



CMP v8.3 - Product Release Note

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1.0 Introduction

1.1 Scope

This document provides an overview of the CMP 8.3 release with specific focus on the additional functional and non-functional enhancements with respect to CMP 8.2.

1.2 Audience

This document is intended for both internal and external use for readers familiar with CMP to explain the key features of the release including any changes in how existing functions or processes are working.

2.0 Release Scope

2.1 Core CMP Modules

The following modules form the basis of the CMP 8.3 release:

Module	Version
agent-view	8.6.56
agent-view-interfaces-layer	8.6.123
agent-view-servlet	8.4.7
bulk-action-console	1.5.39
cmp-database-pkg	8.6.30
configuration-centre	8.6.68
published-interfaces-layer	8.6.17
rest-ws	2.5.90
role-extender	8.5.1
soap-ws	8.6.20
wso2is-login	1.5.1
sabre-action-monitor	2.4.5
sabre-advance-notification	1.2.2
sabre-analyser-extract	2.4.6
sabre-batch-error-management	2.2.1
sabre-bill-print	2.5.4
sabre-bulk-action-framework	1.8.7
sabre-comms	2.5.18
sabre-console	1.10.119
sabre-credit-control	2.4.9
sabre-credit-reference	2.5.4
sabre-dal	2.5.79
sabre-data-fix	1.1.11
sabre-data-warehouse	2.5.9
sabre-debt-recovery-agency	2.5.4
sabre-device-enrolment	1.3.5
sabre-device-enrolment-adaptor	1.0.3
sabre-edit-subscription	1.8.2
sabre-external-configuration	2.5.10
sabre-external-log-collector	1.0.3
sabre-external-reference-upload	1.8.6
sabre-gdpr-purge	2.5.6
sabre-general-ledger	1.2.9
sabre-generic-activity-adapter-daemon	2.2.3
sabre-generic-postingout-daemon	2.2.2
sabre-interface-purge	1.2.2
sabre-invoice-posting	2.4.6

sabre-invoice-production	2.5.5
sabre-ledger-monitor	2.4.2
sabre-managed-number-monitor	2.5.8
sabre-managed-numbers	2.4.7
sabre-manage-plan-tariff-change	1.1.9
sabre-manage-sales-ledger-adjustment	1.0.34
sabre-manage-subscription-feature	1.1.10
sabre-manage-workflow	1.1.9
sabre-mandate-registrations	2.4.3
sabre-mandate-revisions	2.4.3
sabre-mdsledger-adapter	2.3.2
sabre-non-recurring-payments	2.5.9
sabre-order-request	2.1.28
sabre-provisioning	2.5.4
sabre-rated-charge	2.5.4
sabre-rated-usage	2.5.6
sabre-receipt-pdf-collection-adapter	2.2.2
sabre-receipt-print	2.5.3
sabre-recurring-payments	2.5.6
sabre-recurring-pre-payments	1.4.13
sabre-sales-order	1.3.4
sabre-sales-order-adapter	1.0.3
sabre-sales-order-dispatch	2.1.15
sabre-server	1.10.119
sabre-sim-profile	2.5.6
sabre-statement-production	2.3.2
sabre-usage-archiving	2.3.3
sabre-workflow-monitor	2.5.5

In addition, the following third-party components are included:

Module	Version
wso2is	5.0.7-17
jboss-postgres-jdbc-driver-eap7	1.0-44
webswing	2.5.5-52

The third-party components above are dependent on the following configuration modules:

Module	Version
jboss-aviewiface-address-lookup-interface-eap7	8.6-123
jboss-aviewiface-stock-check-interface-eap7	8.6-123
jboss-aviewiface-configuration-eap7	1.0-44
jboss-aviewiface-ocs-interface-eap7	8.6-123

jboss-ccentre-configuration-eap7	1.0-44
jboss-pil-configuration-eap7	1.0-44
jboss-soapws-configuration-eap7	1.0-44

2.2 Optional CMP Modules

The following modules are not part of the core CMP 8.3 release but are considered optional modules that can be installed if required based on the specific installation requirements:

Module	Version
sabre-bottomline-pdf-collection-adapter	2.2.2
sabre-smpp-adapter	1.2.2

If any of these modules are required for the installation, then they should be added to the 'additional_modules' section of the inventory file.

2.3 UK-specific Adaptors

The following modules are provided specifically for the UK market to support BACS direct debit payments and credit reference extracts to Equifax:

Module	Version
sabre-addacs-transformation-adapter	2.3.2
sabre-addacs-xml-adapter	1.1.4
sabre-arucs-transformation-adapter	2.3.2
sabre-arucs-xml-adapter	1.1.4
sabre-arudd-xml-adapter	1.1.4
sabre-auddis-transformation-adapter	2.2.2
sabre-auddis-transformation-inbound-adapter	2.3.2
sabre-auddis-xml-adapter	1.1.4
sabre-awacs-transformation-adapter	2.3.2
sabre-awacs-xml-adapter	1.1.4
sabre-bacs-transformation-adapter	2.3.2
sabre-bacs-xml-common	1.1.3
sabre-recurring-bank-payments-bacs-adapter	2.1.2
sabre-equifax-insight2001	2.2.1
sabre-experian-transformation-adapter	2.3.2

Note that these modules are not installed by default and if required should be added to the 'additional_modules' section of the inventory file as required. Note that some of these adaptors are mutually exclusive and therefore the specific modules that need to be added to the inventory file are dependent on the specifics of the deployment.

2.4 OCS-specific Adapters

The following modules are provided specifically for a Real Time Charging environment to support use of either Openet or Lifecycle as the external Online Charging System (OCS) integrated into CMP:

Module	Version
openet-synchronous-provisioning-impl	8.5.17
sabre-openet-bill-cycle-adapter	1.9.3
sabre-openet-provisioning-adapter	2.4.11
sabre-openet-recurring-prepayment-adapter	1.1.2
sabre-openet-usage-adapter	2.4.5
lifecycle-synchronous-provisioning-impl	8.5.32
sabre-lifecycle-provisioning-adapter	2.4.55
sabre-lifecycle-provisioning-response-adapter	2.4.37
sabre-lifecycle-usage-adapter	2.4.19

Note that these modules are not installed by default and if required should be added to the 'additional_modules' section of the inventory file.

3.0 New and Changed Functionality

3.1 Introduction

CMP 8.3 introduces a number of functional and non-functional changes with respect to CMP 8.2. This includes new functionality as well as changes to existing functionality and non-functional improvements. These changes can be summarised as follows:

3.2 New functionality

3.2.1 Spend Caps

In CMP 8.3, the existing usage caps functionality has been extended to include any one-off bolt-on purchases within the spend limit. In accordance with the extended functionality, 'Usage Caps' have been renamed to 'Spend Caps'. CMP can be configured to support spend caps that are based on only overage or on both overage and bolt-on purchases.

