

# WADL extension

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## Introduction

## Description

### Indicate schema relative to an XML representation

#### A bit of theory

Quoting the WADL specification:

```
The "grammars" element acts as a container for definitions of the format of data exchanged during execution of the protocol described by the WADL document. Such definitions may be included inline or by reference using the include element.
```

For example:

```
<grammars>
  <include href="NewsSearchResponse.xsd"/>
  <include href="Error.xsd"/>
</grammars>
```

NOTE

NB: at this time, the WADL extension of the Restlet framework supports only "included" and not "inline" schemas via the GrammarsInfo#includes attribute.

Then, for XML-based representations, the "element" attribute specifies the qualified name of the root element as described within the grammars section.

For example:

```
<representation mediaType="application/xml" element="yn:ResultSet"/>
```

Assuming that the "yn" namespace is declared in the document:

```
<application [...] xmlns:yn="urn:yahoo:yn" >
```

### Implementation with Restlet

At the level of the subclass of WadlApplication, override the getApplicationInfo method:

```
@Override
public ApplicationInfo getApplicationInfo(Request request, Response response) {
    ApplicationInfo appInfo = super.getApplicationInfo(request, response);
    appInfo.getNamespaces().put("urn:yahoo:yn", "yn");
    GrammarsInfo grammar = new GrammarsInfo();
    IncludeInfo include = new IncludeInfo();
    include.setTargetRef(new Reference("NewsSearchResponse.xsd"));
    grammar.getIncludes().add(include);
    appInfo.setGrammars(grammar);
    return appInfo;
}
```

Then, at the level of the subclass of WadlResource, update the RepresentationInfo#element attribute:

```
RepresentationInfo formRepresentation = new RepresentationInfo();  
formRepresentation.setXmlElement("yn:ResultSet");
```