

IBM Cúram Social Program Management
Version 7.0.1

*Cúram Provider Management
Developers Guide*



Note

Before using this information and the product it supports, read the information in “Notices” on page 75

Edition

This edition applies to IBM Cúram Social Program Management v7.0.1 and to all subsequent releases unless otherwise indicated in new editions.

Licensed Materials - Property of IBM.

© **Copyright IBM Corporation 2012, 2017.**

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

© Cúram Software Limited. 2011. All rights reserved.

Contents

Figures	v
--------------------------	----------

Tables	vii
-------------------------	------------

Developing with Provider Management 1

Introduction	1
Purpose	1
Audience	1
Prerequisite Reading.	1
Further Reading	1
Chapters in this Guide	1
Using Strategy Patterns to Customize CPM	2
Introduction	2
Provider Implementations	2
Placement and Contract Implementations.	5
Training Implementations	6
Service Invoice Implementations.	7
Custom Rates and Reassessment	10
Roster Implementations	12
(deprecated) Taxonomy Search Implementations	15
(deprecated) Performance Measure Implementations.	15
Using Events to Add Custom Processing to CPM.	16
Introduction	16
Provider Customization Points	16
(deprecated) Provider Events	17
Provider Enquiry Events	18
License Events	18
Home Study Events	18
Compartment Events	19
Place Events	19
Request Events	19
Member Certification Events.	19
Provider Deduction Events	20
Provider Offering Events	20
Provider Offering Rate Events	21
Performance Measure Events	21
Provider Group Customization Points	22
Provider Group Events	22
Provider Group Associate Events	23
Service Offering Customization Points	23
Service Offering Events	23
Service Group Events	24
Service Authorization Customization Points	24
Service Authorization Events	24
Service Authorization Line Item Events	25
Placement Customization Points	26
Placement Events	26
Reservation Events	27
Contract Customization Points	28
Contract Version Events	28
Flat Rate Contract Events.	29
Utilization Contract Events	29
(deprecated) Performance Measure Events	30
Service Invoice Customization Points	31

Service Invoice Events	31
Service Invoice Line Item Events	31
Service Invoice Line Item Correction Events	35
Attendance Customization Points	35
Provider Roster Line Item Events	35
Provider Roster Line Item Correction (PRLI Correction) Events	38
Roster Events.	38
Attendance Payment Frequency Events	39
Service Offering Attendance Configuration Events	39
Service Offering Attendance Payment Events	40
Financial Customization Points	40
Financial Events	40
Referral Customization Points	43
Referral Events	43
Service Delivery Customization Points	43
Service Delivery Events	43
(deprecated) Taxonomy Customization Points	44
(deprecated) Taxonomy Events	44
CPM Workflow Process Definitions	49
Introduction	49
External Enquiry Workflow	49
Enacted from	49
Source Location	49
Default Behavior	49
Event Details	50
Home Study Approval Workflow	50
Enacted from	50
Source Location	50
Default Behavior	50
Event Details	50
New Invoice Created Workflow	51
Enacted from	51
Source Location	51
Default Behavior	51
Event Details	51
Service Invoice Exception Processing Workflow	51
Enacted from	51
Source Location	51
Default Behavior	52
Event Details	52
Service Invoice Line Item Approval Workflow	52
Enacted from	52
Source Location	52
Default Behavior	52
Event Details	53
Service Invoice Line Item Correction Approval Workflow	53
Enacted from	53
Source Location	53
Default Behavior	53
Event Details	54
Supervisor Request Decision Workflow	54
Enacted From.	54
Source Location	54

Default Behavior	54	Placement	61
Event Details	54	Flat rate contract	61
Supervisor View New External User Task		Attendance	61
Notification Workflow	55	Service Deliveries	62
Enacted from	55	Introduction	62
Source Location	55	Product Design and Configuration.	62
Default Behavior	55	Rule Set Creation	62
Events Details	55	Evidence and Evidence Maintenance	63
Roster Exception Processing Workflow	55	Custom Rates.	63
Enacted From.	55	Service Delivery Creation.	63
Source Location	56	Display of Product Delivery Information	64
Default Behavior	56	CPM Taxonomy	64
Event Details	56	Import Taxonomy File	64
New Client Added to Roster Workflow	56	Replacing the AIRs XML elements with your	
Enacted From.	56	XML elements in TaxonomyTermMapping.xml	
Source Location	56	file	65
Default Behavior	57	Replacing your implementation with default	
Event Details	57	implementation	67
Roster Line Item Approval Workflow	57	Retrieve Indexes and Retrieve Taxonomy Terms	
Enacted From.	57	By Keywords.	67
Source Location	57	Compliance	68
Default Behavior	57	CPM Sample	68
Event Details	58	Miscellaneous Entities	68
Roster Line Item Correction Approval Workflow	58	Appendix	68
Enacted From.	58	Appendix A	68
Source Location	58	Appendix B: Schema definitions of the XML	
Default Behavior	58	fragments created by Import process.. . . .	70
Event Details	58	TaxonomyTerm.xsd.	70
CPM Products and Rule Sets	59	UseReference.xsd	71
Overview	59	RelatedConcept.xsd.	72
Products	59	ExternalTerm.xsd	72
Rule Sets	59		
CPM Financials	60	Notices	75
Introduction	60	Privacy Policy considerations	77
Payment Types	60	Trademarks	77
Service Invoice	60		

Figures

Tables

1. Provider Implementations	2	47. Provider Roster Line Item Event Details	36
2. Placement and Contract Implementations	5	48. Provider Roster Line Item Event Details	37
3. Training Implementations	6	49. Provider Roster Line Item Event Details	37
4. Service Invoice Implementations	7	50. Provider Roster Line Item Event Details	38
5. Custom Rates and Reassessment Implementations	10	51. Provider Roster Line Item Correction (PRLI Correction) Event Details	38
6. Roster Implementations	12	52. Roster Event Details	39
7. Taxonomy Search implementations.	15	53. Attendance Payment Frequency Event Details	39
8. Performance Measure Implementations	15	54. Service Offering Attendance Configuration Event Details	39
9. Provider Event Details	17	55. Service Offering Attendance Event Details	40
10. Provider Event Details	17	56. Financial Event Details.	40
11. Provider Enquiry Event Details	18	57. Financial Event Details.	40
12. License Event Details	18	58. Financial Event Details.	41
13. Home Study Event Details	18	59. Financial Event Details.	41
14. Compartment Event Details	19	60. Financial Event Details.	43
15. Place Event Details	19	61. Referral Event Details	43
16. Request Event Details	19	62. Referral Event Details	43
17. Member Certification Event Details	20	63. Service Delivery Event Details	44
18. Provider Deduction Event Details	20	64. Service Delivery Event Details	44
19. Provider Offering Event Details	20	65. Service Delivery Event Details	44
20. Provider Offering Event Details	21	66. Taxonomy Event details	45
21. Provider Offering Rate Event Details	21	67. Taxonomy Event Details	45
22. Performance Measure Event Details for the curam.performance.measure.impl.RetrievePerformanceMeasureFormProvider interface	21	68. Taxonomy Event Details	45
23. Performance Measure Event Details for the curam.performance.measure.impl.RetrievePerformanceMeasureFormProvider interface	22	69. Taxonomy Event Details	46
24. Provider Group Event Details	22	70. Taxonomy Event Details	47
25. Provider Group Associate Event Details	23	71. Taxonomy Event Details	47
26. Service Offering Event Details	23	72. Taxonomy Event Details	48
27. Service Group Event Details	24	73. Taxonomy Event Details	48
28. Service Authorization Event Details	24	74. External Enquiry Event Details	50
29. Service Authorization Line Item Event Details	25	75. Home Study Approval Event Details	50
30. Service Authorization Line Item Event Details	26	76. New Invoice Created Event Details	51
31. Placement Event Details	26	77. Service Invoice Exception Processing Event Details	52
32. Placement Event Details	27	78. Service Invoice Line Item Event Details	53
33. Placement Event Details	27	79. Service Invoice Line Item Correction Approval Event Details	54
34. Reservation Event Details	27	80. Supervisor Request Decision Event Details	55
35. Contract Version Event Details	28	81. Roster Exception Processing Event Details	56
36. Contract Version Event Details	28	82. New Client Added to Roster Event Details	57
37. Flat Rate Contract Event Details.	29	83. Roster Line Item Approval Event Wait Activities Details.	58
38. Utilization Contract Event Details	29	84. Roster Line Item Correction Approval Event Details	58
39. Performance Measure Event details	30	85. Payment Type and Rule Set Details	59
40. Service Invoice Event Details.	31	86. AIRs and Curam Taxonomy Mapping Elements	66
41. Service Invoice Line Item Event Details	31	87. Mapping between Curam Taxonomy File Data and Curam Relational Entities	67
42. Service Invoice Line Item Event Details	33		
43. Service Invoice Line Item Event Details	33		
44. Service Invoice Line Item Event Details	34		
45. Service Invoice Line Item Event Details	34		
46. Service Invoice Line Item Correction Event Details	35		

Developing with Provider Management

Cúram Provider Management can be customized and configured to meet the requirements of the organization. Customization options include strategy patterns, events, workflows, and rule sets. CPM provides a number of service layer interfaces that are designed for customization. A number of application properties are available that allow administrators to configure Cúram Provider Management.

Introduction

Purpose

The purpose of this guide is to describe the options for customizing the Cúram Provider Management (CPM) component. Its scope includes the customization of Strategy Patterns, Events, Workflows, Products, and Rule Sets. Customization can be distinguished from configuration in that customization allows developers to modify, extend, or replace source code to suit agency's requirements. Configuration allows administrators to manage the information that is displayed on application pages or to alter the behavior of the application in certain predefined ways.

This guide describes the customization or extension points provided with the CPM component. For further information on how to use these customization points, readers should consult the Persistence Cookbook where customization techniques are described in detail.

This guide does not cover generic extension points such as persistence events.

Audience

This guide is intended for developers responsible for customizing CPM.

Prerequisite Reading

- Persistence Cookbook
- Cúram Workflow Reference Guide

Further Reading

For more information about the classes, interfaces, business event interfaces and the standard infrastructural persistence events included in the CPM component, please consult the CPM JavaDoc.

Chapters in this Guide

Using Strategy Patterns to Customize CPM

This chapter provides a brief description of the types of customization points that are available in CPM and how agencies can use them in a supported manner.

Using Events to Add Custom Processing to CPM

This chapter describes the events that can be used by agencies to add functionality before and/or after a piece of functionality is executed.

CPM Workflow Process Definitions

This chapter lists and details CPM Workflows that can be customized by the agency

CPM Products and Rule Sets

This chapter describes CPM products and Rule Sets.

CPM Financials

This chapter describes CPM Financials.

(deprecated) CPM Taxonomy

This chapter describes CPM Taxonomy.

Compliance

This chapter describes compliance information that should be kept in mind before any customization.

Appendix

This chapter provides appendixes.

Using Strategy Patterns to Customize CPM

Introduction

CPM provides a number of service layer interfaces that are specifically designed for customization. A new custom implementation can be provided for any of the interfaces listed below. It is worth noting that default implementations are provided for these interfaces. Please read the Persistence Cookbook on how to provide an implementation for a service layer interface. The default implementations of these interfaces can be replaced with a new custom implementation by creating a new Guice module class and adding a corresponding entry in the MODULE table. Chapter 5 - Creating a Google Guice Module - in the Persistence Cookbook explains this in detail.

Provider Implementations

Table 1. Provider Implementations.

This table describes customizable implementations.

Functionality	Interface	Description
Provider Enrollment Date	curam.provider.impl.Provider	This interface allows agencies to enroll a Provider or Provider Group in CPM with an enrollment date which is in the past. This allows the agency to use the original date of enrollment while enrolling providers. The default implementation is to use the current date.
Provider Reference Number	curam.provider.impl.ProviderReferenceNumber	This interface allows agencies to generate Provider Reference Numbers according to their preferred format.

Table 1. Provider Implementations (continued).

This table describes customizable implementations.

Functionality	Interface	Description
Provider Group Reference Number	curam.provider.impl.ProviderGroupReferenceNumberGenerator	This interface allows agencies to generate Provider Group Reference Numbers according to their preferred format.
Provider Enquiry Reference Number	curam.provider.impl.ProviderEnquiryReferenceNumberGenerator	This interface allows agencies to generate Provider Enquiry Reference Numbers according to their preferred format.
License Reference Number Generation	curam.provider.impl.LicenseNumberGenerator	This interface allows agencies to generate License Reference Numbers according to their preferred format.
Home Study Recommendation Approval	curam.provider.impl.ProviderSecurity	This interface allows agencies to designate a specific user or a group of users (an organization unit, users in a particular position or with a particular job, etc.) who can approve or reject a home study recommendation.
Provider Offering Approval Criteria	curam.providerservice.impl.ProviderOfferingApprovalCriteria	This interface allows agencies to specify criteria which need to be met in order to approve a service offered by a provider.

Table 1. Provider Implementations (continued).

This table describes customizable implementations.

Functionality	Interface	Description
Service Offering Validation	curam.serviceoffering.impl.ServiceOfferingValidation	ServiceOfferingValidation class is used for managing the validations for a service. The default implementation of this interface is provided by ServiceOfferingValidationImpl. A new implementation of this interface is required to change the mechanism used to manage the validations for a service. This interface allows agencies to backdate the start date of a service offering. This may be useful when an agency is unable to add all provider services at the time of enrollment. This interface allows the agency to add a service at a later stage, and indicate that it has always been offered by the provider. The default date can be overridden on case-by-case basis.
External User Password	curam.externaluseraccess.impl.ExternalUserAccess	This interface allows agencies to implement a particular strategy for allocating passwords, at the point at which they generate the initial password for a new external user account, or generate a replacement password for a user who has forgotten password and needs to re-establish credentials with the agency.
Provider Member Offering Training Criteria	curam.provider.impl.ProviderMemberOfferingTrainingCriteria	This interface allows agencies to change the default functionality when a provider offering with training requirements is approved. For example, the agency may wish to prevent the approval of a provider offering, if the training requirements for the service are neither 'Complete' nor 'Waived', rather than sending a notification.

Placement and Contract Implementations

Table 2. Placement and Contract Implementations.

This table describes customizable Placement and Contract implementations.

Functionality	Interface	Description
Placement Payment	curam.place.impl.PlacementPaymentStrategy	<p>A PlacementPaymentStrategy class is used for determining if a placement is paid on the basis of an invoice or placement. The default implementation of this interface is provided by PlacementPaymentStrategyImpl.</p> <p>A new implementation of this interface is required to change the mechanism used to determine if a placement is paid on the basis of an invoice or placement. For example, an agency may indicate that all placement services should be paid through the receipt of invoices, or it may indicate that only services in a specific service group or services provided by specific providers can be paid through the receipt of invoices.</p>
Flat Rate Contract Cover Pattern	curam.contracts.impl.FlatRateContractCoverPatternStrategy	<p>A FlatRateContractCoverPatternStrategy class is used for determining the cover period pattern for a provider flat rate contract payment. The default implementation of this interface is provided by FlatRateContractCoverPatternStrategyImpl.</p> <p>A new implementation of this interface is required to change the mechanism used to determine the cover period pattern for a provider flat rate contract payment. A cover period pattern specifies how payments or bills are issued, e.g., in advance, in arrears, once-off, etc.</p>

Table 2. Placement and Contract Implementations (continued).