Spend Cap functionality is identical to the Usage Cap functionality within CMP 8.2 except that, if the system is configured to do so, any postpaid one-off bolt-on purchases will also be counted against the overall spend cap. A one-off bolt-on purchase will be prevented if the amount of the purchase would exceed the configured spend cap. One-off bolt-on purchases made via a credit card will not impact an existing spend cap.

The spend cap amount is automatically reset at the end of the bill cycle.

3.2.2 Spend Cap Audit History

Whilst Spend Caps can be changed in CMP 8.2, the change history of the cap amount was not recorded in CMP. In CMP 8.3 the Spend Cap History panel now shows the cap amount change history and the status of the change request. Spend Cap Audit History changes are detailed in section 4.2.2.6 below.

3.2.3 Bulk Sales Ledger Adjustments

CMP 8.3 provides a new Bulk Action that enables Sales Ledger Adjustments to be applied to a set of accounts provided in a bulk action driver file. The file is created manually and uploaded as the first stage of the Bulk Action job. The new Sales Ledger Adjustment Bulk Action is described further in section 4.3.1.1.

3.2.4 Handling of summary CDRs for Data

The Openet Online Charging System provides granular usage data records for data sessions which leads to a significant number of usage records that are stored in CMP. These details records are visible in the Usage Data popup in AgentView. CMP 8.3 now allows either aggregated or granular usage data records to be stored in CMP. Details of this capability are provided in section 4.9.1 below.

3.2.5 Business Configuration Changes

CMP 8.3 has introduced two new menu options in the 'System' section of Business Configuration:

- Workflow Properties

- System Properties.

The 'Workflow Properties' option allows the workflow events that are configured by default for specific business processes to be changed based on the available workflow events configured in the system (see section 4.5.1.2 below).

The 'System Properties' option allows the predefined system properties to be viewed and maintained as required. Some system properties are not editable through this option as they are maintained instead through the External Configuration module properties. Further details can be found in section 4.5.1.1 below.

3.2.6 Administration Console Changes

3.2.6.1 Network Requests Screens

In CMP 8.3, a new menu option has been added to the System Monitoring menu option that allows the status of all network requests to be viewed. Network requests are things such as network connection requests, number changes and subscriber activations for example. Each request can be expanded to show the request details (see section 4.4.8.1 below).

3.2.6.2 Data fix module

In order to allow ad hoc fixes to CMP data records in the CMP database, a new batch job has been introduced into CMP 8.3 that allows pre-packaged SQL files to be executed to resolve these data record issues (see section 4.4.3.1).

3.2.6.3 Consumer Purge Process

A new process has been introduced in CMP 8.3, 'Data Warehouse - Consumer Postpaid', that is used to run all analytics jobs related to postpaid subscribers one after another. A probe is also provided to check that the expected number of extracts have been produced on the file system (see section 4.4.1 for further details).

3.2.7 RESTful GET Packages Web Service

CMP 8.3 introduces a new REST web service to allow an external system to get information on the packages associated with a subscription. The request can filter the results based on the package classification (Base, Bolt-on or Top-up) and also based on whether the package is active or not (see section 4.7.1.1 below).

3.2.8 Integration with Lifecycle OCS

In addition to supporting the integration to the Openet PCC Online Charging System, CMP 8.3 now also provides integration to the Lifecycle OCS. Details of the supported use case provided by the integration are specified in 4.10 below.

3.3 Changed Functionality

3.3.1 Purchases & Payments

The purchase and payments functionality has been enhanced in CMP 8.3 to support one-off payments and purchases using a payment card registered against the account. If a payment card is already stored in CMP then it is also possible to change the payment

method on the account to credit/debit card. Purchase and payment enhancements are further described in sections 4.2.2.1 to section 4.2.2.4 below.

3.3.2 Business Configuration Changes

3.3.2.1 Discounts Configuration

The existing Discounts configuration screens, available through the Propositions main menu option, have been updated to remove unsupported attributes and improve the overall useability of the configuration options. Details of the specific changes can be found in section 4.5.2.1 below.

3.3.3 Administration Console Changes

3.3.3.1 Logs

CMP 8.3 now provides access to log files other than the sabre server logs available in 8.2. Log files can be downloaded to the local file system for detailed analysis and reporting (see section 4.4.8.2 below).

3.3.3.2 Module Property Presentation

CMP 8.3 has improved the presentation of module properties so that it is easier to understand what properties are related to what job or daemon. The module properties are now grouped into related job or daemon properties with a heading output above the grouping to make it easier to see what properties relate to what job or daemon.

In addition, module property conflicts are now handled such that it will no longer be necessary to redeploy the module where conflicts between the old and new set of properties are observed. Further details are provided in section 4.4.9.1 below.

3.3.4 RESTful Payments Web Service

3.3.4.1 Purchase & Payments

The Create Payment, Create Purchase and Update Payment web services have been updated to support additional attributes to enable an external system to specify card and payment reference information (see sections 4.7.2.1 to 4.7.2.3 below).

4.0 CMP Impact

4.1 Introduction

The functional and non-functional changes highlighted in section 3.0 above have had an impact CMP in the following areas:

- New and changed AgentView screens
- Bulk Action changes
- Admin Console changes
- New and changed Business Configuration screens
- SOAP web services changes
- RESTful web services changes
- Integration adapter changes
- Openet-specific adapter changes
- UK-specific adapter changes.

4.2 AgentView Changes

4.2.1 New Screens

There are no new AgentView screens in CMP 8.3.

4.2.2 Changed Screens

4.2.2.1 Payment History

The Payment History screen in CMP 8.2 has been renamed to 'Payments' in CMP 8.3 as the screen doesn't only contain a history of payments made against the account but is also used to add one-off payments and refunds.

In addition, the display of the Payment Type and Payment Source has been improved specifically around payments from a prepaid balance. In CMP 8.2, a payment from balance was presented with a blank Payment Type and a Payment Source of 'Prepaid Balance'. This has now been changed so prepaid balance payments have a type of 'BALANC' and the source represents the way the payment was taken i.e. recurring payment, online payment etc.

4.2.2.2 Add Payment

The Add Payment screen has been enhanced in CMP 8.3 to support the taking of a payment from a registered card on the account. When making a one-off payment, a checkbox is provided to the agent to allow them to use a card already registered on the account. If there is a registered card then the 'Use registered card' checkbox is ticked and the associated drop down provides a list of registered cards for the agent to choose from. If there is no registered card on the account then the checkbox is display only. If the checkbox is unchecked then the agent is able to enter card details for the one-off payment.

4.2.2.3 Change Payment Type

Within the Account Summary screen there is a hyperlink on the Payment Type field that allows an agent to change the payment method of the account. In CMP 8.3, it is now possible to change the Payment Type to a card payment method and use the existing registered card on the account. If no card is registered on the account then it will not be possible to change to a card payment method.

4.2.2.4 Purchase Product

The Purchase Product screen in AgentView has been enhanced to allow for a purchase to be made from a registered card on the account. The screen has been modified so now it is possible to explicitly select between an existing registered card or a new card. If no card is registered on the account then the payment option via registered card is disabled.

