

Automic JAVA API

A Simple Getting Started

Brendan Sapience – bsp@automic.com

Our Goal with this getting started

- Showing what resources are needed to use the API
- Writing a short Java program in order to:
 - Connect to an Automatic (AE) instance
 - List all existing Folders and existing Objects for your Client

Why are we doing it?

Because anything can be automated with the Java API in Automic

- It is **fully** supported
- It is **fully** documented

What do we need?

- ❑ Access to an Atomic Environment
- ❑ Access to the Atomic rich GUI binaries
- ❑ Java JRE or JDK 1.7+ installed. Find it [here](#)
- ❑ Any JAVA IDE (Integrated Development Environment)
 - This getting started uses Eclipse. Find it [here](#)

Our Process through this getting started

Step 1
Retrieve the Sample Code

Step 2
Import the Code

Step 3
Run the Code

Step 1

Retrieve the Sample Code

Go to public repository: <https://github.com/brendanSapience/UC4-Automic-Java-API-Getting-Started>

Alternatively: You can clone the git repository locally by using the “clone” command in Git.

Step 1

Retrieve the Sample Code

Click on the Download section:

Getting Started with the UC4 / Automatic Java API — Edit

2 commits 1 branch 0 releases 1 contributor

branch: master UC4-Automic-Java-API-Getting-Started / +

porting codebase to github

brendan Sapience authored 5 minutes ago latest commit 03c08d23f1

.settings	porting codebase to github	5 minutes ago
src/com/automic	porting codebase to github	5 minutes ago
.classpath	porting codebase to github	5 minutes ago
.gitignore	Initial commit	7 minutes ago
.project	porting codebase to github	5 minutes ago
README.md	Initial commit	7 minutes ago

README.md

UC4-Automic-Java-API-Getting-Started

Getting Started with the UC4 / Automatic Java API

<> Code

Issues 0

Pull Requests 0

Wiki

Pulse

Graphs

Settings

HTTPS clone URL

<https://github.com/>

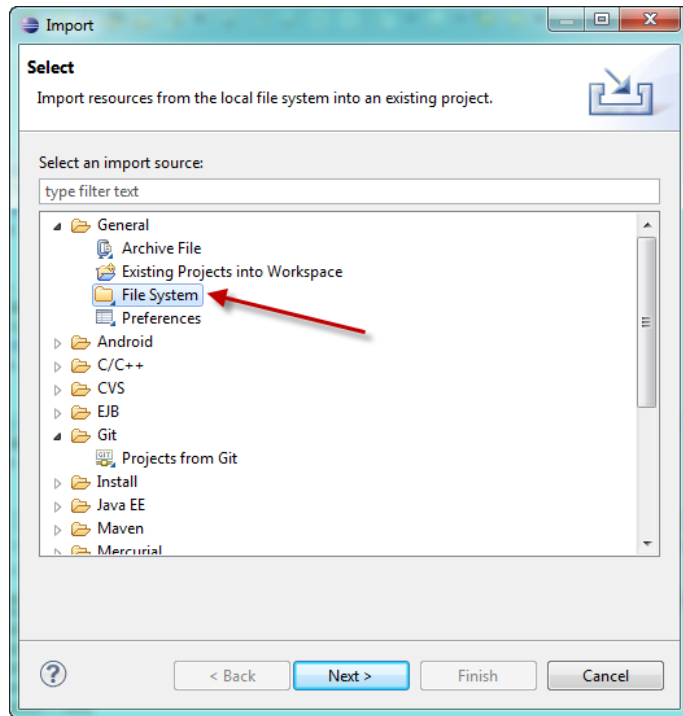
You can clone with HTTPS, SSH, or Subversion.

