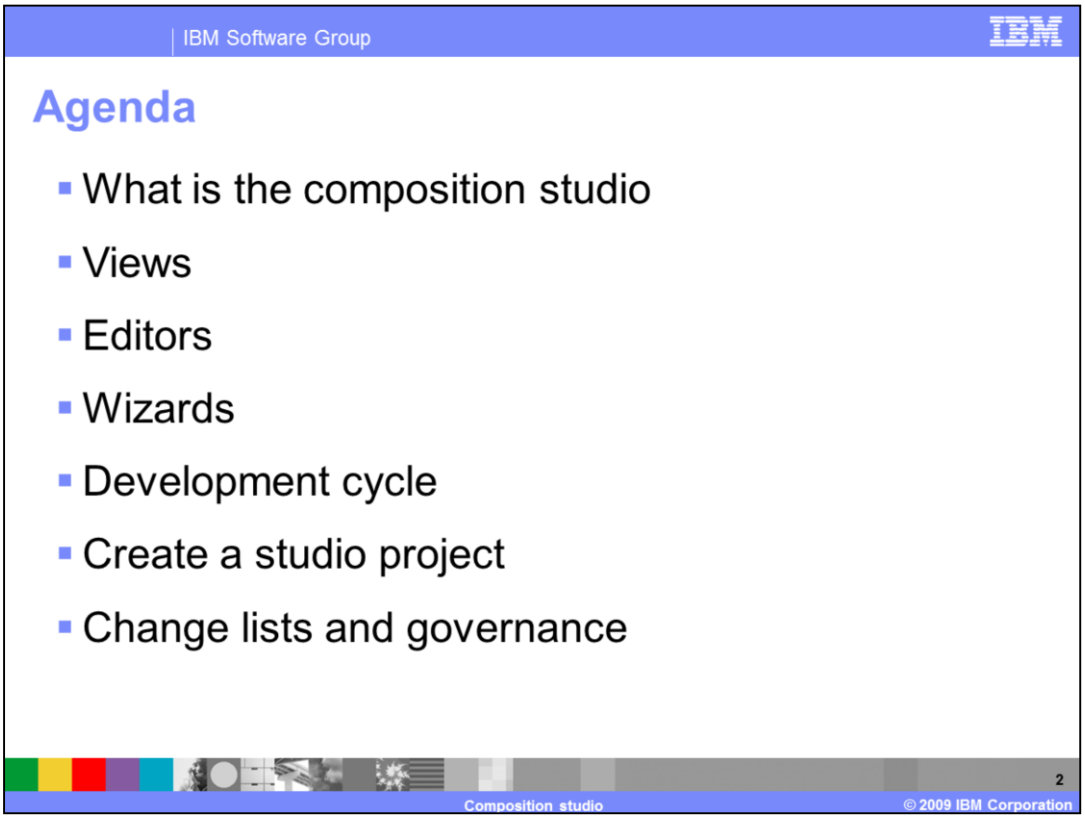
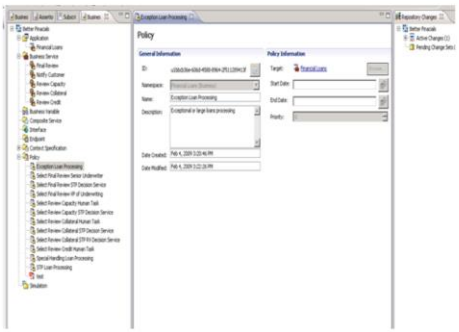
This presentation provides details about the composition studio.

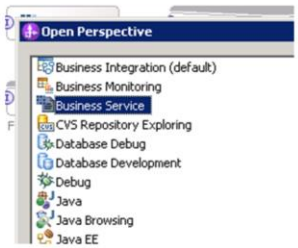


This presentation will first cover what the composition studio is. Next it will provide details about the composition studio explaining the available views, editors and wizards. Then it will describe a typical development cycle using the WebSphere® Business Services Fabric version 6.2. Next there will be instructions on how to create a fabric project in business service perspective. The last topic covered is submitting and changes to governance manager.