4.2.2.5 Usage Caps

As a result of the change of Usage Caps to Spend Caps as highlighted in section 3.2.1 above, the following AgentView screens have been impacted:

- Subscription Summary - Billing - Usage Caps swish and bottom panel
- Add/Edit Usage Cap popup panel – the title and the label have been renamed.

4.2.2.6 Subscription Spend Cap History

In CMP 8.2 the Usage Cap History popup, available from the Usage Cap swish at the subscription level did not show information on the cap amount that was set. In CMP 8.3, the screen has been renamed to 'Subscription Spend Cap History' and the cap amount has been added to the popup panel as well as the status of the cap change request so failed cap updates can be viewed along with successful ones.

4.2.2.7 Bulk Change Option

In CMP 8.2 within the Customer Structure view of AgentView, an agent was able to right click on a group of subscriptions and be presented with a 'Bulk Change' option. This option launched a wizard to be able to perform one of several bulk actions against a group of subscription. In CMP 8.3 this option has been removed as it has been superseded by the Bulk Actions capability.

4.3 Bulk Action Changes

4.3.1 New Bulk Actions

CMP 8.3 introduces one new bulk action job:

- Add Sales Ledger Adjustment.

4.3.1.1 Add Sales Ledger Adjustment

The bulk Sales Ledger Adjustment (SLA) job allows for the creation of sales ledger adjustments for a collection of accounts specified in the excel file uploaded as part of the job specification.

The bulk Sales Ledger Adjustment job is available from the Bulk Actions menu and allows specification of a particular SLA amount to be applied to the account defined in the driver file. All accounts specified are validated as valid CMP entities. Sales Ledger amounts can be specified as positive or negative values. The workflow associated with the SLA is defined by the BULK_ACTION/ bulk.sales.ledger.adjustment.event property defined through the new Workflow Event Properties Business Configuration option. The service code used for the SLA is defined within the sabre-manage-sales-ledger-adjustment module properties.

4.3.2 Changed Bulk Actions

The following changes have been made to the bulk action jobs as part of CMP 8.3:

- The excel templates have been renamed as follows:
 - EditSubscriptionExcelTemplate.xlsx -> UpdateSubscription.xlsx
 - WorkflowEvent.xlsx -> AddWorkflowEvent.xlsx
 - Features.xlsx -> EnableDisableFeature.xlsx
 - Tariff.xlsx -> ChangePricePlanTariff.xlsx
- The Plan/Tariff screen has changed as follows:
 - The menu option that is used to access this panel has changed from 'Tariff' to 'Change Price Plan/Tariff'
 - The screen heading has changed from 'Tariff' to 'Change Price Plan/Tariff'
 - The first panel no longer has a 'Previous' button as this wasn't relevant
 - Price Plan is now marked as a mandatory field and it is no longer possible to proceed if this is not populated
 - It is no longer possible to search for, or enter, a tariff as the tariff is derived from the price plan
 - It is no longer possible to search for, or enter, a base package as the base package is derived from the price plan
 - The 'non network' option has been removed as it is not relevant
- The Edit Subscription screen has changed as follows:
 - The menu option that is used to access this panel has changed from 'Edit Subscription' to 'Update Subscription'
 - The screen heading has changed from 'Edit Subscription' to 'Update Subscription'
- The Features screen has changed as follows:
 - The menu option that is used to access this panel has changed from 'Features' to 'Enable/Disable Feature'
 - The panel heading has changed from 'Features' to 'Enable/Disable Feature'
 - The first panel no longer has a 'Previous' button as this wasn't relevant
- The Workflow Event screen has changed as follows:

- The menu option that is used to access this panel has changed from 'Workflow Event' to 'Add Workflow Event'
- The panel heading has changed from 'Workflow Event' to 'Add Workflow Event'
- The first panel no longer has a 'Previous' button as this wasn't relevant
- The icons have been changed to be unique per bulk action.

4.4 Admin Console Changes

4.4.1 New Processes

A new process has been introduced in CMP 8.3, 'Data Warehouse - Consumer Postpaid' that is used to run all analytics jobs related to postpaid subscribers, namely:

- Subscription Analytics Job
- Subscription Service Analytics Job
- Subscription Feature Analytics Job
- Account Analytics Job
- Agreement Analytics Job
- Unbilled Usage Analytics
- Billed Usage Analytics Job
- Unallocated Usage Analytics Job
- Invoice Detail Analytics Job
- Payment Detail Analytics Job
- Transaction Detail Analytics Job
- Purchase Analytics Job

A new probe has also been introduced to check that 12 files are produced for the above jobs.

4.4.2 Changes Processes

No processes have been changed for CMP 8.3.

4.4.3 New Batch Jobs

4.4.3.1 Data Fix

In order to allow fixes to CMP data records in the CMP database, a new batch job has been introduced into CMP 8.3 that allows pre-packaged SQL files to be executed to resolve these data record issues. Each pre-package SQL file will contain three distinct elements:

- Verification SQL - identifies the records to be fixed
- Execution SQL – the fix to the actual records
- Validation SQL - verifies that the fix executed successfully

Pre-packaged SQL will have a unique data fix identifier that will be passed to the job as a parameter. In addition, a verification count must be provided that indicates number of records the SQL is expecting to update.

This job would normally run from a scheduler for a specific data fix identifier.

4.4.3.2 Consumer Purge - Single Subscription Account

CMP 8.3 introduces a new Consumer Purge job that deletes and obfuscates data for terminated subscriptions. This job is only concerned with single subscription accounts i.e. not group, corporate or family accounts. The following data will not be purged:

- Usage Data and allowance data (including any archived data)
- Invoice information
- The main subscription, account and agreement records
- Ledger information
- Payment information.

The job accepts a single parameter, number of months, that represents the number of months' worth of data to retain. All terminated subscription data prior to or on the calculated purge date is removed where possible and obfuscated where not. The default value is 6 months.

4.4.4 Changed Batch Jobs

4.4.4.1 Data Warehouse Extracts

The following Data Warehouse Extracts have been updated so that they generate an output file even if there are no records to extract. A file is always produced with the first two lines populated i.e. version number and list of fields

- Subscription
- Account
- Agreement
- Unbilled Usage
- Prepaid Usage
- Unallocated Usage.

4.4.4.2 Recurring Payments Job

In CMP 8.2, if no run date was passed to the job when scheduled, the job failed to run. This has now been corrected in CMP 8.3 so that if no run date is provided when running or scheduling the job the job will use the current date as the run date.

4.4.4.3 Recurring Prepayments Job

In CMP 8.2 the Recurring Prepayment job only picked up prepayments due for the specific job processing date entered when running the job. In CMP 8.3, the Recurring Prepayments job now processes all prepayments that are due on or before the job processing date that haven't already been processed.

