

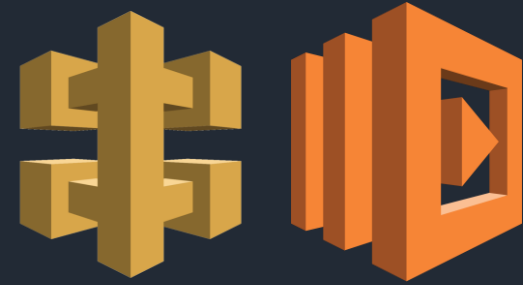
# Demo of a LIXI API for processing LIXI messages

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LIXI

# The LIXI API Template



GitLab



AWS API Gateway  
+ AWS Lambda

# Features of the LIXI API

Validate a messages

Download schemas

Download schema documentation

Translate messages between version of LIXI2

Check a message for deprecated Items

Customise a schema

Upload a message to storage

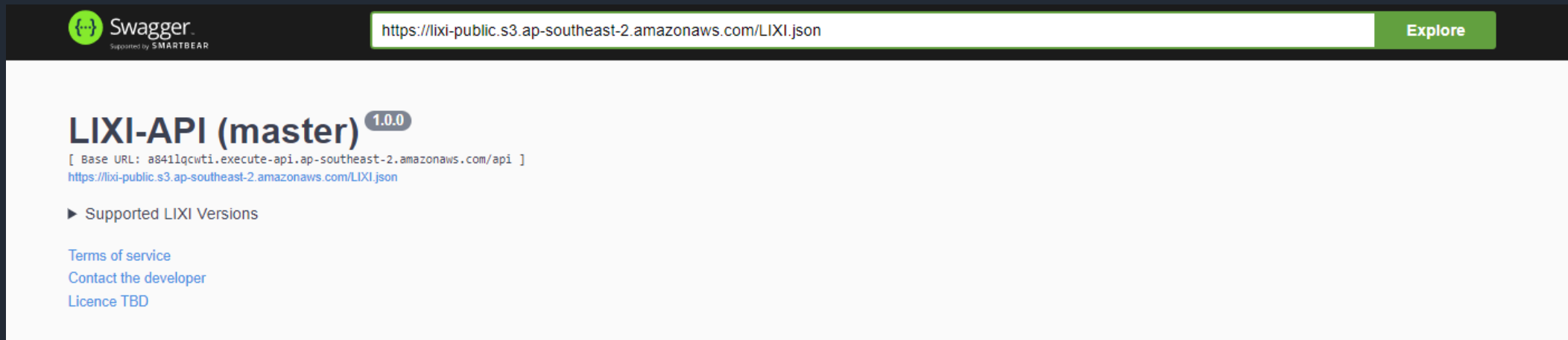
# Accessing the LIXI API Demo

Open API Specification available here:

<https://lix-public.s3.ap-southeast-2.amazonaws.com/LIXI.json>

View using the Swagger UI: <https://petstore.swagger.io>

Contact me for an API key: [john.matthews@lix.org.au](mailto:john.matthews@lix.org.au)



The screenshot shows the Swagger UI interface. At the top left is the Swagger logo with the text "Supported by SMARTBEAR". In the center, the API URL "https://lix-public.s3.ap-southeast-2.amazonaws.com/LIXI.json" is entered in a search bar. To the right of the search bar is a green "Explore" button. Below the search bar, the API title "LIXI-API (master)" is displayed with a "1.0.0" version tag. Underneath the title, the base URL is shown: "[ Base URL: a8411qcwrti.execute-api.ap-southeast-2.amazonaws.com/api ]" and the full API URL "https://lix-public.s3.ap-southeast-2.amazonaws.com/LIXI.json". A section titled "Supported LIXI Versions" is visible, followed by links for "Terms of service", "Contact the developer", and "Licence TBD".

# Validate a LIXI Message

This function will validate a LIXI2 message of any supported LIXI2 version or transaction type.

The function will interpret the message to determine the LIXI schema to use for validation.

## Validate

**POST** /validate Validate the request body against the correct LIXI schema

This function will validate the request body against the correct LIXI schema by re...

### Parameters

| Name  | Description  |
|---|--|
| <b>x-api-key</b> * required<br>string<br>(header) | The API key associated with this project<br><i>Default value</i> : IrrnpThRnN5zrdqMRB92F9WSyxWEhAklaFv |
| <b>body</b> * required<br>string<br>(body)        | The LIXI message to be validated<br><a href="#">Example Value</a>   <a href="#">Model</a>              |

```
<Package>
<Instructions>
<ApplicationInstructions>
<Update>
<Event Name="Comment" DateTime="2019-09-03T06:58:22.580298
</Update>
</ApplicationInstructions>
</Instructions>
<Publisher CompanyName="LIXI" LIXIcode="LIXILIXI"/>
<Recipient LIXIcode="LIXILIXI"/>
<SchemaVersion LIXITransactionType="CAL" LIXIVersion="2.6.
</Package>
```

Parameter content type

# Download LIXI Schemas

This function will return a specified LIXI transaction schema.

The schema can be returned as a single XSD file or returned as a .zip including HTML documentation.

The version can be specified, otherwise the latest schema version will be returned.

