

CHA NF Registrar Performance Management Function Guide

Used in containerized deployment

User Guide

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1 CHA Performance Management Introduction

CHA generates performance metrics used to measure the behavior and performance of the system. Metrics are also used to generate alarms when values go over or under a specified threshold. Recording rules are an aggregation of multiple metrics to allow for even more useful data points.



2 Charging NF Registrator Metrics

NF Registrator metrics used in containerized deployment.

Table 1 Charging NF Registrator Metrics

| Metric name | Metric description | Type | Metric Labels | Metric Label Description |
|---|--|---------|---------------|--|
| cha_nfreg_nrf_registration_http_requests_total | Number of requests sent to a NRF server or Number of requests retransmitted to a NRF server. | Counter | method | The HTTP Verb. Possible Values: PUT, PATCH, DELETE. |
| | | | operation | The Service operation that has been performed.. Example Values: Register, Update, Heart-Beat, Deregister. |
| | | | retransmitted | Indicates whether the request is retransmitted. Possible values: Yes, No. |
| cha_nfreg_nrf_registration_http_requests_errors_total | Number of requests failed. | Counter | code | The Error Response code to represent the reason of failure. Possible Values: HTTP Response Code (3xx, 4xx, 5xx). |
| | | | method | The HTTP Verb. Possible Values: PUT, PATCH, DELETE. |



Table 1 Charging NF Registrator Metrics

| Metric name | Metric description | Type | Metric Labels | Metric Label Description |
|--|---|---------|---------------|---|
| | | | operation | The Service operation that has been performed.. Example Values: Register, Update, Heart-Beat, Deregister. |
| cha_nfreg_nrf_registration_http_request_duration_seconds | Average time taken to process a request. The unit of measurement is milliseconds. | Summary | method | The HTTP Verb. Possible Values: PUT, PATCH, DELETE. |
| | | | operation | The Service operation that has been performed.. Example Values: Register, Update, Heart-Beat, Deregister. |
| cha_nfreg_authz_http_requests_total | Number of OAuth requests sent or retransmitted to a NRF OAuth server. | Counter | method | The HTTP Verb. Possible Value: POST. |
| | | | operation | The Service operation that has been performed. Possible Value: AccessTokenRequest. |
| | | | retransmitted | Indicates whether the request is retransmitted. Possible values: Yes, No. |



Table 1 Charging NF Registrator Metrics

| Metric name | Metric description | Type | Metric Labels | Metric Label Description |
|--|---|---------|---------------|--|
| cha_nfreg_authz_http_requests_errors_total | Number of requests failed. | Counter | code | The Error Response code to represent the reason of failure. Possible Values: HTTP Response Code (3xx, 4xx, 5xx). |
| | | | method | The HTTP Verb. Possible Value: POST. |
| | | | operation | The Service operation that has been performed. Possible Value: AccessTokenRequest. |
| cha_nfreg_authz_http_request_duration_seconds | Average time taken to process a request. The unit of measurement is milliseconds. | Summary | method | The HTTP Verb. Possible Value: POST. |
| | | | operation | The Service operation that has been performed. Possible Value: AccessTokenRequest. |
| cha_nfreg_logstreaming_tcp_requests_errors_total | Number of requests that resulted in error when streaming the log events towards the log transformer. | Counter | appender_name | The name of the appender which is used for streaming the log events |
| cha_nfreg_logstreaming_tcp_queue_events_count | Number of log events present in the streaming appender's queue which are yet to be sent to the log transformer. | Gauge | appender_name | The name of the appender which is used for streaming the log events |