Composition studio

- Web Sphere Integration Developer based authoring tool
- Provides a platform to develop business services metadata and business services policies
- Provides tools to simulate and test business service policies
- User friendly tools that require limited to no coding or code generation.
- Composition studio installation provides a business service perspective in WebSphere Integration Developer





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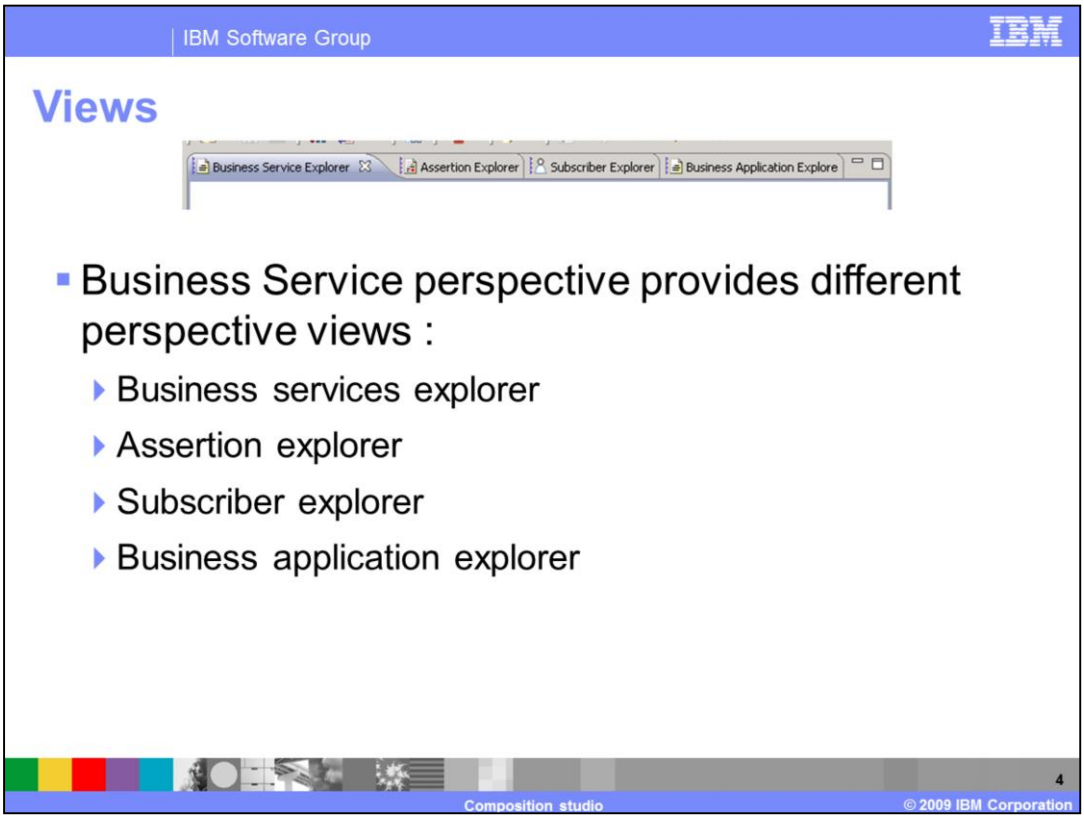
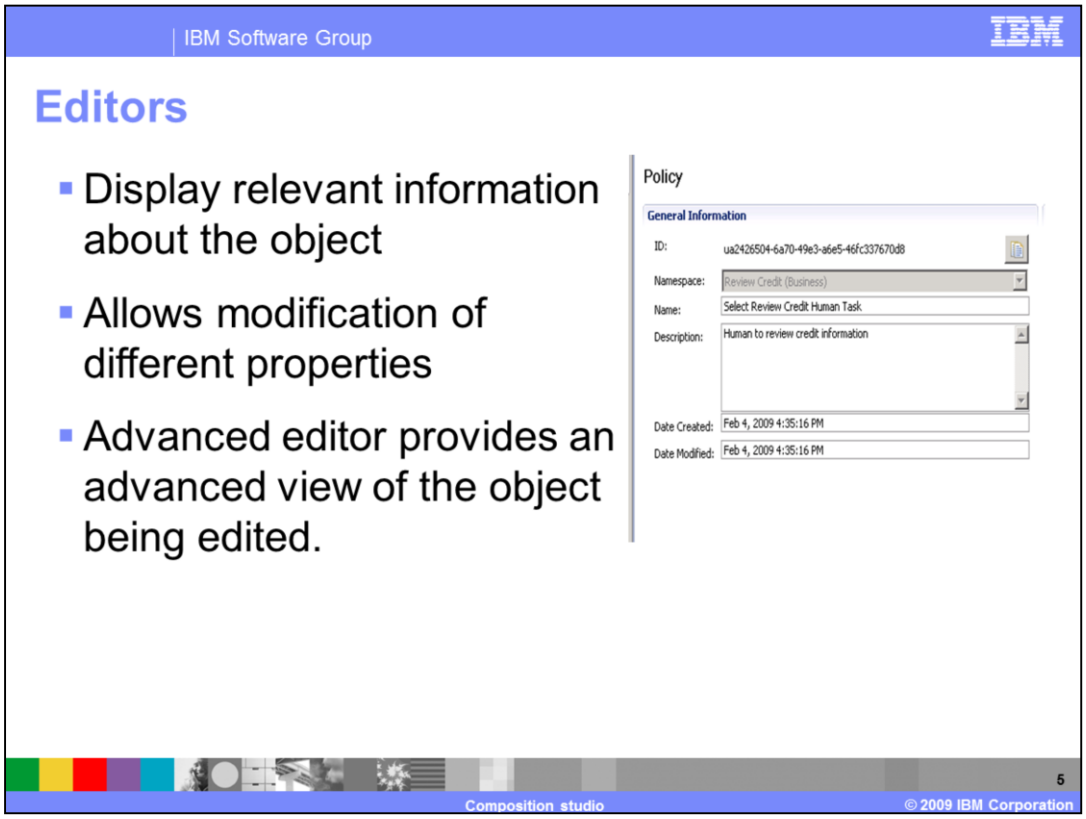
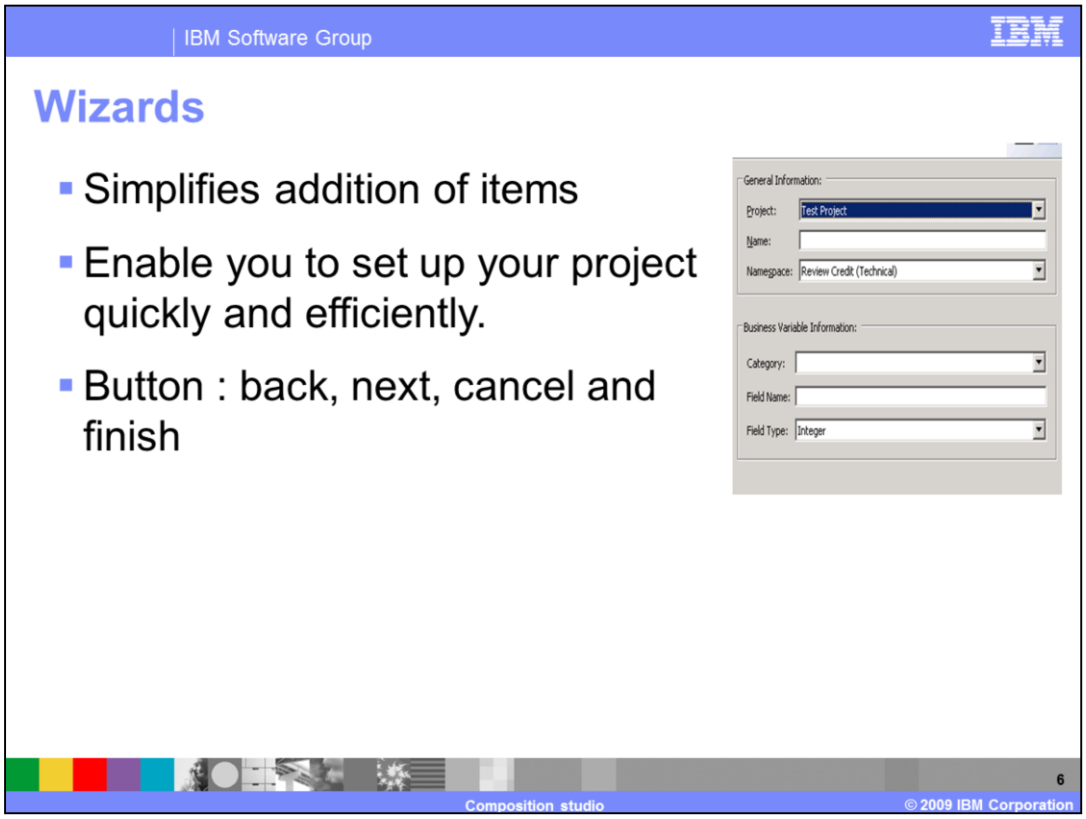
The composition studio is a WebSphere Integration Developer-based authoring tool. Business analysts and integration developers use composition studio to model and publish business service models, interfaces, policies, and service portfolios into service oriented business processes and composite business applications. The tools provided by composition studio also provide the ability to simulate and test business policies. These tools are user friendly and require limited to no coding or code generation. Therefore they allow for simpler change management and do not require extensive coding skills to use. It is installed in Web Sphere Integration Developer as a set of plug-ins and adds a new perspective called business services. IT provides views, editors, and wizards for browsing, editing, and testing models in business services repository. The next few slides will provide more details around views, editors and wizards.



