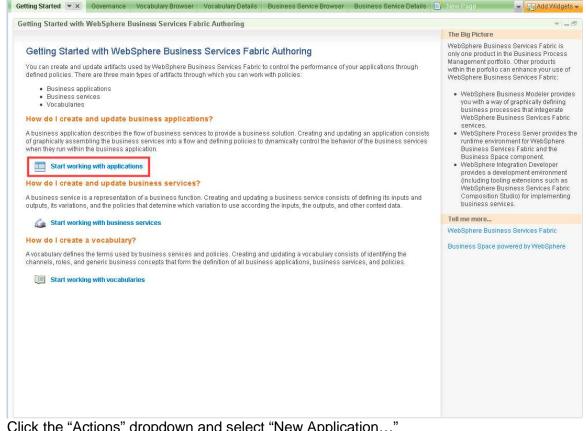
Chapter 5

Defining an application

In this chapter Loretta will create an application to represent the Better Financials Loan Origination solution. In the authoring space, defining an application involves creating a simple process flow that represents the tasks in the process in terms of existing business services. An application typically also contains policies.

1. Go back to the "Getting Started" page by clicking the appropriate tab and then click the "Start working with applications" link.



2. Click the "Actions" dropdown and select "New Application..."



3. Fill in these details and click "OK"

Create New Application		×
Name: *	Loan Origination]
Description:		
Tags:]
Select a change set		
Use existing:	Initial Modeling for Loans Origination 🛛 🝷	
🔘 Create new:		
Name: *]
Description:		
	OK Cancel]

4. Click "Loan Origination" to go to the application details page

5. Edit the Application flow by clicking the "Edit" button

Application Details						Ψ.
Loan Origination	~	Edit	Click to begin making ch	anges to this page		
⊽ General			•			
Overview						
Application Flow	1					
Business Services						
none						
Application Policies	add					
none						

First, you will add the channels that represent the ways that the ways that Better Financials is exposing this new application. An application flow must have at least one channel.

6. Click the "New" button

Save	Cancel	Active change set:	Initial Modeling for Loans Origination	~	Actions 🔻
			\$		
			New		

7. Select "Better Financials Online" and click "OK".

Add Channel To Application	×
Select a channel	
Type to filter	ר
Better Financials Online	i l
Loans Origination Vocabulary	
Customer Care Call Center	
Loans Origination Vocabulary	
1-2 2	
OK Cancel	

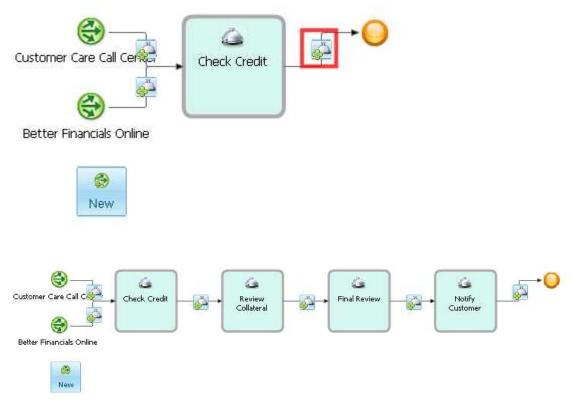
8. Do Steps 6-7 again but this time select "Customer Care Call Center".

Next, you will lay out the set of tasks for your simple Loan process.

9. Add a Business Service to the application flow by clicking the small square button on the wire



- 10. Select "Check Credit" and click "OK".
- 11. Add the other Business Services in this order following the Check Credit service: Review Collateral, Final Review, and Notify Customer.