This table describes customizable Placement and Contract implementations.

Functionality	Interface	Description
Contract Reference Number Generation	curam.contracts.impl.ReferenceNumberGenerator	ReferenceNumberGenerator class is used for generating a reference number for a contract. The default implementation of this interface is provided by UniqueNumberGeneratorImpl. A new implementation of this interface is required to change the strategy to generate a reference number.

Training Implementations

Table 3. Training Implementations.

This table describes customizable Training implementations

Functionality	Interface	Description
Approve License Based on Training	curam.provider.impl.LicenseApprovalInterface	This interface allows agencies to change the default functionality for when a license with training requirements is approved. CPM supports notification to a user where training requirements for one or more services are neither 'Complete' nor 'Waived' for provider members. However, some Agencies may wish to prevent license approval if this validation is not satisfied. This interface is useful in such a scenario.
Approve Person Training	curam.training.impl.ApprovePersonTrainingPolicy	This interface allows agencies to define their approval strategy for person training. The purpose of this interface is the same as that for the approval of provider member training, as described above.
Approve Provider Group Member Training	curam.training.impl.ApproveProviderGroupMemberTrainingPolicy	This interface allows agencies to define their approval strategy for provider group member training. The purpose of this interface is the same as that for the approval of provider member training, as described above.

Table 3. Training Implementations (continued).

This table describes customizable Training implementations

Functionality	Interface	Description
Approve Provider Member Training	curam.training.impl.ApproveProviderMemberTrainingProgramStrategy	This interface allows agencies to define their approval strategy for provider member training. CPM by default allows the resource manager or the resource manager supervisor to approve training.

The curam.training.impl.ApproveProviderMemberTrainingProgramStrategy interface can be used to facilitate functional scenarios such as the following:

- Agencies may choose to have another user or a group of users (an organization unit, users in a particular position or with a particular job) who can approve the training request.
- Agencies may wish to inhibit authorization of training based on some other additional or alternative approval criterion.
- CPM does not send any notification on approval of a training program. However, an agency may want to send a notification to the provider of the training, the provider the provider member works for, or the provider member themselves.

Service Invoice Implementations

Table 4. Service Invoice Implementations.

This table describes customizable Service Invoice implementations

Functionality	Interface	Description
Service Invoice Line Item	curam.financial.impl. ServiceInvoiceLineItemValidationStrategy	A ServiceInvoiceLineItemValidationStrategy class is used for validating the number of units of a service invoice line item. The default implementation of this interface is provided by ServiceInvoiceLineItemValidationStrategyImpl. A new implementation of this interface is required to change the mechanism used to validate the number of units of a service invoice line item.

Table 4. Service Invoice Implementations (continued).

This table describes customizable Service Invoice implementations

Functionality	Interface	Description
Service Invoice Payment	curam.financial.impl .ServiceInvoicePaymentStrategy	A ServiceInvoicePaymentStrategy class is used for managing service invoice payment strategy. The default implementation of this interface is provided by ServiceInvoicePaymentStrategyImpl. A new implementation of this interface is required to change the mechanism used to manage service invoice payment strategy. This may be useful where an agency wishes to re-direct these payments to an individual or a group other than the provider. For example, if the provider is specified as the payee on a service invoice line item but is an active member of a provider group, the agency may re-direct payments to the provider group instead.
Service Invoice Line Item Validation	curam.financial.impl .ServiceInvoiceLineItemValidator	A ServiceInvoiceLineItemValidator class is used for validating the service invoice line item. The default implementation of this interface is provided by ServiceInvoiceLineItemValidatorImpl. A new implementation of this interface is required to change the mechanism used to validate the service invoice line item. For example, some agencies may not want to allow a service invoice line item to be added to a service invoice if the status of the service invoice is 'In Progress'. This interface will allow them to implement this validation.

Table 4. Service Invoice Implementations (continued).

This table describes customizable Service Invoice implementations

Functionality	Interface	Description
Determine Service Invoice Line Item Payment Amount	curam.financial.impl .DeterminePaymentAmount	This business interface provides a mechanism for determining the amount to be paid for Service Invoice Line Item. If an Agency has a specific way in which they will want to calculate the payment amount, the customized implementation can be provided for this interface.

Custom Rates and Reassessment

Table 5. Custom Rates and Reassessment Implementations.

This table describes custom rates and reassessment implementations

Functionality	Interface	Description
Applicable Rate Listener	curam.financial.impl.ApplicableRateListener	<p>The <code>ApplicableRateListener</code> interface is used for re-assessment of payments for a given period for a service authorization line item/placement/service invoice line item/provider roster line item. There are two APIs present in <code>ApplicableRateListener</code> having same name as "reAssess" but with different input types.</p> <p>Reassess API having inputs as Service Authorization Line Item and date range is used when no detailed product information is available and only Service Authorization Line Item is known. It searches to retrieve matching Service Invoice Line items, Placements and Provider Roster Line Items for the given Service Authorization Line Item and then it calls the suitable API present in <code>ApplicableRateProcessor</code> API to process the change of rate for any given input (placement /SILI/PRLI) and reassess the payment.</p> <p>Reassess API having inputs as Delivery Evidence Information of the product and date range is used when more product level information is available and the type of service is known. Depending on the product type it calls the suitable API present in <code>ApplicableRateProcessor</code> API to process the change of rate for any given input (placement /SILI/PRLI) and reassess the payment.</p>

Table 5. Custom Rates and Reassessment Implementations (continued).

This table describes custom rates and reassessment implementations

Functionality	Interface	Description
Applicable Rate Processor	curam.financial.impl.ApplicableRateProcessor	ApplicableRateProcessor class is used for reassessment of payments triggered by the change in rates. The default implementation of this interface is provided by ApplicableRateProcessorImpl. A new implementation of this interface is required to change the mechanism used to calculate the reassessed payment amount, due to the change in rates for the reassessment period. This interface allows agencies to process the change of rate for any given input (placement/SILI/PRLI) and reassess the payment. There are three APIs present in ApplicableRateProcessor named processRateChangeForPlacement, processRateChangeForPRLI and processRateChangeForSILI respectively. All these APIs are having inputs as type of service (Placement, SILI, PRLI) and the reassessment period. It processes the change of rate for any given input (placement /SILI/PRLI) and reassess the payment.

Table 5. Custom Rates and Reassessment Implementations (continued).

This table describes custom rates and reassessment implementations

Functionality	Interface	Description
Service Delivery Rate Determination	curam.financial.impl.RateDetermination	RateDetermination class is used for retrieving the rates for the given period and product delivery. The default implementation of this interface is provided by RateDeterminationImpl. A new implementation of this interface is required to change the strategy to determine the rates for a given delivery type (placement, invoice, or attendance) for a given period of time. For example, the applicable rates for a service can be determined using a custom rate calculation logic which may reference variables that do not reside within CPM, such as the number of children in a family.

Roster Implementations

Table 6. Roster Implementations.

This table describes customizable Roster implementations

Functionality	Interface	Description
Generate Rosters	curam.attendance.impl.DetermineRosterSubmissionDueDate	DetermineRosterSubmissionDueDate class is used for determination of submission due date for a roster. The default implementation of this interface is provided by DetermineRosterSubmissionDueDateImpl. A new implementation of this interface is required to change the way the grace period is used to determine the submission due date. For instance, an agency may wish to consider only the business days to calculate a submission due date.

Table 6. Roster Implementations (continued).

This table describes customizable Roster implementations

Functionality	Interface	Description
Match Provider Roster Line Item	curam.attendance.impl.MatchProviderRosterLineItem	MatchProviderRosterLineItem class is used for performing validations during matching a provider roster line item details with the existing details. The default implementation of this interface is provided by MatchProviderRosterLineItemImpl. A new implementation of this interface is required to change the mechanism used to match the details of a provider roster line item with the existing details. It is used for performing an agency's own program-specific validations during matching a provider roster line item.
Match Provider Roster Line Item	curam.attendance.impl.VoucherValidator	VoucherValidator class is used for matching and validating the voucher details. The default implementation of this interface is provided by VoucherValidatorImpl. A new implementation of this interface is required to change the mechanism used to match and validate the voucher details of the provider roster line item. For example, the agency might have its own program-specific validations to match and validate the voucher details.

Table 6. Roster Implementations (continued).

This table describes customizable Roster implementations

Functionality	Interface	Description
Determine Attendance Based Payment Amount	curam.attendance.impl.AttendancePaymentDeterminationProcessing	AttendancePaymentDeterminationProcessing class is used for the determination of an attendance-based payment amount. The default implementation of this interface is provided by AttendancePaymentDeterminationProcessingImpl. A new implementation of this interface is required to change the mechanism used to calculate the attendance-based payment rate. For example, the provider service rate valid either on the end date of the roster line item or the end date of the matching service authorization line item could be used to determine the attendance-based payment amount.
Allocate Units	curam.attendance.impl.PRLIUnitsAllocationProcessing	PRLIUnitsAllocationProcessing class is used for managing the allocation of units from roster line items to matching service authorization line items. The default implementation of this interface is provided by PRLIUnitsAllocationProcessingImpl. A new implementation of this interface is required to change the mechanism used to allocate units to the matching service authorization line items. For example, units could be allocated evenly to all service authorization line items rather than starting with the earliest one.

(deprecated) Taxonomy Search Implementations



Table 7. Taxonomy Search implementations.

This table describes customizable Taxonomy Search implementations

Functionality	Interface	Description
Taxonomy term search based on different criteria	curam.taxonomy.sl.search.impl	TaxonomySearchInterface retrieves the taxonomy terms associated with provider service. This interface allows agencies to search the taxonomy terms based on different search criteria like term name, term code, indexed provider services etc. The default implementation uses the Generic Search Server (GSS) to fetch the search results.

(deprecated) Performance Measure Implementations



Table 8. Performance Measure Implementations.

This table describes customizable Performance Measure implementations

Functionality	Interface	Description
Retrieve Performance Measures	curam.performancemeasure.impl	RetrieveAllPerformanceMeasuresForProviderService class is used for retrieving the performance measure's details for a provider service. The default implementation of this interface is provided by RetrieveAllPerformanceMeasuresForProviderService . A new implementation of this interface is required to change the mechanism used to determine the performance measure details of a provider service. Performance measure is the criteria by which the performance can be measured. For example, percentage of clients remaining in employment 1 year following the delivery of job search training.

Table 8. Performance Measure Implementations (continued).

This table describes customizable Performance Measure implementations

Functionality	Interface	Description
Retrieve Performance Measures	curam.performancemeasure.impl	<p>A.RetrieveAllPerformanceMeasuresForProvider RetrieveAllPerformanceMeasuresForProvider class is used for retrieving the performance measure's details for a provider. The default implementation of this interface is provided by RetrieveAllPerformanceMeasuresForProviderImpl. A new implementation of this interface is required to change the mechanism used to determine the performance measure details of a provider. Performance measure is the criteria by which the performance of a provider can be measured. For example, percentage of clients remaining in employment 1 year following the delivery of job search training.</p>
Retrieve Contract Performance Measure Value	curam.performancemeasure.impl	<p>A.RetrieveAllContractPerformanceMeasures RetrieveAllContractPerformanceMeasures class is used for retrieving the performance measure's details associated with a contract. The default implementation of this interface is provided by RetrieveAllContractPerformanceMeasuresImpl. A new implementation of this interface is required to change the mechanism used to determine the value for performance measure associated with the contract.</p>

Using Events to Add Custom Processing to CPM

Introduction

The sections below detail the events that are raised by CPM which allow developers to add custom functionality. Business events are raised at all extension points. These events can be used by agencies to add functionality before and/or after the action is executed.

Provider Customization Points

The following sections list the available customization points for Providers.

(deprecated) Provider Events



The following events are located in the `curam.provider.impl.Provider` interface.

Table 9. Provider Event Details.

This table describes Provider Events

Event Class	Description	Event is raised before and after
<code>ProviderSuspendEvents</code>	Raised when a Provider is suspended.	<code>curam.provider.impl.Provider.suspend()</code>
<code>ProviderCloseEvents</code>	Raised when a Provider is closed.	<code>curam.provider.impl.Provider.close()</code>
<code>ProviderRejectEvents</code>	Raised when a Provider seeking approval is rejected.	<code>curam.provider.impl.Provider.reject()</code>
<code>ProviderApproveEvents</code>	Raised when a Provider is approved.	<code>curam.provider.impl.Provider.approve()</code>
<code>ProviderReopenEvents</code>	Raised when a closed Provider is reopened.	<code>curam.provider.impl.Provider.activate()</code>
<code>ProviderEnrollEvents</code>	Raised when a Provider is enrolled.	<code>curam.provider.impl.Provider.enroll()</code>
<code>ProviderGetAvailablePlacesInDateRangeEvents</code>	Raised when available Places in the given date range are retrieved.	<code>curam.provider.impl.Provider.getAvailablePlacesInDateRange()</code>
<code>ProviderGetServiceOfferingsEvents</code>	Raised when Service Offerings for a Provider are retrieved.	<code>curam.provider.impl.Provider.getServiceOfferings()</code>
<code>ProviderGetCommonApprovedServiceOfferingsEvents</code>	Raised when Common Approved Service Offerings for a Provider are retrieved.	<code>curam.provider.impl.Provider.getCommonApprovedServiceOfferings()</code>

The following events are located in the `curam.provider.impl.ProviderApprovalCheck` interface.

Table 10. Provider Event Details.

This table describes Provider Events

Event Class	Description	Event is raised before and after
<code>ProviderApprovalCheckCreateEvents</code>	Raised when Approval Check for the Provider is created.	<code>curam.provider.impl.ProviderApprovalCheck.create()</code>
<code>ProviderApprovalCheckModifyEvents</code>	Raised when Approval Check for the Provider is modified.	<code>curam.provider.impl.ProviderApprovalCheck.modify()</code>
<code>ProviderApprovalCheckCancelEvents</code>	Raised when Approval Check for the Provider is canceled.	<code>curam.provider.impl.ProviderApprovalCheck.cancel()</code>

Provider Enquiry Events

The following events are located in the `curam.provider.impl.ProviderEnquiry` interface.

Table 11. Provider Enquiry Event Details.

This table describes Provider Enquiry Events

Event Class	Description	Event is raised before and after
<code>ProviderEnquiryCloseEvents</code>	Raised when a Provider Enquiry is closed.	<code>curam.provider.impl.ProviderEnquiry.close()</code>
<code>ProviderEnquiryTransferEnquiryToProviderEvents</code>	Raised when a provider is enrolled from an enquiry.	<code>curam.provider.impl.ProviderEnquiry.transferEnquiryToProvider()</code>
<code>ProviderEnquirySetProviderEnquiryDetailsEvents</code>	Raised when an enquiry is created.	<code>curam.provider.impl.ProviderEnquiry.setProviderEnquiryDetails()</code>
<code>ProviderEnquirySetProviderEnquiryUpdateDetailsEvents</code>	Raised when an enquiry is updated.	<code>curam.provider.impl.ProviderEnquiry.setProviderEnquiryUpdateDetails()</code>

License Events

The following Events are located in the `curam.provider.impl.License` interface.

Table 12. License Event Details.