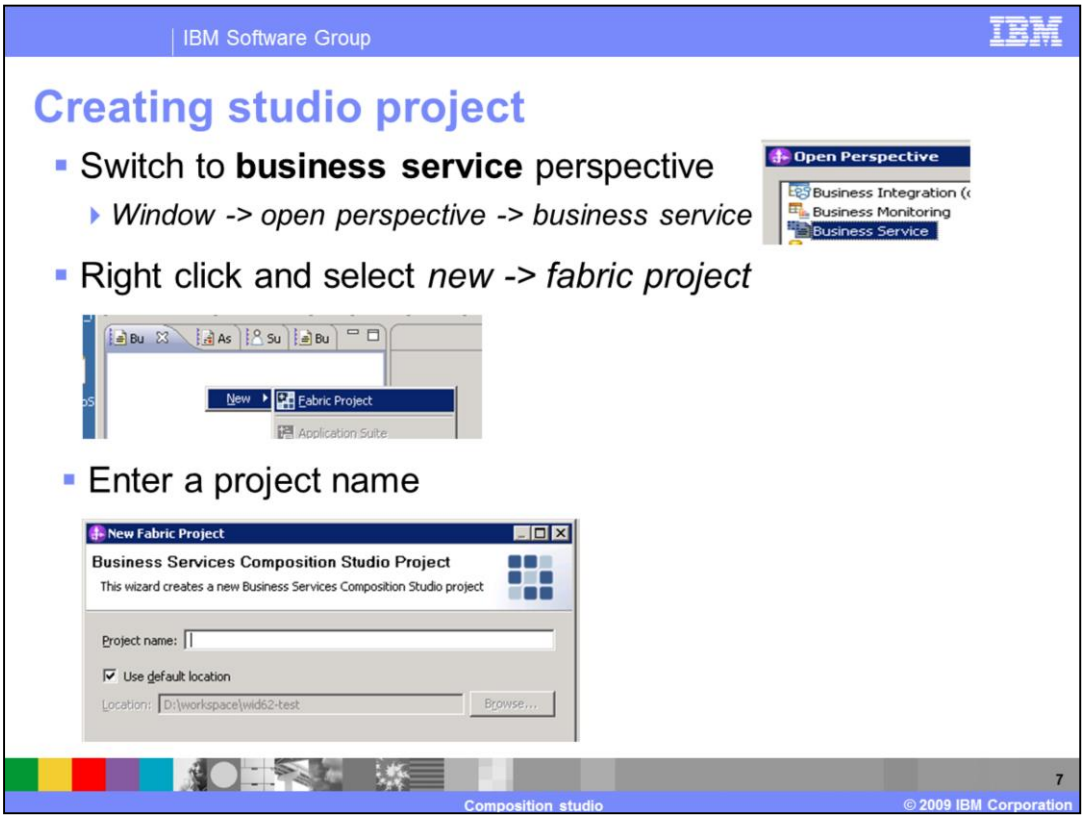
The business service perspective provides four views that display different assets from the business service repository. The first view is the business services explorer. This view displays all the business services associated with the current project. The second view is the assertion explorer. This displays all the different assertion types available. The third view is the subscriber explorer, this displays information about the subscribers, roles and organizations. The last view is the business application explorer that provides information about the applications, business services, business variables, composite services, interfaces, endpoints, context specifications, policies and simulations.



Next you look at editors. All objects in the business services repository that need to be edited have a corresponding editor. The editors provide all relevant information about the objects. Editors allow you to modify different properties of the object. For example, you can add or remove assertions from a policy or add new endpoints to an interface. The advanced editor provides an advanced view of the object being edited.



