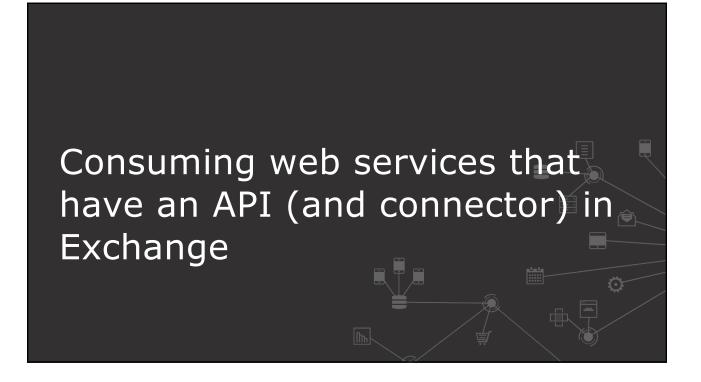


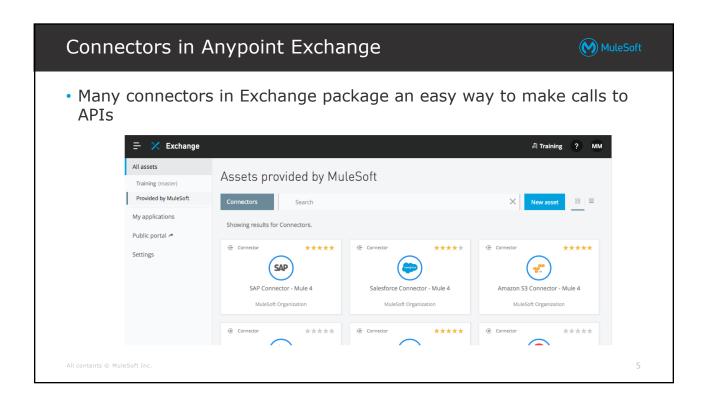
## At the end of this module, you should be able to

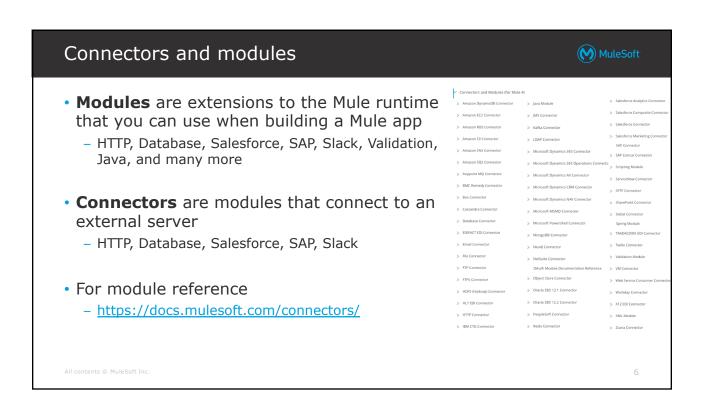


- Consume web services that have an API (and connector) in Exchange
- Consume RESTful web services
- Consume SOAP web services
- Pass parameters to SOAP web services using the Transform Message component
- Transform data from multiple services to a canonical format

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## Connector types specify creator and support level



 The type of selector is specified in its tags on Exchange



	Premium	Select	MuleSoft Certified	Community
Additional cost	Х			
Updated APIs	Х	х		
Fully tested	Х	х		
MuleSoft Support	Tier 1-3	Tier 1-3	Tier 1 (From developer: T2/T3)	Tier 1
Connector examples	HL7 SAP Siebel	Salesforce Workday	AS/400 Oracle JD Edwards Microsoft Azure Storage	LinkedIn Slack

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## Connector support levels



- Tier 1
  - MuleSoft will isolate the problem and diagnose it
- Tier 2
  - MuleSoft will find a workaround
- Tier 3
  - MuleSoft will fix the code

