SOAP Documentation

Anthill Pro provides a SOAP-based, web services facade to enable third-party and user-created applications to cleanly integrate. The SOAP interface, available at launch, will provide a number of lookup utilities to provide information on system state, project progress, and current activity. Also, as standard build and deploy web services vocabularies evolve in the Eclipse Application Life-Cycle Framework project, this SOAP interface will provide whatever functionality is specified.

Using the Interface

The simplest way to use the SOAP interface may be to create a Java integration using the SOAP WSDL. The WSDL provides utilities to look up the anthill3 server, and models for the data types and requests. It is the mechanism Eclipse plug-ins use to provide AnthillPro data to the Eclipse IDE. These classes are detailed in the AnthillPro SOAP WSDL. It is available at SOAP WSDL on the **Developer Tools** page.

If you would like to use SOAP, please contact [http://support.urbancode.com/] support.

For example, using Groovy you can call the client jar with something like this:

```
import com.urbancode.anthill3.integration.*
** Assumes you have a standard properties file here with at least
** these 3 properties:
** user = <username>
** password = <password>
* *
  url = <http://host:port>
* /
def filename = "${System.properties['user.home']}/.anthill/properties"
def props = new Properties()
new File(filename).withInputStream { props.load(it) }
def dashboard = new DashboardServiceLocator("${props['url']}/services/Dashboard?wsdl"
   new javax.xml.namespace.QName('integration.anthill3.urbancode.com', 'DashboardService')
   getDashboard(new URL("${props['url']}/services/Dashboard"))
dashboard.getMyProjects(props['user'], props['password']).each { proj->
   println "name: ${proj.name}, id: ${proj.name}"
  println "workflows:"
   dashboard.getProjectWorkflows(props['user'], props['password'], proj.id).each { wf->
      println "\t${wf.name}"
}
```

Create Your Own

Web services are great because the standard interface allows any team to create its own application using the technologies of their choice. As an example, here is a small Ruby program that looks up the **getRecentWork-flowActivity operation**:

```
require 'soap/wsdlDriver'
include SOAP
wsdl_file = 'http://localhost:8080/services/Dashboard?wsdl'
username = ARGV[0]
```

And building a project is just as easy:

```
require 'soap/wsdlDriver'
include SOAP
wsdl_file = 'http://localhost:8080/services/Dashboard?wsdl'
username = ARGV[0]
password = ARGV[1]
projectId = ARGV[2]
workflowId = ARGV[3]
force = ARGV[4]
# Load WSDL and create driver
factory = SOAP::WSDLDriverFactory.new(wsdl_file)
ws = factory.create_rpc_driver
# ws.wiredump_dev = STDOUT
ws.buildProject(username, password, projectId, workflowId, force)
```

Operations Supported by the Interface

Most of the operations supported by this interface are used to lookup recent build-life activity. The exceptions are the operations that run originating and non-originating workflows. The operations supported are detailed below.

getProjectRequest

AnthillPro responds to this request by looking up the appropriate project and returning a ProjectFacade for it. This is used to lookup the name for projects.

- Parameters:
 - Username
 - Password
 - Project Id

- Response (getProjectResponse):
 - ProjectFacade

getWorkflowServerGroupsRequest

Requests a list of ServerGroups that this user may run a given workflow on.

- Parameters:
 - Username
 - Password
 - Workflow Id
- Response (getWorkflowServerGroupsResponse):
 - An array of ServerGroupFacades (ArrayOfServerGroupFacade)

getRecentWorkflowActivityRequest

Requests a listing of the most recent workflows that have been executed.

- Parameters:
 - Username
 - Password
 - Count. An integer detailing the number of workflow activity items requested.
- Response (getRecentWorkflowActivityResponse):
 - An array of WorkflowActivityFacades (ArrayOfWorkflowActivityFacade)

getRecentActivityForProjectRequest

Requests a listing of the most recent workflows that have been executed for a given project.

- Parameters:
 - Username
 - Password
 - Count. An integer detailing the number of workflow activity items requested.
- Response (getRecentActivityForProjectResponse):

• An array of WorkflowActivityFacades (ArrayOfWorkflowActivityFacade)

getRecentActivityForWorkflowRequest

Requests a listing of the most recent workflows that have been executed for a given workflow.

- Parameters:
 - Username
 - Password
 - Workflow Id
 - Count. An integer detailing the number of workflow activity items requested.
- Response (getRecentActivityForWorkflowResponse):
 - An array of WorkflowActivityFacades (ArrayOfWorkflowActivityFacade)

getMyProjectsRequest

Requests a listing of projects a user has access to.

- Parameters:
 - Username
 - Password
- Response(getMyProjectsResponse):
 - An array of ProjectFacades (ArrayOfProjectFacade)

runWorkflowRequest

Triggers the specified non-originating workflow to run. To use this, you must identify the build life the workflow should be run against as well as the server group to run the workflow on.

- Parameters:
 - Username
 - Password
 - Build Life Id
 - Workflow Id

- Environment Id
- Response(runWorkflowResponse):
 - This response is just an acknowledgement that the request has been received.

buildProjectRequest

Triggers the specified originating workflow to run for the specified project. The force flag instructs it to continue running even if there are no changes detected in source control.

- Parameters:
 - Username
 - Password
 - Project Id
 - Workflow Id
 - Force Build (boolean)
- Response (buildProjectResponse):
 - This response is just an acknowledgement that the request has been received.

Available Objects

All data retrieved through the SOAP interface will be exposed as one of the following objects. There are a set of provided Java classes that model these items. Of course, they can be modeled using the tools of your choice.

WorkflowFacade. A named workflow for a project.

Field Name	Туре	Description
id	String	The internal id for the workflow.
name	String	The name of the workflow.
originating	Boolean	True if the workflow is originating.
projectId	String	The internal id of the project.

WorkflowActivityFacade. The record of an executed workflow.

Field Name	Туре	Description
buildLifeId	String	The internal id for the build life.
caseId	String	The internal id of the workflow case.
date	String	The date the workflow was run.
latestStamp	String	The most recent stamp applied to this build life.
latestStatus	String	The most recent status attained by this build life.
projectId	String	The internal id of the workflow executed.
ProjectName	String	The name of the project the workflow was executed on.
workflowId	String	The internal id of the workflow executed.
workflowId	String	The human readable name of the workflow executed.

ServerGroupFacade. The name and id of a server group.

Field Name	Туре	Description
id	String	The internal id for a server group.
name	String	The name of a server group.

ProjectFacade. The name and id of a project.

Field Name	Туре	Description
id	String	The internal id for a project.
name	String	The name of a project.

Note

The WSDL exposes each of these object types collected in the form of an array as well.