

Week 3 Unit 1: Timer-Based Start of Integration Flows

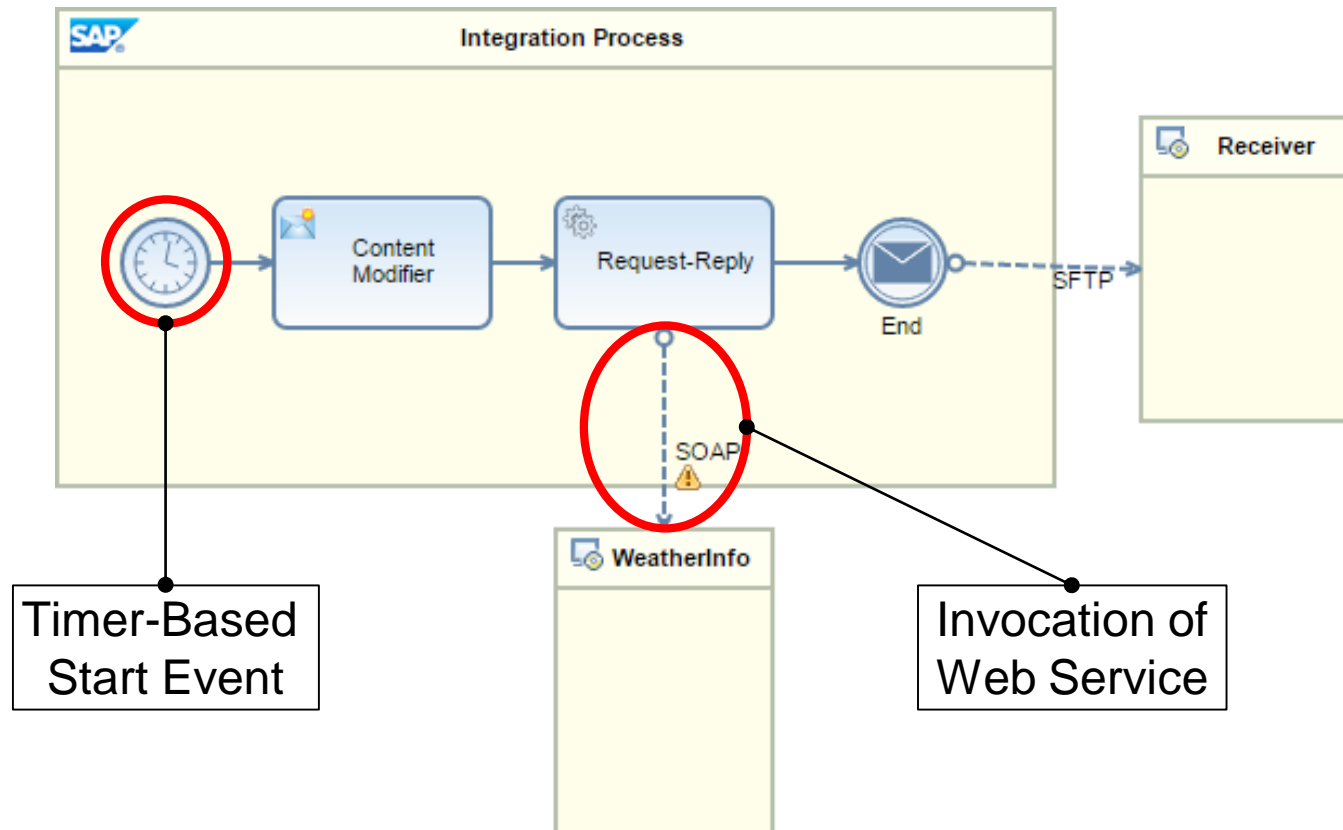
Timer-Based Start of Integration Flows

The scenario

Goals

Run an integration flow at a certain point in time

Invoke a Web service to retrieve weather information for a certain city and store it on an SFTP server



Timer-Based Start of Integration Flows

Timer configuration (1)

Goals

Run an integration flow at a certain point in time

Invoke a Web service to retrieve weather information for a certain city and store it on an SFTP server

Timer Start Event

☐ Run Once

☒ Schedule on Day

☐ Schedule to Recur

Schedule on Day

On Date

10/28/2015

☐ On Time

06:53 AM

☒ Every

1 min

Between

00:00

and

01:00

Time Zone

(UTC 5:30) India Standard Time(Asia/Calcutta)

Timer-Based Start of Integration Flows

Timer configuration (2)

Goals

Run an integration flow at a certain point in time

Invoke a Web service to retrieve weather information for a certain city and store it on an SFTP server