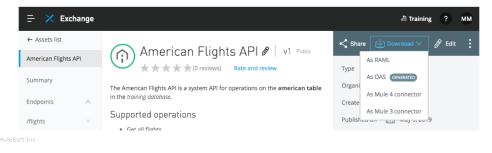
	Premium	Select	MuleSoft Certified	Community
Not included in Platform license	х			
Tier 2-3 Support	х	х		
Tier 1 Support	х	х	х	х

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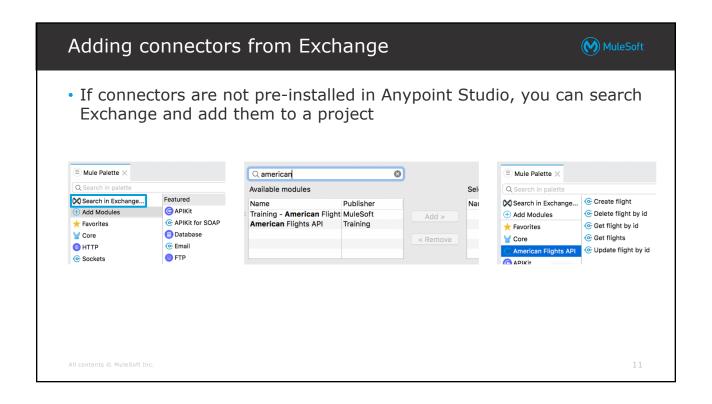
# Connectors are automatically generated for APIs added to Exchange

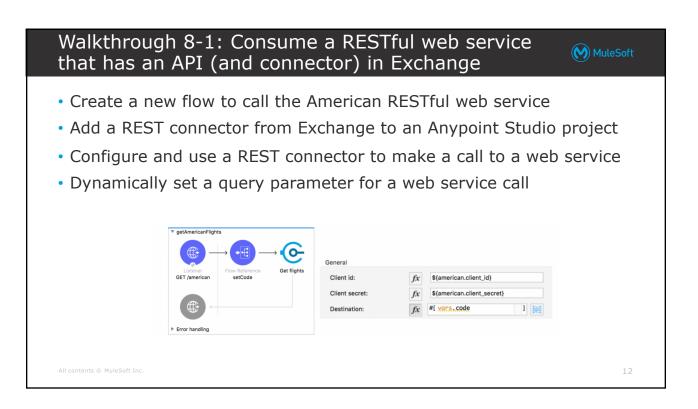


- REST CONNECT is the tool that generates connectors for RESTful APIs
  - Resides in Exchange and automatically invoked when an API is added to Exchange
  - Works for both RAML 1.0 or OAS API specifications added to Exchange
  - Both Mule 3 and Mule 4 connectors are generated
- You can use the connector in Anypoint Studio or Flow Designer
- Download connectors from the download drop-down menu in Exchange

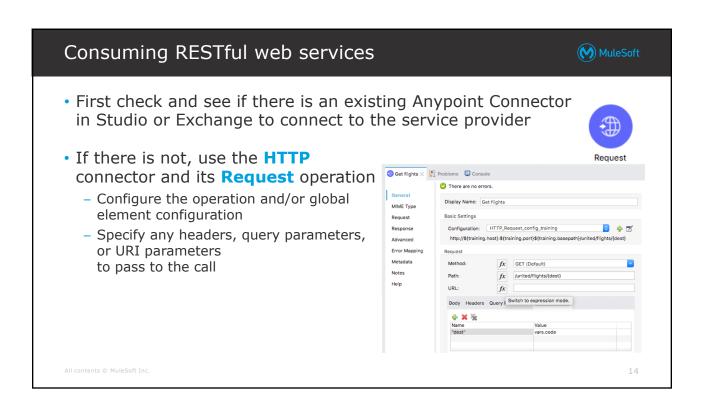


Connectors in Anypoint Studio MuleSoft Some modules are pre-installed in Studio ■ Mule Palette × Q Search in palet - HTTP, Database, Salesforce, Validation, Java Search in Exchange.. Featured (C) APIKit Add Modules Some modules are not pre-installed in Studio APIKit for SOAF \* Favorites Database ✓ Core - SAP, Slack HTTP C Email Sockets ● FTP Generated REST connectors File JMS 👙 Java NetSuite © OAuth C ObjectStore ← SFTP Salesforce Scripting new ServiceNow Spring **⊚** ∨M Validation Web Service Consumer W Workday **⊚** XML



