



CHA NF Registrar Performance Management Function Guide

Used in containerized deployment

User Guide

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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.



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Charging NF Registrar Metrics

NF Registrar metrics used in containerized deployment.

Table 1 Charging NF Registrar 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 Registrar 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 Registrar 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