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XAM Developers Group

Java Hello World for XAM

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The following short little Java program uses the ReferenceVim to create an XSet, and add a property: com.example.hello.world.

```
package com.example;

import org.snia.xam.XAMException;
import org.snia.xam.XSet;
import org.snia.xam.XSystem;
import org.snia.xam.XAMLibrary;
import org.snia.xam.XUID;

import org.snia.xam.base.XAMImplementation;
import org.snia.xam.util.SASLUtills;

/**
 * Simplest program to use XAM.
 * @author allisonm
 *
 */
public class HelloWorld
{
    static String S_USER = "testuser";
    static String S_PASS = "testpasswd";

    static public void main( String args[] ) throws XAMException
    {
        XAMLibrary xam = new XAMImplementation( "XAMImplementation.config" );
        xam.setProperty( XAMLibrary.XAM_LOG_LEVEL, XAMLibrary.XAM_LOG_ALL );

        XSystem sys = xam.connect( "snia-xam://SNIA_Reference_VIM!localhost" );
        SASLUtills.authenticatePlain( sys, S_USER, S_PASS );

        XSet xset = sys.createXSet(XSet.MODE_RESTRICTED);
        xset.createProperty( "com.example.hello.world", false, "Hello there!" );
        XUID xuid = xset.commit();
        System.out.println( "New XSet is : " + xuid );
    }
}
```

The program generated the following XSet XML:

```
<?xml version="1.0" encoding="UTF-8" ?>
<xsets xsi:schemaLocation="http://www.snia.org/2007/xam/export/XAMCanonicalXSetDefinition.xsd"
  xmlns="http://www.snia.org/2007/xam/export" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xop="http://www.w3.org/2004/08/xop/include">
<version>1.0.0</version>
<xset>
<properties>
<property name=".xset.time.commit" type="application/vnd.snia.xam.datetime" binding="false" readOnly="true"
  length="29">
<string>2008-06-25T15:37:47.690-08:00</string>
```

Version: Current by Mike A - Jun 26**Latest 3 messages about this page (9 total) - [view full discussion](#)****Jul 1 2008** by Ben I.

In the C Library Java wrapper it's currently
"org.snia.xam.XAMLibraryObj".

However, the constructor's private (singleton pattern) and there's a
static factory method "XAMLibraryObj.getLibrary()".

We should make these consistent...

-Ben

Jun 30 2008 by Mike A

And no one spotted the error in my code... (this time). It should be:

```
XAMLibrary xam = (XAMLibrary)
```

```
Class.newInstance( "org.snia.xam.base.XAMImplementation" );
```

I forgot the class-cast.

Ben, what's the implementation class for the JNI running on the C
Library?

We ought to write that up as a "Best Practice"... Hmmm, perhaps we

Jun 30 2008 by Ben I.

Perfect! Then the application has the option to make this a
configurable parameter, and doesn't need to change code.

-Ben

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