

# Readme for IBM® Spectrum Symphony RFE 110228

**Readme file for:** IBM Spectrum Symphony

**Product/Component Release:** 7.1.2

**Fix ID:** sym-7.1.2-build473971-jpmc

**Publication date:** November 8, 2017

This enhancement for IBM Spectrum Symphony 7.1.2 provides a new API to set Java environment variables from an IBM Spectrum Symphony client.

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## 1. Scope

Before you install this enhancement to your cluster, note the following requirements:

<b>Applicability</b>	
Operating system	Management hosts: <ul style="list-style-type: none"> <li>• RHEL 6 64-bit</li> </ul> Client hosts: <ul style="list-style-type: none"> <li>• RHEL 6 64-bit</li> </ul> Developer Edition hosts: <ul style="list-style-type: none"> <li>• RHEL 6 64-bit</li> </ul>
Product versions	IBM Spectrum Symphony 7.1.2 in a cluster with IBM Spectrum Conductor with Spark 2.2.0 also installed.

## 2. Installation

Follow the instructions in this section to download and install this enhancement in your cluster.

### Prerequisites

- IBM Spectrum Symphony 7.1.2 must be installed on hosts in your cluster.
- IBM Spectrum Conductor with Spark 2.2.0 must be installed on hosts in your cluster.

### Packages

Download the installation package for your host type:

<b>Name</b>	<b>Description</b>
sym-7.1.2.0-cws-2.2.0.0_x86_64_build473971.tar.gz	Package for Linux management and compute hosts
symclnt-7.1.2.0.x86_64_build473971.tar.gz	Package for Linux client hosts.
symde-7.1.2.0_x86_64_build473971.tar.gz	Package for Linux Developer Edition hosts.

### Before installation

- Log on to the master host as the cluster administrator, disable all applications:

```
$ soamcontrol app disable all
```

- On Linux management and compute hosts, back up the following file:

```
$SOAM_HOME/7.1.2/linux-x86_64/lib/JavaSoamApi.jar
```

- On Linux client hosts, back up the following file:

```
$SOAM_HOME/lib/JavaSoamApi.jar
```

- d. On Linux Developer Edition hosts, back up the following file:

```
$SOAM_HOME/7.1.2/linux-x86_64/lib/JavaSoamApi.jar
```

## Installation

- a. Log on to the host OS as the cluster administrator.
- b. On each Linux management and compute host, download the `sym-7.1.2.0-cws-2.2.0.0_x86_64_build473971.tar.gz` package and decompress the package to the `$EGO_TOP` directory:

```
$ tar zxfo sym-7.1.2.0-cws-2.2.0.0_x86_64_build473971.tar.gz -C $EGO_TOP
```

- c. On each Linux client host, download the `symclnt-7.1.2.0.x86_64_build473971.tar.gz` package and decompress the package to the `$SOAM_HOME` directory:

```
$ tar zxfo symclnt-7.1.2.0.x86_64_build473971.tar.gz -C $SOAM_HOME
```

- d. On each Linux Developer Edition host, download the `symde-7.1.2.0_x86_64_build473971.tar.gz` package and decompress the package to the `$SOAM_HOME` directory:

```
$tar zxfo symde-7.1.2.0_x86_64_build473971.tar.gz -C $SOAM_HOME
```

## After installation

Log on to the master host as the cluster administrator, enable your applications.

```
$ soamcontrol app enable <appName>
```

## 3. Configuration and usage

This enhancement introduces a new API for setting IBM Spectrum Symphony environment variables in Java class `com.platform.symphony.soam.SoamFactory`.

API name	Description
<code>void setSymEnv(Properties p)</code>	Sets IBM Spectrum Symphony environment variables from the client side.

Here is an example of calling the new API:

```
import java.util.Properties;
import java.lang.reflect.*;
.....
class AsyncClient
{
    public static void main(String args[])
    {
        try
        {
            // Initialize the API
            SoamFactory.initialize();

            Properties p = new Properties();
            p.setProperty("EGO_MASTER_LIST", "knw002.eng.platformlab.ibm.com");
            p.setProperty("EGO_KD_PORT", "17870");
```

```
p.setProperty("JAVA_HOME", "/scratch/qa/zze/jdk/jdk1.8.0_77");
p.setProperty("EGO_BINDIR", "/scratch/qa/zze/MHCluster_927/3.5/linux-x86_64/bin");
// Set Symphony environment variables
SoamFactory.setSymEnv(p);

String appName = "SampleAppJava";
} catch (Exception e){
    .....
}
.....
}
```

## 4. Uninstallation

Follow the instructions in this section to roll back this enhancement in your cluster.

- a. Log on to the master host as the cluster administrator, disable all applications:

```
$ soamcontrol app disable all
```

- b. On all Linux hosts, restore all the files that you backed up during installation on all hosts.

- c. Enable your applications:

```
$ soamcontrol app enable <appName>
```

## 5. Copyright and trademark information

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