



IBM Software Group

# WebSphere Business Services Fabric

*New in Composition Studio version 6.2*



@business on demand.

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This education module covers the new features in WebSphere® Business Services Fabric composition studio version 6.2.

## Agenda

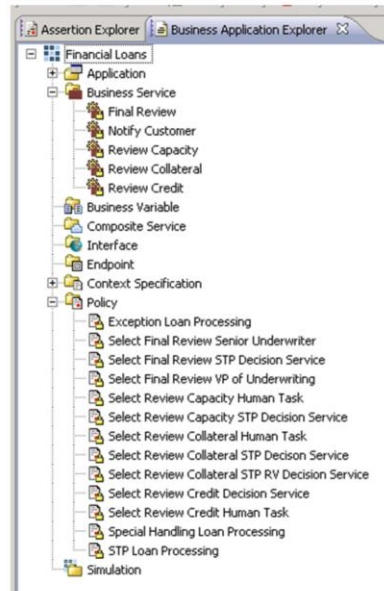
- Business application explorer
- Subscriber explorer
- Assertion explorer
- Composite service editor
- Context specification
- Policy editor
- Assertion types
- Technical versus business policy simulation
- Summary



This education module will cover the updates and modifications made to composition studio in version 6.2. First the presentation will walk through Business Application Explorer, then changes in Subscriber Explorer followed by Assertion Explorer. Next the module provides details around the enhancements Composite Service Editor and Context Specification. Finally the presentation talks about updates in Policy Editor, Assertion Types and technical versus business policy simulations.

## Business application explorer

- New view introduced in version 6.2
- Displays the business services and applications created in the business space



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The first topic covered in this module is a new view that has been introduced called Business Application Explorer. This view will list all the business services and business applications created by the business user in business space.

## Business application explorer

- Anything created in business space is read-only in composition studio. These instances are owned by the business user
- Anything created in composition studio can not be edited in business space
- Projects created before version 6.2 are displayed in business service explorer



Since these business assets have been created by the business user they can only be edited by the business user. Therefore these assets are locked in the business application explorer view. No changes can be made to them in this view by the technical user. In reverse, assets created by the technical user in composition studio cannot be edited by the business space as they are owned by the technical user. In addition, assets of projects created in version 6.1.2 are listed only in the business services explorer view.

## Subscriber explorer

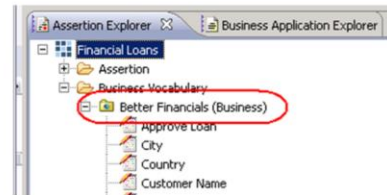
- Only 6.1.2 projects are displayed in the subscriber explorer
- Best practice: if strictly using version 6.2 business space created projects, you might close the subscriber explorer and business service explorer



The next topic covered is the changes in subscriber explorer view. This view is no longer used for projects created in version 6.2, but has been retained for back ward compatibility purposes. Only version 6.1.2 project subscriber assets are displayed in the subscriber explorer view. If you are strictly working with version 6.2 business space created projects then closing subscriber explorer and business service explorer will help keep the business service perspective clean and easier to manage. These two views are used to display assets that were created before version 6.2.

## Assertion explorer

- Added business vocabulary folder under assertion explorer view to display read only vocabulary assets



- Vocabulary namespaces need to be manually imported into the project for it to appear in Assertion Explorer



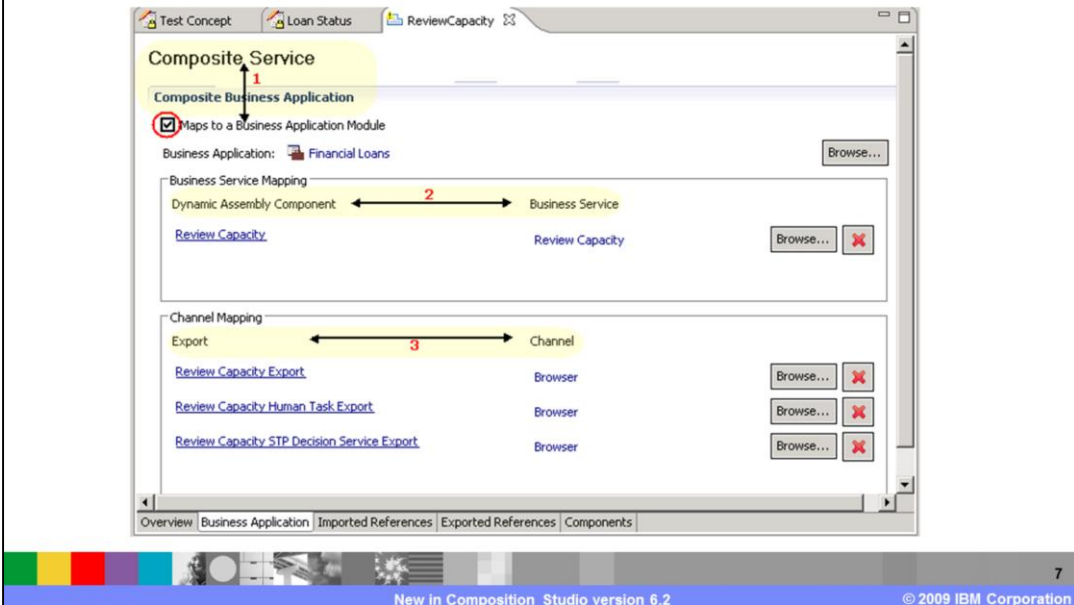
- If Business Vocabulary folder is empty you can still add vocabulary dimensions to context specifications, simulations and business concepts to policy expressions



