

IBM Platform Symphony 5.1 AcceptEx() API to tune Windows 2008 backlog queue size Readme File

About AcceptEx() API to tune Windows 2008 backlog queue size

This package enhances the communication library of Symphony, which uses the API AcceptEx() to manage the backlog queue on Windows. The enhancement only introduces an environment to allow a cluster administrator to tune the backlog queue size.

Readme file for: IBM® Platform Symphony

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1. Scope

Applicability	
Operating system	Windows 2008 R2 64 bits
Symphony version	5.1
Cluster types	This feature applies to a single Platform Symphony cluster
Dependencies	
File system	N/A
<Other>	This feature will work when the following parameter is added to %EGO_TOP%\eservice\esc\conf\services\sd.xml: <pre><sc:ActivityDescription> <ego:Attribute name="hostType" type="xsd:string">NTX64</ego:Attribute> <ego:ActivitySpecification> <ego:EnvironmentVariable name="PLATCOMMDRV_BACKLOG_SIZE_ON_WINDOWS">6000</ego: EnvironmentVariable> </ego:ActivitySpecification> </sc:ActivityDescription></pre>
Limitations	
Known Issues	N/A

2. Configuration to enable the enhanced feature

1) Prerequisites

Cluster Symphony 5.1 is installed.

2) Installation files

The `Symphony5.1.0_win-x64-328700.msp` package includes the following files:

File name	Description
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File name	Description
%SOAM_HOME%\5.1\w2k3_x64-vc7-psdk\etc\sd.exe %SOAM_HOME%\5.1\w2k3_x64-vc7-psdk\etc\sd.pdb %SOAM_HOME%\5.1\w2k3_x64-vc7-psdk\etc\ssm.exe %SOAM_HOME%\5.1\w2k3_x64-vc7-psdk\etc\ssm.pdb	The binary files that contain the enhanced feature for Windows 2008 x64 or later.
checksum.md5	The file that contains the MD5 checksum Symphony5.1.0_win-x64-328700.msp

3) Installation procedure

a. Before installation

Shut down the cluster using the following commands:

```
> soamcontrol app disable all -f
> egosh service stop all
> egosh ego shutdown all
```

b. Installation steps

1. Download the `Symphony5.1.0_win-x64-328700.msp` file to the master host and each candidate host.
2. Double-click the MSP package to run the installer.

c. After installation

Start the cluster using the following command:

```
> egosh ego start all
```

4) Configuration procedure

Enable the feature by adding the following parameter to `%EGO_TOP%\eservice\esc\conf\services\sd.xml`

```
<sc:ActivityDescription>
  <ego:Attribute name="hostType" type="xsd:string">NTX64</ego:Attribute>
  <ego:ActivitySpecification>
    .....
    <ego:EnvironmentVariable
name="PLATCOMMDRV_BACKLOG_SIZE_ON_WINDOWS">6000</ego:EnvironmentVariable>
    .....
  </ego:ActivitySpecification>
</sc:ActivityDescription>
```

5) Verification procedure

1. Run `sd` as follows:

```
> %SOAM_HOME%\5.1\w2k3_x64-vc7-psdk\etc\sd.exe -V
```

The following is an example of the output after running this command:

```
Platform Symphony 5.1.0.328700, Jan 15 2015  
Copyright (C) 2001-2011 Platform Computing Corporation
```

2. Run `ssm` as follows:

```
> %SOAM_HOME%\5.1\w2k3_x64-vc7-psdk\etc\ssm.exe -V
```

The following is an example of the output after running this command:

```
Platform Symphony 5.1.0.328700, Jan 15 2015  
Copyright (C) 2001-2011 Platform Computing Corporation
```

3. Usage

1) How the feature works

Configure a parameter in `%EGO_TOP%\eservice\esc\conf\services\sd.xml` file to enable the feature.

```
<sc:ActivityDescription>  
  <ego:Attribute name="hostType"  
type="xsd:string">NTX64</ego:Attribute>  
  <ego:ActivitySpecification>  
    .....  
    <ego:EnvironmentVariable  
name="PLATCOMMDRV_BACKLOG_SIZE_ON_WINDOWS">6000</ego:EnvironmentVariabl  
e>  
    .....  
  </ego:ActivitySpecification>  
</sc:ActivityDescription>
```

The value range of `PLATCOMMDRV_BACKLOG_SIZE_ON_WINDOWS` is [1, 10000], if the value is less than 1, it will be set to 1; if the value is greater than 10000, it will be set to 10000; if the value is not given, default value will be set to 200.

4. Copyright and trademark information

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