Boldon James Classification Action (Remove) Plugin   
(Smart Classifier)

# Overview

## Behavior

This action plugin, as with the normal Smart Classifier action plugins, can be triggered automatically through schedule or manually on the Smart Classifier Dashboard.

To access the dashboard, simply visit <http://localhost:8080/SmartClassifier> on the Smart Classifier machine.

The action plugin is used to read classifications embedded with Boldon James Classification remove certain specified classifications from a file. The group of classifications to be removed can be configured on a per-rule basis in the Smart Classifier dashboard.

The flow of the action plugin can be summarized in the diagram below.

C:\Users\ypoh\Downloads\Power Classifier Action Plugin.png

Figure - Plugin Action Flow

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# Installation & Deployment

This action plugin artifact is packed as a zip file. The zip file contains the following files:

* Jar file (remove-boldon-james-classification.jar)
* Database SQL file (install.sql, uninstall.sql)
* Jar dependencies files (log4j-1.2.17.jar, nextlabs-sc-common.jar, solr-solr-4.10.3.jar)
* This readme document (ReadMe.docx)

Follow these steps to Install and Deploy the action plugin into the Smart Classifier Rule Engine.

1. Stop the Smart Classifier Rule Engine Service.
2. Copy remove-boldon-james-classification.jar to [SC Home]\Rule Engine\plugins\
3. Copy the dependencies files (log4j-1.2.17.jar, nextlabs-sc-common.jar, solr-solr-4.10.3.jar) to [SC Home\Rule Engine\xlib\ if not exists.
4. Execute the query in the database Install SQL file (install.sql) on your Smart Classifier Database.
5. Start the Smart Classifier Rule Engine Service.
6. The action plugin is now installed and deployed.

# Uninstallation

Follow these steps to uninstall the action plugin from the Smart Classifier Rule Engine.

1. Stop the Smart Classifier Rule Engine Service.
2. Execute the query in the database Uninstall SQL file (uninstall.sql) on your Smart Classifier Database.
3. Remove remove-boldon-james-classification.jar from [SC Home]\Rule Engine\plugins\
4. Start the Smart Classifier Rule Engine Service.
5. The action plugin is now uninstalled.

# Usage Instruction

## Configure the Plugin

To use the plugin, some configurations have to be made for the plugin to work correctly with the deployment environment.

To configure the plugin, follow the steps below:

1. Go to **Settings** in the Side Navigation Bar in the Smart Classifier Dashboard.
2. Go to **Plugins**.
3. Select “Remove Boldon James Classification” in the list of plugins.
4. Modify the Properties values according to the table below.

|  |  |
| --- | --- |
| **Parameter** | **Description** |
| Boldon James Configuration File (spif.xml) | Path to the spif.xml file. This path may be a local path or a network path. This file should contain the uid of the various classifications which is to be removed. |
| Power Classifier Installation Home | Path to Installation Home Directory of Power Classifier. This is required for the plugin to import and run Power Classifier. |
| Exclude Folder | Folder to be excluded from Removal of Boldon James Classification. This value must **NOT** be empty. Use an arbitrary name if there is no folder needed to be excluded. |

## Use the Plugin

To use the plugin action in a Smart Classifier Rule, follow the steps below:

1. Create a Rule with the appropriate criteria and directory.
2. Select “Remove Boldon James Classification” in **ACTIONS TO PERFORM**.
3. Configure the action according to the table below

|  |  |
| --- | --- |
| **Parameter** | **Description** |
| Labels to Remove | Names of Security Category Tag Set to be removed. The name can be found in the spif.xml file, in the format given in the picture below:    This parameter expects multiple strings. Press the “enter” key to separate between each entry.  Proper configuration should look similar to the diagram below. |

# Test Instruction

## Invoking the Action Plugin

To invoke the Action Plugin, simply create a Rule in the Smart Classifier dashboard and click on execute.

A confirmation pop up will be shown to indicate the request for Rule execution is made.

## Reading Log

To test and debug the Action Plugin, the rule engine log serves as the primary tool to understand the condition, state and values returned by the plugin.

To read the complete log, set the Log Level for “com.nextlabs” to “**DEBUG**” in [SC HOME]\Rule Engine\conf\log4j.xml.

The following shows the list of important log statements provided by the action plugin and their significant contribution in test and debug sessions.

### Plugin Loading Indicator

To check whether the plugin is loaded properly, the following log item can be referenced.



Figure - Plugin Loaded

If the log item exists in the log, the plugin should have loaded successfully.

### Process Completion Status

For each processed file, there will be either a successful or fail message at the end of the process.



Figure - Process Completion (Successful)



Figure - Process Completion (Fail)

### Currently Processing File

To check which file is in process, refer to the following log item.



Figure - File In Process

### Process Output Message

To determine whether the plugin is providing the correct output, the following log item can be referenced:



Figure - Process Output

### SPIF XML Location (debug level)

The following shows the location of the “spif.xml” file used. This can be used to ensure the correctness of the plugin configuration on the Smart Classifier Dashboard.



Figure - spif.xml Location

### Tags to Remove (debug level)

The following shows the tags that are to be removed. This can be used to ensure the correctness of the plugin configuration on the Smart Classifier Dashboard.



Figure - Tags to Remove

### SPIF Loading Time Taken (debug level)

The following shows the time taken to load and read of the SPIF XML file to get the XML IDs for removal. This item may be useful in checking the performance of the plugin.



Figure - spif.xml Loading Time Taken

### Power Classifier Time Taken (debug level)

The following shows the time taken to remove the tags using the Power Classifier. This item may be useful in checking the performance of the plugin.



Figure - Power Classifier Time Taken

### Total Time Taken (debug level)

The following shows the total time taken for the plugin to complete execution. This item may be useful in checking the overall performance of the plugin.



Figure - Total Time Taken