

# 4.0 APPENDIX D Metadata

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## 4.0 APPENDIX D Metadata

### Appendix D: Contents

#### 4.1 WADL File

```
<?xml version="1.0" encoding="UTF-8"?>
<application xmlns="http://wadl.dev.java.net/2009/02">
  <doc
    jersey:generatedBy="Jersey: 1.12 02/15/2012 04:51 PM"
    xmlns:jersey="http://jersey.java.net/" />
  <doc
    title="Groundwork Foundation Rest API"
    xml:lang="en"><![CDATA[
  ]]><h3
    xmlns:ns2="http://wadl.dev.java.net/2009/02"
    xmlns="">Groundwork Foundation Rest API Metadata</h3><![CDATA[
  ]]><p
    xmlns:ns2="http://wadl.dev.java.net/2009/02"
    xmlns="">
    The Groundwork Foundation REST API for performing query and administrative operations
    on monitored entities in the Groundwork enterprise foundation server.
  </p><![CDATA[
  ]]>
  <p
    xmlns:ns2="http://wadl.dev.java.net/2009/02"
    xmlns="">
    Operations supported are of the categories:
  <ul>
  <li>lookup operations - lookup entities by their primary key host name</li>
  <li>list operations - list all entities in the system, with optional depth and paging parameters</li>
  <li>query operations - query for entities using an object query language with optional depth and
    paging
    parameters
  </li>
  <li>post operations - administrative batch operations to add or update entities. Works with lists of
    one
    or more entities
  </li>
  <li>delete operations - administrative batch operations to delete entities. Works with lists of one or
    more entities
  </li>
  </ul>
  </p>
  <![CDATA[
  ]]><p
    xmlns:ns2="http://wadl.dev.java.net/2009/02"
    xmlns="">
    Note that post and delete operations are not transactional. If a list of 10 entities are passed in to
    be
    added, and
    if, for example, two entities fail to update, the other eight entities will still be persisted. The
    results
    for all
    post and delete operations return the same DtoOperationResults list of DtoOperationResult (see XML
    schema),
    holding
    the result (success, failure, warning) of each sub-operation.
```

```

</p><![CDATA[
The Rest API supports retrieval operations (lookup,list,query) of up to three depths, depending on the
particular API:
]]>
<ul
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="">
<li>shallow - return all attributes and properties</li>
<li>deep - returns all shallow attributes and properties, plus all associated elements and lists of
elements
at shallow depth
</li>
<li>simple - names and descriptions only</li>
</ul>
<![CDATA[
]]>
</doc>
<grammars>
<include
href="xsd0.xsd"/>
</grammars>
<resources
base="http://localhost/api">
<resource
path="/autoRegister">
<resource
path="/registerAgent">
<method id="registerAgent"
name="POST">
<request>
<representation
mediaType="application/x-www-form-urlencoded">
<param
name="username" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="password" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="agent-type" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="host-name" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="host-ip" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="host-mac" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="operating-system" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="host-characteristic" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</representation>
</request>
</response>
<representation
mediaType="application/xml"/>
</response>

