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# Genesys Customer Experience Insights Private Edition Guide

RAA metrics and alerts

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Find the metrics RAA exposes and the alerts defined for RAA.

**Related documentation:**

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Service	CRD or annotations?	Port	Endpoint/Selector	Metrics update interval
RAA	PodMonitor and PrometheusRule	metrics: 9100, health: 9101	<p>RAA forms matched labels from <code>raa.statefulset.selector.matchLabels</code> values, specified in <code>values.yaml</code>. The default contains a single <code>raa-app</code> item with <code>raa.serviceName</code> variable as a value. The element <code>raa.serviceName</code> is a concatenation of parameters.</p> <pre>.... statefulset:   ## pod selector   selector:  matchLabels:   raa-app: "{{ tpl \$.Values.raa.serviceName \$ }}"  template:   ## a map of pod   specific labels to add to   common labels   labels:     raa-app: "{{ tpl \$.Values.raa.serviceName \$ }}"</pre>	metrics: several seconds, health: up to 3 minutes

See details about:

- RAA metrics
- RAA alerts

## Metrics

Metric and description	Metric details	Indicator of
<p><b>gcxi_raa_health_level</b></p> <p>A health status metric extracted using a dedicated port on the monitor container. The metric value is a sum of values from two different health-checks:</p> <ul style="list-style-type: none"> <li>A database-based health-check. Results: <ul style="list-style-type: none"> <li>A result of <b>2</b> indicates that RAA is working or in maintenance (has received a STOP command from Genesys Info Mart, and will restart only after receiving the START command).</li> <li>A result of <b>0</b> indicates that RAA is not working according to this check.</li> </ul> </li> <li>A local health-check. <ul style="list-style-type: none"> <li>A result of <b>1</b> indicates that RAA is processing aggregation requests according to local health files.</li> <li>A result of <b>0</b> indicates that RAA is not processing aggregation requests according to local health files.</li> </ul> </li> </ul>	<p><b>Unit:</b></p> <p><b>Type:</b> Gauge <b>Label:</b> <b>Sample value:</b> 0</p>	Health check
<p><b>gcxi_raa_command_count</b></p> <p>The number of commands received from Genesys Info mart since the previous scrape. Label reflects the name of the command. The supported commands are: START, QUIT, EXIT, UPDATE_CONFIG, REAGGREGATE</p>	<p><b>Unit:</b></p> <p><b>Type:</b> Counter <b>Label:</b> cmd <b>Sample value:</b> 10</p>	Traffic
<p><b>gcxi_raa_dispatch_count</b></p> <p>The number of dispatch events (moving aggregation requests from AGR_NOTIFICATION to PENDING_ARG) since the previous scrape. Dispatch events typically occur every 15 seconds. Such events are used for aggregation health check based on local files.</p>	<p><b>Unit:</b></p> <p><b>Type:</b> Counter <b>Label:</b> <b>Sample value:</b> 100</p>	Health check
<p><b>gcxi_raa_heartbeat_count</b></p>	<p><b>Unit:</b></p>	Health check

