



CMP 8.14

Purge Guide

Version 1.1

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Version Control

Version	Issue Date	Author	Comments
Version 1.1	03 April 2024	MDS	CMP 8.14 Release - Updated the System Activity Purge topic with the new probe and alert history purge option; added the Comms Purge job.

Terms Used in this Document

For definitions and explanations of the terms, abbreviations and acronyms used in this document, please see the *CMP Glossary* document.

1.0 Introduction

Purging is an important consideration in the day-to-day operation of CMP because it helps to keep obsolete or unwanted data to a minimum (subject to regulatory constraints) and can improve the application's performance. CMP offers a suite of routines (Java batch jobs) to facilitate purging, which run in the SABRE Admin Console.

For each purge routine, this document:

- Describes its high-level selection criteria and business rules (i.e. what gets purged).
- Highlights the CMP tables that are directly impacted by that purge.
- Indicates whether purged data can be archived on backup media (see note).
- Describes how to run the job.



Due to GDPR changes, related purged records do not get archived regardless of whether a job offers an archive option.

2.0 Purge Routines

The Administration Console purge routines include:

- [Archive Management](#)
- [Comms Purge](#)
- [Consumer Purge](#)
- [Interface Purge](#)
- [System Activity Purge](#)

2.1 Archive Management

Job type: Java

Batch job name: Archive Management

Archive: Optional



For more information on this job, see the **Job Details** in the Administration Console: In the console, navigate to **Daily Operations > Jobs**. In the **Job List**, click the name of job to open its **Job Details** screen.

The Archive Management purge job is responsible for the dropping and optional archive of customer transaction data partitions for the PrepaidUsage and PrepaidRatedUsageAllowance tables.

The job creates an InterfaceBatchHeader record for each invocation, and initially sets the stage to *Batch* and status to *In Progress*. The job looks for the partitions associated with PrepaidUsage and PrepaidRatedUsageAllowance tables.

The job drops the partitions that have been created prior to or on the calculated purge date. If the `archiverequired` property is set to `yes`, a copy of the partition is transferred to the archive directory on the archive server prior to dropping the partition. This copy is stored on the archive server as a CSV file. The archive server hostname, username, password and port are set as properties for the job in the Administration Console.

For each partition that is removed the job creates an InterfaceBatchDetails record as follows:

- CustomerLevel = Empty
- CustomerReference = Empty
- TransactionDescription = e.g. `prepaid usage partition 12-August-2021 purged` or `prepaid usage partition 12-August-2021 archived` depending on whether an archive was requested or not
- Ensures that the `isRetain` field is set to `true`.

After all partitions are removed, the job updates the InterfaceBatchHeader record, by setting the status to *Complete*.

Selection criteria

The job accepts a single parameter - Days to Retain. This represents the number of days worth of data to retain. The job subtracts this parameter from the current date to calculate a purge date. Only data dated on or before the calculated purge date is purged. Partitions are created daily; any partitions with a creation date prior to the calculated purge date are removed. Any transaction data prior to the retention period will be permanently removed.



A value of zero (0) is not allowed as a parameter.

2. 1. 1 Tables Impacted:

- PrepaidUsage
- PrepaidRatedUsageAllowance

Running the purge job

In the Administration Console, you can create a schedule for the purge job or run it as needed.

To run a job:

1. Navigate to **Daily Operations > Jobs**.
2. In the **Job List**, select the checkbox for the job that you want run.
3. Click **Run Now**.

2. 2 Comms Purge

Job type: Java

Archive: None



For more information on this job, see the **Job Details** in the Administration Console: In the console, navigate to **Daily Operations > Jobs**. In the **Job List**, click the name of job to open its **Job Details** screen.

The Comms Purge job is responsible for removing customer communication information stored in CMP.

The job derives a calculated purge date based on how long data should be retained before it can be purged. Only communications related data that were generated on or before the calculated purge date will be considered by the job.

Selection criteria

The job accepts a single parameter - Months to Retain. This represents the number of months worth of data to retain. The job subtracts this parameter from the current date to calculate a purge date. The months to retain can be entered manually when the job is run. If no value is provided then the value configured for the module property `comms.purge.default.noofmonths` will be used.