This table describes License Events

Event Class	Description	Event is raised before and after
<code>LicenseSuspendEvents</code>	Raised when a License is suspended.	<code>curam.provider.impl.License.suspend()</code>
<code>LicenseRejectEvents</code>	Raised when a License is rejected.	<code>curam.provider.impl.License.reject()</code>
<code>LicenseApproveEvents</code>	Raised when a License approved.	<code>curam.provider.impl.License.approve()</code>

Home Study Events

The following Events are located in the `curam.homestudy.impl.HomeStudy` interface.

Table 13. Home Study Event Details.

This table describes Home Study Events

Event Class	Description	Event is raised before and after
<code>HomeStudyApproveEvents</code>	Raised when a Home Study recommendation for a provider is approved.	<code>curam.homestudy.impl.HomeStudy.approve()</code>
<code>HomeStudySubmitEvents</code>	Raised when a Home Study is submitted.	<code>curam.homestudy.impl.HomeStudy.submit()</code>
<code>HomeStudyRejectEvents</code>	Raised when a Home Study recommendation is rejected.	<code>curam.homestudy.impl.HomeStudy.reject()</code>

Compartment Events

The following Events are located in the `curam.place.impl.Compartment` interface.

Table 14. *Compartment Event Details.*

This table describes Compartment Events

Event Class	Description	Event is raised before and after
CompartmentCloseEvents	Raised when a Compartment is closed.	<code>curam.place.impl.Compartment.close()</code>

Place Events

The following events are located in the `curam.place.impl.Place` interface.

Table 15. *Place Event Details.*

This table describes Place Events

Event Class	Description	Event is raised before and after
PlaceCloseEvents	Raised when a Place is closed.	<code>curam.place.impl.Place.activate()</code>
PlaceMarkOutOfUseEvents	Raised when a Place is marked out of use.	<code>curam.place.impl.Place.markOutOfUse()</code>
PlaceOccupiedEvents	Raised when a Place is occupied.	<code>curam.place.impl.Place.occupied()</code>
PlaceMarkInUseEvents	Raised when a Place is marked in use.	<code>curam.place.impl.Place.markInUse()</code>
PlaceGetLocationForPlaceEvents	Raised when the location of a Place is retrieved.	<code>uram.place.impl.Place.getLocationForPlace()</code>

Request Events

The following events are located in the `curam.externaluseraccess.impl.Request` interface.

Table 16. *Request Event Details.*

This table describes Request Events

Event Class	Description	Event is raised before and after
RequestAcceptEvents	Raised when a Request created by an external provider is accepted.	<code>curam.externaluseraccess.impl.Request.accept()</code>
RequestSubmitEvents	Raised when Request created by an external provider is submitted.	<code>curam.externaluseraccess.impl.Request.submit()</code>
RequestRejectEvents	Raised when Request created by an external provider is rejected.	<code>curam.externaluseraccess.impl.Request.reject()</code>

Member Certification Events

The following events are in the `curam.provider.impl.MemberCertification` interface.

Table 17. Member Certification Event Details.

This table describes Member Certification Events

Event Class	Description	Event is raised before and after
MemberCertificationModifyCertificationEvents	Raised when a provider member Certification is updated.	curam.provider.impl.MemberCertification.modifyCertificationEvents
MemberCertificationGetDerivativeStatusEvents	Raised when the status of a provider member Certification is retrieved.	curam.provider.impl.MemberCertification.getDerivativeStatusEvents

Provider Deduction Events

The following events are located in the curam.provider.impl.ProviderDeduction interface.

Table 18. Provider Deduction Event Details.

This table describes Provider Deduction Events

Event Class	Description	Event is raised before and after
ProviderDeductionActivateProviderDeductionsEvents	Raised when Deductions associated to a Provider are activated.	curam.provider.impl.ProviderDeduction.activateProviderDeductionsEvents
ProviderDeductionDeactivateProviderDeductionsEvents	Raised when Deductions associated to a Provider are deactivated.	curam.provider.impl.ProviderDeduction.deactivateProviderDeductionsEvents
ProviderDeductionCreateDeductionsForExistingCasesEvents	Raised when Deductions are created for existing cases.	curam.provider.impl.ProviderDeduction.createDeductionsForExistingCasesEvents
ProviderDeductionCreateVariableDeductionsBasedOnPaymentTypeEvents	Raised when Variable Deductions are created based on Payment Type.	curam.provider.impl.ProviderDeduction.createVariableDeductionsBasedOnPaymentTypeEvents
ProviderDeductionCancelVariableDeductionsBasedOnPaymentTypeEvents	Raised when Variable Deductions are Cancelled.	curam.provider.impl.ProviderDeduction.cancelVariableDeductionsBasedOnPaymentTypeEvents

Provider Offering Events

The following events are located in the curam.providerservice.impl.ProviderOffering interface.

Table 19. Provider Offering Event Details.

This table describes Provider Offering Events

Event Class	Description	Event is raised before and after
ProviderOfferingApproveEvents	Raised when a Provider Offering is approved.	curam.providerservice.impl.ProviderOffering.approveEvents
ProviderOfferingDenyEvents	Raised when a Provider Offering is denied.	curam.providerservice.impl.ProviderOffering.denyEvents
ProviderOfferingCheckApprovalCriteriaEvents	Raised when approval criteria are checked for a Provider Offering.	curam.providerservice.impl.ProviderOffering.checkApprovalCriteriaEvents

Table 19. Provider Offering Event Details (continued).

This table describes Provider Offering Events

Event Class	Description	Event is raised before and after
ProviderOfferingGetContractsRaised	Event is raised when Contracts are retrieved for a Provider Offering.	curam.providerservice.impl.ProviderOfferingUtil

The following events are located in the curam.citizenactivity.impl.ProviderOfferingUtil interface.

Table 20. Provider Offering Event Details.

This table describes Provider Offering Events

Event Class	Description	Event is raised before and after
ProviderOfferingUtilGetByServiceOfferedAndProviderEvents	Offering is retrieved based on the Service Offering and Provider.	curam.citizenactivity.impl.ProviderOfferingUtil

Provider Offering Rate Events

The following events are located in the curam.providerservice.impl.ProviderOfferingRate interface.

Table 21. Provider Offering Rate Event Details.

This table describes Provider Offering Rate Events

Event Class	Description	Event is raised before and after
ProviderOfferingRateModifyForCalendarEvents	Calendar Events Provider Offering Rate is modified.	curam.providerservice.impl.ProviderOfferingRate

Performance Measure Events

The following events are located in the curam.performancemeasure.impl.RetrievePerformanceMeasureForProvider interface.

Table 22. Performance Measure Event Details for the curam.performancemeasure.impl.RetrievePerformanceMeasureForProvider interface

Event Class	Description	Event is raised before and after
RetrievePerformanceMeasureForProviderIncidents	Retrieve Performance Measure on number of Incidents registered with the Provider is retrieved.	curam.performancemeasure.impl.RetrievePerformanceMeasureForProvider
RetrievePerformanceMeasureForProviderInvestigations	Retrieve Performance Measure on number of investigations registered with the Provider is retrieved.	curam.performancemeasure.impl.RetrievePerformanceMeasureForProvider

Table 22. Performance Measure Event Details for the `curam.performancemeasure.impl.RetrievePerformanceMeasureForProvider` interface (continued)

Event Class	Description	Event is raised before and after
<code>RetrievePerformanceMeasureForProviderIncidentsRequiringInvestigation</code>	Raised when the Performance Measure on number of Incidents requiring investigations registered with the Provider is retrieved.	
<code>RetrievePerformanceMeasureForProviderCustom</code>	Raised when the Performance Measure for a custom Performance Measure for a Provider is retrieved.	

The following events are located in the `curam.performancemeasure.impl.RetrievePerformanceMeasureForProviderOffering` interface.

Table 23. Performance Measure Event Details for the `curam.performancemeasure.impl.RetrievePerformanceMeasureForProviderOffering` interface

Event Class	Description	Event is raised before and after
<code>RetrievePerformanceMeasureForProviderOfferingAverageCostPerUnit</code>	Raised when the Performance Measure on average cost per unit of service is retrieved.	
<code>RetrievePerformanceMeasureForProviderOfferingUnitsPerClient</code>	Raised when the Performance Measure on number of units per client is retrieved.	
<code>RetrievePerformanceMeasureForProviderOfferingCustom</code>	Raised when the Performance Measure for a custom Performance Measure for a Provider is retrieved.	

Provider Group Customization Points

The following sections list the available customization points for Providers Groups.

Provider Group Events

The following events are located in the `curam.provider.impl.ProviderGroup` interface.

Table 24. Provider Group Event Details.

This table describes Provider Group Events

Event Class	Description	Event is raised before and after
<code>ProviderGroupCloseEvents</code>	Raised when a Provider Group is closed.	<code>curam.provider.impl.ProviderGroup.close()</code>
<code>ProviderGroupEnrollEvents</code>	Raised when a Provider Group is enrolled.	<code>curam.provider.impl.ProviderGroup.enroll()</code>

Table 24. Provider Group Event Details (continued).

This table describes Provider Group Events

Event Class	Description	Event is raised before and after
ProviderGroupReopenEvents	Raised when a closed Provider Group is reopened.	curam.provider.impl.ProviderGroup.reopen()
ProviderGroupGetCommonApp	Raised when Provider Service Offerings of a Provider Group are retrieved.	curam.provider.impl.ProviderGroup.getCommonApp()

Provider Group Associate Events

The following events are located in the curam.provider.impl.ProviderGroupAssociate interface.

Table 25. Provider Group Associate Event Details.

This table describes Provider Group Associate Events

Event Class	Description	Event is raised before and after
ProviderGroupAssociateRemove	Raised when a Provider Group is removed from a Provider Group.	curam.provider.impl.ProviderGroupAssociate.remove()

Service Offering Customization Points

The following sections list the available customization points for Service Offerings.

Service Offering Events

The following events are located in the curam.serviceoffering.impl.ServiceOffering interface.

Table 26. Service Offering Event Details.

This table describes Service Offering Events

Event Class	Description	Event is raised before and after
ServiceOfferingGetServiceRates	Raised when Service rates are retrieved for a particular period.	curam.serviceoffering.impl.ServiceOffering.getServiceRates()
ServiceOfferingModifyDescription	Raised when the text translation details for the Service Offering description attribute is modified.	curam.serviceoffering.impl.ServiceOffering.modifyDescription()
ServiceOfferingModifyNameText	Raised when the text translation details for the Service Offering name attribute is modified.	curam.serviceoffering.impl.ServiceOffering.modifyNameText()
ServiceOfferingAddNameText	Raised when the text translation is created for the Service Offering name attribute.	curam.serviceoffering.impl.ServiceOffering.addNameText()

Table 26. Service Offering Event Details (continued).

This table describes Service Offering Events

Event Class	Description	Event is raised before and after
ServiceOfferingAddDescriptionTranslationEvent	Raised when a description translation is created for the Service Offering description attribute.	curam.serviceoffering.impl.ServiceOffering.addD

Service Group Events

The following events are located in the curam.serviceoffering.impl.ServiceGroup interface.

Table 27. Service Group Event Details.

This table describes Service Group Events

Event Class	Description	Event is raised before and after
ServiceGroupAddServiceOfferingEvent	Raised when a Service Offering is added to a Service Group.	curam.serviceoffering.impl.ServiceGroup.addServ ()
ServiceGroupRemoveServiceOfferingEvent	Raised when a Service Offering is removed from a Service Group.	curam.serviceoffering.impl.ServiceGroup.remove ()
ServiceGroupGetServiceOfferingsEvent	Raised when Service Offerings from a Service Group are retrieved.	curam.serviceoffering.impl.ServiceGroup.getServ ()
ServiceGroupRetrieveServiceGroupReferenceEvent	Raised when the details of a Service Group for a specified reference is retrieved.	curam.serviceoffering.impl.ServiceGroup.retrieve

Service Authorization Customization Points

The following sections list the available customization points for Service Authorizations.

Service Authorization Events

The following events are located in the curam.serviceauthorization.impl.ServiceAuthorization interface.

Table 28. Service Authorization Event Details.

This table describes Service Authorization Customization Points

Event Class	Description	Event is raised before and after
ServiceAuthorizationFindLineItemsByServiceEvent	Raised when Service Authorization Line Items for a particular Service are retrieved.	curam.serviceauthorization.impl.ServiceAuthoriz
ServiceAuthorizationAddLineItemEvent	Raised when a line item is added to a Service Authorization.	curam.serviceauthorization.impl.ServiceAuthoriz

Table 28. Service Authorization Event Details (continued).

This table describes Service Authorization Customization Points

Event Class	Description	Event is raised before and after
ServiceAuthorizationInsertServiceAuthorizationEvents	Raised when a Service Authorization is created.	curam.serviceauthorization.impl.ServiceAutho
ServiceAuthorizationAddVoucherServiceAuthorizationEvents	Raised when a Voucher is associated to a Service Authorization.	curam.serviceauthorization.impl.ServiceAutho
ServiceAuthorizationDeleteVoucherServiceAuthorizationEvents	Raised when a Voucher is disassociated with a Service Authorization.	curam.serviceauthorization.impl.ServiceAutho
ServiceAuthorizationGetDerivedStatusEvents	Called when the status of a Service Authorization is retrieved.	curam.serviceauthorization.impl.ServiceAutho
ServiceAuthorizationAddLineItemEvents	Raised when a specified line item is added to the Service Authorization.	curam.serviceauthorization.impl.ServiceAutho
ServiceAuthorizationAddLineItemEvents	Raised when a specified line item is added to the Service Authorization.	curam.serviceauthorization.impl.ServiceAutho
ServiceAuthorizationAddSALIFrequencyServiceAnchorDateEvents	Raised when Frequency and Anchor Date Service Authorization Line Items are generated and added to a Service Authorization based on the frequency pattern and date.	curam.serviceauthorization.impl.ServiceAutho

Service Authorization Line Item Events

The following events are located in the curam.serviceauthorization.impl.ServiceAuthorizationLineItem interface.

Table 29. Service Authorization Line Item Event Details.

This table describes Service Authorization Line Item Events

Event Class	Description	Event is raised before and after
ServiceAuthorizationLineItemCloseEvents	Raised when a Service Authorization Line Item is closed.	curam.serviceauthorization.impl.ServiceAutho
ServiceAuthorizationLineItemInsertServiceAuthorizationLineItemEvents	Raised when a Service Authorization Line Item is inserted.	curam.serviceauthorization.impl.ServiceAutho
ServiceAuthorizationLineItemModifyServiceAuthorizationLineItemEvents	Raised when a Service Authorization Line Item is updated.	curam.serviceauthorization.impl.ServiceAutho
ServiceAuthorizationLineItemCancelServiceAuthorizationLineItemEvents	Raised when a Service Authorization Line Item is cancelled.	curam.serviceauthorization.impl.ServiceAutho
ServiceAuthorizationLineItemGetDerivedStatusEvents	Called when the status of a Service Authorization is retrieved.	curam.serviceauthorization.impl.ServiceAutho

Table 29. Service Authorization Line Item Event Details (continued).

This table describes Service Authorization Line Item Events

Event Class	Description	Event is raised before and after
ServiceAuthorizationLineItemCreatedRosterLineEvents	Raised when Roster Line Items related to a Service Authorization are retrieved.	curam.serviceauthorization.impl.ServiceAuthoriz

The following events are located in the curam.financial.impl.ProcessReassessmentForSALI interface.