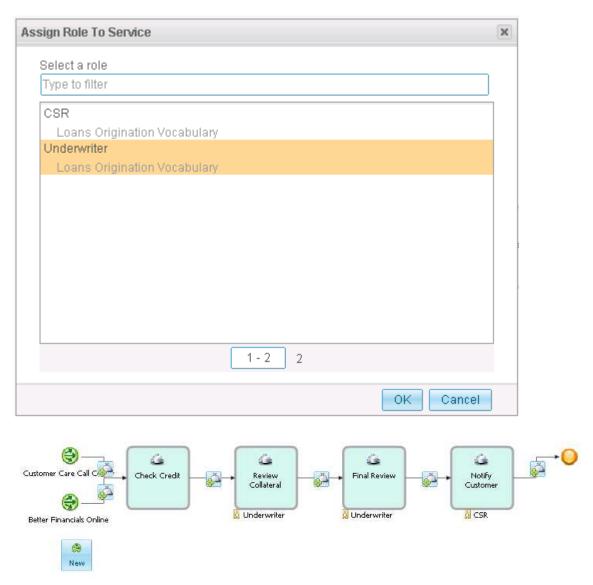


You can also optionally associate a service performer or role with a given task. A policy can include a when condition that specifies a role, so that policy is only considered when a task with that role is invoked.

12. Add roles to the services by hovering over the service square and clicking the "Add Role" button.

Review Collateral::Underwriter, Final Review::Underwriter, Notify Customer::CSR





13. Click "Save" to save the new application flow

Next, you will create some application-scoped policies. These come in two flavors that can be distinguished by their scoping statements.

If a policy has the statement "FOR <Application>", then it will apply for every step in the application flow based on the whether the WHEN condition is satisfied. Since this kind of policy is not specific to any business service, the results that can be added to the THEN clause are limited to setting business parameters. Similar to what you did for some of your credit check policies in the last chapter.

If a policy has the statement "For <Application> in <Business Service>", then it will apply only in situations where the given business service is being invoked *within* the given application. Since this policy is specific to a business service, such policies can be used to specify a process variation to select when invoking that business service.

Policy Override Semantics

Often, it is necessary to use a policy to establish some default behavior and to have other policies that override this behavior for special circumstances. For example, you will want to override the business service policy that determines that the Final Review business service should use human underwriting.

At runtime, the system considers all policies that match given their FOR and WHEN conditions and merges the results into a single composite policy. In the end, there can be only one selected process variation and only one value assigned to any given concept. The system uses these rules to determine which settings to use:

- Settings from Application-scoped policies take precedence over settings from Business Service-scoped policies.
- If two settings are both defined at the Application or Business-Service level, the **priority** field is used to disambiguate. The setting that comes from a policy with the largest integer priority value will take precedence.
- If neither of these schemes can be used to disambiguate the value for a given setting, a policy conflict error will happen at runtime.

Policies for Credit Check

14. Add a policy by clicking the "add" link to the right of the "Application Policies" header

Application Details	
Loan Origination 🗸	
≂ General	
Overview	
Application Flow	1
Check Credit	
Review Collateral	
Final Review	
Notify Customer	
Application Policies	add
none	

15. Fill in these details and click "OK"

reate New Applicatio	on P	olicy	3
Name:	*	Credit Check Third-party override	
Description:			
			_
Tags:			
Business Service:		Check Credit 🗸	
Select a change se	et		
Use existing:		Initial Modeling for Loans Origination 🛛 👻	
🔵 Create new:			
Name:	*		
Description:			
		OK Cance	I

New customers can not take use the internal credit check capability since the bank will have no information on fresh clients. In the last chapter, a policy established that the credit check type should default to INTERNAL. You will refine that logic with a new policy that says:

FOR: Check Credit in Loan Origination, WHEN: New Customer is equal to True THEN: Set *Credit check type* to Third-Party