Clone in Desktop

Download ZIP

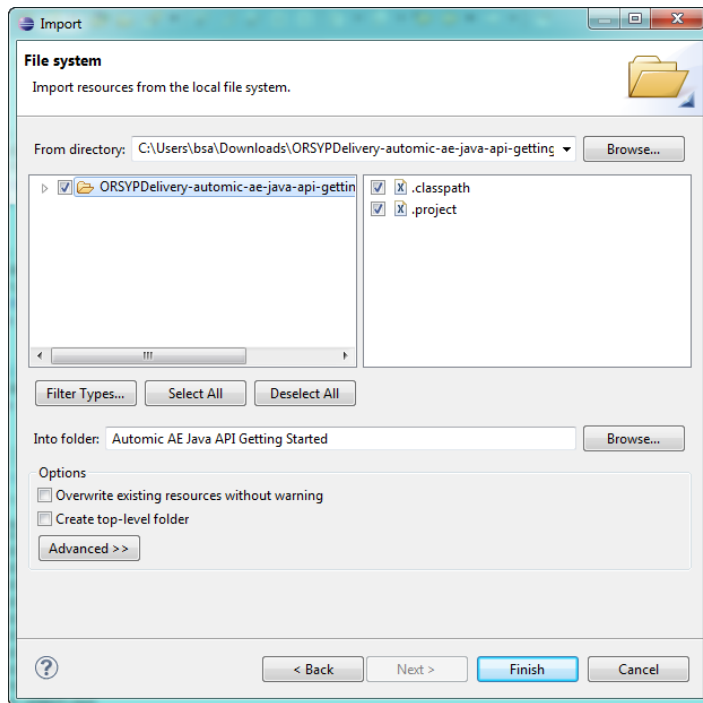
Step 2 Import the Code

In Eclipse: File -> Import.
Under General, pick “File System”



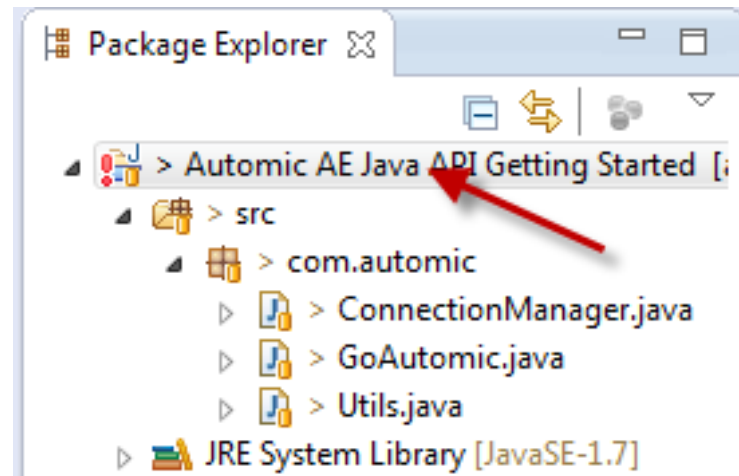
Step 2 Import the Code

Import the folder downloaded in Step 1



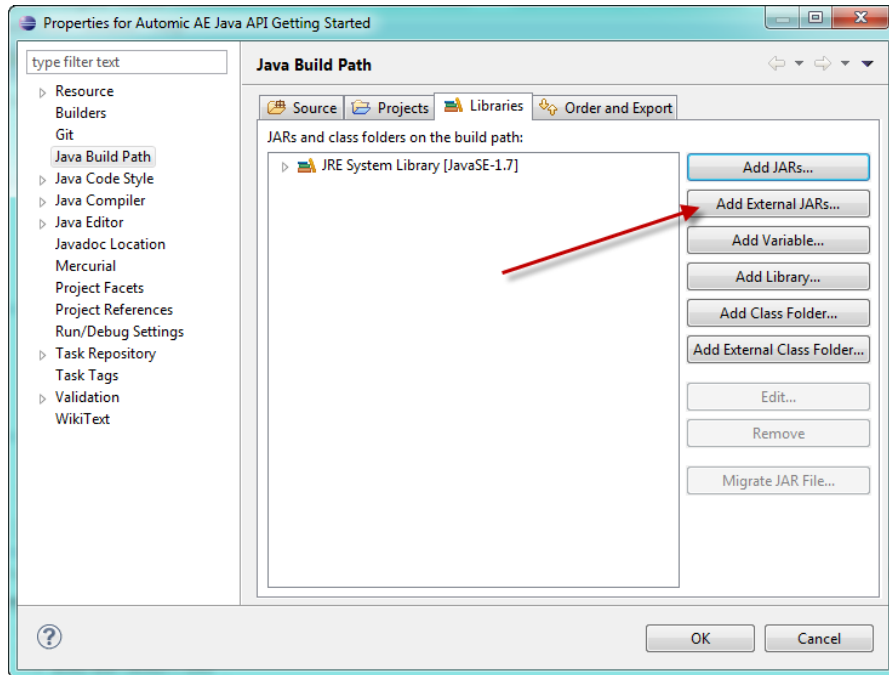
Step 2 Import the Code

Right click on the project name,
Then click “Properties”



