



# Leading the **Integration** Revolution

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Your business problems have changed.  
Why hasn't your integration solution?



ADEPTIA

# Using Adeptia

## Use Case: Creating a Custom Service

# Use Case highlights

In this use case we will create a custom service in Adeptia:

1. As an example we will use an open source Java API (JAR) to call LinkedIn
  - Java API uses OAuth token to connect and execute a RESTful web service
2. Create a custom service using Custom Plugin that calls this Java API
3. Design an orchestration that contains this Custom Plugin
4. Pass a parameter via context variable into this Custom Plugin
5. Map the response of the Custom Plugin into a target
6. Show the results of the process flow execution
7. Discuss some of the scenarios where Custom Plugins are applicable

# Design methodology



Design a high level process flow



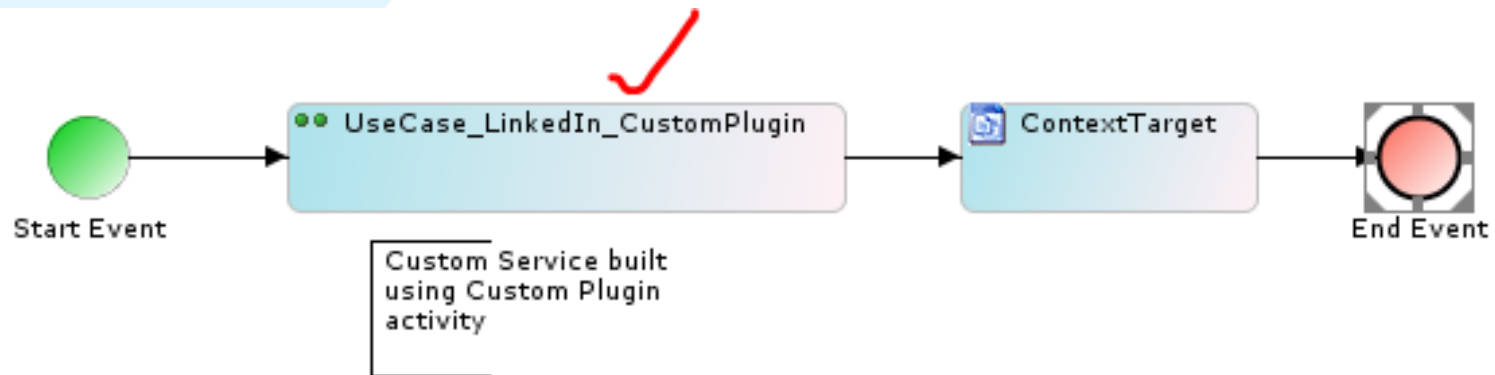
Configure all the activities in the process flow



Attach to Event

# Design: Process Flow

Please refer to the Use Case video describing how to build this process flow



# Configure – Custom Plugin

Place the JAR file in the ../serverkernel/ext folder of the Adeptia Suite.

Restart the kernel and webrunner.

Then go to Develop > Services > Extensions > Custom Plugin

Paste the Java code into the Script box as shown here and save

Getting Started | Projects | Solutions ▾ | Process ▾ | Services ▾ | Events ▾ | Web Forms | Reports and Dashboards ▾

Services > Extensions > Custom Plugin ✓

Delete + Create New Quick Search

Name	Description	Owner	Project Name	Modified	Action
UseCase_LinkedIn_CustomPlugin ✓	custom pluain that uses the open sourc...	demouser	UseCase Custom...	12/26/13...	☰

```
import java.net.URLEncoder;
import org.scribe.builder.ServiceBuilder;
import org.scribe.builder.api.LinkedInApi;
import org.scribe.model.OAuthRequest;
import org.scribe.model.Response;
import org.scribe.model.Token;
import org.scribe.model.Verb;
import org.scribe.oauth.OAuthService;

// TODO changes these to your API key and secret
String companyid = context.get("companyid");

String API_KEY = "xxxx5ua62tun0";
//Please use your OAuth tokens and API key for LinkedIn
String API_SECRET = "SIBRkSXOxxxxx";
```

# Configure – Custom Plugin

## Dynamically pass data to and from the Custom Plugin

Here is an example of a variable “companyid” which get its value from the process flow Context variable with the same name.