The next topic covered is the updates made to the assertion explorer. You will see a new business vocabulary folder which contains the vocabulary assets defined in business space. These assets are displayed as read only and cannot be edited in composition studio. In order for a particular vocabulary library to be visible in assertion explorer the namespace that the vocabulary belongs to needs to be imported into the project. Even though the association is made automatically in business space, the manual step in Web tools is required for the vocabulary to appear in composition studio. This can be done by logging into WebSphere Business Services Fabric administrative console and selecting configure project under governance. Then click the namespace tab and import the particular vocabulary. The last step is to update the project in composition studio against the master repository. You will then see the required vocabulary listed under business vocabulary folder in assertion explorer view. Now even if the business vocabulary folder is empty, you can still add vocabulary dimensions to context specifications, and simulations and business concepts to policy expressions.

## Composite service editor

### ■ New Business Application tab



The next topic is the new business application tab in composition service editor. After the composite service is imported into business service perspective this tab can be used to create mappings from this service to a business application. The first step is to check the box stating that this composite service does in fact map to a business application created in business space. You can then create three other mappings in this editor. The first is mapping the composite service to the business application. The second is mapping the dynamic assembler component to the business service tasks it plays in the business application and the third is mapping external references to channels. This helps automatically set the context at runtime. These mappings should not be used in projects created before version 6.2

# Context specification editor

## Context Specification

Only use specified context at runtime

Default Required Model Dimensions:

Composite Service  
Dynamic Assembly Component  
Interface

Model Dimensions:

URI	Required	
Application		
Business Service		
Channel		
Role		

Add... Remove

Content-based Dimensions:

URI	Required	

Add... Remove

Vocabulary Dimensions:

URI	Required	Default Value		
Users	<input checked="" type="checkbox"/>		Clear	Clear
Status			Clear	Clear
			Clear	Clear
			Clear	Clear

Add... Remove

- New section available for vocabulary dimensions
- Default value available for vocabulary dimensions
- Clear button clears specified default value
- Context specifications are required for 6.2 projects




In this release modifications were made to the context specification to add business vocabulary. A new section is available for vocabulary dimensions. Further users can assign default values for these dimensions. A clear button will clear the specified default value. Context Specifications are required for 6.2 projects since hub simulation is no longer available. The vocabulary dimensions are the business concepts defined in the business vocabulary in business space. These can then be set to context specification as required at runtime by the dynamic assembler to process policies and assertions.



## Context specification default values

Vocabulary Dimensions:

URI	Required	Default Value		
<a href="#">Loan Value ()</a>	<input checked="" type="checkbox"/>	45	<input type="text" value="..."/>	<input type="button" value="Clear"/>
<a href="#">Loans</a>	<input checked="" type="checkbox"/>		<input type="text" value="..."/>	<input type="button" value="Clear"/>
<a href="#">Status</a>	<input checked="" type="checkbox"/>		<input type="text" value="..."/>	<input type="button" value="Clear"/>

- The links under URI link to the vocabulary dimension overview page from where you copy the URI by clicking on **General Information**  
ID: ue20d7e18-28ff-428d-9927-617735599e63 
- If default value is provided for vocabulary dimension, any simulation created against this will have the value pre-filled and non-editable

Required Context

Interface: [ContactCustomer](#) 

Loan Value (): 45

Loans:

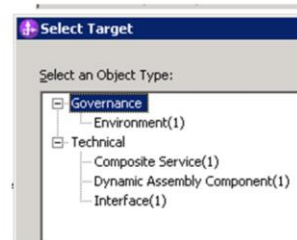
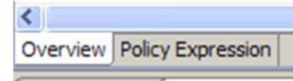
Status:

The vocabulary dimension link in the URI column will take you to the vocabulary dimension details page. Here you can copy the URI of the dimension using the icon circled. Next look at the default value, which can be assigned by clicking the button with the three dots. It is important to note that when creating simulations for the dynamic assembler component associated with this context specification the default value is pre-filled and non-editable.