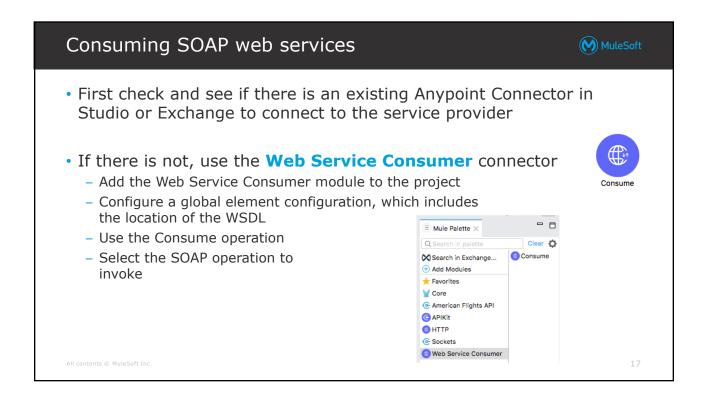


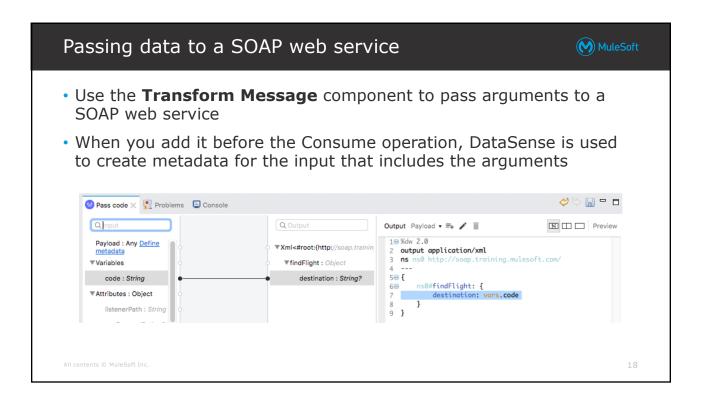




#### Walkthrough 8-2: Consume a RESTful web service MuleSoft Create a new flow to call the United RESTful web service Use the HTTP Request operation to call a RESTful web service • Dynamically set a URI parameter for a web service call Add metadata for an HTTP Request operation's response There are no errors. Input Output Display Name: Get flights MIME Type Request 🖸 💠 🗹 Configuration: HTTP\_Request\_config\_training http://\${training.host}:\${training.port}\${training.basepath}/united/flights/{dest} ▼code String : String Method: $f_X$ /united/flights/{dest}









## Combining data from multiple services



- Data from different services is pretty much always going to be in different formats
- To combine the data sets, you need to transform each of them to a canonical, or standard format
  - In this module, you will use a Java class as the canonical format
  - In module 11, you will learn to use the DataWeave format as a canonical format

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2.1

# Walkthrough 8-4: Transform data from multiple services to a canonical format



- Define a metadata type for the Flight Java class
- Transform the results from RESTful and SOAP web service calls to a collection of Flight objects





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## Summary



- To consume a web service, first look to see if it has a connector in Anypoint Exchange
  - Easiest way to consume a web service
  - Connectors for APIs specifications added to Exchange are generated automatically by REST Connect
- Use the HTTP Request operation to consume any REST web service
  - With or without URI parameters and query parameters
  - With or without a RAML definition
- Use the Web Service Consumer connector to consume any SOAP web service
- Use the Transform Message component to pass arguments to SOAP web services

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