

CHA Snapshot Producer 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 Snapshot Producer Metrics

Snapshot Producer metrics used in containerized deployment.

Table 1 Charging Snapshot Producer Metrics

Metric name	Metric description	Type	Metric Labels	Metric Label Description
cha_snapshot_producer_internal_resource_statistics	Counter for Charging Internal Statistics.	Gauge	type	Possible Value: regulation
			entity	Possible Value: entity, e.g. Rf-Core-Average-Latency
cha_snapshot_producer_cil_data_mgmt_java_requests_total	Number of CIL Data Management operations performed	Counter	customer_partition	Represents the Partition ID where the customer belongs.
			method	The Service operation that has been performed. Possible Values: get, put, delete.
cha_snapshot_producer_cil_data_mgmt_java_requests_errors_total	Number of CIL Data Management operations resulted in an error	Counter	code	Charging Internal Response Code to represent the reason of failure.
			customer_partition	Represents the Partition ID where the customer belongs.
			method	The Service operation that has been performed. Possible Values: get, put, delete.



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Metric name	Metric description	Type	Metric Labels	Metric Label Description
cha_snapshot_producer_cil_data_mgmt_java_request_duration_seconds	Time taken to perform the requested operation via CIL Data Management Service. The unit of measurement is milliseconds	Summary	customer_partition	Represents the Partition ID where the customer belongs.
			method	The Service operation that has been performed. Possible Values: get, put, delete.
cha_snapshot_producer_coba_data_mgmt_java_requests_total	Number of COBA Data Enquiry operations performed.	Counter	table	Represents the COBA table data that has been retrieved.
cha_snapshot_producer_coba_data_mgmt_java_requests_errors_total	Number of COBA Data Enquiry operations resulted in an error.	Counter	code	Charging Internal Response Code to represent the reason of failure.
			table	Represents the COBA table data that has been retrieved.
cha_snapshot_producer_coba_data_mgmt_java_request_duration_seconds	Time taken to perform the requested operation via COBA Data Enquiry Service. The unit of measurement is milliseconds.	Summary	table	Represents the COBA table data that has been retrieved.
cha_snapshot_producer_rmca_data_enquiry_java_requests_total	Number of RMCA Data Management requests executed.	Counter	operation	Possible Values: get



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Metric name	Metric description	Type	Metric Labels	Metric Label Description
cha_snapshot_producer_rmca_data_enquiry_java_requests_errors_total	Number of RMCA Data Management requests resulted in an error.	Counter	code	Charging Internal Response Code to represent the reason of failure.
			operation	Possible Values: get
cha_snapshot_producer_rmca_data_enquiry_java_request_duration_seconds	Average response time of a RMCA Data Management request. The unit of measurement is milliseconds.	Summary	operation	Possible Values: get
cha_snapshot_producer_cpm_data_enquiry_java_requests_total	Number of CPM Data Enquiry requests executed.	Counter	operation	Possible Values: getCustomerAndContract, getPartyRoleAndContract
cha_snapshot_producer_cpm_data_enquiry_java_requests_errors_total	Number of CPM Data Enquiry requests resulted in an error.	Counter	code	Charging Internal Response Code to represent the reason of failure.
			operation	Possible Values: getCustomerAndContract, getPartyRoleAndContract
cha_snapshot_producer_cpm_data_enquiry_java_request_duration_seconds	Average response time of a CPM Data Enquiry request. The unit of measurement is milliseconds.	Summary	operation	Possible Values: getCustomerAndContract, getPartyRoleAndContract
cha_snapshot_producer_event_posting_kafka_total	Number of Event Records sent in the kafka interface.	Counter	customer_partition	Represents the Partition ID where the customer belongs.



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Metric name	Metric description	Type	Metric Labels	Metric Label Description
			topic	The kafka topic the event was sent to.
			type	Represents the event record type that is being posted. Example: BalanceSnapshot Event.
			transport_layer	Messaging mode. Possible values: CIL, MSG
cha_snapshot_producer_event_posting_kafka_errors_total	Number of Event Records failed to send in the kafka interface.	Counter	code	Charging Event Result Code to represent the reason of failure. Example: 3002.
			customer_partition	Represents the Partition ID where the customer belongs.
			topic	The kafka topic the event was sent to.
			type	Represents the event record type that is being posted. Example: BalanceSnapshot Event.
			transport_layer	Messaging mode. Possible values: CIL, MSG



Table 1 Charging Snapshot Producer Metrics

Metric name	Metric description	Type	Metric Labels	Metric Label Description
cha_snapshot_producer_customer_balance_snapshot_requests_total	Number of customers evaluated for balance information of billing account buckets during snapshot execution.	Counter	customer_partition	Represents the Partition ID where the customer belongs.
cha_snapshot_producer_customer_balance_snapshot_requests_errors_total	Number of customers failed to evaluate for balance information of billing account buckets during snapshot execution.	Counter	customer_partition	Represents the Partition ID where the customer belongs.
			reason	The failure reason during snapshot execution.
cha_snapshot_producer_contract_balance_snapshot_requests_total	Number of contracts evaluated for balance information of product buckets during snapshot execution.	Counter	customer_partition	Represents the Partition ID where the customer belongs.
cha_snapshot_producer_contract_balance_snapshot_requests_errors_total	Number of contracts failed to evaluate for balance information of product buckets during snapshot execution.	Counter	customer_partition	Represents the Partition ID where the customer belongs.
			reason	The failure reason during snapshot execution.



Table 1 Charging Snapshot Producer Metrics

Metric name	Metric description	Type	Metric Labels	Metric Label Description
cha_snapshot_producer_partner_balance_snapshot_requests_total	Number of partners evaluated for balance information of settlement account buckets during snapshot execution.	Counter	customer_partition	Represents the Partition ID where the customer belongs.
cha_snapshot_producer_partner_balance_snapshot_requests_errors_total	Number of partners failed to evaluate for balance information of settlement account buckets during snapshot execution.	Counter	customer_partition	Represents the Partition ID where the customer belongs.
			reason	The failure reason during snapshot execution.
cha_snapshot_producer_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_snapshot_producer_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