```

```
</method>
</resource>
<resource
  path="/registerAgentByProfile">
  <method
    id="registerAgentByProfile"
    name="POST">
    <request>
    <representation
      mediaType="application/x-www-form-urlencoded">
      <param
        name="username" style="query"
        type="xs:string"
        xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
      <param
        name="password" style="query"
        type="xs:string"
        xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
      <param
        name="agent-type" style="query"
        type="xs:string"
        xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
      <param
        name="host-name" style="query"
        type="xs:string"
        xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
      <param
        name="host-ip" style="query"
        type="xs:string"
        xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
      <param
        name="host-mac" style="query"
        type="xs:string"
        xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
      <param
        name="operating-system" style="query"
        type="xs:string"
        xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
      <param
        name="host-profile-name" style="query"
        type="xs:string"
        xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
      <param
        name="service-profile-name"
        style="query" type="xs:string"
        xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
      </representation>
    </request>
    <response>
    <representation
      mediaType="application/xml"/>
    </response>
    </method>
  </resource>
</resource>
<resource
  path="/services">
  <method id="getServices"
    name="GET">
    <request>
    <param name="query"
      style="query" type="xs:string"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
    <param
      name="first" style="query" type="xs:int"
      default="-1"
      xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
    <param
      name="count" style="query" type="xs:int"
      default="-1"
```

```
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
</response>
<ns2:representation
element="services" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="services"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<method
id="createServices"
name="POST">
<request>
<ns2:representation
element="services" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="services"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</request>
</response>
<ns2:representation
element="results" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="results"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<method
id="deleteServicesWithUpdate"
name="DELETE">
<request>
<ns2:representation
element="services" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="services"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</request>
</response>
<ns2:representation
element="results" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="results"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<resource
path="/{serviceName}">
<param name="serviceName"
style="template" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<method
id="getService" name="GET">
<request>
<param
```

```
name="hostName" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
<response>
<ns2:representation
element="service"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="service"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
<resource
path="{serviceNames}">
<param name="serviceNames"
style="template" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<method
id="deleteServices" name="DELETE">
<request>
<param
name="hostName" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
<response>
<ns2:representation
element="results"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="results"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
</resource>
<resource
path="/performanceData">
<resource path="/post">
<method
id="postPerfData"
name="POST">
<request>
<representation
mediaType="application/x-www-form-urlencoded">
<param
name="username" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="password" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="dataInJSONFormat" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</representation>
</request>
</response>
```

```
<representation
mediaType="application/xml"/>
</response>
</method>
</resource>
</resource>
<resource
path="/hostgroups">
<method id="getHostGroups"
name="GET">
<request>
<param name="query"
style="query" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="depth" style="query" type="xs:string"
default="Shallow"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="first" style="query" type="xs:int"
default="-1"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="count" style="query" type="xs:int"
default="-1"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
<response>
<ns2:representation
element="hostGroups" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="hostGroups"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<method
id="createHostGroups"
name="POST">
<request>
<ns2:representation
element="hostGroups" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="hostGroups"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</request>
<response>
<ns2:representation
element="results" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="results"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<method
id="deleteHostGroups" name="DELETE">
<request>
<param
name="clear" style="query" type="xs:string"
default="false"
```

```
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<ns2:representation
element="hostGroups" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="hostGroups"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</request>
<response>
<ns2:representation
element="results" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="results"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<resource
path="{hostGroup_name}">
<param
name="hostGroup_name" style="template"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<method
id="getHostGroup" name="GET">
<request>
<param
name="depth" style="query" type="xs:string"
default="Shallow"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
<response>
<ns2:representation
element="hostGroup"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="hostGroup"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
<resource
path="{hostGroupNames}">
<param
name="hostGroupNames" style="template"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<method
id="removeHostGroup" name="DELETE">
<request>
<param
name="clear" style="query" type="xs:string"
default="false"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
<response>
<ns2:representation
element="results"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
```

```
<ns2:representation
element="results"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
</resource>
<resource
path="/vemaProfile">
<resource
path="/checkUpdates">
<method id="checkUpdates"
name="POST">
<request>
<representation
mediaType="application/x-www-form-urlencoded">
<param
name="username" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="password" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="vmtype" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="client-monitoring-profile"
style="query" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</representation>
</request>
</response>
<representation
mediaType="application/xml"/>
</response>
</method>
</resource>
</resource>
<resource
path="/noma">
<resource path="/notifyHost">
<method
id="notifyHost" name="POST">
<request>
<representation
mediaType="application/x-www-form-urlencoded">
<param
name="username" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="password" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="hoststate" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="hostname" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="hostgroupnames" style="query"
type="xs:string"
```



```
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="notificationtype" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="hostaddress" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="hostoutput" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="shortdatetime" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="hostnotificationid" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="notificationauthoralias"
style="query" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="notificationcomment" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="notificationrecipients"
style="query" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</representation>
</request>
<response>
<representation
mediaType="application/xml"/>
</response>
</method>
</resource>
<resource
path="/notifyService">
<method id="notifyService"
name="POST">
<request>
<representation
mediaType="application/x-www-form-urlencoded">
<param
name="username" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="password" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="servicestate" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="hostname" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="hostgroupnames" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="servicegroupnames" style="query"
```

```
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="servicedescription" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="serviceoutput" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="notificationtype" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="hostalias" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="hostaddress" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="shortdatetime" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="servicenotificationid"
style="query" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="notificationauthoralias"
style="query" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="notificationcomment" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="notificationrecipients"
style="query" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</representation>
</request>
<response>
<representation
mediaType="application/xml"/>
</response>
</method>
</resource>
</resource>
<resource
path="/devices">
<method id="getDevices"
name="GET">
<request>
<param name="query"
style="query" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="depth" style="query" type="xs:string"
default="Shallow"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="first" style="query" type="xs:int"
default="-1"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="count" style="query" type="xs:int"
default="-1"
```

```
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
<response>
<ns2:representation
element="devices" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="devices"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<method id="createDevices"
name="POST">
<request>
<ns2:representation
element="devices" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="devices"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</request>
<response>
<ns2:representation
element="results" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="results"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<method
id="deleteDevicesWithUpdate"
name="DELETE">
<request>
<ns2:representation
element="devices" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="devices"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</request>
<response>
<ns2:representation
element="results" mediaType="*/*"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<resource
path="{device_name}">
<param name="device_name"
style="template" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<method
id="getDevice" name="GET">
<request>
<param
name="depth" style="query" type="xs:string"
default="Shallow"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
<response>
```

```
<ns2:representation
element="device" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="device"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
<resource
path="{deviceIdentificationList}">
<param
name="deviceIdentificationList" style="template"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<method
id="deleteDevices"
name="DELETE">
<response>
<ns2:representation
element="results"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="results"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
</resource>
<resource
path="/events">
<method id="getEvents"
name="GET">
<request>
<param name="query"
style="query" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="first" style="query" type="xs:int"
default="-1"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="count" style="query" type="xs:int"
default="-1"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
<response>
<ns2:representation
element="events" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="events"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<method id="createEvents"
name="POST">
<request>
<ns2:representation
element="events" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
```

```
xmlns="" />
<ns2:representation element="events"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</request>
<response>
<ns2:representation
element="results" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="results"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<resource
path="/{eventIds : (\d+)(,\s*\d+)*}">
<param
name="eventIds" style="template" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<method
id="getEventsByIds" name="GET">
<request>
<param
name="first" style="query" type="xs:int"
default="-1"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="count" style="query" type="xs:int"
default="-1"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
<response>
<ns2:representation
element="events" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="events"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<method
id="updateEventsStatus" name="PUT">
<request>
<param
name="opStatus" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="updatedBy" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="comments" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
<response>
<ns2:representation
element="results"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="results"
```

```
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<method
id="deleteEvents"
name="DELETE">
<response>
<representation
mediaType="application/xml"/>
<representation
mediaType="application/json"/>
</response>
</method>
</resource>
</resource>
<resource
path="/graphs">
<method id="getGraphs"
name="GET">
<request>
<param
name="applicationType" style="query"
type="xs:string" default="NAGIOS"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="hostName" style="query" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="serviceName" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="startDate" style="query" type="xs:long"
default="-1"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="endDate" style="query" type="xs:long"
default="-1"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="graphWidth" style="query" type="xs:int"
default="-1"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
<response>
<ns2:representation
element="graphs" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="graphs"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
<resource
path="/hosts">
<method id="getHosts"
name="GET">
<request>
<param name="query"
style="query" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="depth" style="query" type="xs:string"
default="Shallow"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
```

```

<param
name="first" style="query" type="xs:int"
default="-1"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="count" style="query" type="xs:int"
default="-1"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
<response>
<ns2:representation
element="hosts" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="hosts"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<method id="createHosts"
name="POST">
<request>
<ns2:representation
element="hosts" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="hosts"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</request>
<response>
<ns2:representation
element="results" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="results"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<method
id="deleteHostsWithHostUpdate"
name="DELETE">
<request>
<ns2:representation
element="host" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="host"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</request>
<response>
<ns2:representation
element="results" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="results"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<resource
path="/{host_name}">
<param name="host_name"