Timer Start Event

☐ Run Once

☐ Schedule on Day

☒ Schedule to Recur

Schedule to Recur

Weekly

☐ Monday ☒ Tuesday ☐ Wednesday ☒ Thursday ☐ Friday ☐ Saturday ☐ Sunday

☐ On Time

☒ Every

09:49 AM

4 hr

Between

06:00

and

18:00

Time Zone

(UTC 5:30) India Standard Time(Asia/Calcutta)

Timer-Based Start of Integration Flows

Timer configuration (3)

Goals

Run an integration flow at a certain point in time

Invoke a Web service to retrieve weather information for a certain city and store it on an SFTP server

Timer Start Event

☐ Run Once

☐ Schedule on Day

☒ Schedule to Recur

Schedule to Recur

Daily

☒ On Time

07:00 AM

Timer Start Event

☐ Run Once

☐ Schedule on Day

☒ Schedule to Recur

Schedule to Recur

Weekly

☒ Monday ☒ Tuesday ☒ Wednesday ☒ Thursday ☒ Friday ☐ Saturday ☐ Sunday

☒ On Time

07:00 AM

Timer-Based Start of Integration Flows

Content modifier configuration

Goals

Run an integration flow at a certain point in time

Invoke a Web service to retrieve weather information for a certain city and store it on an SFTP server

The screenshot shows the 'Content Modifier' configuration window in SAP. The 'Message Body' tab is selected, and the 'Body' section contains the following XML code:

```
<p2:GetWeather xmlns:p2="http://www.webserviceX.NET">
  <!--Optional:-->
  <p2:CityName>Hamburg</p2:CityName>
  <!--Optional:-->
  <p2:CountryName>Germany</p2:CountryName>
</p2:GetWeather>
```

Timer-Based Start of Integration Flows

Configuration of SOAP channel

Channel

General

Adapter Specific

General

WS-Security

CONNECTION DETAILS

*Address:

http://www.webservice.net/globalweather.asmx

*Proxy Type:

Internet

▼

URL to WSDL:

/wsdl/globalweather.wsdl

Select

Service:

p1:GlobalWeather

Endpoint:

p1:GlobalWeatherSoap

Operation Name:

p1:GetWeather

Timeout (in ms):

60000

☐ Compress Message

☒ Allow Chunking

☐ Basic Authentication

Private Key Alias:

Timer-Based Start of Integration Flows

Namespace mapping

Goals

Run an integration flow at a certain point in time

Invoke a Web service to retrieve weather information for a certain city and store it on an SFTP server

Integration Flow

PropertiesRuntime ConfigurationError Configuration

Displays the configurations to be used during processing of integration flow at runtime

Product Profile: Tenant Default (SAP HA... ▼

Namespace Mapping: xmlns:p1=http://www.webserviceX.NET

Message Processing Log: All Events ▼

Allowed Header(s):

☐ Enable Debug Trace

Timer-Based Start of Integration Flows

Result message

Goals

Run an integration flow at a certain point in time

Invoke a Web service to retrieve weather information for a certain city and store it on an SFTP server

```
<GetWeatherResponse xmlns="http://www.webserviceX.NET"><GetWeatherResult><?xml version="1.0"
&lt;CurrentWeather&gt;
  <Location&gt;Hamburg-Finkenwerder, Germany (EDHI) 53-32N 009-50E 13M&lt;/Location&gt;
  <Time&gt;Dec 23, 2015 - 11:20 AM EST / 2015.12.23 1620 UTC&lt;/Time&gt;
  <Wind&gt; from the WSW (250 degrees) at 14 MPH (12 KT):0&lt;/Wind&gt;
  <Visibility&gt; greater than 7 mile(s):0&lt;/Visibility&gt;
  <SkyConditions&gt; mostly clear&lt;/SkyConditions&gt;
  <Temperature&gt; 48 F (9 C)&lt;/Temperature&gt;
  <DewPoint&gt; 41 F (5 C)&lt;/DewPoint&gt;
  <RelativeHumidity&gt; 75&lt;/RelativeHumidity&gt;
  <Pressure&gt; 30.18 in. Hg (1022 hPa)&lt;/Pressure&gt;
  <Status&gt;Success&lt;/Status&gt;
&lt;/CurrentWeather&gt;</GetWeatherResult></GetWeatherResponse>
```

Timer-Based Start of Integration Flows

Demo

DEMO

Timer-Based Start of
Integration Flows



Timer-Based Start of Integration Flows

What you've learned in this unit

- How to schedule the execution of an integration flow by defining when the flow has to run
- How to use and maintain the Timer Start Event as a means of scheduling the invocation of the integration flow
- What is necessary to configure the SOAP adapter correctly to invoke external Web services
- Figure out how namespace mappings will help you to work with several Web services at the same time in one integration flow





Thank you

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