1. Get context parameters from context:

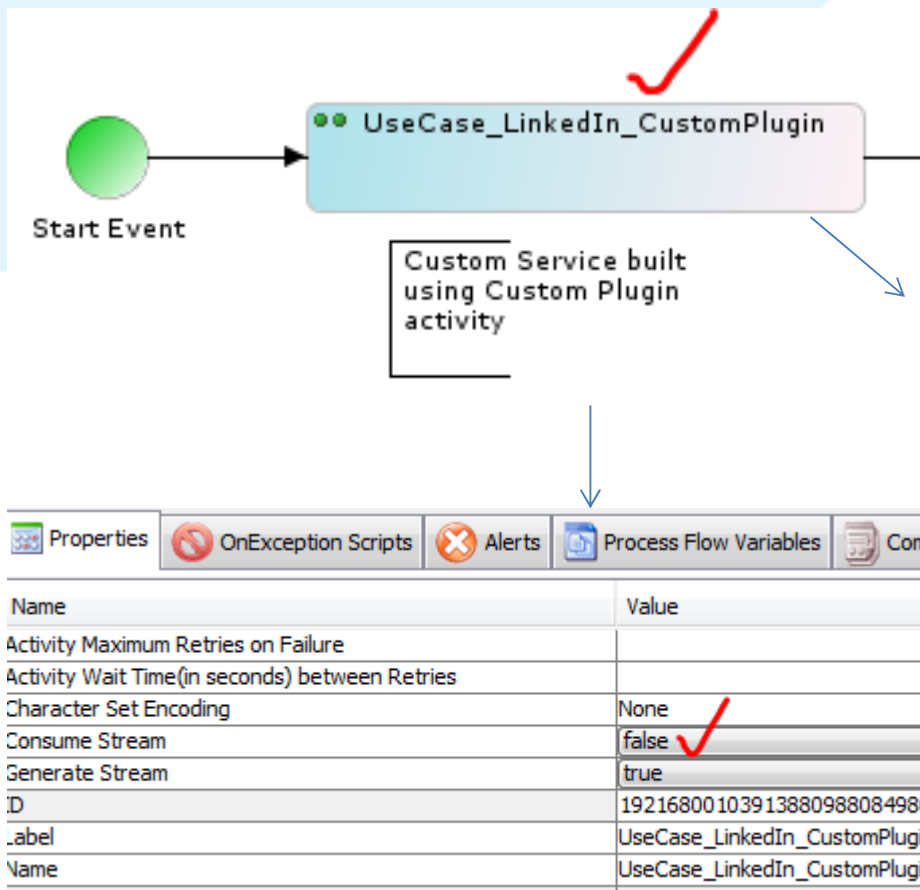
```
String companyid = context.get("companyid");
```

2. Write data stream into the context:

```
service.write((response.getBody().toString()).getBytes(),"default");
```

# Configure – Attach activities to process flow

Select and drag the activities from Repository View and attach it to activities.  
Refer to the video.



The screenshot shows the "Multiple Stream Dialog" window. It has a "Stream Name Entry" section with a text field for "Stream name" and an "Add Stream" button. Below that is the "Stream And Activity Mapping" section with dropdown menus for "Streams" (set to "default") and "Activities" (set to "ContextTarget"), and a "Map" button. The "Stream Information Table" section contains a table with the following data:

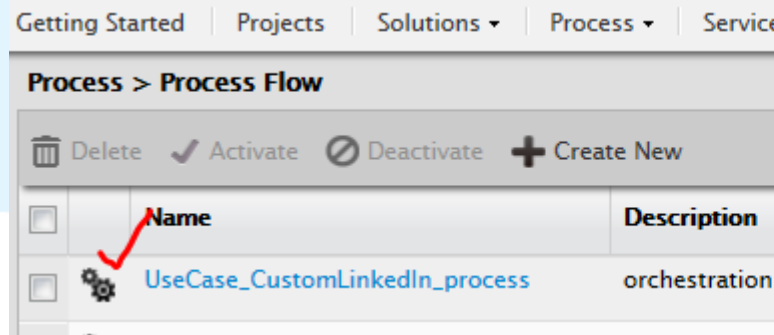
Stream Name	Error Stream	Stream Consumer ...	Explicit Stream
default	<input type="checkbox"/>	ContextTarget	<input type="checkbox"/>

At the bottom of the dialog are "Done" and "Cancel" buttons.



# Deploy – On-demand execution

Also Right click on the process flow located under Develop > Process > Process Flow and create and register an Event to the process flow. In this example we are executing the orchestration manually and going to the logs to see the results.



```
<?xml version="1.0" encoding="UTF-8" standalone="true"?>
<company>
  <id>79129</id>
  <name>Adeptia</name>
  <description>Adeptia is the leading provider of comprehensive all-in-one business
integration software. Our unique, thoroughly holistic approach combines data
integration (ETL), Service Oriented Architecture (SOA), Enterprise Service
Bus (ESB), Business-to-Business Integration (B2Bi) and Business Process
Management (BPM) into a single, collaborative, web-based application;
providing a simple way to deliver complex data integration for changing
business needs, without the need for extensive coding. Adeptia uses SOA and
a process-based framework for creating flexible and loosely-coupled
solutions for any business integration need, increasing reusability and
dramatically reducing implementation time. Adeptias unique approach
satisfies the broadest range of customer integration requirements at
economical price points, where customers pay only for the functionality they
need. As a result, over 300 customers, ranging from Fortune 1000 companies
to mid-sized and small businesses have deployed Adeptias reusable and
highly scalable technology. The Adeptia mission is to provide customers with
the most comprehensive, enterprise-class integration software to satisfy the
broadest range of integration requirements at economical price points; where
customers pay only for the functionality they need with the ability to upgrade
and scale just by updating license keys; and benefit by dramatically reducing
risk, maximizing their investment, and laying the foundation for additional
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    <code>D</code>
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  </employee-count-range>
</company>
```

# Project: View and manage activities for this use case

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**Projects** ✓

List of activities included in project "UseCase\_CustomService\_LinkedIn" ✓

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<input type="checkbox"/>	Name	Description	Owner	Modified
[-] Custom Plugin (1)				
<input type="checkbox"/>	UseCase_LinkedIn_Cust...	custom plugin that uses...	demouser	12/26/13 17:41
[-] Process Flow (1)				
<input type="checkbox"/>	UseCase_CustomLinkedi...	orchestration to call Lin...	demouser	12/26/13 17:08

Leading the  
**Integration**  
Revolution

Your business problems have changed.  
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Thank You!



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