Any transaction data prior to the retention period will be permanently removed.



A value of zero (0) is not allowed as a parameter.

A *creationDate* attribute enables partitions to be created to support the Comms Purge job. Partitions are created daily; any partitions with a creation date prior to the calculated purge date are removed.

2.2.1 Tables Impacted:

- Comms Request Header
- Comms Request Target Detail
- Comms Request Target Distribution
- Comms Request Error
- Comms Request Field Detail
- Comms Request Not Sent

Running the purge job

In the Administration Console, you can create a schedule for the purge job or run it as needed.

To run a job:

1. Navigate to **Daily Operations > Jobs**.
2. In the **Job List**, select the checkbox for the job that you want run.
3. Click **Run Now**.

2.3 Consumer Purge

Job type: Java

Archive: None



For more information on this job, see the **Job Details** in the Administration Console: In the console, navigate to **Daily Operations > Jobs**. In the **Job List**, click the name of job to open its **Job Details** screen.

2.3.1 Selection criteria

This job removes personal customer information, such as contact names or account passwords for terminated single subscription accounts only, following a Subscription Anonymity Request. The job considers only records where anonymity request status = P (Pending) on the SubscriptionAnonymityRequest table.

For eligible records, the job updates the anonymity request status to I (In Progress) and invokes the purge logic for the subscription in question. The job deletes records where possible and obfuscates data where it is not possible to delete records. Certain data cannot be deleted (for example, usage) because legally there is a requirement to store this for a certain period of time or there may be database constraints, for example an address is still in use because an account has multiple subscriptions.

Once a subscription has been anonymised, the job sets the anonymity request status to either C (Complete) or E (Error) and sets the processed date time on the SubscriptionAnonymityRequest record to the current date and time.

The following table lists the records that are either deleted or obfuscated:

Data	Action
Subscription Services	Deleted
Subscription Tariff History	Deleted
Subscription Features	Deleted
Subscription Bar History	Deleted
Workflow Activity (including notes, actioned items and sales, ledger adjustments)	Deleted
Contract History	Deleted
Subscription Serial Numbers. including SIM data)	Deleted
Communications History	Deleted
Communications Settings and Preferences	Deleted
Subscription Spend Cap	Deleted
Customer Email Address	Deleted
Direct Debit Mandates	Deleted
Credit Card Information	Deleted
Subscription Discounts	Deleted
Subscription Purchases	Deleted
Subscription Username	Obfuscate*
Password	Obfuscate
Agreement Expiry Date	Set to the current date
Account Contact Name	Obfuscate
For Attention Of Name	Obfuscate
Account Password	Obfuscate
Account Password	Obfuscate
Account PIN	Obfuscate
Delivery Address Name	Obfuscate
Address Lines 1 - 3	Obfuscate
Post Code	Obfuscate
Telephone Numbers x 2	Obfuscate
Fax Number	Obfuscate
Date of Birth	Obfuscate

For numeric fields, the field is set to 0 (zero) or null value, for alphanumeric fields the field is obscured with asterisks ().

Running the purge job

In the Administration Console, you can create a schedule for the purge job or run it as needed.

To run a job:

1. Navigate to **Daily Operations > Jobs**.
2. In the **Job List**, select the checkbox for the job that you want run.
3. Click **Run Now**.

2.4 Interface Purge

Job type: Java

Batch job name: Interface Purge

Archive: None



For more information on this job, see the **Job Details** in the Administration Console: In the console, navigate to **Daily Operations > Jobs**. In the **Job List**, click the name of job to open its **Job Details** screen.

This job purges transaction data that has been successfully committed to CMP. Once data is successfully moved into the CMP database, there is no need to store the information in the equivalent interface batch detail tables. Inbound batch jobs, for example Rated Usage, set the `isRetain` field on InterfaceBatchDetail tables to `false`, which effectively moves the record into the discard partition, which is in turn sub-partitioned by creation date. The Interface Purge job removes discarded partitions and thus transaction data from the InterfaceBatchDetail table and by default the UsageBatchDetail table if the partitions' creation date is outside a cut-off point - the calculated purge date. Once the job is complete, information such a customer level, customer reference, and transaction description are either empty or removed.

