



FELCO Solutions, Inc.

**Windchill API
Info*Engine**

```

rmiArgs[4]=group;

url = new URL("http://pco-training001.co/Windchill");
RemoteMethodServer rms = RemoteMethodServer.getRemoteMethodServer(url);
rms.setUserName("windchill");
rms.setPassword("windchill");
System.out.println("authentication done");

String name = ie.getName();
rmiArgs[1]="user="+ name + "****";
ie.addGroup((Group)rms.invoke ("xTask","com.ext.windchill.ExTask"));
System.out.println("\n"+ie.getGroupXML(group));
Group gr = ie.getGroup();
for (int i = 0; i < gr.getElementCount(); i++) {
    String number = (String)gr.getAttributeValue(i, "number");
    String ver = (String)gr.getAttributeValue(i, "version");
    String containerName = (String)gr.getAttributeValue(i, "containerName");
    System.out.println("Number: " + number + "; " + ver);
    if (!containerName.equals("Requirements Planning")) {
        allItems.addElement(number.toLowerCase());
    }
}
//End of for loop
catch (ArrayIndexOutOfBoundsException e) {
    System.err.println("\n");
}

```

<!--taglib uri=http://www.ptc.com/infoengine/caglib/core?pref
 <:webObject name="Search-Objects" type="OBJ" />
 <:param name="Instance" data="{inputdata}[Instance]"/>
 <:param name="DBUSER" data="windchill"/>
 <:param name="TYPE" data="{inputdata}[Type]"/>
 <:param name="ITERATION" data="{inputdata}[Iteration]"/>
 <:param name="VERSION" data="{inputdata}[Version]"/>
 <:param name="WEBER" data="{inputdata}[WebER]"/>
 <:param name="attribute" data="{inputdata}[attribute]"/>

Automating Windchill Configuration Using the Windchill Java API and Info*Engine

Release Windchill 10.0

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Training Agenda

Automating Windchill Configuration

Day One (24 Tasks)

Welcome and Introduction

Introduction to the Windchill Java API

- Introduction
- Java Programming
- What is the Windchill Java API
- Installation and Setup
- Locating the Windchill Client Java API
- Using and Setup of Firefox
- Managing User scripts
- Codebase Directory

Eclipse – Using a Java IDE

- Introduction of Eclipse
- Downloading and Setup of Eclipse
- Creating and Working with Windchill Projects
- Creating a Package
- ✓ 3 Tasks will be completed

Creating Applications – Windchill Java Applications

- Connecting to Windchill
- Creating Windchill Classes
- Debugging Applications
- ✓ 6 Tasks will be completed

Understanding Java Queries

- Using Persistence Management
- Using Java Query Methods
- Search Conditions
- EPMDocument Query Methods
- Debug the Query
- ✓ 3 Tasks will be completed

Understanding CAD Documents

- CAD Document Hierarchy
- Retrieving EPM Documents
- Version Control Services
- Life Cycles Services
- EPMDocumentMaster Query
- Renaming CAD data
- Data Service Status
- Retrieve Related WTPart from EPMDocument
- ✓ 12 Tasks will be completed

Day Two (30 Tasks)**Containers and Folders**

- Understanding Containers Java methods
- Creating Folders
- Retrieving Checkout Objects from Containers
- Creating and renaming Parameters
- ✓ *3 Tasks will be completed*

Understanding Change Objects

- Introduction of Change Objects
- ✓ *1 Task will be completed*

Workflow Expression Robots

- Introduction of Workflows and Robots
- Java Method Robot
- Create JAR files
- Setup Robot Server Classes
- Create Expression Robots
- Calling Classes
- ✓ *6 Tasks will be completed*

Action Listeners

- Introduction to Action Listeners
- Creating and Registering Action Listeners
- Create JAR files
- ✓ *4 Tasks will be completed*

J-Link and Windchill Integration

- Introduction
- Link Pro/E tasks to Windchill
- Service Runner Class
- Calling the J-Link Service Class from a Robot
- ✓ *3 Tasks will be completed*

Introduction to Info*Engine

- Info*Engine Components and Architecture
- Understanding Info*Engine Tasks
- Structure of Webjects
- Creating and Running Info*Engine Tasks
- Creating Various Webjects
- Calling Info*Engine Tasks from a Workflow
- ✓ *9 Tasks will be completed*

Understanding Info*Engine JSP

- Introduction to Info*Engine JSP
- Creating Info*Engine JSP
- Reloading JSP page
- Mixing HTML and Webjects
- Review the SetRevision JSP
- ✓ *4 Tasks will be completed*

Day Three (16 Tasks)

Info*Engine Action Webjects

- Understanding Info*Engine Action Webjects
- Creating Action Webjects
- Update and Modify Windchill Objects
- Creating and renaming Parameters
- ✓ *3 Tasks will be completed*

Calling Info*Engine JSP from HTML

- Using Info*Engine Scriptlets in a JSP
- Retrieving HTML parameters in a JSP
- Use Action Webjects with Scriptlets
- Handling Exceptions
- ✓ *2 Tasks will be completed*

Client to Server Remote Applications

- Understand the Client Side Library
- Create a Java Client Application
- Create a Server Side Application
- Create a Dynamic Info*Engine Task
- Returning arguments to client
- ✓ *11 Tasks will be completed*