Table 30. Service Authorization Line Item Event Details.

This table describes Service Authorization Line Item Events

Event Class	Description	Event is raised before and after
ProcessReassessmentForSALIRaisesOnCancellationEvents	Raised when cancellation payment for the Service Invoice Line Items or Provider Roster Line Items associated with the Service Authorization Line Item on cancellation of Service Authorization Line Item is processed.	curam.financial.impl.ProcessReassessmentForSALI
ProcessReassessmentForSALIRaisesOnCloseEvents	Raised when closing the payment on closing the Service Authorization Line Item is processed.	curam.financial.impl.ProcessReassessmentForSALI
ProcessReassessmentForSALIRaisesOnCreationEvents	Raised when creation reassessment on creation of new Service Authorization Line Item is triggered.	curam.financial.impl.ProcessReassessmentForSALI
ProcessReassessmentForSALIRaisesOnModificationEvents	Raised when modification reassessment on modification of new Service Authorization Line Item is triggered.	curam.financial.impl.ProcessReassessmentForSALI

Placement Customization Points

The following sections list the available customization points for Placements.

Placement Events

The following events are located in the curam.place.impl.Placement interface.

Table 31. Placement Event Details.

This table describes Placement Events

Event Class	Description	Event is raised before and after
PlacementTransferClientEvents	Raised when a client is transferred to a new Place.	curam.place.impl.Placement.transferClient()

Table 31. Placement Event Details (continued).

This table describes Placement Events

Event Class	Description	Event is raised before and after
PlacementTransferClientToReservation	Raised when a client is transferred to a new Place and a reservation is created for the new Place.	curam.place.impl.Placement.transferClientToReservation
PlacementGetOverlappingPlacementsForClient	Raised when Client Overlapping Placement details for a client are retrieved.	curam.place.impl.Placement.getOverlappingPlacementsForClient

The following events are located in the curam.place.impl.FacilityInformation interface.

Table 32. Placement Event Details.

This table describes Placement Events

Event Class	Description	Event is raised before and after
FacilityInformationRetrieveFacilities	Raised when the list of facility information for a Provider, service (or) provider type is retrieved.	curam.place.impl.FacilityInformation.retrieveFacilities

The following events are located in the curam.place.impl.PlaceSearch interface.

Table 33. Placement Event Details.

This table describes Placement Events

Event Class	Description	Event is raised before and after
PlaceSearchSearchAvailablePlaces	Raised when an available Places in a Provider facility is searched.	curam.place.impl.PlaceSearch.searchAvailablePlaces

Reservation Events

The following events are located in the curam.reservation.impl.Reservation interface.

Table 34. Reservation Event Details.

This table describes Reservation Events

Event Class	Description	Event is raised before and after
ReservationExpireEvents	Raised when a reservation is expired.	curam.reservation.impl.Reservation.expire()
ReservationCreateReservationEvent	Raised when a reservation is created.	curam.reservation.impl.Reservation.createReservation()
ReservationConfirmPlacementEvent	Raised when a placement is created from a reservation.	curam.reservation.impl.Reservation.confirmPlacement()

Table 34. Reservation Event Details (continued).

This table describes Reservation Events

Event Class	Description	Event is raised before and after
ReservationUpdateReservation	Raised when a reservation is updated.	curam.reservation.impl.Reservation.updateReservation() ()
ReservationCancelOverlapping	Raised when overlapping active reservations are cancelled.	curam.reservation.impl.Reservation.cancelOverlappingReservations() ()
ReservationGetPlaceAvailableInDateRange	Raised when available placements in the given date range are retrieved.	curam.reservation.impl.Reservation.getPlaceAvailabilityInDateRange() ()

Contract Customization Points

The following sections list the available customization points for Contracts.

Contract Version Events

The following events are located in the curam.contracts.impl.ContractVersion interface.

Table 35. Contract Version Event Details.

This table describes Contract Version Events

Event Class	Description	Event is raised before and after
ContractVersionPrintContractVersion	Raised when a Contract Version is printed.	curam.contracts.impl.ContractVersion.printContractVersion() ()
ContractVersionPreviewContractVersion	Raised when a Contract Version is previewed.	curam.contracts.impl.ContractVersion.previewContractVersion() ()
ContractVersionValidateContractProviderOfferingRates	Raised when Contract Provider Offering rates are validated.	curam.contracts.impl.ContractVersion.validateContractProviderOfferingRates() ()
ContractVersionValidateContractProviderOfferingPlaceLimits	Raised when Contract Provider Offering Place Limits are validated.	curam.contracts.impl.ContractVersion.validateContractProviderOfferingPlaceLimits() ()

The following events are located in the curam.contracts.impl.ContractVersionProviderOffering interface.

Table 36. Contract Version Event Details.

This table describes Contract Version Events

Event Class	Description	Event is raised before and after
ContractVerProvOfferCopyNonContractedOfferToContractEvents	Raised when Contract provider offering rates are copied to contract.	curam.contracts.impl.ContractVersionProviderOffering.copyNonContractedOfferToContractEvents() ()
ContractVerProvOfferCreateDefaultProviderOfferingRate	Raised when default Provider Offering Rate is created for the Provider.	curam.contracts.impl.ContractVersionProviderOffering.createDefaultProviderOfferingRate() ()

Table 36. Contract Version Event Details (continued).

This table describes Contract Version Events

Event Class	Description	Event is raised before and after
ContractVerPOCheckForDuplicateEvents	Raised when Duplicate Provider Offering on live contract is checked.	curam.contracts.impl.ContractVersionProvider
ContractVerPOCreateContractedRateForPeriodEvents	Provider Offering Rate is created if the non contracted Provider Offering Rate does not exist.	curam.contracts.impl.ContractVersionProvider

Flat Rate Contract Events

The following events are located in the curam.contracts.impl.FlatRateContract interface.

Table 37. Flat Rate Contract Event Details.

This table describes curam.contracts.impl.FlatRateContract

Event Class	Description	Event is raised before and after
FlatRateContractActivateEvents	This event is raised during activation of a flat rate contract.	curam.contracts.impl.FlatRateContract.activate
curam.contracts.impl.FlatRateContractFlatRateReEditEvents	Raised when FlatRate Contract is edited.	curam.contracts.impl.FlatRateContract.reEdit()
curam.contracts.impl.FlatRateContractFlatRateGenerateEvents	Raised when FlatRate Contract is generated.	curam.contracts.impl.FlatRateContract.generate
curam.contracts.impl.FlatRateContractFlatRateTerminateEvents	Raised when FlatRate Contract is terminated.	curam.contracts.impl.FlatRateContract.terminate
curam.contracts.impl.FlatRateContractFlatRateRenewEvents	Raised when FlatRate Contract is renewed.	curam.contracts.impl.FlatRateContract.renew()
curam.contracts.impl.FlatRateContractFlatRateCloneEvents	Raised when FlatRate Contract is cloned.	curam.contracts.impl.FlatRateContract.cloneFlatRateContract

Utilization Contract Events

The following events are located in the curam.contracts.impl.UtilizationContract interface.

Table 38. Utilization Contract Event Details.

This table describes Utilization Contract Events

Event Class	Description	Event is raised before and after
UtilizationContractDeleteEvents	Raised when a Utilization Contract is deleted.	curam.contracts.impl.UtilizationContract.delete
UtilizationContractGenerateEvents	Raised when a Utilization Contract is generated.	curam.contracts.impl.UtilizationContract.generate
UtilizationContractActivateEvents	Raised when a Utilization Contract is activated	curam.contracts.impl.UtilizationContract.activate

Table 38. Utilization Contract Event Details (continued).

This table describes Utilization Contract Events

Event Class	Description	Event is raised before and after
UtilizationContractTerminateEvent	Raised when a Utilization Contract is terminated.	curam.contracts.impl.UtilizationContract.terminate()
UtilizationContractRenewEvent	Raised when a Utilization Contract is renewed.	curam.contracts.impl.UtilizationContract.renew()
UtilizationContractReEditEvent	Raised when a Utilization Contract is edited.	curam.contracts.impl.UtilizationContract.reEdit()
UtilizationContractCloneUtilizationContractEvent	Raised when a Utilization Contract is cloned.	curam.contracts.impl.UtilizationContract.cloneUtilizationContract()
UtilizationContractCloneUtilizationContractForRenewalEvent	Raised when a Utilization Contract is cloned for renewal.	curam.contracts.impl.UtilizationContract.cloneUtilizationContractForRenewal()
UtilizationContractAmendEvent	Raised when a Utilization Contract is amended	curam.contracts.impl.UtilizationContract.amend()

(deprecated) Performance Measure Events



The following events are in the `curam.performancemeasure.impl.RetrievePerformanceMeasureForContract` interface.

Table 39. Performance Measure Event details.

This table describes Performance Measure Events

Event Class	Description	Event is raised before and after
RetrievePerformanceMeasureForContractGetActualValueForCustomPerformanceMeasure	Raised when Actual Value for custom Performance Measure is retrieved.	curam.performancemeasure.impl.RetrievePerformanceMeasureForContractGetActualValueForCustomPerformanceMeasure
RetrievePerformanceMeasureForContractGetAverageCostPerSuccessfulOutcome	Raised when Average Cost per successful Outcome is retrieved.	curam.performancemeasure.impl.RetrievePerformanceMeasureForContractGetAverageCostPerSuccessfulOutcome
RetrievePerformanceMeasureForContractGetPerformanceMeasureForAvgCostPerUnitOfService	Raised when Performance Measure for an average cost per unit of service is retrieved.	curam.performancemeasure.impl.RetrievePerformanceMeasureForContractGetPerformanceMeasureForAvgCostPerUnitOfService
RetrievePerformanceMeasureForContractGetPerformanceMeasureForNoOfClientsServed	Raised when Performance Measure on number of clients served are retrieved.	curam.performancemeasure.impl.RetrievePerformanceMeasureForContractGetPerformanceMeasureForNoOfClientsServed
RetrievePerformanceMeasureForContractGetPerformanceMeasureForNoOfUnitsDelivered	Raised when Performance Measure for number of units delivered are retrieved.	curam.performancemeasure.impl.RetrievePerformanceMeasureForContractGetPerformanceMeasureForNoOfUnitsDelivered

Table 39. Performance Measure Event details (continued).

This table describes Performance Measure Events

Event Class	Description	Event is raised before and after
RetrievePerformanceMeasureForRateOfAchievement	Performance Measure for rate of achievement of successful outcome is retrieved.	curam.financial.impl.PerformanceMeasureImpl.retrievePerformanceMeasureForRateOfAchievement
RetrievePerformanceMeasureValue	Performance Measure value is retrieved.	curam.financial.impl.PerformanceMeasureImpl.retrievePerformanceMeasureValue

Service Invoice Customization Points

The following sections list the available customization points for Service Invoices.

Service Invoice Events

The following events are located in the curam.financial.impl.ServiceInvoice interface.

Table 40. Service Invoice Event Details.

This table describes Service Invoice Events

Event Class	Description	Event is raised before and after
ServiceInvoiceAddLineItemEvent	Raised when a Service Invoice Line Item is added to a Service Invoice.	curam.financial.impl.ServiceInvoice.addLineItem
ServiceInvoiceBulkApproveEvent	Raised when many Service Invoice Line Items are approved together in bulk.	curam.financial.impl.ServiceInvoice.bulkApprove
ServiceInvoiceGetServiceInvoiceStatusEvent	Raised when Service Invoice status is retrieved.	curam.financial.impl.ServiceInvoice.getServiceInvoiceStatus

Service Invoice Line Item Events

The following events are located in the curam.financial.impl.ServiceInvoiceLineItem interface.

Table 41. Service Invoice Line Item Event Details.

This table describes Service Invoice Line Item Events

Event Class	Description	Event is raised before and after
ServiceInvoiceLineItemApproveEvent	Raised when a Service Invoice Line Item is approved.	curam.financial.impl.ServiceInvoiceLineItem.approve
ServiceInvoiceLineItemDenyEvent	Raised when a Service Invoice Line Item is denied.	curam.financial.impl.ServiceInvoiceLineItem.deny
ServiceInvoiceLineItemSubmitEvent	Raised when a Service Invoice Line Item is submitted.	curam.financial.impl.ServiceInvoiceLineItem.submit

Table 41. Service Invoice Line Item Event Details (continued).

This table describes Service Invoice Line Item Events

Event Class	Description	Event is raised before and after
ServiceInvoiceLineItemMatchCase	Raised when a Case Reference in a Service Invoice Line Item is matched with a case participant.	curam.financial.impl.ServiceInvoiceLineItem.mat
ServiceInvoiceLineItemMatchPayee	Raised when payee details on a Service Invoice Line Item are matched with a provider/provider group.	curam.financial.impl.ServiceInvoiceLineItem.mat
ServiceInvoiceLineItemMatchProvider	Raised when the details of the provider who is providing the service as taken from the Service Invoice Line Item, are matched with a registered provider.	curam.financial.impl.ServiceInvoiceLineItem.mat
ServiceInvoiceLineItemMatchClient	Raised when client details are matched with the client who received the service.	curam.financial.impl.ServiceInvoiceLineItem.mat
ServiceInvoiceLineItemResolveServiceAuthorization	Service Authorization Line Item is matched to a Service Invoice Line Item.	curam.financial.impl.ServiceInvoiceLineItem.reso
ServiceInvoiceLineItemValidateAuthorization	Service Authorization Line Item details are validated against Service Invoice Line Item details.	curam.financial.impl.ServiceInvoiceLineItem.vali
ServiceInvoiceLineItemGeneratePayment	Payment for a Service Invoice Line Item is processed for a Service Invoice Line Item.	curam.financial.impl.ServiceInvoiceLineItem.gen
ServiceInvoiceLineItemDeterminePaymentAmount	Payment amount is determined from the established rates for the period specified in the Service Invoice Line Item.	curam.financial.impl.ServiceInvoiceLineItem.dete
ServiceInvoiceLineItemMatchIdentifier	Raised when Case, Provider, Client details on a Service Invoice Line Item are matched.	curam.financial.impl.ServiceInvoiceLineItem.mat
ServiceInvoiceLineItemDeterminePaymentAmount	Payment amount is determined from the established rates to reassess the payment made for Service Invoice Line Item.	curam.financial.impl.ServiceInvoiceLineItem.dete
ServiceInvoiceLineItemMatchAgreement	Raised when a Service Invoice Line Item details are matched with an existing Flat Rate Contract.	curam.financial.impl.ServiceInvoiceLineItem.mat

Table 41. Service Invoice Line Item Event Details (continued).

This table describes Service Invoice Line Item Events

Event Class	Description	Event is raised before and after
ServiceInvoiceLineItemRetrieve	Service Authorization Events Authorization details related to a Service Invoice Line Item are retrieved.	curam.financial.impl.ServiceInvoiceLineItem.r
ServiceInvoiceLineItemSubmit	And Approver SIL Service Correction Events Invoice Line Item Correction is submitted and approved.	curam.financial.impl.ServiceInvoiceLineItem.s
ServiceInvoiceLineItemRetrieve	Raised when Paid Events paid against a Service Invoice Line Item is retrieved.	curam.financial.impl.ServiceInvoiceLineItem.r
ServiceInvoiceLineItemListSOA	Raised for Configuration for SIL Events Offering Attendance Configuration for the Service Offering related to a Service Invoice Line Item is retrieved.	curam.financial.impl.ServiceInvoiceLineItem.l
ServiceInvoiceLineItemGetAmount	Raised when the amount paid/payable against a Service Invoice Line Item is retrieved.	curam.financial.impl.ServiceInvoiceLineItem.g

The following events are located in the curam.financial.impl.DeterminePaymentAmount interface.