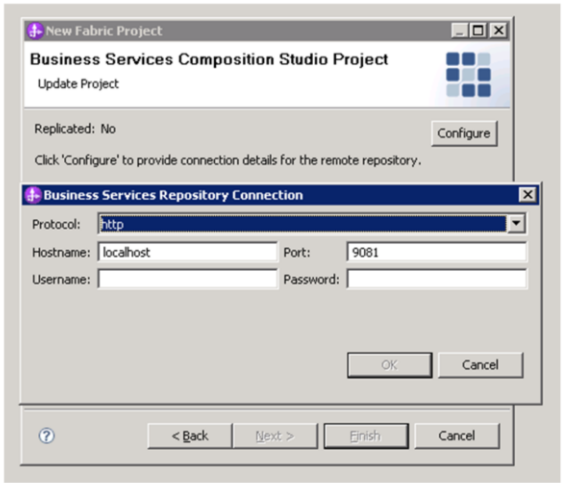
Wizards enable you to set up your project quickly and efficiently. They provide simple to use user interface to add assets to the project. The wizards menu contains the back, next, cancel and finish buttons. The back button takes you to the previous page in the wizard. This is inactive on the first page of the wizard. The next button takes you to the next page of the wizard. The next button is inactive on the last page of the wizard. Clicking the cancel button closes the wizard. Also, the system returns to the same state it was in, before the wizard having been invoked. For example, if any change was made to the system state, it is undone when cancel is clicked. This button ends the wizard, creates the instance of the object, and then opens the object instance's editor.



You will now walkthrough the steps on how to create a project. In order to get started, to develop or to manage a fabric project, it needs to be defined in the business service repository using the Web tools with its associated namespaces and owning organization. Once this has been defined in the business services repository these assets can be worked upon in the composition studio. In the WebSphere Integration Developer, first switch to the Business Service perspective, then right click and select ‘new fabric project’. This will open the new fabric project. Enter a project name and click next.

Creating studio project (continued)

- Enter business repository connection details



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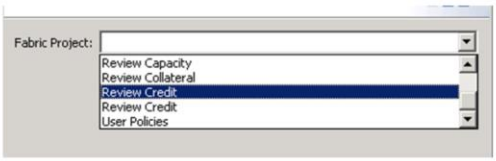
In this screen, add the business service master repository connection details that you need to replicate against. Click ok and then click next.

Creating studio project (continued)

- Wait till the local repository replicates against the master repository



- Select the project that needs to be worked on
- Click finish

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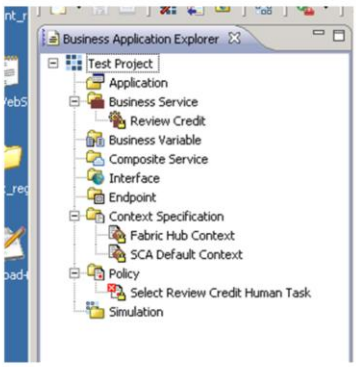
You will need to wait a few minutes until the local repository replicates against the master repository. All changes that are made are stored in the local repository and need to be submitted for governance approval to be added to the master repository. Once the assets have been replicated to the local repository, select the fabric project that needs to be worked on and click finish.

Creating studio project (continued)

- Assets are viewable in the business application explorer
- The project has been created



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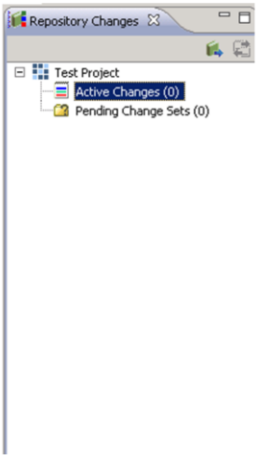
On clicking finish, you will see the assets displayed in the business application explorer. These assets include the applications, business services, business variables, composite services, interfaces, endpoints, context specifications, policies and simulations. You can now begin working on the fabric project as needed.

