

Configuring the SAE to Manage JUNOS Routing Platforms

A JUNOS routing platform interacts with the SAE by using a JUNOS software process called `sdx`. When the `sdx` process establishes a TCP/IP connection to the SAE, the SAE begins to manage the router. The JUNOS router driver configuration defines parameters related to the interactions between the SAE and the `sdx` process.

Use the following configuration statements to configure the JUNOS router driver:

```
shared sae configuration driver junos {
  beep-server-port beep-server-port ;
  tls-beep-server-port tls-beep-server-port ;
  connection-attempts connection-attempts ;
  keepalive-interval keepalive-interval ;
  message-timeout message-timeout ;
  batch-size batch-size ;
  transaction-batch-time transaction-batch-time ;
  sdx-group-name sdx-group-name ;
  sdx-session-group-name sdx-session-group-name ;
  send-commit-check send-commit-check ;
}
```

To configure the JUNOS router driver:

1. From configuration mode, access the configuration statement that configures the JUNOS router driver. In this sample procedure, the JUNOS driver is configured in the `west-region` group.

```
user@host# edit shared sae group west-region configuration driver junos
```

2. Specify the TCP port number that is used to communicate with the `sdx` process on JUNOS routing platforms. This port number must match the port number configured in the `sdx` process on the router.

If you set this value to zero and the TLS BEEP server port is set, the SAE accepts only TLS connections.

```
[edit shared sae group west-region configuration driver junos]
user@host# set beep-server-port beep-server-port
```

3. Specify the TLS port number that is used for TLS connections to the JUNOS routing platform.

If you set this value to zero, the SAE does not accept TLS connections.

```
[edit shared sae group west-region configuration driver junos]
user@host# set tls-beep-server-port tls-beep-server-port
```

4. Specify the number of outstanding connection attempts before new connection attempts are dropped.

```
[edit shared sae group west-region configuration driver junos]
user@host# set connection-attempts connection-attempts
```

5. Specify the interval between keepalive messages sent from the router.

```
[edit shared sae group west-region configuration driver junos]
user@host# set keepalive-interval keepalive-interval
```

6. Specify the amount of time that the router driver waits for a response from the sdx process.

Under a high load the router may not be able to respond fast enough to requests. Change this value only if a high number of timeout events appear in the error log.

```
[edit shared sae group west-region configuration driver junos]
user@host# set message-timeout message-timeout
```

7. Specify the minimum number of service configuration transactions that are committed at the same time

```
[edit shared sae group west-region configuration driver junos]
user@host# set batch-size batch-size
```

8. Specify the maximum time to collect configuration transactions in a batch.

```
[edit shared sae group west-region configuration driver junos]
user@host# set transaction-batch-time transaction-batch-time
```

9. Specify the name of a session group on the JUNOS routing platform in which provisioning objects are stored.

```
[edit shared sae group west-region configuration driver junos]
user@host# set sdx-session-group-name sdx-session-group-name
```

10. Enable or disable commit check. If enabled, a more detailed error message is logged if a batch fails, which lets you verify individual transactions in a batch.

```
[edit shared sae group west-region configuration driver junos]
user@host# set send-commit-check send-commit-check
```

11. (Optional) Verify your configuration.

```
[edit shared sae group west-region configuration driver junos]
user@host# show
beep-server-port 3333;
tls-beep-server-port 0;
connection-attempts 50;
keepalive-interval 45;
message-timeout 30000;
batch-size 10;
transaction-batch-time 2000;
sdx-group-name sdx;
sdx-session-group-name sdx-sessions;
send-commit-check true;
```

- Related Topics**
- Creating Grouped Configurations for the SAE (SRC CLI)
 - Configuring the SAE to Manage JUNOS Routing Platforms (C-Web Interface)
 - Configuring Secure Connections Between the SAE and JUNOS Routing Platforms
 - Configuring JUNOS Routing Platforms to Interact with the SAE
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