Formation Name: Credit Check Third-party override Description:		Active change set: Initial Modeling for Loans Origination	Actions
Description:	General Informatio	ion	
Tags:	Name:	Credit Check Third-party override	
Created: Mar 25, 2009 10:57:40 AM by Ismith Last modified: no modifications made Status: Changes pending (change set: Initial Modeling for Loans Origination) External Links a Policy Details Effective Date: Expiration Date: Priority: 0 For Check Credit In this application (Loan Origination) When New Customer is equal to True	Description:		
Last modified: no modifications made Status: Changes pending (change set: Initial Modeling for Loans Origination) External Links a Policy Details Effective Date: Expiration Date: Priority: 0 For Check Credit in this application (Loan Origination) When New Customer is equal to True Then	Tags:		
Status: Changes pending (change set: Initial Modeling for Loans Origination) External Links Policy Details Effective Date: Expiration Date: Priority: 0 For Check Credit in this application (Loan Origination) When New Customer is equal to True Then	Created:	Mar 25, 2009 10:57:40 AM by Ismith	
External Links a Policy Details Effective Date:	Last modified:	no modifications made	
Policy Details Effective Date: Expiration Date: Priority: 0 For Check Credit in this application (Loan Origination) When New Customer is equal to True Then	Status:	Changes pending (change set: Initial Modeling for Loans Origination)	
Expiration Date: Priority: 0 For Check Credit in this application (Loan Origination) When New Customer is equal to True Then	External Links		а
For Check Credit in this application (Loan Origination) When New Customer is equal to True Then			a
Check Credit in this application (Loan Origination) When New Customer is equal to True Then	Policy Details Effective Date: Expiration Date:		a
New Customer is equal to True Then	Policy Details Effective Date: [Expiration Date: [Priority: [a
New Customer is equal to True Then	Policy Details Effective Date: [Expiration Date:] Priority: [For		a
Then	Policy Details Effective Date: [Expiration Date:] Priority: 0 For Check Credit in		a
	Policy Details Effective Date: [Expiration Date:] Priority: [For Check Credit in When	n this application (Loan Origination)	a
Set Credit Check Type to Third-Party	Policy Details Effective Date: [Expiration Date:] Priority: 0 For Check Credit in When New Customer	n this application (Loan Origination)	a
	Policy Details Effective Date: [Expiration Date:] Priority: [For Check Credit in When	n this application (Loan Origination)	a
	Policy Details Effective Date: [Expiration Date:] Priority: [For Check Credit in When New Customer Then	n this application (Loan Origination) r is equal to True	a
	Policy Details Effective Date: [Expiration Date:] Priority: [For Check Credit in When New Customer Then	n this application (Loan Origination) r is equal to True	a

16. Edit the policy so that it looks like this and then click "Save"

Review Collateral

The business decides that collateral reviews are unnecessary for the auto line of business. The default policy establishes a human collateral review, but you want to make an exception for autos. Loretta creates this policy:

▽ General Information

Name:	Review Collateral Auto override
Description:	none
Tags:	none
Created:	Mar 25, 2009 11:04:22 AM by Ismith
Last modified:	Mar 25, 2009 11:04:22 AM by Ismith
Status:	Changes pending (change set: Initial Modeling for Loans Origination)

⇒ External Links

none

⇒ Policy Details	
Effective Date: Expiration Date: Priority:	0
For	ral in this application (Loan Origination)
When	
Line of Busine	ss is equal to Auto Loan
Then	
Select No Coll	ateral review in Review Collateral

Final Review

The business decides that an expensive manual underwriting can be replaced with the automated variation if the amount of the requested loan is less than \$25, 000. If the loan has already been rejected or flagged as needing more information, you will route it to the automatic variation. Loretta creates this policy to manage this:

= Policy Details
Effective Date:
Expiration Date:
Priority: 0
For
Final Review in this application (Loan Origination)
When
Amount of Loan is less or equal to 30000
OR Loan Status in (More Info Needed,Rejected)
Then
Select Automated Underwriting in Final Review

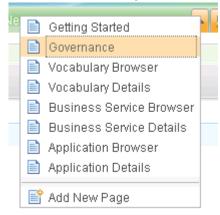
Notify Customer

Typically, the customer can automatically be notified of the status of their loan application. However, in some situations, it is determined that more information is needed to approve the loan. In that case, a customer service representative needs to get in contact with the applicant to acquire the needed information. Loretta creates this policy to represent this:

General Informati	on
Name:	Notify Customer Human override
Description:	none
Tags:	none
Created:	Mar 25, 2009 11:48:03 AM by Ismith
Last modified:	Mar 25, 2009 11:48:03 AM by Ismith
Status:	Changes pending (change set: Initial Modeling for Loans Origination)
[,] External Links	
none	
none	
Policy Details	
Policy Details Effective Date:	
Policy Details Effective Date: Expiration Date:	
Policy Details Effective Date: Expiration Date:	
Policy Details Effective Date: Expiration Date: Priority: () For	r in this application (Loan Origination)
Policy Details Effective Date: Expiration Date: Priority: (For Notify Custome	
Policy Details Effective Date: Expiration Date: Priority: 0 For Notify Custome When	r in this application (Loan Origination)
Policy Details Effective Date: Expiration Date: Priority: 0 For Notify Custome When	

Working with Change Sets

Initial authoring of the application is complete and Loretta is ready to submit these changes. Although anyone editing in the authoring space man contribute changes to the change set, only the administrator or the user who created the change set in the first place may submit the changes. Go to the Governance page by clicking the dropdown arrow to the left of the "Add Widgets" button and selecting "Governance"



17. Select the change set and then click the "Submit Change Set" button

Type to filter				Sho	w Active	Action
Number	Change Set	Submission Date	Submitter	Status	Business Space	
000023	Initial Modeling for Loans Origina	ation 2009-03-25 / 01:11:	32 Ismith	🖉 Draft	Loans Origination Authoring	l i
		~	۵			
		1	1			
Submit Ch	ange Set Cancel Change Set	Edit				
					Details External Li	nks Hist
⇒ General	Information					
Numb	er 000023					
Name:	: Initial Modeling for Loans Orig	ination				
Descr	iption: Vocabulary, business service	s, application, and policies for the new Loan o	rigination application			
Tags:						
Submi						
	itter: Ismith					
Submi	incion					
Submi Date:	ission Mar 25, 2009 1:11:32 AM					
Submi	ission Mar 25, 2009 1:11:32 AM					
Submi Date:	ission Mar 25, 2009 1:11:32 AM s: Draft					
Submi Date: Status	ission Mar 25, 2009 1:11:32 AM s: Draft Details	Change Type	Action	Submitter	Last Modified Date	
Submi Date: Status Change Loans	ission Mar 25, 2009 1:11:32 AM s: Draft Details ge	Rusiness Vocabulary	Action Add	Submitter	Last Modified Date 2004-03-25 ែ 11-48-05	
Submi Date: Status Change Loans	ission Mar 25, 2009 1:11:32 AM s: Draft Details ge	Rusiness Vocabulary				
Submi Date: Status Change Loans Fill in t	ission Mar 25, 2009 1:11:32 AM s: Draft Details ge Origination Vocabulary he comment and	Rusiness Vocabulary			2009-03-25 / 11-48-05	
Submi Date: Status Change Loans Fill in t	ission Mar 25, 2009 1:11:32 AM s: Draft Details ge	Rusiness Vocabulary				
Submi Date: Status Change Loans Fill in ti Char	ission Mar 25, 2009 1:11:32 AM s: Draft Details ge Origination Vocabular he comment and nge Set Comments	Rusiness Vincehulan Click "OK"	Add		2009-03-25 / 11-48-05	
Submi Date: Status Change Loans Fill in ti Char	ission Mar 25, 2009 1:11:32 AM s: Draft Details ge Origination Vocabular he comment and nge Set Comments	Rusiness Vocabulary	Add		2009-03-25 / 11-48-05	
Submi Date: Status Change Loans Fill in ti Char	ission Mar 25, 2009 1:11:32 AM s: Draft Details ge Origination Vocabular he comment and nge Set Comments	Rusiness Vincehulan Click "OK"	and to runtime	Ismith	2009-03-25 / 11-48-05	
Submi Date: Status Change Loans Fill in ti Char	ission Mar 25, 2009 1:11:32 AM s: Draft Details ge Origination Vocabular he comment and nge Set Comments	Rusiness Vincehulan Click "OK"	Add		2009-03-25 / 11-48-05	

As soon as Loretta submits the changes, the change set moves from Draft to Pending state. Any object listed in a change set that is in Pending state is locked such that no user can change those objects until the changes are either published or rejected.