Metric and description	Metric details	Indicator of
The number of heartbeats since the previous scrape. Heartbeat is normally performed once every five minutes, and is used for health check based on local files. The label is the current RAA version.	<b>Type:</b> Counter <b>Label:</b> version <b>Sample value:</b> 10	
<b>gcxi_raa_relaunched_count</b> The number of times RAA was relaunched since the previous scrape. The aggregation process can exit when an error occurs. Genesys Info Mart sends a START command every 15 minutes during the aggregation period, which causes RAA to relaunch.	<b>Unit:</b> <b>Type:</b> Counter <b>Label:</b> <b>Sample value:</b> 1	Error
<b>gcxi_raa_launched_count</b> The number of times RAA launched since the previous scrape.	<b>Unit:</b> <b>Type:</b> Counter <b>Label:</b> version <b>Sample value:</b> 1	Error
<b>gcxi_raa_error_count</b> The number of errors registered since the previous scrape.	<b>Unit:</b> <b>Type:</b> Counter <b>Label:</b> <b>Sample value:</b> 1	Error
<b>gcxi_raa_notification_count</b> The number of fact change notifications received from Genesys Info Mart since the previous scrape.	<b>Unit:</b> <b>Type:</b> Counter <b>Label:</b> fact <b>Sample value:</b> 10	Latency
<b>gcxi_raa_notification_period_ms</b> The total amount of time attributed to changed fact periods in notifications received from Genesys Info Mart since the previous scrape.	<b>Unit:</b> milliseconds <b>Type:</b> Counter <b>Label:</b> fact <b>Sample value:</b>	Latency
<b>gcxi_raa_notification_delay_ms</b> The total amount of time attributed to fact notification delays in notifications received from Genesys Info Mart since the previous scrape. Notification delay is calculated as the difference between the moment of notification and the start of the changed period.	<b>Unit:</b> milliseconds <b>Type:</b> Counter <b>Label:</b> fact <b>Sample value:</b>	Latency
<b>gcxi_raa_aggregated_count</b> The number of aggregations completed by RAA since the previous scrape. RAA groups the data by aggregation hierarchy name, materialized level (usually SUBHOUR, HOUR, DAY, MONTH), and media type (Online, Offline).	<b>Unit:</b> <b>Type:</b> Counter <b>Label:</b> hierarchy, level, mediaType <b>Sample value:</b>	Traffic
<b>gcxi_raa_aggregated_period_ms</b>	<b>Unit:</b> milliseconds	Traffic

Metric and description	Metric details	Indicator of
The total number of periods aggregated by RAA since the previous scrape.	<b>Type:</b> Counter <b>Label:</b> hierarchy, level, mediaType <b>Sample value:</b> 10	
<b>gcxi_raa_aggregated_duration_ms</b> The total duration of time periods aggregations completed by RAA since the previous scrape.	<b>Unit:</b> milliseconds <b>Type:</b> Counter <b>Label:</b> hierarchy, level, mediaType <b>Sample value:</b>	Traffic
<b>gcxi_raa_aggregated_delay_ms</b> The total duration of delays for aggregations completed by RAA since the previous scrape. Aggregation delay is calculated as the difference between the moment aggregation competes, and the start of the aggregation range.	<b>Unit:</b> milliseconds <b>Type:</b> Counter <b>Label:</b> hierarchy, level, mediaType <b>Sample value:</b>	Latency
<b>gcxi_raa_purged_count</b> The number of records purged by RAA since the previous scrape. RAA groups the data by purged table name.	<b>Unit:</b> seconds <b>Type:</b> Counter <b>Label:</b> table <b>Sample value:</b>	Traffic
<b>gcxi_raa_purged_duration_ms</b> The total amount of time spent on purging since the previous scrape.	<b>Unit:</b> milliseconds <b>Type:</b> Counter <b>Label:</b> table <b>Sample value:</b>	Traffic

## Alerts

Various *raa.prometheusRule.alerts.\** parameters in the **values.yaml** file specify the severity of alerts and some thresholds.

The following alerts are defined for RAA.

Alert	Severity	Description	Based on	Threshold
raa-health	<b>Specified by:</b> <code>raa.prometheusRule.alerts.raa-health.labels.severity</code> <b>Recommended value:</b> severe	A zero value for a recent period (see labels.severity intervals) indicates that RAA is not operating.	<code>gcxi_raa_health_level</code>	Specified by: <code>raa.prometheusRule.alerts.health</code> <b>Recommended value:</b> 30m
raa-errors	<b>Specified by:</b> <code>raa.prometheusRule.alerts.raa-errors.labels.severity</code> in <code>values.yaml</code> . <b>Recommended value:</b> warning	A nonzero value indicates that errors have been logged during the scrape interval.	<code>gcxi_raa_error_count</code>	>0

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Alert	Severity	Description	Based on	Threshold
raa-long-aggregation	<p><b>Specified by:</b> raa.prometheusRule.alerts.longAggregation in values.yaml.</p> <p><b>Recommended value:</b> warning</p>	Indicates that the average duration of aggregation queries specified by the hierarchy, level, and mediaType labels is greater than the deadlock-threshold.	gcxi_raa_aggregated_duration_prometheusRule.alerts.longAggregation, gcxi_raa_aggregated_duration_prometheusRule.alerts.longAggregation	<p>Greater than the value (seconds) of durationPrometheusRule.alerts.longAggregation in values.yaml.</p> <p><b>Recommended value:</b> 300</p>