Table 42. Service Invoice Line Item Event Details.

This table describes Service Invoice Line Item Events

Event Class	Description	Event is raised before and after
DeterminePaymentAmountDetermine	Raised when the amount to be paid for the Service Invoice Line Item is determined.	curam.financial.impl.DeterminePaymentAmo

The following events are located in the curam.financial.impl.PaymentOptionProcessor interface.

Table 43. Service Invoice Line Item Event Details.

This table describes Service Invoice Line Item Events

Event Class	Description	Event is raised before and after
PaymentOptionProcessorProcess	Service Payment Option Change for a Service Offering made through invoices for the specified reassessment period is processed.	curam.financial.impl.PaymentOptionProcesso

Table 43. Service Invoice Line Item Event Details (continued).

This table describes Service Invoice Line Item Events

Event Class	Description	Event is raised before and after
PaymentOptionProcessorProcess	Raised before the Payment Option Change for a Provider made through invoices for the specified reassessment period is processed.	curam.financial.impl.PaymentOptionProcessor.pr

The following events are located in the curam.financial.impl.ServiceInvoiceLineItemHelper interface.

Table 44. Service Invoice Line Item Event Details.

This table describes Service Invoice Line Item Events

Event Class	Description	Event is raised before and after
ServiceInvoiceLineItemHelper	Match Client in the client details with the client who received the service is matched.	curam.financial.impl.ServiceInvoiceLineItemHelp
ServiceInvoiceLineItemHelper	Match Provider in the Provider details with Provider/Provider Group who provided the service is matched.	curam.financial.impl.ServiceInvoiceLineItemHelp
ServiceInvoiceLineItemHelper	Match Case in the case reference in Service Invoice Line Item to the participant case is matched.	curam.financial.impl.ServiceInvoiceLineItemHelp
ServiceInvoiceLineItemHelper	Match Payee in the payee details with Provider/Provider Group is matched.	curam.financial.impl.ServiceInvoiceLineItemHelp

The following events are located in the curam.financial.impl.ServiceInvoiceLineItemTransactionHelper interface.

Table 45. Service Invoice Line Item Event Details.

This table describes Service Invoice Line Item Events

Event Class	Description	Event is raised before and after
ServiceInvoiceLineItemTransactionHelper	Raised before the Canceled Invoice Line Item transaction of type canceled is created.	curam.financial.impl.ServiceInvoiceLineItemTran
ServiceInvoiceLineItemTransactionHelper	Raised before the Denied Invoice Line Item transaction of type denied is created.	curam.financial.impl.ServiceInvoiceLineItemTran

Table 45. Service Invoice Line Item Event Details (continued).

This table describes Service Invoice Line Item Events

Event Class	Description	Event is raised before and after
ServiceInvoiceLineItemTransactionCreated	Raised when a Service Invoice Line Item is created.	curam.financial.impl.ServiceInvoiceLineItemTransactionCreated
ServiceInvoiceLineItemTransactionPaymentCreated	Raised when a Payment for a Service Invoice Line Item is created.	curam.financial.impl.ServiceInvoiceLineItemTransactionPaymentCreated

Service Invoice Line Item Correction Events

The following events are located in the curam.financial.impl.ServiceInvoiceLineItemCorrection interface.

Table 46. Service Invoice Line Item Correction Event Details.

This table describes Service Invoice Line Item Correction Events

Event Class	Description	Event is raised before and after
ServiceInvoiceLineItemCorrectionApproved	Raised when a Service Invoice Line Item Correction is approved.	curam.financial.impl.ServiceInvoiceLineItemCorrectionApproved
ServiceInvoiceLineItemCorrectionDenied	Raised when a Service Invoice Line Item Correction is denied.	curam.financial.impl.ServiceInvoiceLineItemCorrectionDenied
ServiceInvoiceLineItemCorrectionSubmitted	Raised when a Service Invoice Line Item Correction is submitted.	curam.financial.impl.ServiceInvoiceLineItemCorrectionSubmitted
ServiceInvoiceLineItemCorrectionValidated	Raised when the details specified in Service Invoice Line Item is validated against the Service Authorization Line Item details.	curam.financial.impl.ServiceInvoiceLineItemCorrectionValidated

Attendance Customization Points

The following sections list the available customization points for Attendance.

Provider Roster Line Item Events

The following events are located in the curam.attendance.impl.ProviderRosterLineItem interface.

Table 47. Provider Roster Line Item Event Details.

This table describes Provider Roster Line Item Events

Event Class	Description	Event is raised before and after
ProviderRosterLineItemModify	Raised when a Roster Line Item is modified on modification of a service authorization line item.	curam.attendance.impl.ProviderRosterLineItem.n (0)
ProviderRosterLineItemModify	Raised when a Roster Line Item is modified.	curam.attendance.impl.ProviderRosterLineItem.n (0)
ProviderRosterLineItemModify	Raised when a Roster Line Item is modified based on daily attendance.	curam.attendance.impl.ProviderRosterLineItem.n
ProviderRosterLineItemApprove	Raised when a Roster Line Item is approved.	curam.attendance.impl.ProviderRosterLineItem.a
ProviderRosterLineItemAddClient	Raised when a Roster Line Item is created for a new client.	curam.attendance.impl.ProviderRosterLineItem.a
ProviderRosterLineItemAddAbsence	Raised when an absence period is added to a Roster Line Item.	curam.attendance.impl.ProviderRosterLineItem.a
ProviderRosterLineItemSubmit	Raised when a Roster Line Item is submitted.	curam.attendance.impl.ProviderRosterLineItem.s
ProviderRosterLineItemSubmit	Raised when a Roster Line Item from a Roster is submitted.	curam.attendance.impl.ProviderRosterLineItem.s
ProviderRosterLineItemDenyEvent	Raised when a Roster Line Item is denied.	curam.attendance.impl.ProviderRosterLineItem.c
ProviderRosterLineItemSubmit	Raised when a Roster Line Item correction is submitted for approval.	curam.attendance.impl.ProviderRosterLineItem.s
ProviderRosterLineItemAccommodate	Raised when a client is accommodated on an existing Roster.	curam.attendance.impl.ProviderRosterLineItem.a
ProviderRosterLineItemCalculate	Raised when units on a Provider Roster Line Item are calculated.	curam.attendance.impl.ProviderRosterLineItem.c
ProviderRosterLineItemUpdate	Raised when units on a Roster for a particular client are updated.	curam.attendance.impl.ProviderRosterLineItem.u
ProviderRosterLineItemListSO	Raised when Offering Attendance Configuration list for a Roster Line Item is retrieved.	curam.attendance.impl.ProviderRosterLineItem.l
ProviderRosterLineItemViewException	Raised when a task is viewed for a Provider Roster Line Item.	curam.attendance.impl.ProviderRosterLineItem.v
ProviderRosterLineItemGetCorrectionIndicator	Raised when the correction indicator for a Provider Roster Line Item is retrieved.	curam.attendance.impl.ProviderRosterLineItem.g

Table 47. Provider Roster Line Item Event Details (continued).

This table describes Provider Roster Line Item Events

Event Class	Description	Event is raised before and after
ProviderRosterLineItemGetCaseHeaderDetailsEvent	Raised when Provider Roster Line Item details are retrieved.	curam.attendance.impl.ProviderRosterLineItem
ProviderRosterLineItemGetPayBasedOnAttendanceForRLIEvent	Raised when the Period for Pay Based on Attendance is retrieved.	curam.attendance.impl.ProviderRosterLineItem
ProviderRosterLineItemGetAbsencePeriodEvent	Raised when the Absence period on a Provider Roster Line Item is retrieved.	curam.attendance.impl.ProviderRosterLineItem
ProviderRosterLineItemGetDailyAttendanceEvent	Raised when the Daily attendance is retrieved from a Provider Roster Line Item.	curam.attendance.impl.ProviderRosterLineItem
ProviderRosterLineItemGetOriginalEvent	Raised when Provider Roster Line Item details are retrieved.	curam.attendance.impl.ProviderRosterLineItem

The following events are located in the curam.attendance.impl.AttendanceInformationProcessing interface.

Table 48. Provider Roster Line Item Event Details.

This table describes Provider Roster Line Item Events

Event Class	Description	Event is raised before and after
AttendanceInfoProcessGetRosterLineItemsForCaseEvent	Raised when Provider Roster Line Items for a case is retrieved.	curam.attendance.impl.AttendanceInformationProcessing
AttendanceInfoProcessGetRosterLineItemsForClientEvent	Raised when Provider Roster Line Items for a client is retrieved.	curam.attendance.impl.AttendanceInformationProcessing

The following events are located in the curam.attendance.impl.ProviderRosterLineItemHelper interface.

Table 49. Provider Roster Line Item Event Details.

This table describes Provider Roster Line Item Events

Event Class	Description	Event is raised before and after
ProviderRosterLineItemHelperMatchClientEvent	Raised when the client is matched based on client reference number, first name and last name and address.	curam.attendance.impl.ProviderRosterLineItemHelper
ProviderRosterLineItemHelperMatchCaseEvent	Raised when the case is matched by the case reference number.	curam.attendance.impl.ProviderRosterLineItemHelper

Table 49. Provider Roster Line Item Event Details (continued).

This table describes Provider Roster Line Item Events

Event Class	Description	Event is raised before and after
ProviderRosterLineItemHelperMatchVoucherEvents	Raised when the voucher is matched by number assigned to the voucher that has been issued to the client.	curam.attendance.impl.ProviderRosterLineItemH

The following events are located in the curam.attendance.impl.ProviderRosterLineItemTransactionHelper interface.

Table 50. Provider Roster Line Item Event Details.

This table describes Provider Roster Line Item Events

Event Class	Description	Event is raised before and after
ProviderRosterLineItemTransactionHelperCreateSpecialInvoiceLineItemTransactionEvents	Raised when a Special Invoice Line Item transaction of type denied is created.	curam.attendance.impl.ProviderRosterLineItemT
ProviderRosterLineItemTransactionHelperCreateCancellationTransactionEvents	Raised when a Cancellation Invoice Line Item transaction of type canceled is created.	curam.attendance.impl.ProviderRosterLineItemT
ProviderRosterLineItemTransactionHelperCreateProviderRosterLineItemTransactionsEvents	Raised when Provider Roster Line Item transactions are created.	curam.attendance.impl.ProviderRosterLineItemT

Provider Roster Line Item Correction (PRLI Correction) Events

The following events are located in the curam.attendance.impl.PRLICorrection interface.

Table 51. Provider Roster Line Item Correction (PRLI Correction) Event Details.

This table describes Provider Roster Line Item Correction (PRLI Correction) Events

Event Class	Description	Event is raised before and after
PRLICorrectionApproveEvents	Raised when a Provider Roster Line Item Correction is approved.	curam.attendance.impl.PRLICorrection.approve()
PRLICorrectionDenyEvents	Raised when a Provider Roster Line Item Correction is denied.	curam.attendance.impl.PRLICorrection.deny()
PRLICorrectionSubmitEvents	Raised when a Provider Roster Line Item Correction is submitted.	curam.attendance.impl.PRLICorrection.submit()

Roster Events

The following events are located in the curam.attendance.impl.RosterProcessing interface.

Table 52. Roster Event Details.

This table describes Roster Events

Event Class	Description	Event is raised before and after
RosterProcessingGenerateRoster	Manually generate roster is generated manually.	curam.attendance.impl.RosterProcessing.generateRoster()
RosterProcessingGetApplicableRosterRange	Retrieve the applicable roster range is retrieved.	curam.attendance.impl.RosterProcessing.getApplicableRosterRange()
RosterProcessingCreateRosterOverlap	Overlapping date for Service Authorization Line Item overlapping date is created.	curam.attendance.impl.RosterProcessing.createRosterOverlap()
RosterProcessingCreateRosterEvent	Raised when roster for a Service Authorization Line Item is created.	curam.attendance.impl.RosterProcessing.createRosterEvent()

Attendance Payment Frequency Events

The following events are located in the curam.attendance.impl.AttendancePaymentFrequency interface.

Table 53. Attendance Payment Frequency Event Details.

This table describes Attendance Payment Frequency Events

Event Class	Description	Event is raised before and after
AttendancePaymentFrequencyGetDerivedStatus	Retrieve the status of an attendance payment configuration entry is retrieved.	curam.attendance.impl.AttendancePaymentFrequency.getDerivedStatus()

Service Offering Attendance Configuration Events

The following events are located in the curam.attendance.impl.SOAAttendanceConfiguration interface.

Table 54. Service Offering Attendance Configuration Event Details.

This table describes Service Offering Attendance Configuration Events

Event Class	Description	Event is raised before and after
SOAttendanceConfigurationGetDerivedStatus	Retrieve the status of a Service Offering Attendance Configuration is retrieved.	curam.attendance.impl.SOAAttendanceConfiguration.getDerivedStatus()

Service Offering Attendance Payment Events

The following events are located in the interface.

Table 55. Service Offering Attendance Event Details.

This table describes Service Offering Attendance Payment

Event Class	Description	Event is raised before and after
SOAttendancePaymentGetDerivativeStatusForThe	Raised when the status of a Service Offering Attendance Payment is retrieved.	curam.attendance.impl.SOAttendancePayment.g

Financial Customization Points

The following sections list the available customization points for Financials.

Financial Events

The following events are located in the curam.financial.impl.FinancialAPI interface.

Table 56. Financial Event Details.

This table describes Financial Events

Event Class	Description	Event is raised before and after
FinancialAPIRetrieveServiceDeliverySummaryInformationEvents	Raised when the service delivery summary information is retrieved for a case, client and service.	curam.financial.impl.FinancialAPI.retrieveService
FinancialAPIRetrieveServiceDeliverySummaryInformationEvents	Raised when the service delivery summary information is retrieved for a service and case participant role.	curam.financial.impl.FinancialAPI.retrieveService
FinancialAPIListReassessmentResultsEvents	Raised when the reassessment results for all the product deliveries created to deliver the services for the given service authorization is retrieved.	curam.financial.impl.FinancialAPI.listReassessme

The following events are located in the curam.financial.impl.GenerateOverUnderPayment interface.

Table 57. Financial Event Details.

This table describes Financial Events

Event Class	Description	Event is raised before and after
GenerateOverUnderPaymentGenerateOverUnderPaymentForPRLIEEvents	Raised when the over payment for Provider Roster Line Item is generated.	curam.financial.impl.GenerateOverUnderPayment
GenerateOverUnderPaymentGenerateOverUnderPaymentForSILIEEvents	Raised when the over payment for Service Invoice Line Item is generated.	curam.financial.impl.GenerateOverUnderPayment

Table 57. Financial Event Details (continued).

This table describes Financial Events

Event Class	Description	Event is raised before and after
GenerateOverUnderPaymentGenerateOverUnderPaymentForPRLIEvents	Raised when the monthly payment for Provider Roster Line Item is generated.	curam.financial.impl.GenerateOverUnderPayment
GenerateOverUnderPaymentGenerateOverUnderPaymentForSILIEvents	Raised when the monthly payment for Service Invoice Line Item is generated.	curam.financial.impl.GenerateOverUnderPayment

The following events are located in the curam.financial.impl.PaymentProcessing interface.