The job creates an InterfaceBatchHeader record for each invocation, and initially sets the stage to *Batch* and status to *In Progress*. Then it drops the InterfaceBatchDetail, UsageBatchDetail and UsageAllowanceBatchDetail partitions. The job also drops daily partitions older than 90 days from the following tables:

- Order Request Batch Detail
- Order Dispatch Batch Detail
- Order Dispatch Line Batch Detail
- Order Dispatch Line Attribute Batch Detail
- Usage Allowance Batch Detail.

Next the job creates an InterfaceBatchDetail record for each partition that is removed as follows:

- Customer Level =Empty
- Customer Reference =Empty
- Transaction Description = e.g. `usage partition 15-Jan-2020 removed`
- ensures that the `isRetain` field is set to `true`.

After all partitions are removed, the job updates the InterfaceBatchHeader record, by setting the status to *Complete*.

Selection criteria

The job accepts a single parameter - Days to Retain. This represents the number of days worth of data to retain. The job subtracts this parameter from the current date to calculate a purge date. Only data dated on or before the calculated purge date is purged. Partitions are created daily; any partitions with a creation date prior to the calculated purge date are removed. Any transaction data prior to the retention period will be permanently removed.



A value of zero (0) is not allowed as a parameter.

2. 4. 1 Tables Impacted:

- InterfaceBatchDetail
- UsageBatchDetail
- UsageAllowanceBatchDetail

Running the purge job

In the Administration Console, you can create a schedule for the purge job or run it as needed.

To run a job:

1. Navigate to **Daily Operations > Jobs**.
2. In the **Job List**, select the checkbox for the job that you want run.
3. Click **Run Now**.

2. 5 System Activity Purge

Job type: Java

Batch job name: System Activity Purge

Archive: None



For more information on this job, see the **Job Details** in the Administration Console: In the console, navigate to **Daily Operations > Jobs**. In the **Job List**, click the name of job to open its **Job Details** screen.

This job is responsible for the purge of CMP system activity data, for example, records generated by the batch job framework, records of AgentView activity, records of provisioning activity and records of probe and alert history. This job purges system activity records from:

- The Activity table, which holds records that are accumulated into the Activity Summary record and used by the CMP batch framework to generate job execution estimates. The job deletes records where `ENDDATETIME` \leq the calculated purge date.
- The NetworkRequestLog table, where `AUDITTIMESTAMP` \leq the calculated purge date AND the status of the associated event is *Resolved*, along with their associated child record in s:
 - The NetworkRequestLogHistory table.
 - NetworkActivityLog table, where child records have:
 - Activity Type of 1
 - ActivityReference=Action Item Number of the NetworkRequestLog record.
- The AuditHeader table where `EVENTTIME` \leq the calculated purge date, along with the associated *child* records in the AuditDetail table.
- The ProbeHistory table, where the probe and alert records are deleted as defined in the Months to Retain field.
- Spring Batch framework records:
 - Records in the Batch_Job_Execution table where `LAST_UPDATED_DATETIME` \leq the calculated purge date are deleted along with their associated child records in the following tables:
 - Batch_Job_Instance
 - Batch_Job_Execution_Context
 - Batch_Job_Execution_Params
 - Batch_Step_Execution
 - Batch_Step_Execution_Context

Each invocation of the job produces a summary audit of system activity data removed.

Selection criteria

The job accepts a single parameter - Months to Retain. This represents the number of months worth of data to retain. The job subtracts this parameter from the current date to calculate a purge date. Only system activity data dated on or before the calculated purge date is purged. Any system activity data prior to the retention period will be permanently removed.



A value of zero (0) is not allowed as a parameter.

2. 5. 1 Tables Impacted:

- Activity
- Audit Header
- Audit Detail
- Network Request Log
- Network Request Log History
- Network Activity Log
- Probe History
- Batch_Job_Execution
- Batch_Job_Instance
- Batch_Job_Execution_Context
- Batch_Job_Execution_Params
- Batch_Step_Execution
- Batch_Step_Execution_Context

Running the purge job

In the Administration Console, you can create a schedule for the purge job or run it as needed.

To run a job:

1. Navigate to **Daily Operations > Jobs**.
2. In the **Job List**, select the checkbox for the job that you want run.
3. Click **Run Now**.