How-to guide: Configuration of Monitored Processes Metrics

This guide explains how configure custom metrics in the new Monitoring and Alerting Infrastructure for processes monitored by SAPOsCol
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1 USE CASE AND METRIC DETAILS

You use in CCMS the Monitored Processes metrics in order to monitor specific processes on OS level of an ABAP application server:

Now you want to use these kind of metrics also in the new Monitoring and Alerting Infrastructure of Solution Manager 7.1.

The metrics shown in CCMS are collected by SAPOsCol on OS level. SAPOsCol has a local configuration file (*procmon.ini) with defined process patterns it has to monitor. More details on how SAPOsCol is configured can be found in SAP note [790639](https://idocs.erp.sap.com/790639).

In the Monitoring and Alerting Infrastructure there are different ways to access the data collected by the SAPOsCol:

1. The Introscope Hostadapter (diagnostics agent application), which is automatically setup in the managed system configuration, collects the data from SAPOsCol and writes it into the Introscope Enterprise Manager:
Once the data is in the Introscope Enterprise Manager it can be consumed by Monitoring and Alerting Infrastructure via so called Introscope Push metrics.

2. The Monitoring and Alerting Infrastructure can also directly access the SAPOsCol data by using the Diagnostics Agent and SAPHostagent. This is a so called Diagnostics Agent Push metric.

One feature of the Monitoring and Alerting Infrastructure is its landscape awareness. It maps the collected metrics to different landscape objects (managed objects). These managed objects are in case of system monitoring: System, Instance, Database and Host.
The Introscope Push metric can only be configured on Instance level, hence the configuration of the metric needs to be done in an instance template. The Diagnostics Agent Push metric can be configured on Instance level or Host level, hence the configuration of the metric can be done either in an instance template or host template. The following chapter describes the configuration of the Introscope Push metric on Instance level.

2 CONFIGURATION OF AN INTROSCOPE PUSH METRIC ON INSTANCE LEVEL

2.1 Create a custom template on instance level

1. Start the Solution Manager configuration workcenter by starting transaction SOLMAN_SETUP
3. Select a Instance Template which matches the version of your system you want to monitor. Switch to edit mode and press the “Create Custom Template” button to create a custom template.
4. Provide a name for your custom template and press the “Save” button to persist your custom template

![Configuration Explorer: Derived from SAP ABAP 7.00 - 7.03](image)

5. A pop-up will appear asking for a package. In case you want to transport your custom template you have to provide a package name. In case you want to keep it locally just select “Local Object”

![Select package](image)

2.2 Create a custom alert

1. Switch the Template Maintenance UI to “Expert Mode”

![Configuration Explorer: Custom ABAP 7.00 - 7.03](image)

2. Press the “Create” button and select in the drop-down box “Alert”

![Configuration Explorer: Custom ABAP 7.00 - 7.03](image)
3. A “Custom AlertCreation Wizard” will open. On the “Overview” tab provide a “Name” for the alert and specify the “Category” of the alert. Make sure that you select the same category the metric you want to monitor will have. Otherwise you will not be able to assign your metric to the alert.

4. Switch to the “Others” tab and provide a “Technical Name” for the alert.

5. Press the “Next” button. As we did not create a metric yet there is nothing to assign.

6. Press the “Finish” button to close the wizard. A notification will inform you that you have to save in order to persist your change.
7. Press the “Save” button to persist your custom alert

2.3 Create a custom alert

1. In your custom template press the “Create” button and select in the drop-down box “Metric”

2. A “Custom Metric Creation Wizard” will open. On the “Overview” tab provide a “Name” for the metric and specify the “Category” of the metric. Make sure that you select the same category like for the alert you created before.
3. Switch to the “Data Collection” tab. You have to specify the following values:
   Collection Interval → by default we normally have 5 min selected
   Data Collector → select the “Push Introscope Collector type”
   Data Provider → select “Generic HostAgent data”

4. Create a regular expression which matches the metric you want to get out of Introscope. An easy way to validate the regular expression, open the Introscope Investigator and navigate to the “SAP HostAgent SMDA” node where the data is reported. Switch to the “Search” tab.

5. Flag the “Use Regular Expression” box. Specify a regular expression in the search field which returns only the single metric you want to monitor. In this example we want to get the “NumberOfProcesses” metric for the “icman” process.
   Regular expression example: SAP OsCol\|MonitoredProcesses\|\*icman\*\|*:NumberOfProcesses
6. Enter this regular expression in the PATH_NAME parameter value

7. Switch to the "Threshold" tab and specify a useful threshold
8. Switch to the “Others” tab and specify a “Technical Name”

9. Press the “Next” button and assign the custom metric to your custom alert by selecting the entry in the “List of Alerts” table

10. Press the “Finish” button. A notification informs you that you have to save in order to persist your change

11. Press the “Save” button
2.4 Configure system with custom template

1. Go to the “Define Scope” step and select the system you want to configure

2. Press the “Next” button

3. Assign the custom template which includes your custom metric and alert to the instance where your metrics are measured

4. Press the “Apply and Activate” button to apply an activate you template
3 RESULT

After the system was configured with the custom template you can check the result in “System Monitoring”