## Policy editor

- Content, context and contract have been removed
- Editor now has two tabs, overview and policy expression
- Technical Policies: These policies are created by the technical user in composition studio targeted towards technical dimensions
- Business Policies: These policies are created by the business user in Business Space. They can only be viewed in composition studio not edited



Next covered are the modifications in the policy editor. The first thing you will notice that the three C's or context, content and contract tabs have been removed. This has been replaced by one simplified policy expression editor. A technical user can create technical policies using this editor. Technical policies are policies created by the technical user in composition studio targeted towards technical dimensions. These dimensions include environment, composite service, dynamic assembly component, and interfaces. In this version you will also see locked read only policies that cannot be edited in composition studio. These policies are business policies. These policies are created by the business user in business space.

## Policy expressions

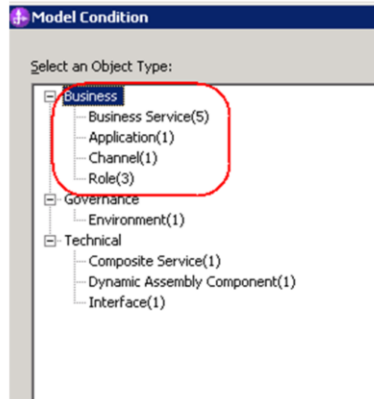
- Three C's are retired
  - ▶ Context → model conditions
  - ▶ Content → assertion conditions
  - ▶ Contract → assertions (or policy result)
- Prefix notation. Nesting implies parentheses
- Conditions can be nested for complex expressions



In the policy expression editor page on top there is the expression area and below is the assertion table. You can add a policy expression in prefix notation by right clicking and selecting add. This will open three conditions to help build complex expressions. These conditions are business concepts, assertion, and model. Business concepts have been introduced in this version and help add a vocabulary dimension in the policy expression. Model and assertion are the same as context and content from prior versions. These conditions can be nested for complex expressions. Based on the policy a certain contract or assertion is established. This is defined in the assertion area.

## Business concept and model conditions

- Model Conditions: Business dimensions are now available in Model conditions



Business dimensions, for example business service, application, channel, and roles are now available in Model conditions. These can be applied to the policies as needed.

## New assertion types

- Process variation assertion: associate with endpoints to set up process variation selection
- Three new assertions available with business vocabulary :
  - ▶ Set in context assertion: in technical or business policies to establish a value for a vocabulary concept in context
  - ▶ Vocabulary constrain assertion: are used to represent a constraint. Example: Maximum Loan Amount > 10,000
  - ▶ Vocabulary assertion: are used to specify a value for a concept. Example: Maximum Loan Amount =50,000



The next topic covered is the new assertions types. In this release process variation assertion, set in context assertion, vocabulary assertion and vocabulary constraint assertion were introduced. Process variation assertions are used to associate endpoints candidates for business dynamic assembler components to business service variations. These can be added to endpoints and policies. “set in context” assertions are used in technical or business policies to establish a value for a vocabulary concept in context. These can only be added to policies. The context value does not apply to the current dynamic assembler component but might be used down the line. Vocabulary constraint assertions are used to establish a constraint for a concept and vocabulary assertions are used to specify a value for a concept.

## Business policy simulation

- Business simulation is performed using a composite service that maps to a business application module
- This will cause business authored policies to be used



**Simulation Context**

Context Specification: [CreditCheck-extspec](#)

Role: [Underwriter](#)

Business Service: [Credit Check](#)

Application: [JKUnderwriting\\_Application](#)

Composite Service: [CreditCheck](#)

Dynamic Assembly Component: [Credit Check](#)

Date: Jan 27, 2009 

Time: 10:30 AM 

Time Zone: (GMT-06:00) Central Time 

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New in Composition Studio version 6.2

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The last topic covered in this education module is technical versus business policy simulations. If the composite service maps to a business application module it is referred to as a business policy simulation. In this case the business context like role, channel, business service, and dynamic assembler component are automatically filled based on the mapping in business application tab under composite service editor.

## Technical policy simulation

- If composite service does not provide mapping and you must provide context in simulation
- Business authored policies are not used in the simulation

Required Context

Business Service:	.	Browse...	Clear
Application:	.	Browse...	Clear
Interface:	<a href="#">CreditCheck</a>	Browse...	Clear
Credit Score ():		Edit...	Clear
Requested Loan Amount ():		Edit...	Clear
Type - Customer:		Edit...	Clear



If composite service does not provide mapping, you must manually add the context in simulation. In this case business authored policies are not used in the simulation. Only the technical policies are applied. This is called a technical policy simulation.

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