

Change Heartbeat Interval

OPERATING INSTRUCTIONS

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1 Description

This instruction describes how to change the Heartbeat interval used by the push Heartbeat mechanism.

The Heartbeat mechanism adds robustness to a Fault Management solution involving the Managed Element (ME) and a management system. Heartbeats are used by a management system to monitor the interface over which the alarms or alerts are to be sent. It is because a management system cannot assume that a “silent” ME behaves properly. Heartbeats make it possible to quickly detect if any alarms or alerts have been lost. They also avoid leaving the ME unattended during a too long period. A loss of alarms can lead to longer service deterioration or unavailability.

Heartbeat information consists of the following:

- The last event time stamp, that is, when any alarm was last changed
- The last used sequence number for an alarm state change notification

Heartbeats can be used with a pull or a push mechanism.

With the push mechanism, the ME reports Heartbeat events to a management system at a regular time interval. This is done by sending Simple Network Management Protocol (SNMP) notifications to the configured SNMP targets. Heartbeat events contain the Heartbeat information described earlier.

The default Heartbeat interval is 60 seconds. Value 0 (zero) means no Heartbeat. It is recommended to always use the push Heartbeat mechanism as part of normal operations. The Heartbeat interval can be changed to zero during maintenance operations, or to a smaller or higher value according to the organization monitoring policy.

2 Procedure

2.1 Change Heartbeat Interval

Prerequisites

- No documents are required.
- No tools are required.



- The following conditions must apply:
 - At least one SNMP target is configured.
 - The new Heartbeat interval is known.
 - An Ericsson Command-Line Interface (ECLI) session in Exec mode is in progress.

Steps

1. Navigate to the *Fm* managed object, for example:

```
>dn ManagedElement=NODE06ST,SystemFunctions=1,Fm=1
```

2. Enter Config mode:

```
(Fm=1) >configure
```

3. Change the Heartbeat interval to, for example, 30 seconds:

```
(config-Fm=1) >heartbeatInterval=30
```

4. Commit the change:

```
(config-Fm=1) >commit
```

5. Verify the change:

```
(Fm=1) >show
```

The following is an example output:

```
Fm=1
  heartbeatInterval=30
  lastChanged="2015-06-18T14:12:26Z"
  lastSequenceNo=4
  sumCritical=1
  sumMajor=1
  sumMinor=0
  sumWarning=2
  totalActive=4
```