Table 58. Financial Event Details.

This table describes Financial Events

Event Class	Description	Event is raised before and after
PaymentProcessingProcessPaymentProcessingProcessPaymentForSILIEvents	Raised when the payment for the Service Invoice Line Item is processed.	curam.financial.impl.PaymentProcessing.processPayment
PaymentProcessingProcessPaymentProcessingProcessPaymentForReassessmentEvents	Raised when the payment for reassessment is processed.	curam.financial.impl.PaymentProcessing.processPayment
PaymentProcessingApproveAndActivateGPMCaseEvents	Raised when the case for Provider is approved and activated.	curam.financial.impl.PaymentProcessing.approveAndActivateGPMCase
PaymentProcessingSubmitForApprovalEvents	Raised when the case is submitted and approved.	curam.financial.impl.PaymentProcessing.submitForApproval
PaymentProcessingDeterminePaymentDetailsEvents	Raised when the payee for a given Provider and given period is determined.	curam.financial.impl.PaymentProcessing.determinePaymentDetails
PaymentProcessingDeterminePaymentDetailsEvents	Raised when the payee for a given Provider and given period is determined.	curam.financial.impl.PaymentProcessing.determinePaymentDetails

The following events are located in the curam.financial.impl.ProcessCaseNominee interface.

Table 59. Financial Event Details.

This table describes Financial Events

Event Class	Description	Event is raised before and after
ProcessCaseNomineeCreateCaseNomineeEvents	Raised when the Provider Group is created as the case nominee for the given product delivery case of the Provider.	curam.financial.impl.ProcessCaseNominee.createCaseNominee

Table 59. Financial Event Details (continued).

This table describes Financial Events

Event Class	Description	Event is raised before and after
ProcessCaseNomineeCreateCase	Raised when the payee is created as the case nominee for the given product delivery case of the Provider.	curam.financial.impl.ProcessCaseNominee.create
ProcessCaseNomineeCreateCase	Raised when the Provider Group is created as the case nominee for the given product delivery case of the Provider and contract frequency.	curam.financial.impl.ProcessCaseNominee.create
ProcessCaseNomineeCreateNominee	Raised when all the case nominees are created for all existing cases associated with the Provider for whom the Provider Group Associate Payment Configuration is created.	curam.financial.impl.ProcessCaseNominee.create
ProcessCaseNomineeReassignCase	Raised when the case nominee objectives associated with the Provider Group Associate Payment Configuration is reassigned on cancellation of payment configuration.	curam.financial.impl.ProcessCaseNominee.reassign
ProcessCaseNomineeReassignCase	Raised when the case nominee objectives associated with the Provider Group Associate Payment Configuration is reassigned on modification of Provider Group Associate.	curam.financial.impl.ProcessCaseNominee.reassign
ProcessCaseNomineeReassignCase	Raised when the case nominee objectives associated with the Provider Group Associate Payment Configuration is reassigned on modification of payment configuration.	curam.financial.impl.ProcessCaseNominee.reassign
ProcessCaseNomineeReAssignCase	Raised when the case nominee objectives associated with the old payee to the new payee for the given product delivery case is reassigned.	curam.financial.impl.ProcessCaseNominee.reAssign

The following events are located in the curam.financial.impl.RateValidator interface.

Table 60. Financial Event Details.

This table describes Financial Events

Event Class	Description	Event is raised before and after
RateValidatorValidateRatesEvent	Raised when there is any gap or overlapping in the period of the set of rates provided are validated.	curam.financial.impl.RateValidator.validateRa

Referral Customization Points

The following sections list the available customization points for Referrals.

Referral Events

The following events are located in the curam.referral.impl.Referral interface.

Table 61. Referral Event Details.

This table describes Referral Events

Event Class	Description	Event is raised before and after
ReferralSendNotificationEvent	Raised when a notification letter to the Concern Role is sent.	curam.referral.impl.Referral.sendNotification()
ReferralCreateReferralRoleEvent	Raised when a referral role record for a referral is created.	curam.referral.impl.Referral.createReferralRole

The following events are located in the curam.referral.impl.ReferralNotification interface.

Table 62. Referral Event Details.

This table describes Referral Events

Event Class	Description	Event is raised before and after
ReferralNotificationGenerateNotificationDocumentEvent	Raised when a notification document is generated.	curam.referral.impl.ReferralNotification.generateNotificationDocument()
ReferralNotificationSendNotificationEvent	Raised when a notification is sent to the Concern Role.	curam.referral.impl.ReferralNotification.sendNotification()

Service Delivery Customization Points

The following sections list the available customization points for Service Deliveries.

Service Delivery Events

The following events are located in the curam.servicedelivery.impl.ServiceDeliveryEstimatedCost interface.

Table 63. Service Delivery Event Details.

This table describes Service Delivery Events

Event Class	Description	Event is raised before and after
ServiceDeliveryEstimatedCostRaisedRateEvent	Raised when the Service Offering is determined.	curam.servicedelivery.impl.ServiceDeliveryEstim
ServiceDeliveryEstimatedCostRaisedRateWithFrequencyEvent	Raised when the Service Offering is determined for each service occurrence date.	curam.servicedelivery.impl.ServiceDeliveryEstim

The following events are located in the curam.servicedelivery.impl.ServiceDelivery interface.

Table 64. Service Delivery Event Details.

This table describes Service Delivery Events

Event Class	Description	Event is raised before and after
ServiceDeliverySubmitEvents	Raised when the Service Delivery is submitted.	curam.servicedelivery.impl.ServiceDelivery.subm

The following events are located in the curam.servicedeliveryevaluation.impl.ServiceDeliveryEvaluation interface.

Table 65. Service Delivery Event Details.

This table describes Service Delivery Events

Event Class	Description	Event is raised before and after
ServiceDeliveryEvalCalculateOfferForServiceDeliveryEvaluationEvent	Raised when a Service Delivery Evaluation is calculated.	curam.servicedeliveryevaluation.impl.ServiceDel

(deprecated) Taxonomy Customization Points



The following sections list the available customization points for Taxonomy.

(deprecated) Taxonomy Events



The following events are located in the curam.taxonomy.impl.POTaxonomyInEditIndexProcessor interface.

Table 66. Taxonomy Event details.

This table describes Taxonomy Events

Event Class	Description	Event is raised before and after
POTaxonomyInEditIndexProcess	Raised when the Provider Offering and Taxonomy indexing details are published.	curam.taxonomy.impl.POTaxonomyInEditIndexProcess
POTaxonomyInEditIndexProcess	Raised when the Provider Offering and Taxonomy Term association details are added.	curam.taxonomy.impl.POTaxonomyInEditIndexProcess

The following events are located in the curam.taxonomy.impl.PublishTaxonomy interface.

Table 67. Taxonomy Event Details.

This table describes Taxonomy Events

Event Class	Description	Event is raised before and after
PublishTaxonomyPublishInEdit	Raised when the Taxonomy Terms and its associated data are published.	curam.taxonomy.impl.PublishTaxonomyPublishInEdit
PublishTaxonomyPublishInEdit	Raised when the Taxonomy Terms are published.	curam.taxonomy.impl.PublishTaxonomyPublishInEdit
PublishTaxonomyPublishTaxonomyVersion	Raised when the Taxonomy Version is published.	curam.taxonomy.impl.PublishTaxonomyPublishTaxonomyVersion
PublishTaxonomyRemoveTaxonomyVersion	Raised when the Taxonomy Version is removed.	curam.taxonomy.impl.PublishTaxonomyRemoveTaxonomyVersion

The following events are located in the curam.taxonomy.impl.RelatedConceptWizState interface.

Table 68. Taxonomy Event Details.

This table describes Taxonomy Events

Event Class	Description	Event is raised before and after
RelatedConceptWizStateReadTaxonomyTerms	Raised when the Taxonomy Term list is retrieved from the wizard state.	curam.taxonomy.impl.RelatedConceptWizStateReadTaxonomyTerms
RelatedConceptWizStateRemoveTaxonomyTerm	Raised when the In Edit Taxonomy Term is removed from the wizard state.	curam.taxonomy.impl.RelatedConceptWizStateRemoveTaxonomyTerm
RelatedConceptWizStateRemoveTaxonomyTerms	Raised when the Taxonomy Terms are removed from the wizard state.	curam.taxonomy.impl.RelatedConceptWizStateRemoveTaxonomyTerms

Table 68. Taxonomy Event Details (continued).

This table describes Taxonomy Events

Event Class	Description	Event is raised before and after
RelatedConceptWizStateResetSearch	Raised when the search criteria and Taxonomy Terms stored in the wizard state is reset.	curam.taxonomy.impl.RelatedConceptWizState.resetSearch
RelatedConceptWizStateSaveRelatedConcept	Raised when the Related Concept is added.	curam.taxonomy.impl.RelatedConceptWizState.saveRelatedConcept
RelatedConceptWizStateSaveRelatedConceptInEdit	Raised when the In Edit Related Concept is added.	curam.taxonomy.impl.RelatedConceptWizState.saveRelatedConceptInEdit
RelatedConceptWizStateStoreRelatedConcept	Raised when the Related Concept details are stored in the wizard state.	curam.taxonomy.impl.RelatedConceptWizState.storeRelatedConcept
RelatedConceptWizStateStoreTaxonomyTerms	Raised when the Taxonomy Terms are stored in the wizard state.	curam.taxonomy.impl.RelatedConceptWizState.storeTaxonomyTerms

The following events are located in the curam.taxonomy.impl.ReviewTaxonomy interface.

Table 69. Taxonomy Event Details.

This table describes Taxonomy Events

Event Class	Description	Event is raised before and after
ReviewTaxonomyAcceptModification	Raised when the changes on the term based on review attribute selects are accepted.	curam.taxonomy.impl.ReviewTaxonomy.acceptModification
ReviewTaxonomyAcceptReplacement	Raised when the new terms selected for the replacement are accepted.	curam.taxonomy.impl.ReviewTaxonomy.acceptReplacement
ReviewTaxonomyDeleteReplacement	Raised when the term which is being replaced is deleted.	curam.taxonomy.impl.ReviewTaxonomy.deleteReplacement
ReviewTaxonomyRejectReplacement	Raised when the new replacement terms are rejected.	curam.taxonomy.impl.ReviewTaxonomy.rejectReplacement
ReviewTaxonomyRejectModification	Raised when the changes in the term is rejected.	curam.taxonomy.impl.ReviewTaxonomy.rejectModification
ReviewTaxonomyReviewDeletedTerms	Raised when the deleted terms are reviewed.	curam.taxonomy.impl.ReviewTaxonomy.reviewDeletedTerms
ReviewTaxonomyReviewAllDeletedTerms	Raised when all the deleted terms are reviewed.	curam.taxonomy.impl.ReviewTaxonomy.reviewAllDeletedTerms

The following events are located in the curam.taxonomy.impl.TaxonomyInEditData interface.

Table 70. Taxonomy Event Details.

This table describes Taxonomy Events

Event Class	Description	Event is raised before and after
TaxonomyInEditDataAddTermNameTranslation	Raised when the new translations are added to Taxonomy Term name attribute.	curam.taxonomy.impl.TaxonomyInEditData.a
TaxonomyInEditDataAddTermBibliographicReferenceTranslation	Raised when the new translations are added to Taxonomy Term bibliographic reference attribute.	curam.taxonomy.impl.TaxonomyInEditData.a
TaxonomyInEditDataAddTermCommentsTranslation	Raised when the new translations are added to Taxonomy Term comments attribute.	curam.taxonomy.impl.TaxonomyInEditData.a
TaxonomyInEditDataAddTermDefinitionTranslation	Raised when the new translations are added to Taxonomy Term definition attribute.	curam.taxonomy.impl.TaxonomyInEditData.a
TaxonomyInEditDataAddUseRelatedConceptTranslation	Raised when the new translations are added to Use Reference.	curam.taxonomy.impl.TaxonomyInEditData.a
TaxonomyInEditDataAssociateTermWithRelatedConcept	Raised when the Concept with Related Concepts are associated.	curam.taxonomy.impl.TaxonomyInEditData.a
TaxonomyInEditDataRemoveRelatedConceptAssociation	Raised when the association between In Edit Taxonomy Term from the Related Concept is removed.	curam.taxonomy.impl.TaxonomyInEditData.re

The following events are located in the curam.taxonomy.impl.TaxonomyTermRelatedConcept interface.

Table 71. Taxonomy Event Details.

This table describes Taxonomy Events

Event Class	Description	Event is raised before and after
TaxonomyTermRelatedConceptAddRelatedConcepts	Raised when the Related Concepts are added to a Taxonomy Term.	curam.taxonomy.impl.TaxonomyTermRelatedC
TaxonomyTermRelatedConceptAddTaxonomyTerms	Raised when the Taxonomy Terms are added to a Related Concept.	curam.taxonomy.impl.TaxonomyTermRelatedC

The following events are located in the curam.taxonomy.impl.TaxonomyTermWizState interface.

Table 72. Taxonomy Event Details.

This table describes Taxonomy Events

Event Class	Description	Event is raised before and after
TaxonomyTermWizStateReadRelatedConcepts	Raised when the Related Concept list is retrieved from the wizard state.	curam.taxonomy.impl.TaxonomyTermWizState.re
TaxonomyTermWizStateReadRelatedTerms	Raised when the related Taxonomy Term list is retrieved from the wizard state.	curam.taxonomy.impl.TaxonomyTermWizState.re
TaxonomyTermWizStateReadUseReferences	Raised when the Use Reference list is retrieved from the wizard state.	curam.taxonomy.impl.TaxonomyTermWizState.re
TaxonomyTermWizStateRemoveRelatedTerm	Raised when the related term is removed from the related term list in the wizard state.	curam.taxonomy.impl.TaxonomyTermWizState.re
TaxonomyTermWizStateRemoveUseReference	Raised when a Use Reference is removed from the Use Reference list in the wizard state.	curam.taxonomy.impl.TaxonomyTermWizState.re
TaxonomyTermWizStateSaveAll	Raised when the Taxonomy Term and Use References are created from the details in the wizard state.	curam.taxonomy.impl.TaxonomyTermWizState.sa
TaxonomyTermWizStateStoreRelatedConcept	Raised when the Related Concept is stored in the data store.	curam.taxonomy.impl.TaxonomyTermWizState.st
TaxonomyTermWizStateStoreRelatedTerms	Raised when the related terms are stored in the wizard state.	curam.taxonomy.impl.TaxonomyTermWizState.st
TaxonomyTermWizStateStoreTaxonomyTerm	Raised when the Taxonomy Term details are stored in the wizard state.	curam.taxonomy.impl.TaxonomyTermWizState.st
TaxonomyTermWizStateStoreUseReference	Raised when the Use Reference is stored in the wizard state.	curam.taxonomy.impl.TaxonomyTermWizState.st

The following events are located in the curam.taxonomy.sl.search.impl.POTaxonomyIndexSearch interface.

Table 73. Taxonomy Event Details.