Change list

- What is a Change list
  - A number of related metadata changes form a cohesive unit called a change list
  - A change list can be active or pending :
    - Active change list: refers to all changes that are made to any object including changes that might have validation errors
    - Pending change list: A change list is said to be pending when it is queued in the governance process



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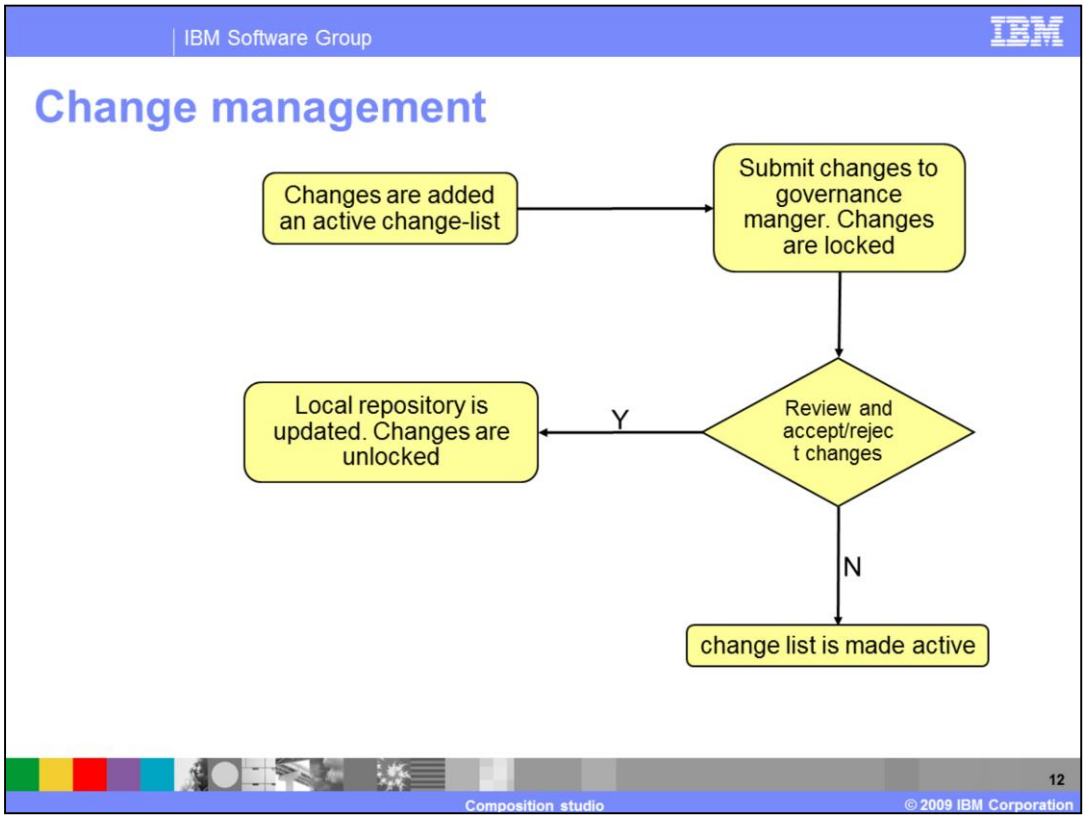
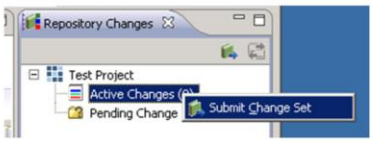
Next you will cover change lists and change management. A change list is several related metadata changes from a cohesive unit. The change list contains all the changes made in composition studio to the assets of a project. For example adding a new endpoint, adding a new interface or deleting a policy. change list can be active or pending. Active change list refers to all changes that are made to any object including changes that might have validation errors. Pending change list is said to be pending when it is queued in the governance process.



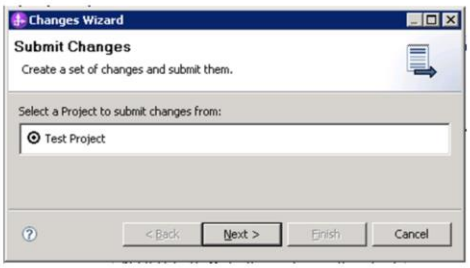
The last topic covered in this presentation is Governance. All changes made are added to an active change list. A change list is then submitted to the governance manager for review. All the changes in the change list are locked until they have been approved or rejected. A governance administrator then reviews the changes and approves or rejects the changes as needed. The developer has the option to update and check status of the change list. The governance administrators decision is sent to local repository when the local repository updates against the master repository. If the change list is approved the local repository is updated. The changes in the change list are unlocked. If the changes are rejected the change list is made active. The developer can now choose to change or remove changes as needed.