## Download

**GET** /download/{transaction} Download the latest version of a transa

**GET** /download/{transaction}/{version} Download a specific ver

### Parameters

| Name  | Description   |
|---|---|
| <b>x-api-key</b> * required<br>string<br>(header) | The API key associated with this project<br><br>Default value : IrrnpThRnN5zrdqMRB92F9WSyxV |
| <b>transaction</b> * required<br>string<br>(path) | LIXI transaction schema type code associated with<br><br>Default value : CAL                |
| <b>version</b> * required<br>string<br>(path)     | LIXI transaction schema version number associated with<br><br>Default value : 2.6.21        |
| document<br>string<br>(query)                     | Documentation will be generated and returned as<br><br>Default value : true                 |

# Transform between Versions

This function will transform a LIXI message from one LIXI version to another LIXI version.

The function will interpret the message to determine its LIXI version and convert the message to the specified version.

## Transform

**POST** /transform Transform the request body to the latest LIXI version for this

**POST** /transform/{version} Transform the request body to the specified

To modify this function to use your own XSL Transformation, replace the template fil

### Parameters

| Name   | Description  |
|--|--|
| <b>x-api-key</b> * required<br>string<br>(header)                | The API key associated with this project<br><br>Default value : IrrnpThRnN5zrdqMRB92F9WSyxWEhA |
| <input type="text" value="IrrnpThRnN5zrdqMRB92F9WSyxWEhAKIaFv"/> |  |
| <b>version</b> * required<br>string<br>(path)                    | LIXI transaction schema version number associated with<br><br>Default value : 2.6.21           |
| <input type="text" value="2.6.21"/>                              |  |
| <b>body</b> * required<br>string<br>(body)                       | The LIXI message to be transformed and returned<br><br>Example Value   Model                   |
| <input type="text" value="string"/>                              |  |

# Rules Engine

This function will validate a LIXI message against a Schematron rule sheet.

The rule sheet will check whether any LIXI schema items that have been deprecated are used in the message.

## Rules Engine

**POST** /rulesengine Validate the request body against a schematron rule sheet

Validates the uploaded LIXI message against a schematron rule sheet. The default rule sheet is the one associated with the project.

### Parameters

| Name  | Description   |
|---|---|
| <b>x-api-key</b> * required<br>string<br>(header) | The API key associated with this project<br><i>Default value</i> : IrrmpThRnN5zrdqMRB92F9WSyxWEhA |
| <b>body</b> * required<br>string<br>(body)        | The LIXI message to be validated<br>Example Value   Model   |

Parameter content type: text/plain



# Customise the LIXI schema

This function will customise a LIXI schema according to a set of customisation instructions provided in the request.

The customised schema will be returned as a single XSD file or returned as a .zip including HTML documentation.

## Customise

**POST** /customise/{transaction} Customise the latest version of a LIXI schema according to a set of customisation instructions

**POST** /customise/{transaction}/{version} Customise a specified version of a LIXI schema according to a set of customisation instructions

### Parameters

| Name   | Description  |
|--|--|
| <b>x-api-key</b> * required<br>string<br>(header)                | The API key associated with this project<br><i>Default value</i> : IrrnpThRnN5zrdqMRB92F9WSyxWEhAkIaFwaOYUwx |
| <input type="text" value="IrrnpThRnN5zrdqMRB92F9WSyxWEhAkIaFv"/> |  |
| <b>transaction</b> * required<br>string<br>(path)                | LIXI transaction schema type code associated with this project<br><i>Default value</i> : CAL                 |
| <input type="text" value="CAL"/>                                 |  |
| <b>version</b> * required<br>string<br>(path)                    | LIXI transaction schema version number associated with this project<br><i>Default value</i> : 2.6.21         |
| <input type="text" value="2.6.21"/>                              |  |
| document<br>string<br>(query)                                    | Documentation will be generated and returned as a .zip file<br><i>Default value</i> : true                   |
| <input type="text" value="true"/>                                |  |
| <b>body</b> * required<br>string<br>(body)                       | The LIXI customisation instructions<br><i>Example Value</i>   <i>Model</i>                                   |

# Upload a LIXI Message

This function will upload a LIXI message to storage.

An AWS S3 bucket in the same account as the API itself must be specified.

This function is intended to be used in your own implementation of the LIXI API Template.

## Upload

**POST** /upload/{bucket}/{directory}/{filename} Upload the required LIXI message to storage.

Parameters

| Name  | Description  |
|---|--|
| <b>x-api-key</b> * required<br>string<br>(header) | The API key associated with this project<br><i>Default value</i> : IrrnpThRnN5zrdqMRB92F9WSyxWEh |
| <b>bucket</b> * required<br>string<br>(path)      | <i>Default value</i> : my-lixo-bucket  |
| <b>directory</b> * required<br>string<br>(path)   | <i>Default value</i> : my-directory  |
| <b>filename</b> * required<br>string<br>(path)    | <i>Default value</i> : my-filename.txt   |
| <b>body</b> * required<br>string<br>(body)        | The LIXI message to be uploaded<br><a href="#">Example Value</a>   <a href="#">Model</a>         |

# How to Deploy a LIXI API

Step-by-step instruction can be found on LIXI Lab:

<https://standards.lixi.org.au/lixi2/API-Template>

1. Open an AWS account
2. Open a GitLab.com account
3. Create a new GitLab project (Import the LIXI API Template files)
4. Set the GitLab Project Variables with your AWS credentials
5. Run a GitLab pipeline to deploy the API