SOAP for Kong

Support for the Legacy

PURPOSE

MS³ created a SOAP Support Package for the Kong Konnect Platform to assist companies who need to continue to provide full-support legacy services while moving forward to a modernized Konnected platform.

These plugins have been developed with over a decade of industry expertise in service delivery and valid customer use cases collected and implemented for support.

WSDL Dao

USE CASE OF THE PLUGIN:

Currently, Kong does not manage or store the SOAP definition from the WSDL specification. The WSDL DAO plugin handles and modifies the WSDL for total support within Kong Gateway, Portal, and Admin API.

FEATURES:

- Extends the admin API to store WSDL & Schema files
- Validates WSDL files to ensure proper XML format
- Locates external <import> and <include> documents and creates a schema DAO item with foreign key pointing to the primary WSDL record
- Ability to update existing WSDL definitions propagated in Kong using PATCH

WSDL Provider

USE CASE OF THE PLUGIN:

When SOAP service consumers want to ingest the WSDL contract, automation tooling supports building out the scaffolding. With an API gateway, the hosting service is not directly accessible and imports within a WSDL for data models are not accessible. The WSDL Provider addresses this need.

FEATURES:

- Allows for WSDL and Schema files of specific services to be accessible by Kong's proxy via its route path
- Actively swaps out the upstream address for the Kong proxy address and vice-versa for all requests/responses

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SOAP Request Validation

USE CASE OF THE PLUGIN:

Failure identification is important to happen at the earliest point of a service call. With this, the SOAP Validation plugin will provide the ability to do multiple validation options, SOAPAction, Full message validation, and head level validation. In addition, this plugin provides an obfuscator for SOAP Fault messages that will hide ugly stack traces that can be returned accidentally by legacy or poorly designed SOAP services.

FEATURES:

- Validates request bodies against a given schema from a WSDL file
- Validates proper SOAPAction for the inbound message
- Optionally obfuscates SOAP fault messages in response body to remove sensitive information

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Legacy Mullet Plugin

USE CASE OF THE PLUGIN:

As organizations strive to move into modernized service delivery, such as REST and gRPC, legacy services need to be re-written to make the change. The Legacy Mullet Plugin provides the capability to have REST and gRPC based APIs for consumers while transforming and mapping the requests to appropriate SOAP service calls in the backend.

FEATURES:

- Publication of REST and gRPC based specifications to consumers
- Admin updates to provide service mapping capabilities
- Data Transformation tooling that transform JSON to SOAP messaging
- Response message mapping from SOAP Faults to Status Codes

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DataSonnet and Java PDK

USE CASE OF THE PLUGIN:

The Java PDK provides the ability to leverage the compiled capabilities of Java to harness the power of Kong. This provides the ability to leverage DataSonnet for complex nested data transformations in line with the API call to eliminate the need for ESB-based tooling for direct connect services.

FEATURES:

- Java framework that supports compiled plugin execution
- DataSonnet Framework support with DataSonnet Playground for building out complex data transformations with ease

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