4.4.4.4 Recurring Prepayment Rejections Job

Typically, payments for recurring bolt-ons are taken a number of days before the end of the current allocation so that if the payment fails the subscriber's bolt-on is ended before it is automatically renewed by the OCS. However, if the payment is taken late, or if the payment rejection is received late, then the bolt-on should be expired immediately. The Recurring Prepayment Rejections job now caters for late arriving prepayment rejections by immediately ending the associated package.

4.4.4.5 Managed Number Monitor Job

In CMP 8.2, when the Managed Number Monitor job runs, it looks at numbers in a cooling off state and, if applicable, re-assigns these into the group of available numbers i.e. the management status will be reset back to 'Not Allocated'. Under certain circumstance, it is necessary to re-assign the numbers back to the original sales account/person when making them available again.

CMP 8.3 introduces a new job property, `managed.number.monitor.job.post.cooling.off.state`, that determines whether managed numbers are assigned into the general pool of available numbers or back to their original sales person once a number has cooled off. There are two possible values 'Dealer' or 'Not_Allocated'. This property is only taken into consideration when processing numbers in a cooled off state where the number was previously associated with a salesperson.

4.4.5 New Probes

A new alert probe, 'Extract Postpaid Analytics Completed', has been introduced in CMP 8.3 that checks if all the data warehouse jobs relating to postpaid consumer (see section 4.4.1) have run today and produced files. The probe is expecting a total of 12 files. If this query returns a value less than 12, this indicates some or all of the jobs have not run today and an alert will be sent to the recipients configured on this probe.

4.4.6 Deprecated Probes

The following probes are related to output for third parties. In CMP 8.2, probes were provided that identified whether a job and the associated extract daemon had run or not. It is only necessary to check for the end activity i.e. did the extract daemon run successfully or not and therefore the following probes have been deprecated in CMP 8.3:

- Mandate Registrations - Batch Complete
- Credit Reference - Batch Complete
- Debt Recovery - Batch Complete
- Bill Print - Batch Complete
- Invoice Posting - Batch Complete
- Recurring Payments Card - Batch Complete
- Recurring Payments Bank - Batch Complete

The following probes are related to the input from third parties into CMP. In CMP 8.2, probes were provided that identified whether a job and the associated load daemon had

run or not. It is only necessary to check for the end activity i.e. did the job run successfully or not and therefore the following probes have been deprecated in CMP 8.3:

- External Reference - Load Complete
- Mandate Revisions - Load Complete
- SIM Profiles - Load Complete
- Managed Numbers - Load Complete
- Rated Charges - Load Complete
- Recurring Payment Rejections - Load Complete
- Recurring Pre Payment Rejections - Load Complete
- Debt Recovery Response - Load Complete

4.4.7 System Management Changes

4.4.7.1 Schedules

In CMP 8.3 the Schedules option has been changed so that triggered jobs can no longer be scheduled to run. Trigger jobs are automatically triggered based on monitored events and are therefore not scheduled.

4.4.8 System Monitoring Changes

4.4.8.1 Network Requests Menu Option

In CMP 8.3, a new menu option has been added to the System Monitoring menu options that allows the status of all network requests to be viewed. Network requests are things such as network connection requests, number changes and subscriber activations for example. The list view shows all network requests and their corresponding status with the most recent requests listed first. A hyperlink on the request Id allows the detail of the request to be viewed. Requests can be filtered by network action type and status.

4.4.8.2 Logs

CMP 8.2 provided the user with a view of the sabre server logs only. To see other log files related to other applications required direct system access and a knowledge of the specific log file locations on the file system.

CMP 8.3 now provides access, through the Administration Console, to the following additional log files:

- Agent View
- Agent View Interfaces Layer
- Agent View Servlet
- Bulk Action Console
- Business Configuration
- Published Interfaces Layer
- REST Web Services

- SOAP Web Services.

Each log file can be downloaded to the local file system for detailed analysis.

4.4.8.3 Outage Misfire Logs

In CMP 8.2, triggered jobs are writing to the Outage misfire log. To ensure this log doesn't grow unnecessarily for a given outage, in CMP 8.3, after the initial record is written to the log, it is updated thereafter.

4.4.9 System Configuration Changes

4.4.9.1 Modules

Module Properties

In CMP 8.2 the module properties were listed in a continuous list making it difficult to distinguish between properties that relate to daemons as oppose to properties relating to the jobs themselves. This made it difficult to understand what a specific property related to and necessitated moving between the job and daemon metadata and the module properties.

In CMP 8.3, the module properties are now grouped into related job or daemon properties and with a heading output above the grouping to make it easier to see what properties relate to what job or daemon.

Auto-resolve of conflicting Properties

In CMP 8.2, if a property was added, removed or altered for a given module, it was necessary to edit the module, save and redeploy in order for the new module property to take effect. If the property was hidden, this process was not intuitive to an Admin Console user.

In CMP 8.3 conflicting properties always take effect once a module is deployed. On deployment of a module, hidden and read-only properties are always overwritten with latest default values. Where a hidden property has been made visible manually, then when the module is re-deployed the hidden property will not be redeployed.

A backup of the file is saved in the classpath-override directory on the file system prior to and property file upgrade.

4.5 Business Configuration Changes

4.5.1 New Screens

4.5.1.1 System Properties

CMP 8.3 provides a new set of screens to allow the viewing and update of system properties. These screens are accessible from a new menu option, 'System Properties', available from the 'System' main menu option.

On selecting the System Properties menu option, the user is presented with a list of currently defined system properties displayed in property name group and property name order.

Each property has an associated 'owner' that defines whether the property is maintained through the External Configuration module or through this System Properties list view. Properties defined with an owner of 'External Configuration' cannot be maintained through the System Properties option.

Note, there is no Add capability as system properties are under the control of the core product.

4.5.1.2 Workflow Properties

CMP 8.3 provides a new set of screens to allow the viewing and update of workflow properties. These screens are accessible from a new menu option, 'Workflow Properties', available from the 'System' main menu option.

On selecting the Workflow Properties menu option, the user is presented with a list of currently defined workflow events associated with specific business processes. Workflow events are displayed in property name group and property name order.

The default workflow event associated with each property can be changed by selecting the appropriate property and using the Edit button to select an alternative workflow event and type from the available dropdowns.

Note, there is no Add capability as workflow properties are under the control of the core product.

4.5.1.3 Add Discount Scheme

The Add option available from the Discount List screen allows a user to add a new discount scheme. The user can enter a code, description and effective date of the new scheme and then associate one or more subscription services against which the discount will be applied at billing time. Multiple Discount Scheme Service Value Bands can be configured for each Discount Scheme Service that indicates the discount to be applied based on the value of the service to be discounted. Values can be defined as a percentage discount of the subscription service price or as a fixed amount.

4.5.2 Changed Screens

4.5.2.1 Discounts Configuration

The existing Discounts configuration screens, available through the Propositions main menu option, have been updated to remove unsupported attributes and improve the overall useability of the configuration options.

