

# Configure SCTP Heartbeats

## OPERATING INSTRUCTIONS

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# 1 Description

This instruction describes how to configure Heartbeats of the SCTP, using the Ericsson Command-Line Interface (ECLI):

The following parameters can be configured:

- Heartbeat Interval, the duration of the time intervals between cyclic heartbeats
- Heartbeat Maximum Burst, the limit of the number of heartbeats sent at the same time for path probing
- Heartbeat Reduction Timer, the percentage by which to decrease each new heartbeat attempt when Heartbeat Acknowledge is not received
- Initial Heartbeat Interval, the time interval between bursts of heartbeat chunks during initial path-probing
- Maximum Activate Threshold, the maximum number of consecutive successful heartbeats needed to switch back to the Primary Path
- Minimum Activate Threshold, the minimum number of consecutive successful heartbeats needed to switch back to the Primary Path
- Smooth Factor to allow smoothed heartbeats and avoid unexpected impact on traffic flow

## 2 Procedure

### 2.1 Configure SCTP Heartbeats

#### Prerequisites

- No documents are required.
- No tools are required.
- The following conditions must apply:
  - An Ericsson Command-Line Interface (ECLI) session in Exec mode is in progress.
  - A Managed Object (MO) **SctpProfile** exists.



## Steps

1. Navigate to the `SctpProfile` MO, for example:

```
>ManagedElement=1,Transport=1,Sctp=1,SctpProfile=0
```

2. Enter Config mode:

```
(SctpProfile=0)configure
```

3. Set the Heartbeat Interval, attribute `heartbeatInterval`, for example:

```
(config-SctpProfile=0)>heartbeatInterval=30000
```

4. Set the Heartbeat Maximum Burst, attribute `hbMaxBurst`, for example:

```
(config-SctpProfile=0)>hbMaxBurst=2
```

5. Set the Heartbeat Reduction Timer, attribute `heartbeatReductionTimer`, for example:

```
(config-SctpProfile=0)>heartbeatReductionTimer=50
```

6. Set the Initial Heartbeat Interval, attribute `initialHeartbeatInterval`, for example:

```
(config-SctpProfile=0)>initialHeartbeatInterval=5000
```

7. Set the Maximum Activate Threshold, attribute `maxActivateThr`, for example:

```
(config-SctpProfile=0)>maxActivateThr=1
```

8. Set the Minimum Activate Threshold, attribute `minActivateThr`, for example:

```
(config-SctpProfile=0)>minActivateThr=1
```

9. Set the Smooth Factor, attribute `smoothFactor`, for example:

```
(config-SctpProfile=0)>smoothFactor=50
```

10. Commit the settings:

```
(config-SctpProfile=0)>commit
```

11. Verify the changes:

```
(SctpProfile=0)>show
```

The following is an example output:



```
SctpProfile=0
  hbMaxBurst=2
  heartbeatInterval=30000
  heartbeatReductionTimer=50
  initialHeartbeatInterval=5000
  maxActivateThr=1
  minActivateThr=1
  smoothFactor=50
```