

Informatica Cloud

Fedex Connector

September, 2018

Overview:

Fedex is one of the world's leading shipping companies. The Fedex Connector package enables Informatica Intelligent Cloud Services (IICS) developers to easily incorporate Fedex Package Tracking into their Cloud Application Integration (CAI) projects.

Prerequisites:

- [Fedex Developer Account](#) Credentials
 - Fedex Key
 - Fedex Password
 - Fedex Account Number
 - Fedex Meter Number
- Appropriate role/permissions on Informatica Intelligent Cloud Service to perform an IMPORT operation

Use Case: Get Package Delivery Status for a Single Package

The account credentials are embedded in the service connector, and the process is invoked with just a valid Fedex tracking number. The tracking number and embedded account credentials are sent to Fedex. Upon validation of the account credentials, the tracking number is looked up, and the most recent delivery status for that particular package is returned.

1. Invoke with valid package tracking number
2. Embedded login credentials get validated by Fedex
3. The package tracking number is used to lookup the status of the package
4. Results of the package tracking number lookup
 - a. Success – return selected fields, reflecting the most recent package delivery status
 - b. Failure – return an error message.

Quick Setup

1. Download the [FedexConnectorPackage-0918.zip](#) from [Informatica CAI Github Repository](#).
2. Import the package into your CAI workspace
3. This creates a project named "Fedex" with three assets.
 - a. "Fedex Tracking API" Service Connector
 - b. "Fedex-Tracking-API-Actions" Connection
 - c. "Get Fedex Package Status" Process
4. Add login/account credentials to the "Fedex Tracking API" Service Connector
 - a. Open the "Fedex Tracking API" Service Connector
 - b. Go to the Actions tab
 - c. Go to the Binding tab
 - d. Enter your Fedex developer account credentials in the XML data in the "Body" section for the fields shown.
 - i. `<v14:Key>YourKey</v14:Key>`
 - ii. `<v14:Password>YourPassword</v14:Password>`
 - iii. `<v14:AccountNumber>YourAccountNumber</v14:AccountNumber>`
 - iv. `<v14:MeterNumber>YourMeterNumber</v14:MeterNumber>`
 - e. Save and Publish the Service Connector
5. Publish the "Fedex-Tracking-API-Actions" Connection
6. Publish the "Get Fedex Package Status" process
7. Test the process in your REST tool of choice (Postman, Insomnia, RESTed, etc.)
 - a. Define a POST operation
 - b. Get the Service Address from the "Get Fedex Package Status" properties
 - c. Define the request as type "application/json"
 - d. Configure the body of the request

```
{
  "TrackingNumberInput": <Your Tracking Number>
}
```
 - e. Invoke the operation
 - f. Receive a response that looks like this:

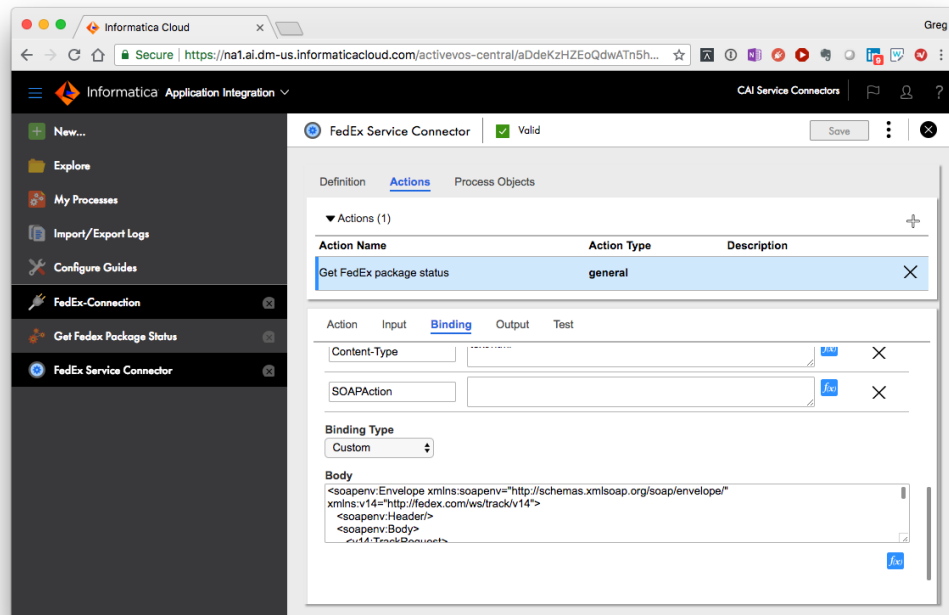
```
{
  "DeliveryStatusOut": "Picked up",
  "CityOut": "ATLANTA",
  "StateOut": "GA",
  "DateTimeDeliveredOut": "2018-08-07T17:13:00-04:00",
  "CarrierOut": "FedEx Express"
}
```