The List view has been simplified to remove the 'Discount Type' and 'Calculation Frequency' columns as these are no longer relevant. The 'Search By' dropdown has been removed as it was only possible to search for a specific discount. The screen now provides an Add capability that was not available in CMP 8.2 (see section 4.5.1.3 above).

4.5.2.2 Usage Caps

In line with the Spend Caps change highlighted in section 3.2.1 above, 'Usage Caps' have been renamed to Spend Caps. This has impacted the following Business Configuration menu options and screens:

- Tariffs screens - The 'Usage Cap' labels present on the Add, Edit and View Tariff screens
- Tariff Usage Caps tab - The 'Usage Cap' labels present on the Add, Edit View and List Tariff Usage Caps panels. From the Tariff Links option, the name of the tab has been changed to 'Tariff Spend Caps'. The on-screen filters have also been renamed to 'Active Spend Caps', 'Inactive Spend Caps' and 'All Spend Caps'.
- Credit Management panel – the 'Usage Caps' option
- Credit Management menu option
- Usage Cap List screen – the screen title, the text in Search dialog box , the column heading and the filter value 'All Usage Caps'
- Usage Caps screens - The 'Usage Cap' labels present on the Add, Edit and View Usage Caps screens

4.5.2.3 Other Changes

The following additional changes have been made to Business Configuration screens:

- A new Billing Type column has been added to the Package List screen showing whether a package is available to postpaid subscribers, prepaid subscribers or both postpaid and prepaid.
- A new Billing Type column has been added to the Allowance List screen showing whether an allowance is available to postpaid subscribers, prepaid subscribers or both postpaid and prepaid.
- On the Add and Edit Trigger Action Panels the 'Comms Rule' and 'Other' dropdown have been removed as these are not supported in CMP 8.3
- The Product Attributes, Product Templates and Product Attribute Groups menu options have been removed as these are not currently used within CMP 8.3.

4.6 SOAP Web Service Changes

4.6.1 AddRegisteredCard Web Service

In CMP 8.2, the AddRegisteredCard SOAP service only always a user to create a one-off payment record on the Credit Card/Debit Card Detail table. This has been enhanced in CMP 8.3 to additionally support the creation of a card to be used for recurring payments (status = 'Active') as well as a one-off payments:

- If there is no 'Active' card on the account when the SOAP service is invoked, then the record is created with a status of 'active'
- If there is an active card already on the account when the SOAP service is invoked, then the status of the card created is set to 'One Off Payment'
- If the Cancel Existing Card boolean is set to 'true' when the SOAP service is invoked, then the status of the card being added is set to 'Active'

Note that multiple one-off payment cards can exist on an account but only one active card is permitted.

4.6.2 Create & UpdateWorkflow - Process & Resolution Required By Date Time

The CreateWorkflow and UpdateWorkflow SOAP web services have been enhanced to introduce new, optional, fields on the SOAP requests.

The 'ResolutionRequiredByTime' field has been removed and replaced by an optional, 'ResolutionRequiredByDateTime' field. If the new 'ResolutionRequiredByDateTime' field is populated it overrides the 'ResolutionRequiredByDate' field supplied.

In addition, a new, optional 'ProcessDateTime' field has been introduced. If the new Process Date Time field is populated it overrides the 'ProcessDate' value supplied.

4.6.3 QueryAgreement & UpdateAgreement Web Services - Use Sales Account ID

The QueryAgreement SOAP web service has been enhanced to include the agreement's contract number in the response. A new optional element, ContractNumber, has been added to the query agreement ContractAndSales response container (defined as per the query subscription ContractAndSales response container). In addition, the QueryAgreement web service has been modified to return the Sales Person's Account Number rather than the Sales Person's Id. This is in line with the QuerySubscription SOAP web service. Note, the attribute name has not changed, only the information that is returned.

In addition, the UpdateAgreement SOAP web service has been modified to accept the Sales Person's Account Number rather than the Sales Person's Id. This is in line with the UpdateSubscription SOAP web service. Note, the attribute name has not changed, only the information that is returned.

4.7 RESTful Web Services Changes

4.7.1 New Web Services

4.7.1.1 GET Packages Web Service

CMP 8.3 introduces a new REST web service to allow an external system to get information on the packages associated with a subscription. The request can filter the results based on the package classification (Base, Bolt-on or Top-up) and also based on whether the package is active or not.

The REST response contains the following information:

- Allowance Id
- Package Code & Description
- Package Classification
- Effective Timestamp
- Expiry Timestamp
- Adding Workflow Event Number
- Deleting Workflow Event Number
- Shared Allowance Group Id
- Purchase Id

The response also includes a hateaos link to end the package.

4.7.2 Changed RESTful Web Services

4.7.2.1 PATCH Payment Web Service - Include Payment References

The Update Payment REST web service has been enhanced to allow for the payment identifier information to be stored on the Payment record in CMP. Typically, this information would be provided to CMP as part of the redirect request that would invoke the Update Payment REST service to complete the purchase. To facilitate this, the following optional attributes have been added to the UPDATE request:

- Authentication Code - represents a code that may have been received from an external system
- External Reference - the reference a payment was given by another system in the BSS eco system
- SP Unique Identifier - reference of the payment from the Payment Service Provider

If values are specified for any of these attributes, then their uniqueness is verified in CMP. If a payment identifier already exists in CMP then the update will be prevented with an appropriate error message.

4.7.2.2 POST Payment (Online) Web Service

The POST Payment web service has been enhanced to perform additional validation checking to ensure for uniqueness of the following payment identifiers that can be optionally provided as part of the request:

- Authentication Code
- External Reference
- SP Unique Identifier.

If values are specified for any of these attributes, then their uniqueness is verified in CMP. If a payment identifier already exists in CMP then the creation of the payment record will be prevented with an appropriate error message.

4.7.2.3 POST Purchase Web Service

The POST Purchase web service has been enhanced to perform additional validation checking to ensure for uniqueness of the following payment identifiers that can be optionally provided as part of the request:

- Authentication Code
- External Reference
- SP Unique Identifier.

If values are specified for any of these attributes, then their uniqueness is verified in CMP. If a payment identifier already exists in CMP then the creation of the purchase record will be prevented with an appropriate error message.

In addition, the card token validation (i.e. checking if the token is valid for the account) has been changed so that it is only performed when purchasing a recurring bolt-on. When

performing card token validation, the token, expiry month and expiry year supplied in the purchase are validated against the card details stored against the account. The name on the card is now an optional attribute.

The Effective Date handling has been modified to make it consistent with AgentView functionality. Within the purchaseDetails object the 'effectiveDateTime' attribute has been renamed to 'effectiveDate'. An effective date need only be supplied when purchasing a bolt-on that takes effect in the future. This date will be ignored, and the request will take effect immediately, if it is not in the future or if the request relates to the purchase of a top-up. Any time portion, if currently supplied, is always ignored as future dated bolt-ons always take effect from midnight.