This table describes Taxonomy Events

Event Class	Description	Event is raised before and after
POTaxonomyIndexSearchIsProviderOfferingAlreadyIndexed	Raised when the Provider Offering value which represents whether Provider Offering is indexed or not is retrieved.	curam.taxonomy.sl.search.impl.POTaxonomyInde

This table describes Taxonomy Events

CPM Workflow Process Definitions

Introduction

Note: Custom versions of workflows always take precedence over workflows included in the initial installation.

External Enquiry Workflow

Enacted from

For example, Mr. and Mrs. Smith use an external-facing system to inquire about fostering children. This workflow is enacted by `curam.cpm.eua.facade.impl.ExternalProviderEnquiry.createEnquiry`.

Source Location

EJBServer/components/CPM/workflow/EXTERNALENQUIRYWORKFLOW v1.xml

Default Behavior

This manual activity is allocated by using a function allocation strategy. The default implementation of this operation allocates the activity to the provider inquiry work queue. The reviewer can choose to either transfer the inquiry to an enrolled provider or close the inquiry. After this activity is completed, the workflow also gets completed.

Event Details

This link provides the notation of the event details.

The notation of the following event details is as follows:

Table 74. External Enquiry Event Details

Event Raised	Primary Event Data	Raised From
PROVIDERENQUIRY.TRANSFERENQUIRYTOPROVIDER	providerEnquiryID	curam.cpm.facade.impl.ProviderEnquiry.closeProvid
PROVIDERENQUIRY.CLOSEENQUIRY	providerEnquiryID	curam.cpm.facade.impl.ProviderEnquiry.transferEnq

Home Study Approval Workflow

Use the links in this section to learn about the Home Study Approval workflow.

Enacted from

This workflow is enacted whenever a user submits a home study for approval.

This workflow is enacted from

`curam.cpm.workflowprocesses.homestudy.impl.HomeStudyImpl.submit.`

Source Location

This link provides the location of the Home Study Approval workflow .xml file.

`EJBServer/components/CPM/workflow/HOMESTUDYAPPROVAL_v1.xml`

Default Behavior

This workflow automatically creates a manual activity to assign a home study recommendation to a user for approval.

The default implementation of this operation submits the home study recommendation to the supervisor of the user who submitted the request. Agencies might want to alter this default behavior.

For example, an agency might want to route the approval request to a user other than the supervisor or to a group of users. The manual activity is allocated by using a function allocation strategy. The reviewer can choose to either approve or reject the approval request. After this activity is completed, the workflow also gets completed.

Event Details

This link provides the notation of the event details.

The notation of the following event details is as follows:

Table 75. Home Study Approval Event Details

Event Raised	Primary Event Data	Raised From
PROVIDERMANAGEMENT.HOMESTUDYAPPROVED	HomeStudyID	curam.homestudy.impl.approve
PROVIDERMANAGEMENT.HOMESTUDYRETURNED	HomeStudyID	curam.homestudy.impl.reject

New Invoice Created Workflow

Use the links in this section to learn about the New Invoice Created workflow.

Enacted from

This workflow is enacted whenever an external user submits an invoice for processing.

This workflow is enacted from
`curam.cpm.facade.impl.Request.createFinancialsTask`.

Source Location

This link provides the location of the New Invoice Created workflow .xml file.

`EJBServer/components/CPM/workflow/NEWINVOICECREATED_v1.xml`

Default Behavior

This workflow creates a manual activity to assign an invoice that was submitted by an external user to another user for processing

. The default implementation of this operation submits the invoice to a financial user. Agencies might want to alter this default behavior.

For example, an agency might want to submit the invoice to a different user for processing. The manual activity is allocated by using a function allocation strategy.

Event Details

This link provides the notation of the event details for the New Invoice Created workflow.

The notation of the event details is as follows:

Table 76. New Invoice Created Event Details

Event Raised	Primary Event Data	Raised From
NEWINVOICECREATED.INVOICECANCELLED	ServiceInvoiceID	curam.cpm.facade.impl.cancelServiceInvoice
NEWINVOICECREATED.INVOICESUBMITTED	ServiceInvoiceID	curam.cpm.facade.impl.submitSILForProcess

Service Invoice Exception Processing Workflow

Use the links in this section to learn about the Service Invoice Exception Processing workflow.

Enacted from

This workflow is enacted when there is insufficient correct data to match a service invoice line item against its corresponding service authorization.

This workflow is called from
`curam.financial.impl.ServiceInvoiceLineItemImpl.processInvoiceLineItem`.

Source Location

This link provides the location of the Service Invoice Exception Processing workflow .xml file.

`EJBServer/components/CPM/workflow/SERVICEINVOICEEXCEPTIONPROCESSING_v1.xml`.

Default Behavior

This workflow creates a manual activity for a user to review service invoice details that do not correspond with the service authorization associated with the invoice.

During invoice processing, certain details on a service invoice line item (SILI) must correspond to the details on the service authorization that is associated with the invoice otherwise the invoice is not paid. The default implementation of this operation allocates the activity to the invoice exception processing work queue for a financial user to review.

Agencies might want to alter this default behavior, for example, by routing the activity to a different work queue. The reviewer can choose to change the service invoice line item and submit for reevaluation or deny/cancel the SILI. After this activity is completed, the workflow is also completed. This manual activity is allocated by using a function allocation strategy.

The modeled operation for this workflow is:

`curam.cpm.workflowprocesses.impl.WorkflowAllocationFunction.siliExceptionProcessingAllocat`

Event Details

This link provides the notation of the event details for the Service Invoice Exception Processing workflow.

The notation of the event details is as follows:

Table 77. Service Invoice Exception Processing Event Details

Event Raised	Primary Event Data	Raised From
PROVIDERMANAGEMENT.SILIPROCESSDENIED	ServiceInvoiceLineItemID	curam.financial.impl.ServiceInvoiceLineItemI
PROVIDERMANAGEMENT.SILICANCELLED	ServiceInvoiceLineItemID	curam.financial.impl.ServiceInvoiceLineItemI
PROVIDERMANAGEMENT.SILIDENIED	ServiceInvoiceLineItemID	curam.financial.impl.ServiceInvoiceLineItemI

Service Invoice Line Item Approval Workflow

Use the links in this section to learn about the Service Invoice Line Item Approval workflow.

Enacted from

This workflow is enacted when a service invoice line item requires manual approval and has reached the "Pending Approval" status, after successful processing. This workflow is called from `curam.financial.impl.ServiceInvoiceLineItemImpl.enactSILIApprovalWorkflow`.

Source Location

This link provides the location of the Service Invoice Line Item Approval workflow .xml file.

`EJBServer/components/CPM/workflow/SERVICEINVOICELINEITEMAPPROVAL_v1.xml`.

Default Behavior

The workflow creates a manual activity to review a service invoice line item and approve or deny it.

The default implementation of this operation allocates the activity to the invoice exception processing work queue for a financial user to approve. Agencies might want to alter this default behavior.

For example, by routing the activity to a different work queue or to a different user. This manual activity is allocated by using a function allocation strategy. The modeled operation for this workflow is `curam.cpm.workflowprocesses.impl.WorkflowAllocationFunction.siliExceptionProcessingAlloc`

The reviewer can choose to either approve or deny the service invoice line item. After this activity is completed, the workflow also gets completed.

Event Details

This link provides the notation of the event details for the Service Invoice Line Item Approval workflow.

The notation of the following event details is as follows:

Table 78. Service Invoice Line Item Event Details

Event Raised	Primary Event Data	Raised From
PROVIDERMANAGEMENT.SILIAPPROVED	serviceInvoiceLineItem	curam.financial.impl.ServiceInvoiceLineItemImp
PROVIDERMANAGEMENT.SILIDENIED	serviceInvoiceLineItem	curam.financial.impl.ServiceInvoiceLineItemImp

Service Invoice Line Item Correction Approval Workflow

Enacted from

This workflow is enacted when a service invoice line item correction is submitted for approval.

This workflow is called from `curam.financial.impl.ServiceInvoiceLineItemCorrectionImpl.enactCorrectionApprovalWorkflo`

Source Location

This link provides the location of the Service Invoice Line Item Approval workflow .xml file.

`EJBServer/components/CPM/workflow/
SERVICEINVOICELINEITEMCORRECTIONAPPROVAL_v1.xml`

Default Behavior

This workflow automatically creates a manual activity to assign a service invoice line item correction to a user for approval.

This manual activity is allocated by using a function allocation strategy. The modeled operation for this `curam.cpm.workflowprocesses.impl.WorkflowAllocationFunction.siliExceptionProcessingAlloc`
The default implementation of this operation submits the service invoice line item correction to the supervisor of the user who submitted the request. Agencies might want to alter this default behavior.

For example, an agency might want to route the approval request to a user other than the supervisor or to a group of users. The reviewer can choose to either approve or deny the service invoice line item correction. After this activity is completed, the workflow is also completed.

Event Details

This link provides the notation of the event details for the Service Invoice Line Item Approval workflow.

The notation of the following event details is as follows:

Table 79. Service Invoice Line Item Correction Approval Event Details

Event Raised	Primary Event Data	Raised From
PROVIDERMANAGEMENT.SILICORRECTIONAPPROVAL	ServiceInvoiceLineItem	curam.financial.impl.ServiceInvoiceLineItemCorrection
PROVIDERMANAGEMENT.SILICORRECTIONREJECT	ServiceInvoiceLineItem	curam.financial.impl.ServiceInvoiceLineItemCorrection

Supervisor Request Decision Workflow

Enacted From

This workflow is enacted when a user submits a request to be set up with an external user account.

This workflow is called from
`curam.cpm.eua.facade.impl.ExternalRequests.submitRequest`.

Source Location

This link provides the location of the Supervisor Request Decision workflow .xml file.

`EJBServer/components/CPM/workflow/SUPERVISORREQUESTDECISION_v1.xml`

Default Behavior

This workflow creates a manual activity that submits a request of an external user to an administrator user for the external user to be included in the system.

The request is for the external user to be set up in one of the following categories:

- A provider member
- A provider participant
- A provider group member
- A provider group associate

The default implementation submits the request to the external request work queue for an administrator to consider for approval. Agencies might want to alter this default behavior.

For example, by routing the activity to a different work queue. The administrator can approve or reject the request of the external user.

After this activity is completed, the workflow also is completed.

Event Details

This link provides the notation of the event details for the Supervisor Request Decision workflow.

The notation of the following event details is as follows:

Table 80. Supervisor Request Decision Event Details

Event Raised	Primary Event Data	Raised From
REQUESTDECISION.REQUESTACCEPTED	requestID	curam.cpm.facade.impl.Request.raiseAcceptRequest
REQUESTDECISION.REQUESTREJECTED	requestID	curam.cpm.facade.impl.Request.rejectRequest

Supervisor View New External User Task Notification Workflow

Use the links in this section to learn about the Supervisor View New External User Task Notification workflow.

Enacted from

This workflow is enacted when an administrator user creates an external user account.

This workflow is called from
`curam.cpm.eua.facade.impl.ExternalUser.createExternalUser.`

Source Location

This link provides the location of the Supervisor View New External User Task Notification workflow .xml file.

`EJBServer/components/CPM/workflow/
 SUPERVISORVIEWNEWEXTERNALUSERTASKNOTIFICATION_v1.xml`

Default Behavior

This workflow creates a route activity to send a notification to the owner of an external user.

When an administrator user sets up a new external user account, the owner of the new external user is sent a notification to inform them that the account was created successfully. The default implementation sends a notification to the resource manager who enrolled the external user. Agencies might want to alter this default.

For example, an agency might want to send the notification to a different user. After this activity is completed, the workflow is also completed.

Events Details

No Events are raised for this workflow.

Roster Exception Processing Workflow

Use the links in this section to learn about the Roster Exception Processing workflow.

Enacted From

This workflow is enacted when there is insufficient correct data to match a roster line item against its corresponding service authorization.

This workflow is called from
`curam.attendance.impl.ProviderRosterLineItemImpl.processRosterLineItem.`

Source Location

This link provides the location of the Roster Exception Processing workflow .xml file.

EJBServer/components/CPM/workflow/ROSTEREXCEPTIONPROCESSING_v1.xml

Default Behavior

This workflow creates a manual activity for a user to review details of a provider roster line item that does not correspond to its associated service authorization.

Certain details on a roster line item must match the details on the service authorization that is associated with the roster line item otherwise any attendance-based payments that are related to the roster are not paid.

The default implementation of this operation allocates this activity to the roster exception processing work queue for a user to review. Agencies might want to alter this default behavior, for example, by routing the activity to a different work queue. This workflow creates a manual activity to review the provider roster line item in question. This manual activity is allocated by using a function allocation strategy. The modeled operation for this activity is

curam.cpm.workflowprocesses.impl.WorkflowAllocationFunction.prliExceptionProcessingAllocationS
The reviewer can choose to change the provider roster line item and submit it for reevaluation or deny/cancel the provider roster line item. After this activity is completed, the workflow is also completed.

Event Details

This link provides the notation of the event details for the Roster Exception Processing workflow.

The notation of the following event details is as follows:

Table 81. Roster Exception Processing Event Details

Event Raised	Primary Event Data	Raised From
ROSTER.PRLI_PROCESSED	providerRosterLineItemID	curam.attendance.impl.ProviderRosterLineItem
ROSTER.PRLI_CANCELED	providerRosterLineItemID	curam.financial.impl.ServiceInvoiceLineItem
ROSTER.PRLI_DENIED	providerRosterLineItemID	curam.attendance.impl.ProviderRosterLineItem

New Client Added to Roster Workflow

Use the links in this section to learn about the New Client Added to Roster workflow.

Enacted From

This workflow is enacted whenever a provider roster line item is created during creation or modification of a service authorization line item.

This workflow is called from
curam.serviceauthorization.impl.ServiceAuthorizationLineItemImpl.generateTaskForNewClientAdded.

Source Location

This link provides the location of the New Client Added to Roster workflow .xml file.

EJBServer/components/CPM/workflow/NEWCLIENTADDEDTOROSTER_v1.xml

Default Behavior

This workflow creates an activity to send a notification to the owner of a provider roster line item when a client is added to a roster.

This notification is sent only during the creation or modification of a service authorization line item that leads to creation of a roster line item.

If the roster line item is submitted or canceled or denied, the corresponding generated notification is removed from the user's task inbox.

Event Details

This link provides the notation of the event details for the New Client Added to Roster workflow.

The notation of the following event details is as follows:

Table 82. New Client Added to Roster Event Details

Event Raised	Primary Event Data	Raised From
ROSTER.PRLI_PROCESSED	providerRosterLineItem	curam.attendance.impl.ProviderRosterLineItemImpl
ROSTER.PRLI_CANCELED	providerRosterLineItem	curam.financial.impl.ServiceInvoiceLineItemImpl
ROSTER.PRLI_DENIED	providerRosterLineItem	curam.attendance.impl.ProviderRosterLineItemImpl

Roster Line Item Approval Workflow

Use the links in this section to learn about the Roster Line Item Approval workflow.

Enacted From

This workflow is enacted when a provider roster line item requires manual approval and has reached the **Pending Approval** status.

This workflow is called from
`curam.attendance.impl.ProviderRosterLineItemImpl.approve`.

Source Location

This link provides the location of the Roster Line Item Approval workflow .xml file.

`EJBServer/components/CPM/workflow/ROSTERLINEITEMAPPROVAL_v1.xml`

Default Behavior

This workflow creates a manual activity to review a provider roster line item and approve or deny it.

