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Genesys Rules System Deployment Guide

Rule Execution

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Rule Execution

The Rules Engine accepts REST requests from clients through a configured port. Clients that want to execute a rule package will connect to this port and send an HTTP POST message to:

`http: //{server-address:port}/{server-id}/knowledgebase/{packageName}`

This port is configured in the GRE application. See [Installing the GRE Component](#) for more information about how to configure this port.

The `server-id` is a configured value for the server and is not examined for the request. The `packageName` corresponds to the already deployed rule package that is to be evaluated.

The body of the HTTP request contains a knowledgebase request in either XML or JSON format. If JSON is used, the Content-Type HTTP header must be set to `application/json`. A successful response will contain a knowledgebase response message that contains the results of the evaluation.

The following schema defines the body of both the knowledgebase request and knowledgebase response message bodies.

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema" elementFormDefault="qualified"
attributeFormDefault="unqualified">
    <xs:element name="knowledgebase-request">
        <xs:complexType>
            <xs:sequence>
                <xs:element name="globals" type="globals" minOccurs="0"
maxOccurs="1"/>
                <xs:element name="inFacts" type="inFacts" minOccurs="0"
maxOccurs="1"/>
                <xs:element name="inOutFacts" type="inOutFacts"
minOccurs="0" maxOccurs="1"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element name="knowledgebase-response">
        <xs:complexType>
            <xs:sequence>
                <xs:element name="globals" type="globals" minOccurs="0"
maxOccurs="1"/>
                <xs:element name="outFacts" type="outFacts" minOccurs="0"
maxOccurs="1"/>
                <xs:element name="inOutFacts" type="inOutFacts" minOccurs="0"
maxOccurs="1"/>
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:complexType name="globals">
        <xs:element name="named-fact" type="named-fact" maxOccurs="unbounded"/>
    </xs:complexType>
</xs:schema>
```

```

</xs:complexType>
<xs:complexType name="inFacts">
  <xs:group ref="factGroup" maxOccurs="unbounded"/>
</xs:complexType>
<xs:complexType name="inOutFacts">
  <xs:group ref="factGroup" maxOccurs="unbounded"/>
</xs:complexType>
<xs:complexType name="outFacts">
  <xs:group ref="factGroup" maxOccurs="unbounded"/>
</xs:complexType>

<xs:group name="factGroup">
  <xs:choice>
    <xs:element name="named-fact"/>
    <xs:element name="anon-fact"/>
  </xs:choice>
</xs:group>

<xs:complexType name="named-fact">
  <xs:sequence>
    <xs:element name="id" type="id"/>
    <xs:element name="fact" type="fact"/>
  </xs:sequence>
</xs:complexType>

<xs:simpleType name="id">
  <xs:annotation>
    <xs:documentation>The identifier for a named fact</xs:documentation>
  </xs:annotation>
  <xs:restriction base="xs:string"/>
</xs:simpleType>

<xs:complexType name="anon-fact">
  <xs:sequence>
    <xs:element name="fact" type="fact"/>
  </xs:sequence>
</xs:complexType>

<xs:complexType name="fact">
  <xs:annotation>
    <xs:documentation>Contained elements are named after the fields of
the class
referred to by the class attribute. Element values are the values of
the fields
</xs:documentation>
  </xs:annotation>
  <xs:attribute name="class" use="required">
    <xs:simpleType>
      <xs:restriction base="xs:string">
        <xs:pattern value="\c+(\.\c+)*"/>
      </xs:restriction>
    </xs:simpleType>
  </xs:attribute>
</xs:complexType>
</xs:schema>

```