Submit active change list

- Invoke submit change list wizard
  - Right click active changes
  - Click



- Submit wizard
  - Select project and click Next



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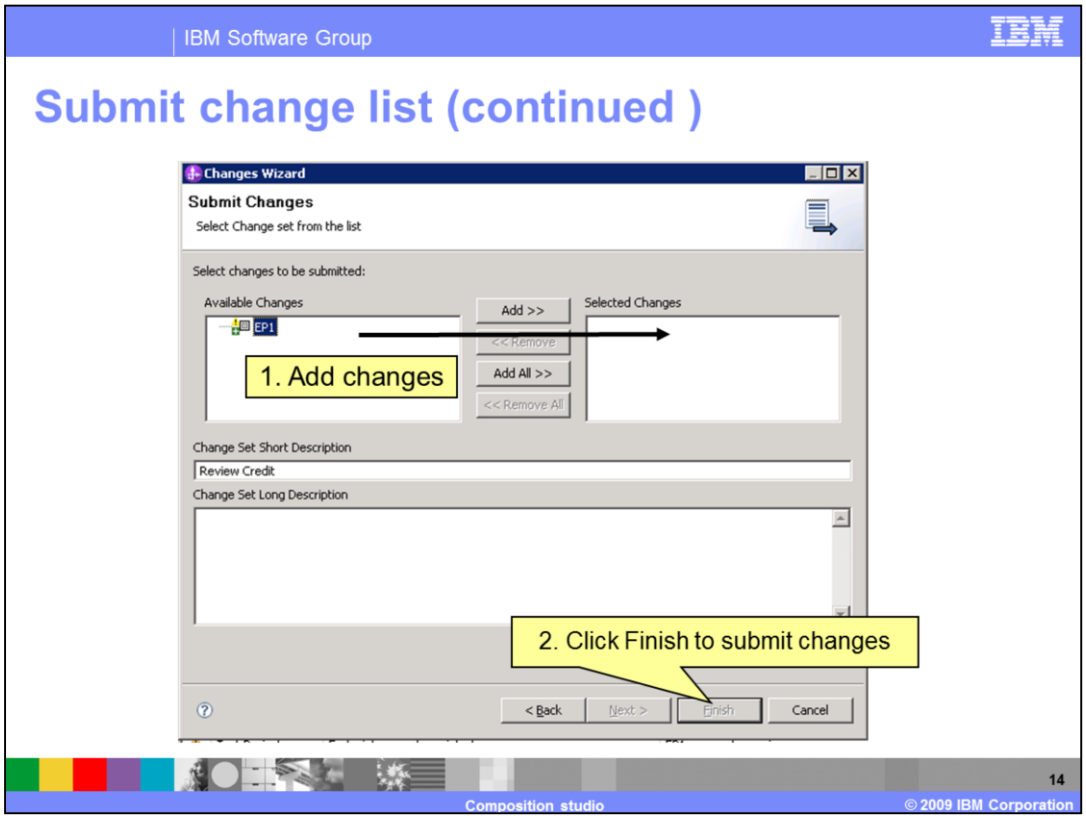
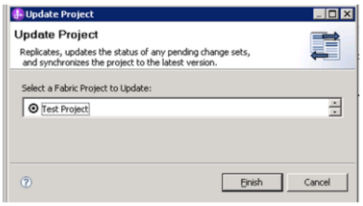
To submit an active change list first invoke the submit change list wizard by either right clicking on active changes or clicking on the green book icon in the repository changes view. Next select the project you want to submit active changes to and click next.



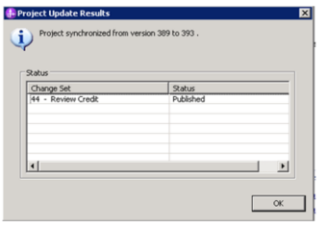
On the submit changes screen select the active changes to be submitted and click the add button. Provide a short and long description of the changes to provide the governance extra details about the changes and click finish. This will submit the changes to the master business services repository. The governance administrator can now review the changes in business space and approve or reject changes as needed. The decision of the administrator can be checked by updating the project changes.

Update project's local repository

- Update project
  - Right click the project or click
- Click finish



- Receives summary of updates
  - Local repository is synched with the master repository



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To update the project's local repository, right click the project in repository changes view and select update project. You might also click the icon shown to invoke the update project wizard. Next verify the right project is selected and click finish. The local repository is then synched against the master repository and a report of the updates is displayed. This report contains details around the active changes accepted or rejected or still pending a decision. If the change list is approved the changes in the change list are unlocked. If the changes are rejected the change list is made active.

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