Step 2 Import the Code

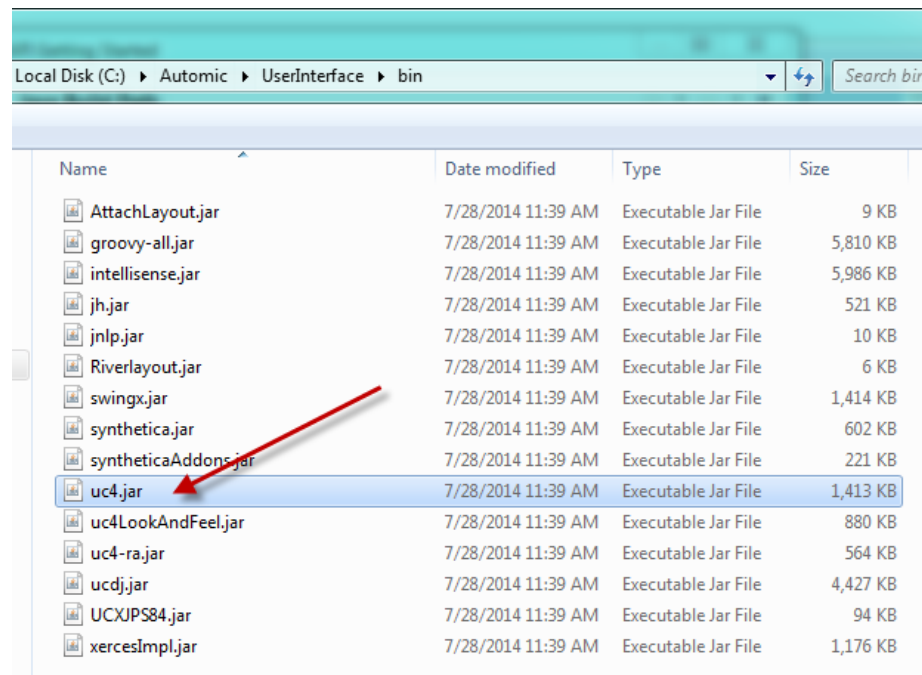
Under Java Build Path -> Libraries,
Click “Add External JARs”



Step 2

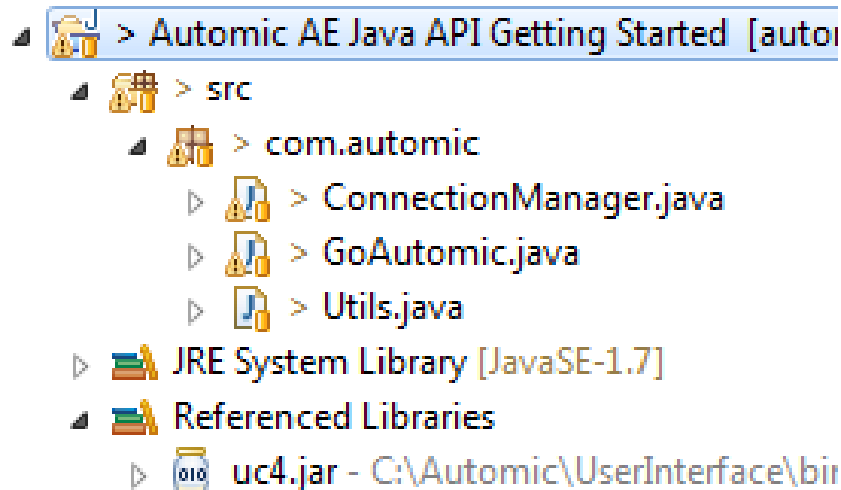
Import the Code

Go to the User Interface “bin” folder,
Select “uc4.jar”



Step 2 Import the Code

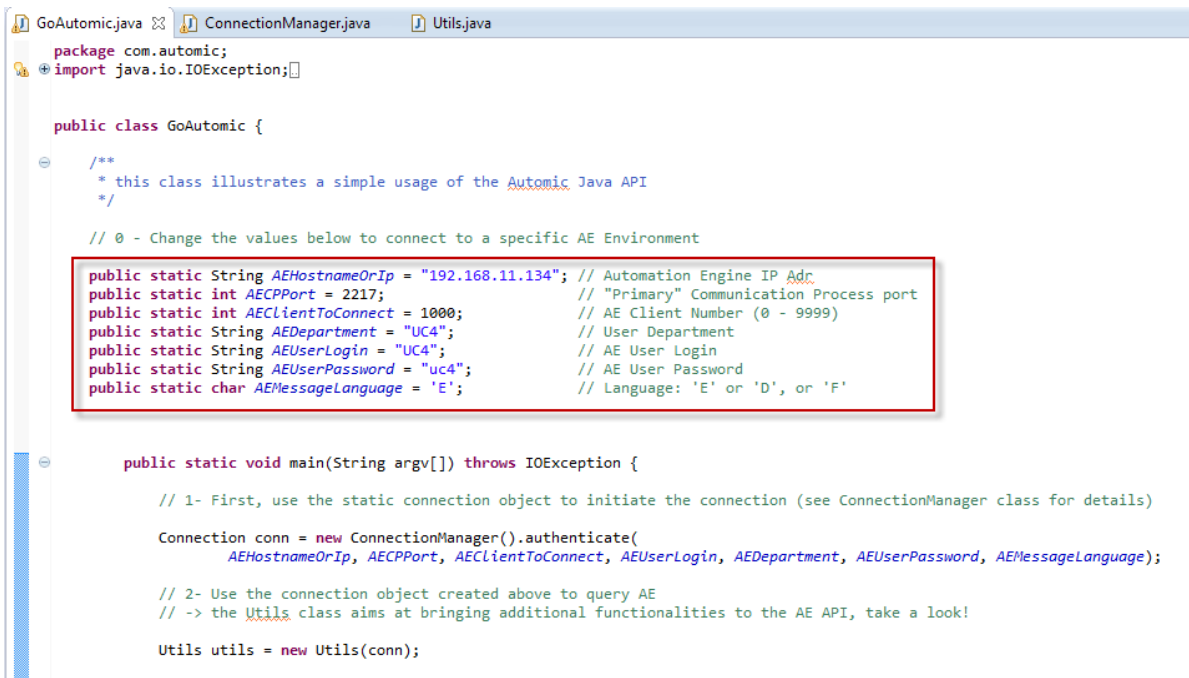
You should now see your project with a reference to uc4.jar



