

Configuration Guide for Event-Based Monitoring

Ericsson Service-Aware Policy Controller

USER GUIDE

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1 Configure Event-Based Monitoring Overview

Figure 1 shows the main parts related to configuring the SAPC.

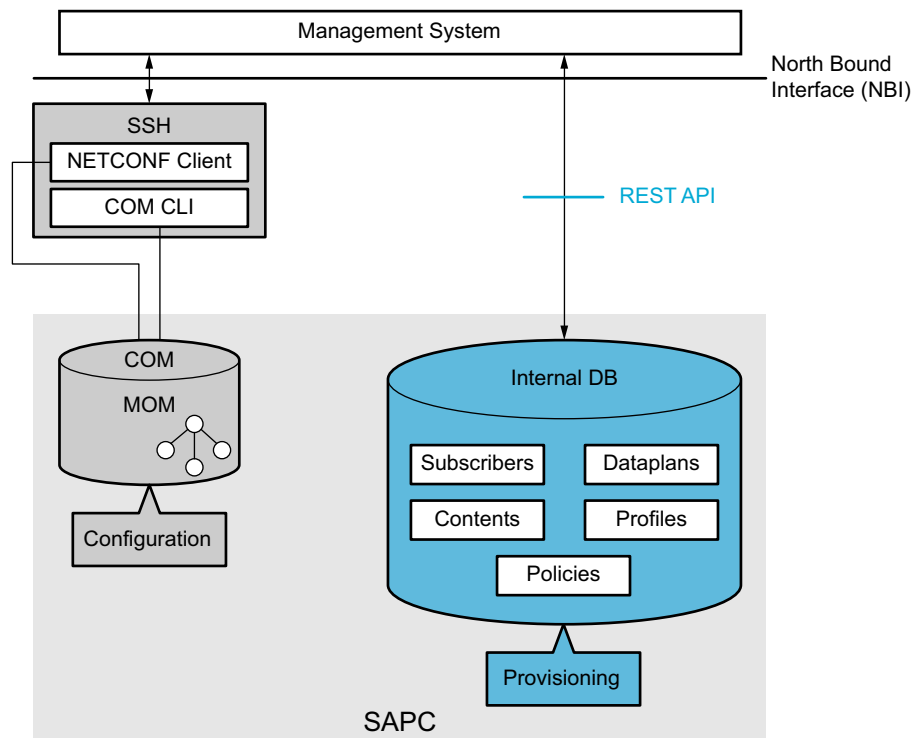


Figure 1 Configuration and Provisioning Overview

The purpose of this document is to provide guidelines to configure the Event-Based Monitoring (EBM) function in the Ericsson Service-Aware Policy Controller (SAPC) by providing configuration examples.

This document does not intend to be a complete guide for configuring all possibilities related to the EBM function in the SAPC.

The complete parameter list and details of all configured options of the SAPC are included in separate documents, refer to [Managed Object Model \(MOM\)](#).

1.1 Typographic Conventions

For detailed information about the typographic and document conventions, see [Typographic Conventions](#).



1.2 Other Conventions

This document refers to some configuration data.

To clarify which detailed data is managed by COM, this document uses the following conventions:

- Configuration: whenever referring to Managed Object Class (MOC).

Example: set `enableReauthsOnSubsChange` attribute in class `AppConfig`.

The detailed description of the objects and attributes can be found in Managed Object Model (MOM).

The tools or interfaces to manage these data in the SAPC are:

- a NETCONF interface, refer to [Ericsson NETCONF Interface](#).

The configuration examples show the NETCONF file contents, using the following syntax:

```
<edit-config>
...
<config>
  <ManagedElement xmlns="urn:com:ericsson:ecim:ComTop">
    <managedElementId>1</managedElementId>
    ...
  </ManagedElement>
</config>
</edit-config>
```

- b COM CLI, refer to [Ericsson Command-Line Interface](#).

2 Configuration Prerequisites

Before configuring the SAPC in an operating network, make sure that:

- CBA components are installed
- The SAPC product software is installed
- The SAPC user performing configuration changes has thorough knowledge of the function



Do!

Before performing the associated configuration task in the SAPC, see [Event-Based Monitoring](#).

3 Configure EBM Function

The EBM function can be enabled or disabled using the `EventBasedMonitoring` class.

- To enable EBM events to be sent, set the `enable` attribute to `true`
- To disable EBM events, set the `enable` attribute to `false`

Note: It is mandatory to set the `enable` attribute. The default value is `false`.

The SAPC always checks the value of the `enable` attribute before executing the EBM event reporting function.

