

## At the end of this module, you should be able to

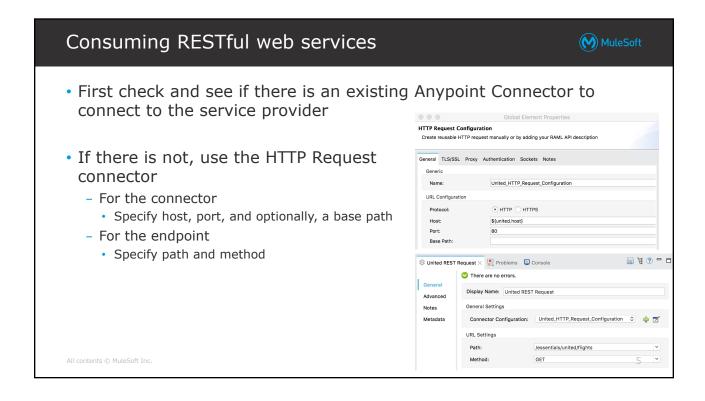


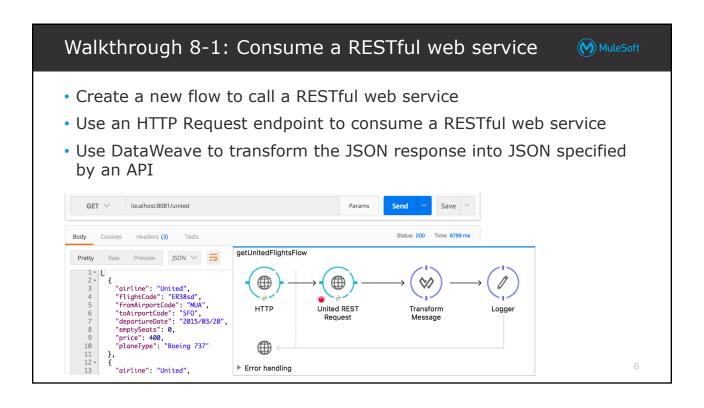
- Consume RESTful web services with and without parameters
- Consume RESTful web services that have RAML definitions
- Consume SOAP web services
- Use DataWeave to pass parameters to SOAP web services

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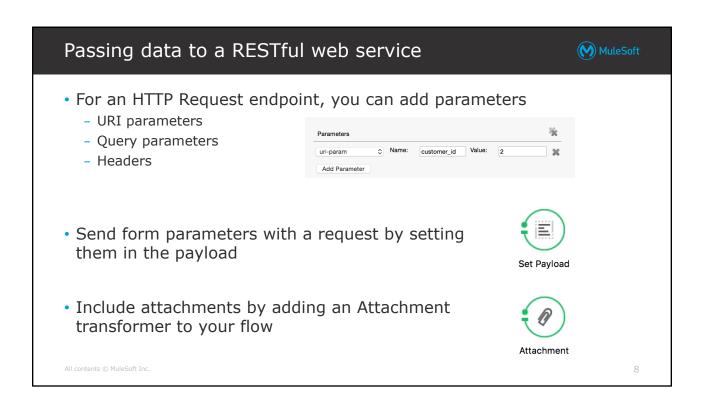
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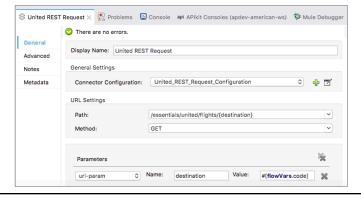
# Walkthrough 8-2: Pass arguments to a RESTful web service



- Modify the HTTP Request endpoint to use a URI parameter
- Set the destination to a static value

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- Create a flow variable to store the value of a query parameter
- Set the URI parameter to the dynamic value of this flow variable

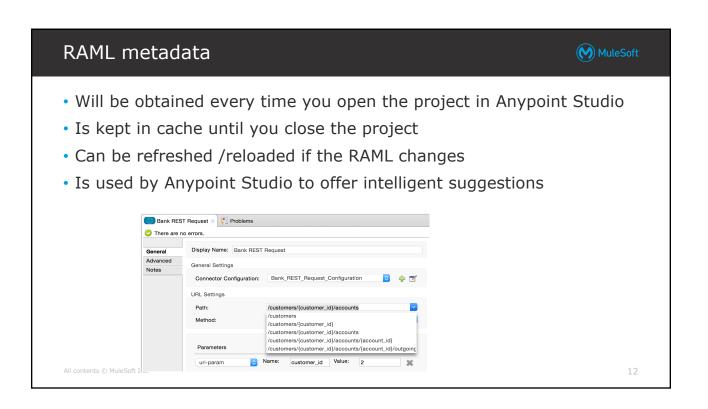




# Consuming RESTful web services that have RAML definitions • A RAML location (local file or external URI) can be specified for an HTTP Request connector • After you specify a RAML location • All fields will be automatically populated based on what's specified in the RAML \*\*The Request Configuration\*\* Create readable HTTP Request Configuration\*\* Create readable HTTP Request Configuration\* Create readable HTTP Request Configuration\* URL Configur