Detailed Setup:

1. Download the [FedexConnectorPackage-0918.zip](#) from [Informatica CAI Github Repository](#).
2. Import the package into your Informatica Intelligent Cloud Service (IICS) using the Import functionality available within IICS.



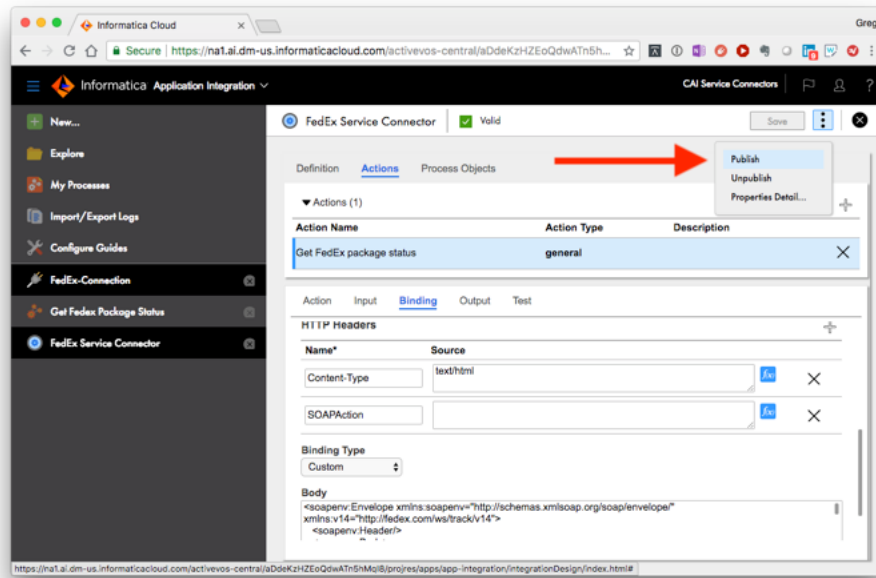
3. Upon completion, the import process will have created a new project named "Fedex" at the root level of your CAI workspace, containing 3 assets.
 - a. "Fedex Tracking API" Service Connector
 - b. "Fedex-Tracking-API-Actions" Connection
 - c. "Get Fedex Package Status" Process
4. Open the "Fedex Tracking API" Service Connector
 - a. Navigate to "Actions"
 - b. Navigate to "Binding"