```

```
style="template" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<method
id="getHost" name="GET">
<request>
<param name="depth"
style="query" type="xs:string"
default="Shallow"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
<response>
<ns2:representation
element="host" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="host"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
<resource
path="/{hostNames}">
<param name="hostNames"
style="template" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<method
id="deleteHosts"
name="DELETE">
<response>
<ns2:representation
element="results"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="results"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
</resource>
<resource
path="/eventGeneration">
<resource
path="/generateBulkEvents">
<method
id="generateBulkEvents"
name="POST">
<request>
<representation
mediaType="application/x-www-form-urlencoded">
<param
name="username" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="password" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="dataInJSONFormat" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</representation>
</request>
<response>
```



```

<representation
mediaType="application/xml"/>
</response>
</method>
</resource>
</resource>
<resource
path="/uploadProfiles">
<resource path="/upload">
<method
id="upload" name="POST">
<request>
<representation
mediaType="application/x-www-form-urlencoded">
<param
name="username" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="password" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="appServerName" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="mbeanAtts" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</representation>
</request>
<response>
<representation
mediaType="application/xml"/>
</response>
</method>
</resource>
</resource>
<resource
path="/categories">
<method id="getCategories"
name="GET">
<request>
<param name="query"
style="query" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="depth" style="query" type="xs:string"
default="Shallow"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="first" style="query" type="xs:int"
default="-1"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="count" style="query" type="xs:int"
default="-1"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
<response>
<ns2:representation
element="categories" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="categories"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />

```

```

</response>
</method>
<method
id="createCategories"
name="POST">
<request>
<ns2:representation
element="categories" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="categories"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</request>
<response>
<ns2:representation
element="results" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation element="results"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<method
id="deleteCategoriesWithUpdate"
name="DELETE">
<request>
<ns2:representation
element="categories" mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="categories"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</request>
<response>
<ns2:representation
element="results" mediaType="*/*"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
<resource
path="/{categoryName}">
<param name="categoryName"
style="template" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<method
id="getCategory" name="GET">
<request>
<param
name="entityType" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="depth" style="query" type="xs:string"
default="Shallow"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
<response>
<ns2:representation
element="category"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"

```

```
xmlns="" />
<ns2:representation
element="category"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
<resource
path="{categoryNameList}">
<param
name="categoryNameList" style="template"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<method
id="deleteCategories"
name="DELETE">
<response>
<ns2:representation
element="results"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="results"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
</resource>
<resource
path="/statistics">
<resource
path="/hosts/{hostNames}">
<param name="hostNames"
style="template" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<method
id="getHostStatisticsByNames"
name="GET">
<response>
<ns2:representation
element="statistic"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="statistic"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
<resource
path="/totals/hosts">
<method
id="getHostTotalStatistics"
name="GET">
<response>
<ns2:representation
element="statistic"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="statistic"
```

```
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
<resource
path="/hostgroups/{hostGroupNames}">
<param
name="hostGroupNames" style="template"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<method
id="getHostGroupStatisticsByName"
name="GET">
<response>
<ns2:representation
element="statistics"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="statistics"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
<resource
path="/hostgroups">
<method
id="getHostGroupStatistics"
name="GET">
<response>
<ns2:representation
element="statistics"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="statistics"
mediaType="
lication/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
<resource
path="/services">
<method id="getServiceStatistics"
name="GET">
<response>
<ns2:representation
element="statistics"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="statistics"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
<resource
path="/services/hosts/{hostNames}">
<param
```

```
name="hostNames" style="template" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<method
id="getServiceStatisticsByHostNames"
name="GET">
<response>
<ns2:representation
element="statistics"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="statistics"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
<resource
path="/services/hostgroups/{hostGroupNames}">
<param
name="hostGroupNames" style="template"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<method
id="getServiceStatisticsByHostGroupNames"
name="GET">
<response>
<ns2:representation
element="statistics"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="statistics"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
<resource
path="/services/servicegroups/{serviceGroupNames}">
<param
name="serviceGroupNames" style="template"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<method
id="getServiceStatisticsByServiceGroupNames"
name="GET">
<response>
<ns2:representation
element="statistics"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="statistics"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
<resource
path="/services/servicegroups">
<method
id="getServiceStatisticsByServiceGroups"
name="GET">
```

```
<response>
<ns2:representation
element="statistics"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="statistics"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
<resource
path="/totals/services">
<method
id="getServiceStatisticsTotals"
name="GET">
<response>
<ns2:representation
element="statistic"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="statistic"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
<resource
path="/availability/hosts">
<method
id="getHostAvailabilityForHostGroup"
name="GET">
<request>
<param name="hostGroup"
style="query" type="xs:string" default=""
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
<response>
<ns2:representation
element="statistic"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="statistic"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
<resource
path="/availability/services">
<method
id="getServiceAvailability"
name="GET">
<request>
<param name="hostGroup"
style="query" type="xs:string" default=""
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="serviceGroup" style="query"
type="xs:string" default=""
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
```

```
</request>
<response>
<ns2:representation
element="statistic"
mediaType="application/xml"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
<ns2:representation
element="statistic"
mediaType="application/json"
xmlns:ns2="http://wadl.dev.java.net/2009/02"
xmlns="" />
</response>
</method>
</resource>
</resource>
<resource
path="/pluginUpdates">
<resource
path="/findUpdates">
<method id="findUpdates"
name="GET">
<request>
<param name="platform"
style="query" type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="arch" style="query" type="xs:int"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
<param
name="lastUpdateTimestamp" style="query"
type="xs:string"
xmlns:xs="http://www.w3.org/2001/XMLSchema"/>
</request>
<response>
<representation
mediaType="application/xml"/>
</response>
</method>
</resource>
</resource>
<resource
path="/meta">
<resource path="/wadl">
<method
id="downloadWADL"
name="GET">
<response>
<representation
mediaType="application/xml"/>
</response>
</method>
</resource>
<resource
path="/xsd">
<method id="downloadXSD"
name="GET">
<response>
<representation mediaType="application/xml"/>
</response>
</method>
</resource>
</resource>
```

```
</resources>
</application>
```

