

ADAMS

Advanced **D**ata mining **A**nd **M**achine learning **S**ystem

Module: adams-groovy-webservice



Peter Reutemann

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THE UNIVERSITY OF
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Te Whare Wānanga o Waikato



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Chapter 1

Introduction

The *adams-groovy-webservice* module is a very light-weight module, which allows you to query webservices using the Groovy[3] scripting language. It is merely aimed at providing client-side support, not for implementing the server-side of webservices. If you want to also implement the server-side, you should take a look at the *adams-webservice* module.

As underlying library it uses the *groovy-wslite*[2] library.

Chapter 2

Flow

In order to use webservices, you can simply use the existing Groovy actors that are available from the *adams-groovy* module. In these actors, you need to import the groovy-wslite classes as follows:

```
import wslite.soap.*
```

And in the `doExecute` method, you instantiate the client and query the web-service.

Below is an example of querying a webservice for NZ public holidays holidays¹ in 2020:

```
def client = new SOAPClient('https://kayaposoft.com/enrico/ws/v2.0/index.php')
def response = client.send(SOAPAction:'https://kayaposoft.com/enrico/ws/v2.0/index.php') {
  body {
    getHolidaysForYear('xmlns':'http://www.kayaposoft.com/enrico/ws/v2.0/') {
      year(2020) // year
      country("nz") // New Zealand
      region("wko") // Waikato
      holidayType("public_holiday") // the type
    }
  }
}
```

This example is also used in the example flow *adams-groovy-webservice_nzholidays.flow* and the groovy script *adams-groovy-webservice_nzholidays.groovy*.

¹<http://kayaposoft.com/enrico/ws/>

Bibliography

- [1] *ADAMS* – Advanced Data mining and Machine learning System
<https://adams.cms.waikato.ac.nz/>
- [2] *groovy-wslite* – Library for Groovy that provides no-frills SOAP and REST
webservice clients.
<https://github.com/jwagenleitner/groovy-wslite>
- [3] *Groovy* – An agile dynamic language for the Java Platform
<http://www.groovy-lang.org/>