



Best practices

Reducing concurrent SIM connection requests to SSM for Windows 2008

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Contents

Reducing concurrent SIM connection requests to SSM for Windows2008 .	3
Steps	3
Notices	5
Trademarks	6

Reducing concurrent SIM connection requests to SSM for Windows2008

This article describes how to reduce concurrent SIM connection requests to SSM for Windows 2008.

The following steps assume that your Platform Symphony 6.1.1 cluster is properly configured. The example shows how to reduce concurrent SIM connection requests to SSM

Steps

1. Increase the number of backend listening ports from 1 to 4 to allow more concurrent SIM connections. Set the environment variable SOAM_SSM_LISTEN_PORT_NUMBER to 4 in the application profile:

```
<SOAM version="6.1">
  <SSM resReq="" shutdownTimeout="300" startupTimeout="60"
    workDir="${EGO_SHARED_TOP}/soam/work" >
    <osTypes>
      <osType name="all"
startCmd="${SOAM_HOME}/${VERSION_NUM}/${EGO_MACHINE_TYPE}/etc/ssm"
workDir="${SOAM_HOME}/work">
        <env name="SOAM_HOME">${EGO_TOP}/soam</env>
        <env name="PATH">
${SOAM_HOME}/${VERSION_NUM}/${EGO_MACHINE_TYPE}/lib:${SOAM_HOME}/${VERSION
_NUM}/${EGO_MACHINE_TYPE}/etc:${SOAM_HOME}/${VERSION_NUM}/${EGO_MACHINE_TY
PE}/bin:/usr/bin:/local/share/bin
        </env>
        <env name="LD_LIBRARY_PATH">
${SOAM_HOME}/${VERSION_NUM}/${EGO_MACHINE_TYPE}/lib
        </env>
        <env name="SOAM_SSM_LISTEN_PORT_NUMBER">4</env>
      </osType>
    </osTypes>
  </SSM>
  ...
</SOAM>
```

SOAM_SSM_LISTEN_PORT_NUMBER specifies the number of SSM backend listening ports that the SIM will connect to. This parameter only takes effect on Windows 2008.

Valid values: 1~4

The default value is 4.

2. Set the environment variable `MAX_RESOURCE_OPERATION_CHUNK_SIZE` in the application profile "SOAM->SSM->osTypes->osType->env"

The type is integer and the default value is 100. The parameter specifies how many SIMs can be started up at one time.

3. Set the the environment `RESOURCE_OPERATION_INTERVAL` in application profile "SOAM->SSM->osTypes->osType->env"

The type is integer and the default value is 0 seconds. If the number of starting SIMs exceeds `MAX_RESOURCE_OPERATION_CHUNK_SIZE`, SSM starts the first chunk of `MAX_RESOURCE_OPERATION_CHUNK_SIZE` and hold on starting up the rest of the SIMs for the number of seconds specified by `RESOURCE_OPERATION_INTERVAL`.

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