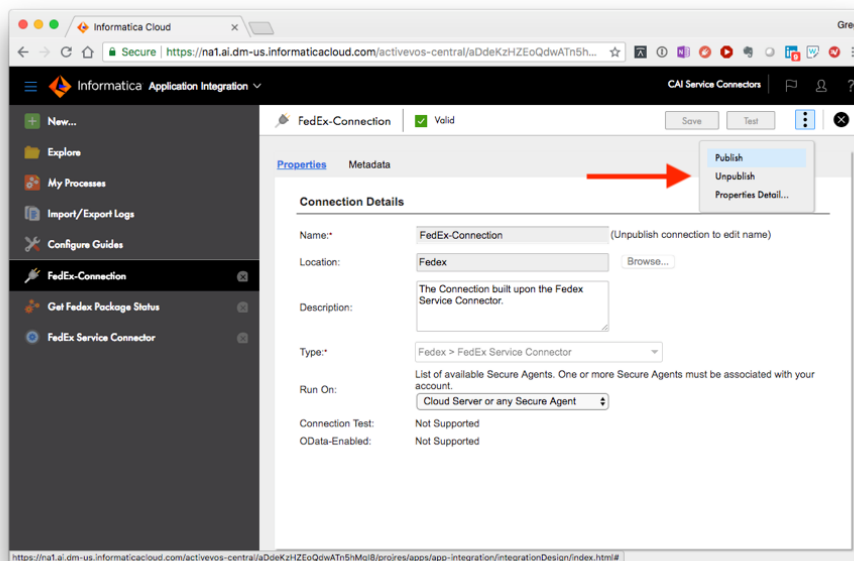
-
- The screenshot shows the Informatica Cloud interface for configuring a FedEx Service Connector. The 'Binding' tab is active, showing the XML body for the 'Get FedEx package status' action. The XML body contains several elements, with red arrows pointing to the 'Key' and 'Password' fields, which are linked to the 'Custom' input section above.
- Custom Input:**
- Key
 - Password
- XML Body:**
- ```
<v14:WebAuthenticationDetail>
 <v14:UserCredential>
 <v14:Key>[Redacted] Key</v14:Key>
 <v14:Password>[Redacted] Password</v14:Password>
 </v14:UserCredential>
</v14:WebAuthenticationDetail>
<v14:ClientDetail>
 <v14:AccountNumber>[Redacted] </v14:AccountNumber>
 <v14:MeterNumber>[Redacted] </v14:MeterNumber>
 <v14:Localization>
 <v14:LanguageCode>EN</v14:LanguageCode>
 <v14:LocaleCode>us</v14:LocaleCode>
 </v14:Localization>
</v14:ClientDetail>
<v14:TransactionDetail>
 <v14:CustomerTransactionId>Basic_TrackRequest_q0_Internal</v14:CustomerTransactionId>
 <v14:Localization>
```

- 
- The screenshot displays the Informatica Cloud Application Integration console. On the left, a sidebar contains navigation links: 'New...', 'Explore', 'My Processes', 'Import/Export Logs', 'Configure Guides', and 'FedEx-Connection'. The main workspace shows the configuration for a 'FedEx Service Connector'. At the top, there's a status bar with a 'Valid' indicator and a 'Save' button, which is highlighted by a red arrow. Below this, the 'Actions' tab is active, showing a table with columns 'Action Name', 'Action Type', and 'Description'. The table lists one action: 'Get FedEx package status' with a 'general' action type. Below the table, the 'Binding' tab is selected, showing 'HTTP Headers' configuration. This includes fields for 'Name\*', 'Source', 'Content-Type', and 'SOAPAction'. The 'Content-Type' is set to 'text/html'. The 'Binding Type' is set to 'Custom'. At the bottom, the 'Body' section shows a SOAP envelope structure in XML format.