4.7.2.4 GET Allowances and GET Allowances Summary - Unit Of Measure

The GET Allowances and GET Allowances Summary REST web services provide allowance entitlement and balance details in the form that they are stored in CMP, e.g. seconds for voice usage and bytes for data usage. The Unit of Measure returned in REST services has therefore been changed to reflect the storage format not the format for presentation to an (interactive) end user.

4.7.2.5 GET Subscription Usage Cap List - Refactor to Spend Cap

In line with the CMP 8.3 changes to support Spend Caps for redONE, the current GET Subscription Usage Cap List web service has been updated as follows:

- The endpoint reference to 'usageCaps' has been changed to 'spendCaps'
- Within the response, the 'SubscriptionUsageCap' container has been renamed to 'SubscriptionSpendCap'.

4.7.2.6 GET Subscription Usage Cap - Refactor to Spend Cap

In line with the CMP 8.3 changes to support Spend Caps for redONE, the current GET Subscription Usage Cap web service has been updated as follows:

- The endpoint reference to 'usageCaps' has been changed to 'spendCaps'
- Within the request, the path parameter 'UsageCapCode' has been renamed to 'SpendCapCode'
- Within the response, the 'SubscriptionUsageCap' container has been renamed to 'SubscriptionSpendCap'.

4.7.2.7 GET Subscription Usage Cap History - Refactor to Spend Cap

In line with the CMP 8.3 changes to support Spend Caps for redONE, the current GET Subscription Usage Cap History web service has been updated as follows:

- The endpoint reference to 'usageCaps' has been changed to 'spendCaps'
- Within the request, the path parameter 'UsageCapCode' has been renamed to 'SpendCapCode'
- Within the response, the 'SubscriptionUsageCapHistory' container has been renamed to 'SubscriptionSpendCapHistory'.

4.8 Integration Adapters

There are no new integration adapters provided as part of CMP 8.3.

4.9 Openet-specific Adapters

The Openet-specific adapters are optional components of the CMP deployment that are based on the licence agreement with MDS Global.

4.9.1 Openet Usage Adapter

In CMP 8.2 rated usage records received from Openet for data sessions are very granular meaning that a single subscriber data session may result in many hundreds of CDRs. At the end of a data session, the final termination CDR has aggregated data session information that is not currently used.

The Openet Rated Usage Transformation Daemon has been updated in CMP 8.3 to allow for summary data records to be processed as opposed to individual records. Whether to process and store individual records or just aggregated data session records is controlled by a new module property called 'data.aggregation'. By default this property is set to 'true' indicating data aggregation is required. This property can be modified through the module property configuration in the Administration Console.

4.10 Lifecycle-specific Adapters

The Lifecycle-specific adapters are optional components of the CMP deployment that are based on the licence agreement with MDS Global.

4.10.1 Lifecycle Provisioning Adapter

When CMP is being used in conjunction with the Lifecycle Online Charging System (OCS), subscribers created in CMP and requiring Real Time control of their usage need to be provisioned to the Lifecycle OCS along with any allowances.

The Lifecycle OCS integration supports following subscriber lifecycle events:

- Creation of an inactive subscription
- Add base subscription allowances
- Activation of the subscription
- Add an allowance as part of a bolt-on purchase
- Bolt-on purchase using the prepaid balance
- Usage cap, allowance and balance query
- Prepaid balance top-up.
- Adding a usage cap to a subscription
- Update the cap amount of an existing subscription usage cap.

4.10.2 Lifecycle Usage Adapter

When CMP is being used in conjunction with the Lifecycle Online Charging System (OCS), rated usage generated by the Lifecycle OCS for CMP subscribers needs to be loaded into CMP for consultation and subsequently for inclusion on invoices.

CMP collects rated usage files in the proprietary unaggregated rated usage format from Lifecycle OCS via SFTP and transforms them to the standard CMP rated usage JSON format so that they are ready to be processed by the CMP Rated Usage Load Daemon.

4.11 UK-specific Adapters

No changes have been made to UK-specific adapters in CMP 8.3.

5.0 Product Support Issues

5.1 Solved Issues

The following issues have been addressed within this release:

Reference	Area	Description
CMPIS-1845	Batch Jobs	Email Display Name on Email Comms is Hardcoded to 'Sabre'
CMPIS-1823	Web Services	Patch Comms Preferences is not working if no record already on customercommspreference table
CMPIS-1822	Web Services	Get Comms Preferences is not working if no record already on customercommspreference table
CMPIS-1819	Data Warehouse Extracts	Issue with Purchase Analytics on Vadsa Production.
CMPIS-1808	Web Services	AddRegisteredCard SOAP request throwing an error
CMPIS-1802	Sabre Server	Priority Executor Queue becomes overloaded
CMPIS-1800	AgentView	Prepaid balance being debited multiple times for multiple allowance packages
CMPIS-1799	Business Config	Edit Price Plan - Missing Save & Cancel Buttons
CMPIS-1798	Business Config	Services List View is not showing any records
CMPIS-1797	Batch Jobs	Managed Number Load job - performance when sales account number included in file
CMPIS-1796	Batch Jobs	Account number is taken as the subscription number - recurring prepayment card rejection
CMPIS-1793	Batch Jobs	Managed Numbers Monitor job fails when limit of 76,500 records is reached
CMPIS-1791	Batch Jobs	Non-Recurring Payments job failing with record count issue
CMPIS-1790	Batch Jobs	Recurring Payments Job - issues when job is submitted with no date
CMPIS-1752	AgentView	When the KCTS/ECOM event is Processed, comms are not sent, if it Resolved (without Processing), comms are sent
CMPIS-1743	Web Services	REST Payments - Card Start Date is mandatory and shouldn't be
CMPIS-1724	3rd Party Adapters	Provisioning not completing due to usage cap confirmation error
CMPIS-1719	Simulator	Simulator Module - Not Saving Property Changes
CMPIS-1717	Web Services	GET Subscription REST - Tariff Returned Instead of Price Plan
CMPIS-1709	Batch Jobs	Usage Archiving - Job fails to start if invoice run contains no usage
CMPIS-1701	Web Services	REST GET Allowance on a Transferred Allowance gives null pointer exception
CMPIS-1700	Web Services	REST GET Allowance Summary on a Transferred Allowance shows unlimited allowance
CMPIS-1697	Data Population	No Tariff Usage Cap record for MOFAM1 tariff
CMPIS-1687	AgentView	Not possible to view letters in AgentView
CMPIS-1686	Admin Console	Sabre Data Warehouse Process expansion not working