- If EBM is disabled, the SAPC stops the event reporting function
- If EBM is enabled, the SAPC restarts the event reporting function

```
<edit-config>
  <target>
    <running />
  </target>
  <config>
    <ManagedElement xmlns="urn:com:ericsson:ecim:ComTop">
      <managedElementId>1</managedElementId>
      <dnPrefix>dc=ManagedElement</dnPrefix>
      <networkManagedElementId>1</networkManagedElementId>
      <userLabel>Managed Element</userLabel>
      <PolicyControlFunction xmlns="urn:com:ericsson:ecim:sapcmom">
        <policyControlFunctionId>1</policyControlFunctionId>
        <EventBasedMonitoring xmlns="urn:com:ericsson:ecim:eventbasedmonitoringmom">
          <eventBasedMonitoringId>1</eventBasedMonitoringId>
          <enable>true</enable>
        </EventBasedMonitoring>
      </PolicyControlFunction>
    </ManagedElement>
  </config>
</edit-config>
```

Example 1 EBM Function Configuration



4 Configure EBM Servers

For connecting the SAPC to EBM servers, configure each EBM server under the `EbmServers` class:

— Define the `EbmServer` class attributes

- Set the value of `ebmServerId` to the identifier of the EBM server
- Set the value of `ipAddress` to the IP address of the EBM server
- Set the value of `port` to the port number of the EBM server

Note: It is mandatory to define all the `EbmServer` class attributes.

```
<edit-config>
  <target>
    <running />
  </target>
  <config>
    <ManagedElement xmlns="urn:com:ericsson:ecim:ComTop">
      <managedElementId>1</managedElementId>
      <dnPrefix>dc=ManagedElement</dnPrefix>
      <networkManagedElementId>1</networkManagedElementId>
      <userLabel>Managed Element</userLabel>
    </ManagedElement>
    <PolicyControlFunction xmlns="urn:com:ericsson:ecim:sapcmom">
      <policyControlFunctionId>1</policyControlFunctionId>
      <Network xmlns="urn:com:ericsson:ecim:networkmom">
        <networkId>1</networkId>
        <EbmServers>
          <ebmServersId>1</ebmServersId>
          <EbmServer>
            <ebmServerId>EBM_Server1</ebmServerId>
            <ipAddress>10.5.6.34</ipAddress>
            <port>32010</port>
          </EbmServer>
        </EbmServers>
      </Network>
    </PolicyControlFunction>
  </config>
</edit-config>
```

Example 2 EBM Server Configuration

5 Configure Reporting Events

To send events to the EBM server, modify the `EbmBusinessEvent` class of the specific event under the `EbmBusinessEvents` class:

— Set the value of the `enable` attribute to true to send a specific event

Note: It is mandatory to set the `enable` attribute.



- Set the value of `ebmServerIds` to the identifier of the server where the event is sent:

```
ebmServerIds [0..]
```

Note: If empty, the event is sent to all EBM servers configured in Section 4 on page 4.

All EBM events are preinstalled, they are not allowed to be created or deleted by the operator.

The operator is allowed to configure the enabling and disabling of each event, and the list of EBM servers where each event is sent to.

```
<edit-config>
  <target>
    <running />
  </target>
  <config>
    <ManagedElement xmlns="urn:com:ericsson:ecim:ComTop">
      <managedElementId>1</managedElementId>
      <dnPrefix>dc=ManagedElement</dnPrefix>
      <networkManagedElementId>1</networkManagedElementId>
      <userLabel>Managed Element</userLabel>
      <PolicyControlFunction xmlns="urn:com:ericsson:ecim:sapcmom">
        <policyControlFunctionId>1</policyControlFunctionId>
        <EventBasedMonitoring xmlns="urn:com:ericsson:ecim:eventbasedmonitoringmom">
          <eventBasedMonitoringId>1</eventBasedMonitoringId>
          <enable>true</enable>
          <EbmBusinessEvents xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" nc:operation="merge">
            <ebmBusinessEventsId>1</ebmBusinessEventsId>
            <EbmBusinessEvent>
              <ebmBusinessEventId>GX_CCR_CCA_TRANSACTION</ebmBusinessEventId>
              <enable>true</enable>
              <ebmServerIds>EBM_Server1</ebmServerIds>
            </EbmBusinessEvent>
            <EbmBusinessEvent>
              <ebmBusinessEventId>RULE_INSTALLED</ebmBusinessEventId>
              <enable>true</enable>
              <ebmServerIds>EBM_Server1</ebmServerIds>
            </EbmBusinessEvent>
          </EbmBusinessEvents>
        </EventBasedMonitoring>
      </PolicyControlFunction>
    </ManagedElement>
  </config>
</edit-config>
```

Example 3 Reporting Event Configuration