Enriching Messages



Objectives

After completing this lesson, you should be able to:

- Describe the message enrichment options
- Use service callout to enrich a request message before routing it to the target service
- Describe the usage of Java callout in OSB



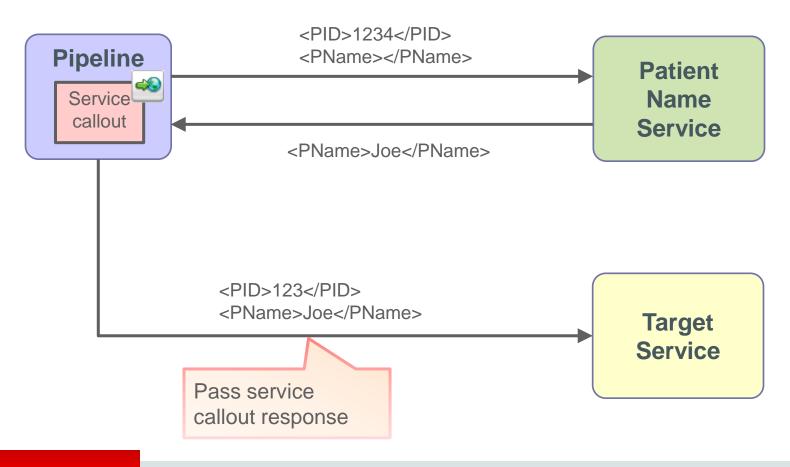
Message Enrichment Options

- Service Callout
- Java Callout



Service Callout

Enables you to query another service for a value that can then be used in the message flow



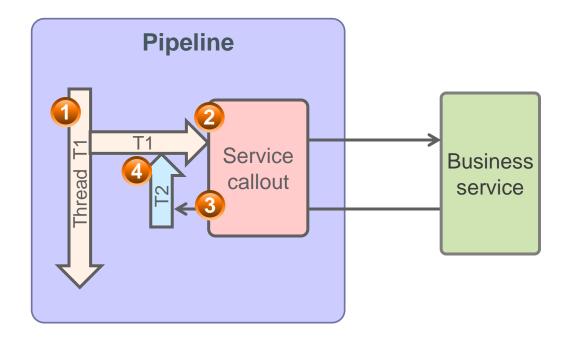


Using Service Callout

- Used for real-time request/response calls (Synchronous calls)
- Multiple service callouts can be executed in any order
- A response is needed from the service execution.
 - When responses are not needed, use Publish action.

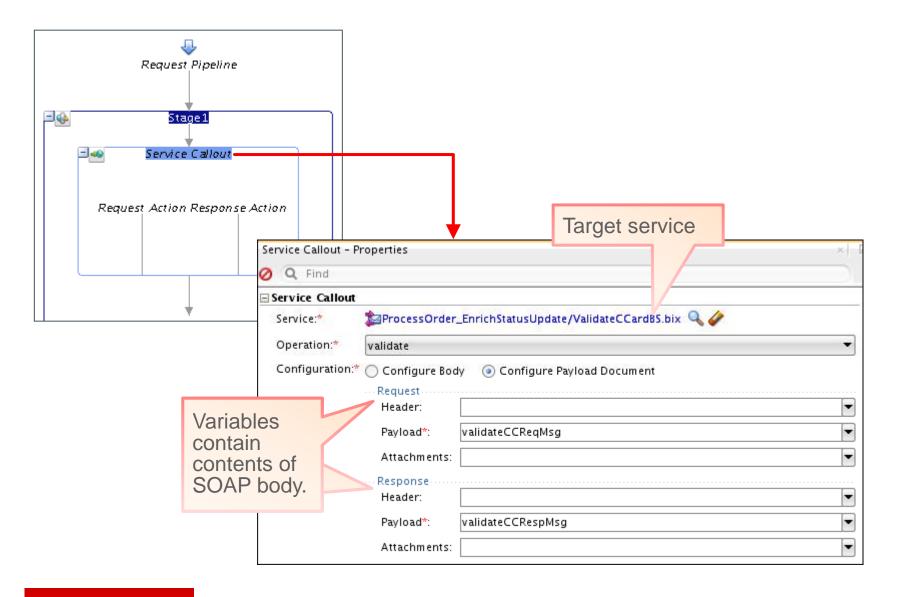


Service Callout Action





Configuring Service Callout Action





Constructing Service Callout Messages

- The service options that can be selected for a service callout action are:
 - SOAP Document Style Service Callout
 - SOAP RPC Style Service Callout
 - XML Service Callouts
 - Messaging Service Callouts
- You can use attachments with service callout messages.



Java Callout

- Java Callout activity is used to invoke Java custom code when the OSB predefined functions are not sufficient to complete the requirement.
- The Java code must be packaged as jar.





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Use Cases

- Performing custom validations, such as validating against a DTD, or doing cross-field semantic validation in Java
- Performing custom transformations, such as converting a binary document to base64Binary (or vice versa) or using a custom Java transformation class
- Performing custom authentication and authorizations
- Performing lookups for message enrichment. For example, a file or Java table can be used to look up any piece of data that can enrich a message.

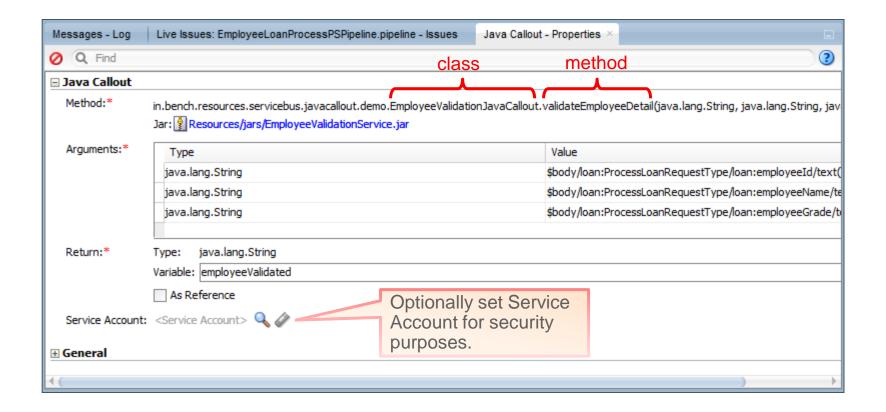
Java Callout Guidelines

- The method written for Java callout must be static method.
- You can specify arguments for the method.
- Java callout is not recommended to call big methods with lots of business functionality behind it.



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Java Callout Action





Summary

In this lesson, you should have learned how to:

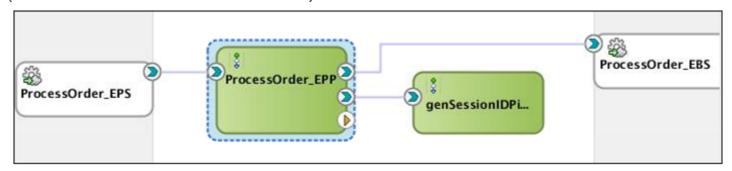
- Describe the message enrichment options
- Use service callout to enrich a request message before routing it to the target service
- Describe the usage of Java callout in OSB



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Practice 8: Overview

 8-1: Enriching the Message by Calling a Pipeline Service (Session ID Generation)



 8-2: Enriching the Message by Calling a Business Service (ValidateCreditCard)