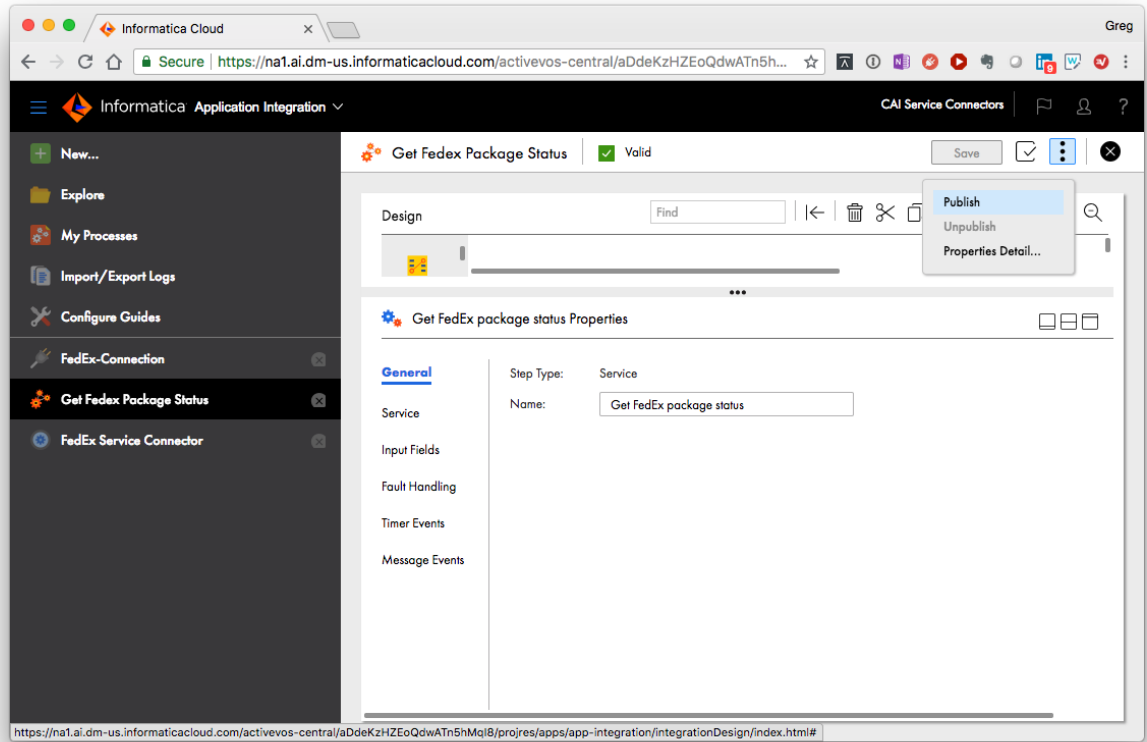
e. Publish this Connector



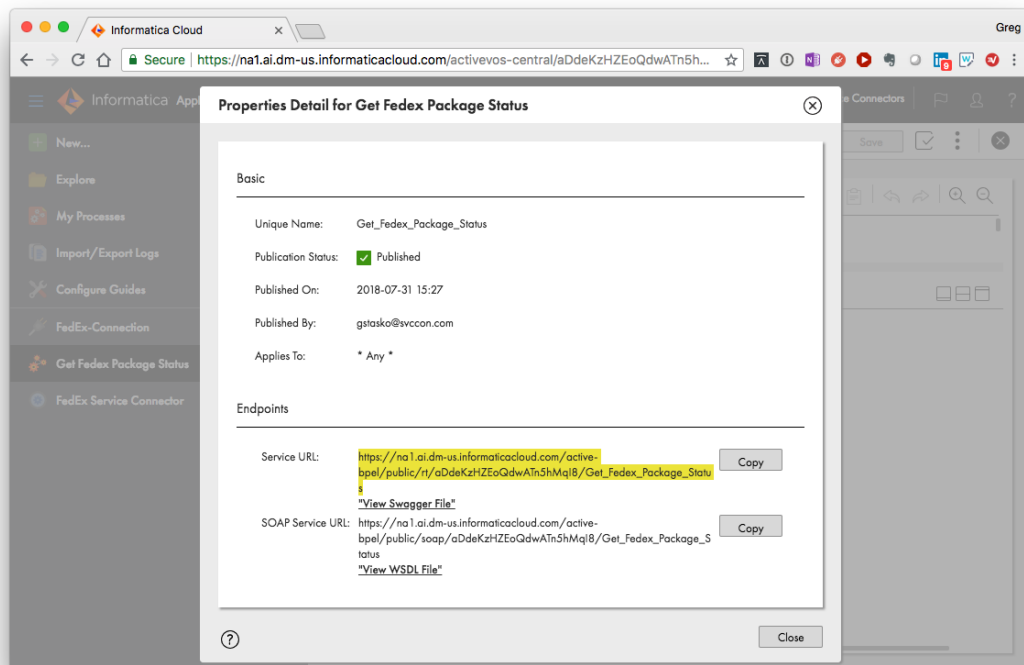
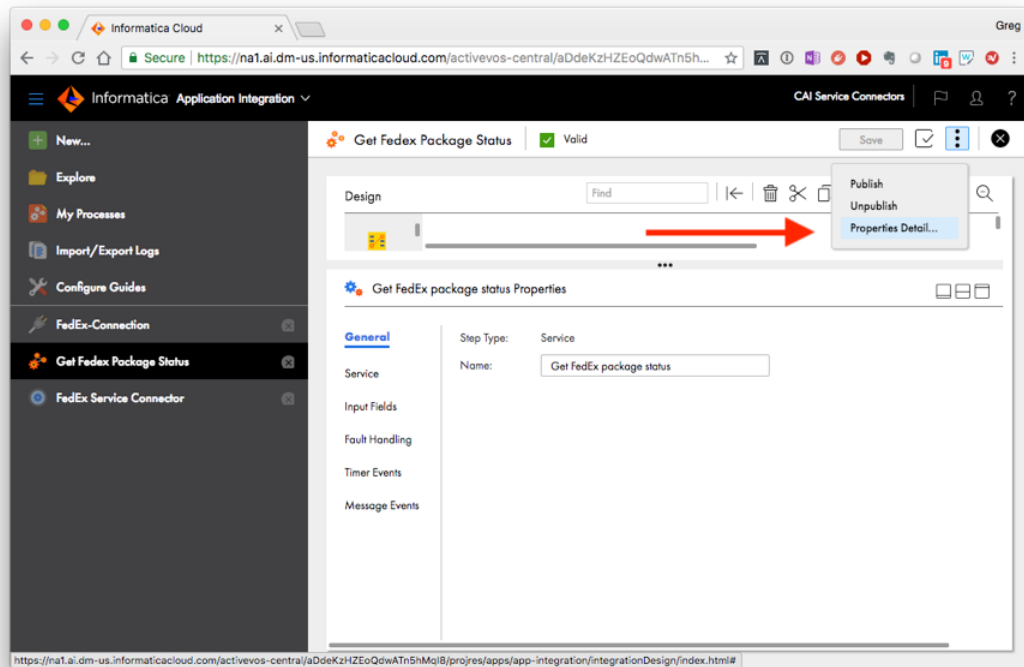
5. Publish the “Fedex-Tracking-API-Actions” Connection



