**Action Learning for SAP Cloud Platform Integration**

**Business Requirement:**

Determination of weather forecast is important for Ford to transport their vehicles from one place to another seamlessly without any damage to the consignments. This interface is to determine the Weather Forecast of all Locations of United States periodically and update the same in Front End Portal every day.

**Frequency**: Every 8 hours.

**Volume**: 1 per run.

**Steps to be followed.**

1. Create a package in SAP CPI (Only One Action Learning package is enough for entire Batch, please co-ordinate with your mentor to get the name).Do not create separate packages.
2. Create an Iflow inside the Package, follow naming convention given below.
3. Create one sender participant and one receiver participant.
4. Connect the sender participant and Integration process using SOAP Adapter.
5. Maintain the Message exchange pattern as Request-Reply
6. Use the pallet function Request reply and connect the Receiver participant with SOAP Receiver adapter.
7. Configure the SOAP Receiver Adapter with the below URL

<https://graphical.weather.gov/xml/SOAP_server/ndfdXMLserver.php>

1. Connect the Request-Reply to the end. Save and Deploy the Iflow
2. Use the below payload and push the request from SOAP UI and get the response for the corresponding location.

Payload to be added in SOAP UI.

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:cxf="http://cxf.component.camel.apache.org/">

<soapenv:Header/>

<soapenv:Body>

<ndf:NDFDgenByDay xmlns:ndf="https://graphical.weather.gov/xml/DWMLgen/wsdl/ndfd XML.wsdl">

<latitude>35.4</latitude>

<longitude>-97.6</longitude>

<startDate/>

<numDays>1</numDays>

<Unit>m</Unit>

<format>24 hourly</format>

</ndf:NDFDgenByDay>

</soapenv:Body>

</soapenv:Envelope>

**Naming Conventions to be followed for Action Learning**

Package Name: DoNotDelete\_ActionLearning\_<MMMYYYY>

Iflow Name: IF\_ WeatherForecasting\_SOAP\_Sync \_<CORPID>

Sender: SAP\_CPI

Receiver: Graphical\_Weather

SOAP EndPoint: /<CORPID>/WeatherForecast