## 4.2 XSD Schema

(toc)

```
<?xml version="1.0" standalone="yes"?>
<xs:schema version="1.0" xmlns:xs="http://www.w3.org/2001/XMLSchema">

<xs:element name="applicationType" type="dtoApplicationType"/>

<xs:element name="categories" type="dtoCategoryList"/>

<xs:element name="category" type="dtoCategory"/>

<xs:element name="categoryEntity" type="dtoCategoryEntity"/>

<xs:element name="checkType" type="dtoCheckType"/>

<xs:element name="device" type="dtoDevice"/>

<xs:element name="devices" type="dtoDeviceList"/>

<xs:element name="entityType" type="dtoEntityType"/>

<xs:element name="event" type="dtoEvent"/>

<xs:element name="events" type="dtoEventList"/>

<xs:element name="graph" type="dtoGraph"/>

<xs:element name="graphs" type="dtoGraphList"/>

<xs:element name="host" type="dtoHost"/>

<xs:element name="hostGroup" type="dtoHostGroup"/>

<xs:element name="hostGroups" type="dtoHostGroupList"/>

<xs:element name="hostStatus" type="dtoHostStatus"/>

<xs:element name="hosts" type="dtoHostList"/>

<xs:element name="monitorServer" type="dtoMonitorServer"/>

<xs:element name="monitorStatus" type="dtoMonitorStatus"/>

<xs:element name="property" type="dtoProperty"/>

<xs:element name="results" type="dtoOperationResults"/>

<xs:element name="service" type="dtoService"/>

<xs:element name="services" type="dtoServiceList"/>

<xs:element name="stateType" type="dtoStateType"/>

<xs:element name="statistic" nillable="true" type="xs:anyType"/>

<xs:element name="statistics" type="dtoStateStatisticList"/>

<xs:complexType name="dtoHostList">
<xs:sequence>
<xs:element ref="host" minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>
```



```

<xs:complexType name="dtoHost">
<xs:complexContent>
<xs:extension base="dtoPropertiesBase">
<xs:sequence>
<xs:element ref="device" minOccurs="0"/>
<xs:element ref="hostStatus" minOccurs="0"/>
<xs:element name="services" minOccurs="0">
<xs:complexType>
<xs:sequence>
<xs:element ref="service" minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="hostGroups" minOccurs="0">
<xs:complexType>
<xs:sequence>
<xs:element ref="hostGroup" minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element ref="applicationType" minOccurs="0"/>
<xs:element name="statistics" minOccurs="0">
<xs:complexType>
<xs:sequence>
<xs:element name="statistic" type="dtoStatistic" minOccurs="0" maxOccurs="unbounded"/>
</xs:sequence>
</xs:complexType>
</xs:element>
</xs:sequence>
<xs:attribute name="id" type="xs:int"/>
<xs:attribute name="hostName" type="xs:string"/>
<xs:attribute name="description" type="xs:string"/>
<xs:attribute name="monitorStatus" type="xs:string"/>
<xs:attribute name="appType" type="xs:string"/>
<xs:attribute name="deviceIdentification" type="xs:string"/>
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