Your administrator, Andy, now needs to review and publish these changes.

1. Andy logs in to Business Space, opens the "Loans Origination Authoring" space, and goes to the governance tab. Reviewing change sets can also be done from the administration space.

The "show" drop down in the upper right corner can toggle the view to show change sets in various states. The "Active" setting shows all change sets that have not been published or canceled.

anye set							
e to filter				Show	Active	~	Actions 🔻
nber	Change Set	Submission Date	Submitter	Status	Business Space		
023	Initial Modeling for Loans Origination	2009-03-25 / 01:11:32	Ismith	🕑 Pending	Loans Origination A	uthoring	
		▼▲					
Approve Ch:	ange Set Reject Change Set	·					
					Details Ext	ernal Link:	; History
⇒ General II	nformation						
Numbe Name:	r 000023 Initial Modeling for Loans Origination						
Descrip	ption: Vocabulary, business services, application	and policies for the new Loan originat	ion application				
Tags:							
Submit	ter: Ismith						
Submis Date:	Mar 25, 2009 1:11:32 AM						
Status:	: Pending						
⇒ Change D	lotaile						
		-					
Change		ange Type siness Vocabulary		Submitter smith	Last Modified Date 2009-03-25 / 11:48	0.5	
	Fill in the comment an						no cot
			commenta	5 25500121		many	je sei
	visible under the histo	ry tab.					
	Change Eat Commant	~				1	
	Change Set Comment	5			×		
	Commenter Looks good					1	
	Comments: Looks good						

2. Find the change Set and click "Approve Change Set".

4. Click "Publish Change set", and then click "OK" in the dialog box that pops up (comment is already filled in).

Cancel

0K

When reviewing the change set, Andy notices that a new vocabulary was created and is being used by the Application. Andy knows that this means he needs to go to the Fabric Governance Manager in the Fabric console to do a little configuration for Reba before she gets started with the Business Service perspective in WebSphere Integration Developer.

5. Log into the Fabric console (<u>http://<server>:<port>/fabric</u>)

🕘 Login - WebSphere Business Services Fabric - Mozilla Firefox		
Elle Edit View History Bookmarks Tools Help		
C X 🏠 (🗋 http://localhost:9081/fabric/login.jsp	☆ • Google	٩
🔎 Most Visited 🗭 Getting Started <u>à</u> Latest Headlines		
WebSphere Business Services Fabric		
Login Please enter your User Id and Password. Telds marked with an asterisk (*) are required fields. * User Id everest * Password Login	WebSphere Business:	Services Fabric 6.2.
Done		Lar

6. Go to Governance Manager->Configure Projects

My Services					
Welcome					
Business Services Repository					
🖃 Governance Manager					
Configure Environments					
Configure Namespaces					
Configure Projects					
Configure Repository					
Import/Export					
Manage Teams					
Manage User Accounts					
■ Performance Manager					
🗉 Subscriber Manager					
Help					

Notice that a Fabric project was automatically created for the Loan Origination application and for each of the business services that you created. When Reba creates a

Fabric project in WebSphere Integration Developer, this is the project that she is connecting to. A current limitation in the Fabric requires a namespace import for a vocabulary to be manually added. Each vocabulary is a namespace that belongs to the Fabric Business Glossary project.

