# Readme File for IBM<sup>®</sup> Spectrum Symphony 7.2.0.2 RFE 118451

Readme file for: IBM Spectrum Symphony Product/Component Release: 7.2.0.2 Fix ID: sym-7.2.0.2-build497490-ms Publication date: August 13, 2018

This enhancement enables you to control the default priority (rank) for consumers in your cluster by introducing the EGO\_CONSUMER\_PRIORITY\_DEFAULT parameter in the ego.conf file.

Currently, new consumers in IBM Spectrum Symphony start with a default priority of "0" (indicating the highest priority). When many consumers share this default high priority, any advantage of setting a consumer rank is nullified. As a result, a consumer with time-sensitive workload but low demand is blocked until other consumers (such as those with a high share ratio and high demand) finish their workload.

This update enables you to change the default priority for all consumers in your cluster from "0" to another value (for example, 10000) to indicate a different default priority. You can then manually update the rank for consumers that host critical workload as required, enabling those consumers to receive slots based on priority.

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# 1. Scope

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

Applicability	
Operating system	RHEL 6 or 7, 64-bit
Product version	IBM Spectrum Symphony 7.2.0.2

## 2. Installation

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

## **Prerequisites**

IBM Spectrum Symphony 7.2.0.2 must be installed on Linux hosts in your cluster.

## **Packages**

Name	Description
sym-7.2.0.2_x86_64-build497490.tar.gz	Package for Linux management hosts.

#### **Installing on Linux management hosts**

- a. Log on to the master host as the cluster administrator, disable all applications, and shut down the cluster:
  - \$ soamcontrol app disable all
  - \$ egosh service stop all
  - \$ egosh ego shutdown all
- b. On each management host, back up the following files:

```
$EGO_TOP/3.6/linux-x86_64/etc/vemkd
$EGO_TOP/3.6/linux-x86_64/lib/libvem.so.3.6.0
```

c. On each management host, copy the  $sym-7.2.0.2\_x86\_64$ -build497490.tar.gz package to the \$EGO\_TOP directory and decompress it:

```
$ tar zxof sym-7.2.0.2_x86_64-build497490.tar.gz -C $EGO_TOP
```

 d. Configure the new consumer priority default value as described in <u>"Configuration and usage"</u>, then start the cluster.

# 3. Configuration and usage

Update the default priority for consumers in your cluster by manually adding the EGO\_CONSUMER\_PRIORITY\_DEFAULT parameter to the ego.conf. The value of this parameter

then takes effect for all new consumers and existing consumers that do not have a priority set. If you want to update the current default priority for existing consumers, run the eqoupdateconsumers.sh script included with this update.

- To set the default priority for new consumers and for existing consumers in ConsumerTrees.xml that do not have a priority, add the EGO\_CONSUMER\_PRIORITY\_DEFAULT parameter in ego.conf:
  - a. Edit the \$EGO\_CONFDIR/ego.conf file.
  - b. Add the EGO\_CONSUMER\_PRIORITY\_DEFAULT parameter and set its value to any positive integer greater than 0, for example:

```
EGO CONSUMER PRIORITY DEFAULT=10000
```

If this parameter is not defined, the default consumer priority takes effect as 0.

- c. Save your changes.
- d. Start the cluster and enable your applications:
  - \$ egosh ego start
  - \$ soamcontrol app enable app\_name
- To update the current default priority for existing consumers, run the egoupdateconsumers.sh script included with this update. The script adds the EGO\_CONSUMER\_PRIORITY\_DEFAULT parameter to ego.conf, backs up the current ConsumerTrees.xml file for recovery purposes, then updates the default priority for consumers in the file to the new EGO\_CONSUMER\_PRIORITY\_DEFAULT value.
  - a. Source the host environment.
    - a. For csh, enter:
      - \$ source cshrc.platform
    - b. For bash, enter:
      - . profile.platform
  - b. Run the egoupdateconsumers.sh script with the new default consumer priority specified as an argument. Valid value is any positive integer greater than 0.
    - \$ egoupdateconsumers.sh [positive\_integer]

#### For example:

\$ egoupdateconsumers.sh 10000

If you don't specify arguments, the default priority for consumers in ConsumerTrees.xml file is updated with the EGO\_CONSUMER\_PRIORITY\_DEFAULT value in ego.conf. If a valid value is not defined in ego.conf, the script exits without updating ConsumerTrees.xml.

- c. Start the cluster and enable your applications:
  - \$ eqosh eqo start
  - \$ soamcontrol app enable app\_name
- d. Create a new consumer either from the cluster management console at **Resources > Consumers** or from the "egosh" command line, for example:
  - \$ egosh consumer add /LOB1\_consumer -g ComputeHosts,ManagementHosts
    -e root
    Consumer </LOB1\_consumer> added.

e. Check whether the new consumer uses the new default priority:

```
$ egosh consumer view LOB1_consumer
```

This enhancement only impacts consumers whose default priority is currently set to 0. If consumers are configured with a priority other than the default (for example, "1" or "2"), those values are not changed. When you update the default priority to a high value (for example, "10000"), consumers that are set to "1" or "2" get priority over those that are set to the default "10000"; however, the priority order of existing consumers is preserved and is not affected by any newly added consumers.

## 4. Uninstallation

If required, follow these instructions to uninstall this enhancement in your cluster:

- a. Log on to the master host as the cluster administrator, disable all applications, and shut down the cluster:
  - \$ soamcontrol app disable all
  - \$ egosh service stop all
  - \$ egosh ego shutdown all
- b. If you want to reverse the default consumer priority in ConsumerTrees.xml to your original configuration, run the egoupdateconsumers.sh script with the default priority as 0:
  - \$ egoupdateconsumers.sh 0
- c. On each management host, restore the following files from your backup:

```
$EGO_TOP/3.6/linux-x86_64/etc/vemkd
$EGO_TOP/3.6/linux-x86_64/lib/libvem.so.3.6.0
```

d. On each management host, remove the equipdateconsumers.sh script:

```
$ rm -rf $EGO_TOP/3.6/linux-x86_64/bin/egoupdateconsumers.sh
```

- e. Edit the \$EGO\_CONFDIR/ego.conf file to remove the EGO\_CONSUMER\_PRIORITY\_DEFAULT parameter.
- f. Start the cluster and enable your applications:
  - \$ egosh ego start
  - $\$  soamcontrol app enable  $app\_name$

# 5. Copyright and trademark information

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