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### Walkthrough 8-3: Consume a RESTful web service MuleSoft that has a RAML definition Create a new flow to call a RESTful web service that has a RAML definition • Select the web service resource from the list provided by Anypoint Studio from the RAML file • Use DataWeave to transform the JSON response into JSON specified by an API localhost:8081/american?code=CLE GET V Headers (3) Tests Raw Preview JSON ✓ 👼 "airline": "American", "flightCode": "eefd0123", "fromAirportCode": "MUA", "toAirportCode": "CLE", "departureDate": "2016-01-25T00:00:00"

"emptySeats": 7,
"totalSeats": 345,
"price": 300,
"planeType": "Boeing 747"

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HTTP

► Error handling

setCodeSubflow

American REST

Transform



### Mule's SOAP support is based on Apache CXF



- CXF is a web services framework in Java for SOAP messaging
- · Handles all serialization and deserialization
- Handles all SOAP envelope and namespace processing
- Developer sees only POJOs, etc. not SOAP XML

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### Consuming SOAP web services



- First check and see if there is an existing Anypoint Connector to connect to the service provider
- If there is not, use the Web Service Consumer connector

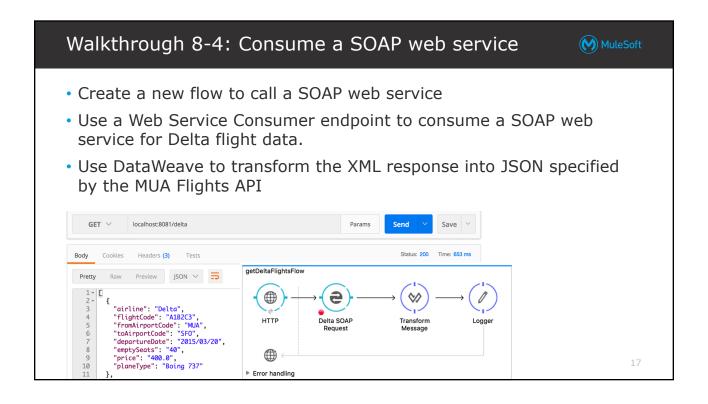


- Provide the location of the WSDL
- The rest will be configured for you: host, port, address, available operations
- If you need more features, use the CXF component
  - Also used to expose an endpoint as a SOAP service

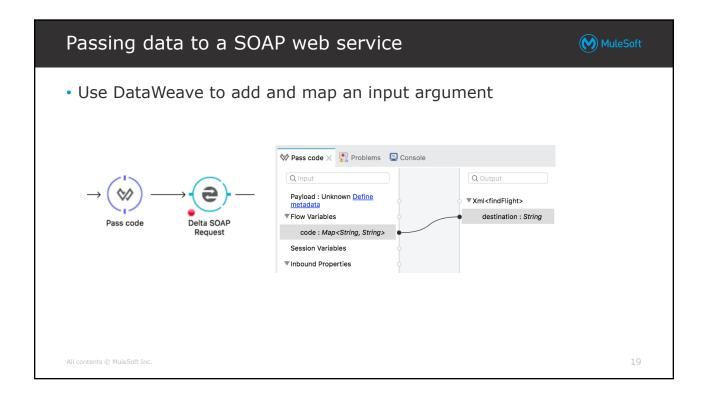


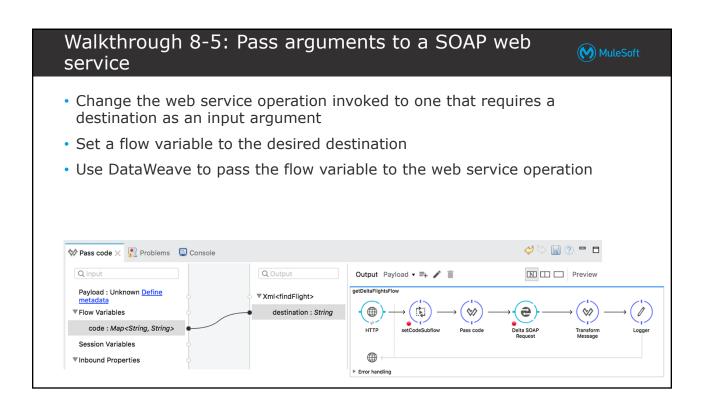
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### Summary



- Use the **HTTP Request** connector to consume REST web services
  - With or without URI parameters and query parameters
  - With or without a RAML definition
- Use the Web Service Consumer connector to consume SOAP web services
- Use the DataWeave Transform Message component to pass arguments to SOAP web services

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