Step 3

Run the Code

In your GoAutomatic.java class, modify the connection parameters to your own:



```
GoAutomatic.java ConnectionManager.java Utils.java
package com.automic;
import java.io.IOException;

public class GoAutomatic {

    /**
     * this class illustrates a simple usage of the Automatic Java API
     */

    // 0 - Change the values below to connect to a specific AE Environment

    public static String AEHostnameOrIp = "192.168.11.134"; // Automation Engine IP Adr
    public static int AECPPort = 2217; // "Primary" Communication Process port
    public static int AEClientToConnect = 1000; // AE Client Number (0 - 9999)
    public static String AEDepartment = "UC4"; // User Department
    public static String AEUserLogin = "UC4"; // AE User Login
    public static String AEUserPassword = "uc4"; // AE User Password
    public static char AEMessageLanguage = 'E'; // Language: 'E' or 'D', or 'F'

    public static void main(String argv[]) throws IOException {

        // 1- First, use the static connection object to initiate the connection (see ConnectionManager class for details)

        Connection conn = new ConnectionManager().authenticate(
            AEHostnameOrIp, AECPPort, AEClientToConnect, AEUserLogin, AEDepartment, AEUserPassword, AEMessageLanguage);

        // 2- Use the connection object created above to query AE
        // -> the Utils class aims at bringing additional functionalities to the AE API, take a look!

        Utils utils = new Utils(conn);
```

Step 3

Run the Code

Run the code and see the result (a list of all Folders and Objects within them):

```
<terminated> GoAutomatic (1) [Java Application] C:\Program Files\Java\jdk1.7.0_10\bin\javaw.exe (Sep 5, 2014 11:39:21 AM)
Authentication...
+++ Content of: BSP.OBJECTS
--> BSP.CALENDARS
--> BSP.FILTERS
--> BSP.FTP
--> BSP.HOSTGROUP
--> BSP.JOBS
--> BSP.JOBS.MEANINGFULNAMES
--> BSP.LOGINS
--> BSP.NOTIFICATIONS
--> BSP.QUEUES
--> BSP.SCHEDULES
--> BSP.SCRIPTS
--> BSP.WORKFLOWS
--> FOLD.NEW.1
+++ Content of: BSP.CALENDARS
--> CALE.BSP.DAY3.1
--> CALE.BSP.DAY3.2
--> CALE.BSP.DAY3.EX1.1
+++ Content of: BSP.FILTERS
--> FILTER.OUTPUT.EX2.BSP.1
--> FILTER.OUTPUT.EX2.BSP.2
--> FILTER.OUTPUT.EX2.BSP.3
--> FILTER.OUTPUT.EX3.BSP.1
+++ Content of: BSP.FTP
--> CONN.FTPAGENT.FTPCONNECTION.BSP.1
--> JOBS.FTPAGENT.FTPJOB.BSP.1
+++ Content of: BSP.HOSTGROUP
--> HOSTG.BSP.DAY2.1
+++ Content of: BSP.JOBS
--> BSP.JOBS.TEST1
--> CONN.WEBSERVICE.RESTCONNECTION.BSP.1
--> JOBF.WIN.BSP.DAY2.EX3.1
--> JOBF.WIN.BSP.DAY2.EX3.2
```

You are done! But what is next?

Modify the Code, Explore and Experiment using the following resources:

API Documentation:

http://docs.automic.com/documentation/AE/10.0.2/english/AE_API/pages/index.html

Extended version of the code used here (more methods, more complex):

<https://github.com/brendanSapience/UC4-Automic---Java-API-Framework-Simplified>