## 6. Publish the "Get Fedex Package Status" Process



7. Get the Service Address from the Properties Detail of the just-published "Get FedEx Package Status" Process



- ## Postman



k. RESTed

The screenshot displays the RESTed application window titled "Fedex SVCCON". The interface is divided into several sections:

- URL Bar:** Shows the URL `https://na1.ai.dm-us.informaticcloud.com/active-bpel/public/rt/aDdeKzHZEOQdwATn5hMql8/Get_Fedex_Packag` with a GET method selected.
- Authorization:** Includes tabs for "Authorization" and "Advanced", and a checkbox for "Follow Redirects".
- Header Table:** A table with columns "Header Field" and "Header Value".
- Parameter Table:** A table with columns "Parameter Name" and "Parameter Value". It contains one entry: "TrackingNumberInput" with a redacted value.
- JSON-encoded:** A checkbox that is currently unchecked.
- Request Headers & Body:** A section showing request headers: "Accept-Encoding: gzip, deflate", "Accept: \*/\*", and "Accept-Language: en-us".
- Response Headers:** A section showing response headers for "HTTP/1.1 200 OK", including "Content-Type: application/json; charset=utf-8", "Content-Encoding: gzip", "Expires: Thu, 01 Jan 1970 00:00:00 UTC", "Cache-Control: no-store, no-cache, must-revalidate", "Date: Thu, 09 Aug 2018 16:01:07 GMT", "Access-Control-Allow-Credentials: true", "Strict-Transport-Security: max-age=31536000; includeSubDomains; preload", "Connection: keep-alive", "Content-Length: 142", "X-InstanceId: 212238770139844608", "Vary: Accept-Encoding", and "X-Frame-Options: SAMEORIGIN".
- Response Body:** A section showing the JSON response body: 

```
{ "DeliveryStatusOut": "Picked up", "CityOut": "ATLANTA", "StateOut": "GA", "DateTimesDeliveredOut": "2018-08-07T17:13:00-04:00", "CarrierOut": "FedEx Express"}
```
- Footer:** Includes a "Send Request" button and a "Parameters | HTTP Body" tab.