

Oracle Portal-to-Go

Configuration Guide

Release 1.0.2.2

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This document provides instructions for configuring parameters for Portal-to-Go. It describes the parameters that should be modified for the system, the Web server, and Portal-to-Go to achieve the best performance and scalability.

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Portal-to-Go Core

This section addresses the following topics regarding the Portal-to-Go core:

- [Portal-to-Go Core Configuration Parameters](#)
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Portal-to-Go Core Configuration Parameters

The following is a set of runtime tunable parameters for Portal-to-Go. The parameters apply to both Solaris and Windows NT installations.



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Name	Default Value	Description
db.driver	THIN	The JDBC driver uses the core to access the Portal-to-Go repository.
db.connect.minConnections	5	Specifies the minimum number of connections for the connection pool.
db.connect.maxConnections	100	Specifies the maximum number of connections for the connection pool.
db.connect.incConnections	1	Indicates new connections to the connection pool.
db.connect.idleTimeout	360	Defines the maximum idle time (in minutes) before the unused connections are closed.
repository.session.check.interval	1	Indicates the time interval (in seconds) for the watchdog to find and release unused connections to the connection pool.
transformer.poolsize	10	Specifies the number of XML transformers in the pool. The pool size should be around 1.5 times the number of CPUs.

PAoid

Use **PAoid** to refer to a service instead of using **PAservicepath**. Using **PAoid** improves the performance. With **PAoid**, the reference remains the same even if the service has been moved.

For example, as in the following, Approach 2 is faster than Approach 1.

■ Approach 1:

```
<xsl:attribute
name="target">
__REQUEST_NAME__?PAservicepath=__SERVICE_URL_ENC__&#38;
PAsession=Detail&#38;
s2=<xsl:value-of select="symbol">
</xsl:value-of>
</xsl:attribute>
```

■ Approach 2:

```
<xsl:attribute
name="target">
__REQUEST_NAME__?PAoid=__PAoid__&#38;
PAsession=Detail&#38;
s2=<xsl:value-of select="symbol">
```

```
</xsl:value-of>  
</xsl:attribute>
```

Note: There are two underscores ("_") before and after **PAoid**. There are three underscores ("_") before **REQUEST_NAME** and two after it.

Kernel Parameters

Note: Kernel parameter modifications apply to Solaris systems only.

It is recommended that you modify the following kernel parameters in the **/etc/system** file:

Name	Value
priority_paging	1
rlim_fd_max	8192
rlim_fd_cur	2048
lwp_default_stksize	0x4000
rpcmod:svc_run_stksize	0x4000
tcp:tcp_conn_hash_size	262144
sq_max_size	1600

TCP Parameters

The following TCP parameters should be modified through the **ndd** command:

Name	Value
tcp_rexmit_interval_initial	3000
tcp_rexmit_interval_min	3000
tcp_rexmit_interval_max	10000
tcp_ip_abort_interval	60000

Name	Value
tcp_ip_abort_interval	60000
tcp_keepalive_interval	120000
tcp_fin_wait_2_flush_interval	16000
tcp_conn_req_max_q	10240
tcp_conn_req_max_q0	10240
tcp_xmit_hiwat	65536
tcp_xmit_lowat	32768
tcp_rcv_hiwat	65536
tcp_slow_start_initial	2

Mod_JServ Configuration

To adjust the maximum number of socket connections that Mod_JServ may handle simultaneously, modify the following parameter in the **jserv.properties** file.

Name	Value
security.maxConnections	3000

Configuring Web Integration Server and Web Integration Developer

This section shows how to start the Web Integration Server. It also describes how to configure the Web Integration Server and Web Integration Developer so that they run using a firewall.

If you are behind a firewall, you need to set proxies for the Web Integration Server and the Web Integration Developer.

Web Integration Server

To set the proxies for the Web Integration Server, follow these steps:

1. For Solaris installations, run the Web Integration Server.

From the *Oracle_Home/panama/WebIntegration/Server/bin* directory, type:

```
$ server.sh &
```

For Windows NT installations, the Web Integration Server is installed as a service, and should be started automatically.

2. From a browser, go to the Web Integration Server URL:

host_name.domain:5555

3. Log in to the Web Integration Server as follows (the default password is manage):

User name: Administrator

Password: manage

4. Select **Settings**. The server settings appear. Click [Edit].
5. Enter the **Proxy** (HTTP) and the **Secure Proxy** (HTTPS) settings for your environment.
6. Click [Submit].
7. Click [Logout].

Note: To increase the maximum heap size in the Web Integration Server startup script, add the **-mx** option.

Web Integration Developer

To set the proxies for the Web Integration Developer, follow these steps:

1. Run the Web Integration Developer from the Windows NT Programs menu. Select **Programs, Oracle for Windows NT, Portal-to-Go**, and then **Web Integration Developer**.
2. From the **Edit** menu, select **Preferences** and then **Configuration**.
3. Enter the **Proxy** (HTTP) and the **Secure Proxy** (HTTPS) settings that are appropriate for your environment.
4. Click [OK].

Oracle 8.1.5 and 8.1.6 Configuration

Add **TCP.NODELAY=TRUE** in the **PROTOCOL.ORA** file.

Set the maximum number allowed for database connections appropriately.

JDK

Each Java Virtual Machine (JVM) should not support more than 1000 concurrent user sessions.