CMPIS-1685	Web Services	Get Subscription (list) REST webservice request is giving 'Service Unavailable error'
CMPIS-1674	Batch Jobs	Rated Usage - JSON Validation Not Working Correctly
CMPIS-1673	Batch Jobs	Managed Numbers - Job fails if file doesn't contain account number
CMPIS-1666	AgentView	View option should only be available for Comms documents
CMPIS-1665	Comms	Inbound Notifications - Invalid JSON Error Handling
CMPIS-1662	AgentView	EXIS MD Plan gives 800MB and 90 minutes, not 2000MB and 200 minutes
CMPIS-1660	Admin Console	Sabre Module - Issue with deployment of Additional Properties
CMPIS-1658	Batch Jobs	Notification Monitor Job not performing validation on unique reference and hierarchy entities
CMPIS-1648	Batch Jobs	SIM Upload - issues with Daemon & Job
CMPIS-1646	Batch Jobs	External Reference Upload doesn't handle purchases & more details are required on the Interface Batch Detail
CMPIS-1638	Billing	Gamma - Invoice Production job failing
CMPIS-1635	Batch Jobs	General Ledger - failed recurring payments from previous period
CMPIS-1624	AgentView	Problem with the expiration date of a plan not showing
CMPIS-1620	AgentView	Recurring Bolt On Purchases - Various Issues
CMPIS-1619	AgentView	Top Up Purchases - Various Issues
CMPIS-1618	AgentView	Non Recurring Bolt On - Multiple Card Purchases on Same Day
CMPIS-1617	AgentView	Purchase with card gives redirect page error
CMPIS-1616	AgentView	Remove allowance validation on package purchase
CMPIS-1614	AgentView	Payment time is not displayed on Payments panel only the date
CMPIS-1608	Admin Console	Import of Sabre Schedule - Schedule doesn't work
CMPIS-1606	Web Services	REST - Get Consolidated Sales Ledger - incorrect transaction type in response
CMPIS-1599	Web Services	Error when adding purchase using new configuration
CMPIS-1597	3rd Party Adapters	sabre-openet-usage-adapter.out.openet-usage-backup.responseProcessorClass property should be hidden.
CMPIS-1595	3rd Party Adapters	sabre-openet-usage-adapter.in.options.delay shouldn't be a hidden property.
CMPIS-1585	Web Services	REST - PATCH commssettings API not using the full descriptiveTitle key
CMPIS-1577	AgentView	Top-up option available for postpaid subs on main purchases panel
CMPIS-1575	Admin Console	Module Parameters - Have to revert to original to update
CMPIS-1557	Admin Console	Start/Stop Daemon Confirmation Dialog is incorrect
CMPIS-1530	Admin Console	Removal of a single calendar entry for a holiday or a recurring calendar results in removal of the entire calendar.
CMPIS-1524	Batch Jobs	Comms External JSON - Output mismatch with Schema
CMPIS-1499	Web Services	REST - Get Usage List - Billed filter not working as expected
CMPIS-1496	Web Services	SOAP - Create Subscription - Sales Account Issue
CMPIS-1482	AgentView	Issues with payment record that is created when a top-up or bolt-on is purchased using a card payment type.

CMPIS-1390	AgentView	Edit Account error if account has no first invoice date
CMPIS-1281	Admin Console	Order of interfaces is not correct when in Admin Console
CMPIS-1177	Batch Jobs	Action Monitor - "No Diary event action code for Diary Event Number" error in logs
CMPIS-1139	Comms	Comms event initiated even if email address change isn't made
CMPIS-804	Comms	Comms - HTML Email contains 'Ã,Å' characters for balances
CMPIS-639	Business Config	No way to specify whether the tax rate being added is inclusive or exclusive

6.0 Documentation

6.1 Product Documentation

The product documentation is available online at <https://cmp-docs.com/Content/Home.htm>. This online portal requires authorised access, which can be obtained by contacting MDS Global support. The documentation is also available as downloadable PDFs as follows:

Document	Version	Status
Release Notes	1.0	New document
Documentation Overview	1.0	New section on Communications Functionality and Configuration Guide
Installation Guide	1.0	Updates for upgrade to PostgreSQL 13 and additional Installation Configuration Tool properties.
Technical Architecture	1.0	Updated to PostgreSQL 13 for supported 3rd party software
Business Configuration Overview	1.0	New section for Workflow and System Properties and Discounts. Updates to Tax Rates and removal of Product Attributes and Product Templates content.
Payments Functionality Guide	1.0	One-Off Payments section updated with changes to paying with a registered card.
Communications Functionality Guide	1.0	New document
Extracts Guide	1.0	Extracts related to hierarchy structures will always produce a file.
RESTful Web Services API Guide	1.0	New GET Packages API.
SOAP Web Services Semantics Guide	1.0	Updates to QueryAgreement, UpdateAgreement, CreateWorkflow, UpdateWorkflow, QueryAgreement and AddRegisteredCard
Business Configuration RESTful Web Services API Guide	1.0	New document format.
Operational Overview	1.0	New section on System Monitoring > Network Requests. New content for Consumer Purge Job for single subscription accounts, Data Warehouse Consumer PostPaid Process, Data Fix job and Bulk Action job and daemon.
Batch Jobs and JSON Schemas Guide	1.0	New content for Consumer Purge job, Data Fix job and new Bulk Action jobs.
Security Guide	1.0	Updated security roles for SABRE server missing from 8.2 document.
Purge Guide	1.0	New section on Consumer Purge Job

6.1.1 Online Help

Online help is available in AgentView, Business Configuration, the Administration Console and the Bulk Actions console. The following table summarises the current versions of the online help and the changes since CMP 8.2:

Online Help	Version	Status
AgentView	8.3.1.0	Updated for version 8.3 for Spend Caps, registered card payments and purchases
Business Configuration	1.8	Updates to help on how to add, edit and delete a Tariff Services, tax rates. New help for Discounts, Descriptive Titles, Workflow and System Properties. Help on Product Attributes and Product Templates has been removed.
Administration Console	1.6	New help added for System Monitoring->Network Requests and modules section updated with new screenshots for the formatted properties.
Bulk Action Console	1.2	Updates to reflect renaming of jobs and templates. New section added for Add Sales Ledger Adjustment job.

7.0 Release Upgrade Path

The CMP 8.3 installer includes the capability to upgrade a CMP 8.2 installation without the loss of configuration or customer data provided that the software, file system and database structure of the installation in question are at no point manually modified.

The CMP 8.3 Installation Guide, and the details below, should be read before attempting the upgrade to CMP 8.3.

7.1 Upgrade Notes

7.2 PostgreSQL 12.1 – 13.1 Upgrade

Prior to the upgrade to CMP 8.3, the version of PostgreSQL must be upgraded to version 12.1. CMP 8.3 requires an upgrade of PostgreSQL from 12.1 to 13.1. This upgrade should be performed by a qualified Database Administrator.

7.3 Hidden Module Properties

If a hidden property is to be amended (for whatever reason), that property will need to be moved outside the hidden section in the module, otherwise it will be overwritten with the default values once the module is redeployed.

7.4 Inventory Manager Changes

A new subsection, 'Common Application Properties' has been added to the Global Properties section of the Inventory Manager that allows the configuration of two properties:

- OCS Implementation - defines the OCS implementation that will be deployed for this CMP installation. Possible values are available from a dropdown
- Log Collector Password - the password of the 'logcollector' user that the CMP Administration Console will use to retrieve log files for display (see section 4.4.8.2).