7. Select the "Loan Origination" project

Project Selection			
'iew 10 👻 rows at a tin	ne		
l0 rows			Page 1 of 1 📧 🔼 🗵
Project Name	Project Type	Description	Last Modified+
Loan Origination	Composite Business Application		Mar 25, 2009 10:55:39 AM
Notify Customer	Business Service	Notify the customer about the status of the loan	Mar 25, 2009 2:11:30 AM
Final Review	Business Service	Review loan risk and decide whether to approve or reject the loan	Mar 25, 2009 2:10:44 AM
Review Collateral	Business Service	Review collateral information to ensure coverage of the loan amount	Mar 25, 2009 2:10:03 AM
<u>Check Credit</u>	Business Service	Automated Credit check	Mar 25, 2009 2:08:47 AM
Fabric Business Glossary	Vocabulary	Used to store all Business Vocabularies.	Mar 25, 2009 1:16:12 AM
Fabric Governance	Legacy Business Service	Used to store project, namespace, and environment objects	Mar 24, 2009 10:33:1: AM
Fabric Business Service Model	Ontology	Contains the schema namespaces that define the internal model used by IBM Business Services Repository	Mar 24, 2009 10:33:11 AM
Organizations, Users, and Roles	Legacy Business Service	Used by IBM Business Services Subscriber Manager to store organizations, users, and role relationships	Mar 24, 2009 10:33:13 AM
User Policies	Legacy Business Service	Policies created using the Customized Policy application programming interface are stored in this project	Mar 24, 2009 10:33:13 AM

8. Go to the "Namespaces" tab and click the "Import Namespaces" button.

Project Loan Origination				Back to Projects
Project Details Project Team Namespaces	3			
Owned Namespaces				
rows				
Namespacet		Type	Description	
<u>.oan Origination (Technical)</u> .oan Origination (Business)		Instance Business		
-				
Create a Namespace Imported Namespaces	Tune	Description	Deins aus Durainst	Persona
Imported Namespaces rows Namespace↑	<u>Туре</u>	Description	Primary Project	Remove
Imported Namespaces rows Namespacet Leview Collateral (Technical)	Instance	Description	Review Collateral	
Imported Namespaces rows Namespace teview Collateral (Technical) teview Collateral (Business)	Instance Business	Description	Review Collateral Review Collateral	
Imported Namespaces rows Namespace Review Collateral (Technical) Review Collateral (Business) Jobify Customer (Technical)	Instance Business Instance	Description	Review Collateral Review Collateral Notify Customer	
Imported Namespaces rows Namespace Review Collateral (Technical) Review Collateral (Business) Jobify Customer (Technical) Jobify Customer (Business)	Instance Business Instance Business	Description	Review Collateral Review Collateral Notify Customer Notify Customer	
Imported Namespaces rows tamespace teview Collateral (Technical) teview Collateral (Business) Jotify Customer (Technical) Jotify Customer (Business) inal Review (Technical)	Instance Business Instance Business Instance	Description	Review Collateral Review Collateral Notify Customer Notify Customer Final Review	
Imported Namespaces Prows Namespace Review Collateral (Technical) Review Collateral (Business) Notify Customer (Technical) Notify Customer (Business) Final Review (Technical) Final Review (Business)	Instance Business Instance Business Instance Business	Description	Review Collateral Review Collateral Notify Customer Notify Customer Final Review Final Review	
Imported Namespaces rows tamespace teview Collateral (Technical) teview Collateral (Business) Jotify Customer (Technical) Jotify Customer (Business) inal Review (Technical)	Instance Business Instance Business Instance	Description	Review Collateral Review Collateral Notify Customer Notify Customer Final Review	

9. Select the "Fabric Business Glossary" project

	* Project	Fabric Business G	ilossary	•					
10. Enable the chec click "Import Na	mespace and then								
Configure Projects	figure Projects								
Project Loa	an Origination				Back to Projects				
Project Details Project Tean	n Namespaces								
Import Namespaces									
Fields marked with an asterisk (*) are required fields.								
Select a Project and Nam	espaces to import.								
Project Selection									
* Pro	pject Fabric Business Glo	ossary 👻							
Namespace Selection									
1 rows									
Namespace				Туре	Description				
Loans Origination	n Vocabulary (Business)			Business					
				1	import Namespaces Cancel				

With this step complete, the appropriate vocabularies will show up in the business service perspective in WebSphere Integration Developer.