

# ADAMS

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

Module: adams-groovy-webservice



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December 2, 2021

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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 holidays<sup>1</sup> 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*.

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<sup>1</sup><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/>