Under the Sabre Server section, a new field has been added, 'CMP Webservices Password', that is the password that will be used by the BULKACTION user when accessing REST and SOAP web services for Bulk Actions.

7.5 Third party libraries

No third-party libraries will be updated as part of the installation.

7.6 Database Changes

7.6.1 New Tables

The following tables have been added to the database schema with respect to CMP 8.2:

- CMPModuleProperties
- ExternalLogDefinition.

7.6.2 New Attributes

The following table attributes have been added:

- Table SubscriptionUsageCapHistory, attributes CapAmount and CapStatus.
- Table C7DFREP (SystemProperties), attributes SystemPropertyOwner and Description
- Table DiaryEventProperties, attribute Description.

7.6.3 Dropped Attribute

No attributes have been dropped from tables in CMP 8.3.

7.6.4 Modified attributes

No attributes have been modified within tables in CMP 8.3.

7.7 Configuration Changes

The following configuration updates should be considered when upgrading an existing CMP 8.3 environment:

7.7.1 New Payment Type

A new payment type of 'BALANC' (Prepaid Balance) has been added to the PaymentType table that necessitates updates to other tables as follows:

- All Payment records with a Payment Source of 'B' (Prepaid Balance) will have their Payment Type updated to the Payment Type that has a Payment Method of '7' (Prepaid Balance). There will only be one Payment Type record with a Payment Method of '7'.
- All purchases with a corresponding payment record will have the Payment Source updated to 'O' (Online). For payments with no corresponding purchase record, the Payment Source will be updated to 'Q' (Recurring Prepayment).

A set of migration scripts have been specified in Appendix A below to support the above changes.

7.7.2 Workflow Event Properties

As part of the changes to support new Business Configuration screens in CMP 8.3 for maintaining system and workflow event properties, the workflow event properties that were part of system properties table have been moved into the Workflow Event Properties tables namely:

Property Group	Property Name	Event Type	Event Code
BULK_ACTION	bulk.sales.ledger.adjustment.event	AAAM	SLAD
ADDRESS	ADDRESS.CHANGE	AAAM	ADDC
ADDRESS	EMAIL.CHANGE	AAAM	EMAL
FINANCIAL	ADD.REFUND	REFD	RQST

FINANCIAL	CHANGE.PAYMENT	AAAM	PAYC
ACCOUNT_CREATION	ACCOUNT.CREATION.EVENT	AAAM	ACCC

7.7.3 System Properties

The following system properties are no longer used in CMP 8.3 and have therefore been removed from the system properties table:

Parameter Group	Parameter Name
CTI	TEST_NAME
CTI	LINKNAME
CTI	SERVERIP
CTI	CONNECTIONRETRYTIMER
CTI	AGENTGROUP
CTI	EXTERNALCALLPREFIX
DLS.CORRESPONDENCE	BASEURL
DLS.INVOICE	BASEURL
DLS.STATEMENT	BASEURL
GENERAL_SETTINGS	CAP.MODE
REDIRECT.PAYMENT	REDIRECT_PAYMENT_SERVLET_BASEURL
RTC.SUBSCRIPTION.CHARGING	RTC.BILL.CYCLE.DAYS
WEBSERVICE.QUERYLIMIT	query.*
WEBSERVICE.QUERYLIMIT	search.*

7.7.4 External Configuration Module

The following system properties have now been exposed through the External Configuration module and need to be configured post deployment/upgrade:

- **GENERAL_SETTINGS/CAP.MODE** – indicates what subscriber chargeable actions affect a subscription spend cap. Possible values are:
 - **OVERAGE** – subscription spend caps are only impacted by overage
 - **OVERAGE.AND.ONE.OFF.PURCHASE** – subscription spend caps are impacted by overage and one-off bolt-on purchases
- **TERMINATION.FEES/TERMINATION.FEE.MODE** - Determines the mechanism of calculating the termination fee - either looking at the services the person started off with or the services that they have currently.

- GENERAL_SETTINGS/DEFAULT_CONTRACT_TERM_FROM_CONFIG - when connecting a subscription, if this is set to true, the contract term is taken from the price plan that the subscription is going onto, if its set to false the contract term is taken off the agreement
- AGED_DEBT/MIN.DAYS.ARREARS - Used by the AccountBalance view in the calculation of aged debt. It indicates the number of days that an open invoice must be in arrears to contribute to the AmountInArrears field on this view. This contributes to calculations in the Credit Reference extract.
- GENERIC.USAGE/MAXIMUM.CALL.AGE - Specifies the max age of usage that is taken into CMP. Any usage older than this number of days is discarded.
- SUBSCRIPTION.TARIFFCHANGE/ALLOW.SAME.TARIFF - Indicates whether a Price Plan/Tariff change to the same Plan/Tariff is allowed or not.
- SUBSCRIPTION.TARIFFCHANGE/REVERT.TARIFF.WITHIN.DAYS - Controls the number of days within which a Price Plan change can be reverted by the RevertTariffChange webservice.
- GENERIC.PAYMENTS/AMENDMENT.ELAPSED.DAYS - Number of days that must have elapsed since a direct debit amendment before it is considered for a Direct Debit pull.
- GENERIC.PAYMENTS/FIRST.USE.ELAPSED.DAYS - Number of days that must have elapsed since the mandate registration date has passed.
- GENERIC.PAYMENTS/MINIMUM.PULL.AMOUNT – the minimum amount that will be pulled as part of direct debit pull. Any balance on the account that is less than this will be ignored

Prior to upgrading from a previous CMP installation, it is recommended that the existing property values defined in the system properties table (C7DFREP) and the workflow properties table (diaryEventProperties) are noted and re-applied if necessary through the external configuration module property configuration post upgrade.

7.7.5 New Security Roles

No security roles have been introduced for CMP 8.3.

7.7.6 Known Configuration Issues

The standard data population scripts that can be executed as part of a product deployment provide a standard set of base system and business configuration data that can be used by projects as a starting point for configuration. The following issues are known to exist with these population scripts and therefore when upgrading from a previous CMP version these should be checked in the specific environment being upgraded.

7.7.6.1 networkActionCode table

The following rows should be updated to set the isSendToNetwork attribute to '0' if currently set to '1' as SIM changes should not be sent to the OCS.

Action Type	Action Code	Std Command Name
GEN	CHGUSI	CHGUSI
RTC	CHGUSI	CHGUSI

Appendix A – Data Migration

As part of the change to the subscriptionUsageCapHistory table highlighted in section 7.6.2 above, the following scripts should be run after the upgrade to populate the capAmount with the current provisioned amount:

```
Update SubscriptionUsageCapHistory sh  
  
set capamount = (Select s.capamount from SubscriptionUsageCap s  
where sh.subscriptionnumber=s.subscriptionnumber and  
sh.usagecapcode = s.usagecapcode);
```

Note: Please ensure the correct database schema is used for update. It is recommended that a data export on the subscriptionUsageCapHistory table is performed prior to running the update script.