The default implementation of this operation allocates the activity to the roster exception processing work queue. Agencies might want to alter this default behavior, for example, by routing the activity to a different work queue. This manual activity is allocated by using a function allocation strategy. The modeled operation for this workflow is
`curam.cpm.workflowprocesses.intf.WorkflowAllocationFunction.prliExceptionProcessingAlloc`

The reviewer can choose to either approve or deny the provider roster line item. After this activity is completed, the workflow also gets completed.

Event Details

This link provides the notation of the event details for the Roster Line Item Approval workflow.

The notation of the following event details is as follows:

Table 83. Roster Line Item Approval Event Wait Activities Details

Event Raised	Primary Event Data	Raised From
ROSTER.PRLI_APPROVED	providerRosterLineItemID	curam.attendance.impl.ProviderRosterLineItemImpl
ROSTER.PRLI_DENIED	providerRosterLineItemID	curam.attendance.impl.ProviderRosterLineItemImpl

Roster Line Item Correction Approval Workflow

Use the links in this section to learn about the Roster Line Item Correction Approval workflow.

Enacted From

The workflow is enacted whenever a user approves a provider roster line item correction.

This workflow is called from `curam.attendance.impl.PRLICorrectionImpl.approve`.

Source Location

This link provides the location of the Roster Line Item Correction Approval workflow .xml file.

`EJBServer/components/CPM/workflow/ROSTERLINEITEMCORRECTIONAPPROVAL_v1.xml`

Default Behavior

This workflow contains the processing that is involved in approving a correction made to a provider roster line item.

This workflow creates a manual activity to review a provider roster line item correction and approve or deny it. The default implementation of this operation allocates the activity to the roster exception processing work queue.

This manual activity is allocated by using a function allocation strategy. The modeled operation for this workflow is `curam.cpm.workflowprocesses.intf.WorkflowAllocationFunction.prliExceptionProcessingAllocat`. The reviewer can choose to either approve or deny the provider roster line item correction. After this activity is completed, the workflow is also completed.

Event Details

This link provides the notation of the event details for the Roster Line Item Correction Approval workflow.

The notation of the following event details is as follows:

Table 84. Roster Line Item Correction Approval Event Details

Event Raised	Primary Event Data	Raised From
ROSTER.PRLIC_APPROVED	prliCorrectionID	curam.attendance.impl.PRLICorrectionImpl.approve
ROSTER.PRLIC_DENIED	prliCorrectionID	curam.attendance.impl.PRLICorrectionImpl.deny

CPM Products and Rule Sets

Overview

New financial processes have been built for CPM to enable payments to be made to providers. These new processes integrate with existing Cúram Enterprise Framework (CEF) financial processes. CPM uses Cúram Products and Rule sets for generating the payments for a service provider.

Products

CPM has following products:

- Provider Invoice

This product is used to generate the payments for the invoices furnished by the providers.

- Provider Placement

This product is used to generate the payments related to the placement services offered by the provider.

- Provider Contract

This product is used to generate the payments that are not dependent on the service utilization.

- Provider Attendance

This product is used to generate the payments based on the client attendance artifacts provided by the provider for a particular service.

These products are used as a means of getting to Cúram financials rather than them being real benefit products with which a user can interact. All the case processing for these products happens in the back ground on CPM events such as invoice approval, placement of a client, on making a contract live or on provider roster line item approval. We consider the CPM Products has the designated extension point interfaces as the customization points available to an agency.

The DMX files used for the above products are:

- PRODUCT.dmx
- EVIDENCEMETADATA.dmx
- PRODUCTEVIDENCELINK.dmx
- PRODUCTRULESLINK.dmx
- TEMPORALEVIDENCEAPPROVALCHECK.dmx

No changes can be made to these as the generation of financials is dependent upon the product and evidence approval configurations.

Rule Sets

The list of Rule Sets in CPM is described below. The rule sets can be customized, as long as the customized rule set does not depend on new types of evidence.

Table 85. Payment Type and Rule Set Details

Payment Type	Rule Set Source Location
<i>Provider Invoice</i>	EJBServer\components\CPM\rulesets\Product_51.xml
<i>Provider Placement</i>	EJBServer\components\CPM\rulesets\Product_52.xml

Table 85. Payment Type and Rule Set Details (continued)

Payment Type	Rule Set Source Location
<i>Flat-Rate Contract Payments</i>	EJBServer\components\CPM\rulesets\Product_53.xml
<i>Provider Attendance Payments</i>	EJBServer\components\CPM\rulesets\Product_304.xml

CPM Financials

Introduction

CPM financials are developed using the Classic Assessment/reassessment framework, evidence functionality and the Classic Rules Engine.

CPM financials include several tasks such as

- maintenance (creation, approval and activation) of the Product Delivery cases (SILI, Attendance, Placement, Contract) for different types of payments;
- management of evidence using the Evidence functionality;
- execution of Classic Rule Sets;
- assessment/reassessment of financials;
- generation of payments etc.

CPM financials leverage CEF financial processing for assessments and payments.

CPM financial processing is responsible for

- creating and maintaining Evidence for different types of cases;
- creating and maintaining Financial Schedules and transactions associated with different case types;
- processing financial transactions associated with a Participant and/or a Case.

Payment Types

There are 4 types of Products configured for different payment types in CPM financials

- Service Invoice;
- Placement;
- Flat Rate Contract;
- Attendance

Service Invoice

Service Invoice processing relies on the creation of a Service Authorization when services are allocated to the clients. The individual line items within a Service Authorization can be for a number of different services allocated to that client, which can be provided by different providers. After providing a service, the Provider submits an invoice to the SEM agency. The Provider gets paid once Service Invoice is approved. Service Invoice Line Item payment amounts are treated as evidence for the Service Invoice financial processing.

A product delivery case of type Provider Invoice is created the first time a service invoice line item for a provider is approved. Evidence is created on the case to correspond to the payment amount determined by CPM. The frequency of

payment is set based on the established payment frequency for the provider, and leverages CEF functionality around due dates for financial components.

If there is a change in payee, a separate PD case will be created for the payee.

All payments due for the provider for the period will be rolled up and paid as a single payment.

Placement

Placement is a type of service, in which a client is physically placed with the Provider for a period of time. Once a placement service is authorized, a client can be placed with the provider and financials will be started from day one. The unit of measure for the placement will be always a number of days. These placement details will be considered as evidence for processing the placement related financials.

A product delivery case of type Provider Placement is created the first time a placement is made with a provider. The system creates one PD case for each Placement. When a client is transferred within a Provider facility (i.e. from one place to another), this also creates a new product delivery case.

The delivery pattern on the product delivery case is set to a value specified in the property administration section of CPM administration.

For example, if a placement is made for a provider for the first time on June 15th, for the period from June 1st till June 30th, and the frequency is set to the first day of every month, the product delivery case is created on June 15th and the evidence data is set to June 1st till June 30th. The first payment due date is set to July 1st.

Flat rate contract

A Flat Rate Contract is a formal agreement between a Provider and the SEM agency which establishes terms under which services will be delivered. Each contract can cover single or multiple services. All the Contract details are treated as evidence for Flat Rate Contract financial processing.

A product delivery case of type Provider Contract is created the first time a flat rate contract is activated. The system creates one PD case for each Contract per Provider. It also creates a new PD case whenever an existing Contract is renewed.

The information specified in the contract is used to establish a payment schedule for the provider.

Attendance

Attendance rosters are used when services are delivered to the client which require that client attendance be tracked and reported through Attendance Tracking. Attendance is tracked either through a roster submitted by the provider and entered on to the system by an internal user, or by the provider accessing the system externally. Attendance Rosters can be generated automatically based on a configured frequency for a service. Rosters are submitted to the agency after capturing all attendance details. These attendance details are used as evidence for processing the financials.

A product delivery case of type Provider Attendance is created the first time a roster is approved for a provider. Evidence is created on the case to correspond to the payment amount determined by CPM.

The frequency of payment is set based on the established payment frequency for roster based payments. If set, this frequency applies across all providers on the system. If this frequency is not set, the frequency of payment is set based on the established payment frequency for the provider, and leverages CEF functionality around due dates for financial components.

All payments due for the provider for the period will be rolled up and paid as a single payment.

Service Deliveries

Introduction

A service delivery is a type of service delivered to a client, which can be created and managed within an integrated case or an outcome plan. These services can be configured to use product delivery processing, Cúram Provider Management (CPM) processing, or a combination of both, depending on how the agency wishes the service to be delivered to the client.

Services which use product delivery processing can use standard product delivery functionality, e.g. eligibility determination for a service and the calculation of payments based on custom rates (a rate which can change over time and can change based on circumstances). Services which use CPM processing can use CPM's financial processing and rate hierarchy. For example, invoices submitted by a provider are matched to a service authorization, and payments are generated based on the provider offering rate, using an out of the box Provider Invoice product delivery case (one per provider). Services which use a combination of both CPM processing and product delivery processing can utilize some or all of the standard features of a product delivery while fully integrating with CPM's service authorization and invoice processing.

If a service offering is configured to use product delivery processing for any aspect of service delivery, a corresponding product must be configured. This chapter outlines the actions and extension points available in CPM to utilize these product delivery features. For general information on configuring a product to be delivered as a service, see Section 3.10 of the Cúram Integrated Case Management Configuration Guide. For information on the different delivery types available and the functionality offered by each, see Section 3.8 of the Cúram Provider Management Guide.

Product Design and Configuration

Where service deliveries are configured to use product delivery processing to determine eligibility or payment amounts, the underlying product needs to be associated with a CER rule set and rate tables appropriate to the SEM agency's requirements. For detailed instructions on configuring products and rule sets see the Cúram How To Build a Product Guide.

Rule Set Creation

The rule set used to determine eligibility and calculate payment amounts in respect of the service must be configured to use a combination of client, case, service and invoice or attendance evidence values, depending on the requirements of the agency and the service delivery type. If product delivery processing is being used to determine both eligibility and the payment amount then the recommended approach is to use a separate objective to calculate each of these as follows:-

- The eligibility objective must be configured such that entitlement is determined by checking the value of the relevant attributes, for example, the client's date of birth or employment status. The valueType of the Objective Tag Type for this Objective must be a non money type such as Double to ensure an eligible decision does not result in the generation of financial components, as this is a non-financial objective.
- Entitlement to the payment objective should check for entitlement to the eligibility Objective as well as checking the value of attributes related to custom rates, invoice or attendance evidence. The valueType of the Objective Tag Type for this objective must be Money to ensure the generation of financial components, as this is a financial objective.

Evidence and Evidence Maintenance

The evidence entities used in the rule set calculations must be configured to use the appropriate propagator type. For example, InvoicePaymentEvidence must be configured to use the ActiveEvidenceRowRuleObjectPropagator, ServiceInvoiceLineItem should use the RuleObjectPropagator. For detailed instructions on how to configure propagation of different evidence types, see The Inside Cúram Eligibility and Entitlement Using Cúram Express Rules Guide.

Evidence types that are used to determine eligibility and calculating payments in respect of services must be configured and associated with the product underlying the service during administration. Shared evidence is maintained at the integrated case level can also be used in rule set calculations.

Changes in evidence values used by the rule set will trigger the assessment engine to run the calculations again resulting in updated decision and payment information.

For detailed information on designing evidence, see the Cúram Dynamic Evidence Configuration Guide.

Custom Rates

If custom rates are to be used to calculate payment amounts in respect of a service, then a rate table must be created and associated with the rule set. For more information on creating and associating rate tables with CER rule sets, see the Inside Cúram Eligibility and Entitlement Using Cúram Express Rules Guide.

The value attribute of the Case Decision Objective must be populated in the rule set using values read from your rate tables. Otherwise an appropriate value from CPM such as the amount from an invoice or roster can be used. An attribute to calculate the Estimated Cost can also be included in the rule set where custom rates are used instead of using the default CPM calculation for this value.

Service Delivery Creation

On creation of a service delivery of type 'Product Delivery', 'Product Delivery with Invoicing' or 'Service Delivery with Eligibility', a product delivery case will be created by the system. This case is an instance of the product type that was configured on the underlying Service Offering. This product delivery is not visible to the user. The caseID of this product delivery is set as the deliveryTypeRelatedID on the service delivery record, and will also be associated with any invoice or attendance payment evidence records associated with the case (i.e., it will be set as

the caseID on the associated Evidence Descriptor record). Service deliveries of type Service Delivery will continue to use the caseID of the associated integrated case or outcome plan to populate these fields.

For service deliveries that use product delivery processing to determine eligibility, a hook has been provided to listen for events raised by the Assessment Engine. A default implementation for the `postInsertExamineDecisions` method has been added in `curam.cpm.sl.impl.CPMAssessmentEngineEventListener`, which listens for the creation of new decisions. Where the new decision relates to a service delivery of type 'Product Delivery with Invoicing' or 'Service Delivery with Eligibility' and the decision result is 'Eligible', then a service authorization and any service authorization line items are automatically created for the service delivery. This default behaviour can be altered or enhanced as per agencies own requirements.


A standalone public API

'`curam.servicedelivery.facade.impl.CreateServiceDeliveryWizard.createServiceDelivery`' is also available that creates a service delivery and returns the ID of it. This API forwards the call to the service delivery handler on the basis of the delivery mechanism configured. The delivery mechanism is retrieved based on the `deliverytype(SODELIVERYTYPEEntry)` configured for the service offering.


Display of Product Delivery Information

Any product delivery functionality that is related to eligibility and financial processing such as financial transactions, determinations, and evidence is automatically displayed at the service delivery level and can be viewed by a case worker in the context of that service delivery. Other product delivery functionality can also be configured for display if required. For example, certification and appeal details. However, some development effort is required to display this information. The display of this information must be configured through the use of client navigation files.

CPM Taxonomy

Note:  CPM Taxonomy is deprecated. For more information, see [Deprecated features](#).

Import Taxonomy File

Note:  CPM Taxonomy is deprecated. For more information, see [Deprecated features](#).

The process of uploading an external taxonomy file and storing it in the database is called Taxonomy Import Process (TIP). During the process, a single XML file from the database is broken into small, manageable XML chunks. This is done based on the cardinality (one to one, one to many or many to many) of the XML elements defined in that file. These small chunks of XML files (henceforth, called as Cúram Taxonomy files) are created based on criteria like common data shared across various elements.

For example, in AIRS Taxonomy, the Related Concept term elements are shared across Taxonomy term elements. Hence, the TIP creates separate Cúram Taxonomy File for each Related Concept element. Similarly, it also creates separate Cúram

Taxonomy Files for each Taxonomy term, Use Reference term (alias for taxonomy term name) etc. These files are stored in the database tables for further processing.

Refer to Appendix B for the structure of Cúram Taxonomy files.


Taxonomy Import Process uses the Java™ -XML binding mechanism to create and publish Cúram Taxonomy Files. The start from Java and XML approach is used for marshaling and un-marshaling XML data from Java to XML and vice-versa, using a mapping XML file. This mapping XML file plays a key role in marshaling/un-marshaling. Published taxonomy is stored in the database. The naming convention for the taxonomy database tables is based on the XML elements defined in the AIRS XML file.

If you want to import your own taxonomy XML file (i.e. other than AIRs taxonomy file) and leverage existing CPM taxonomy subsystem, you should map your XML elements to appropriate elements of the AIRs taxonomy file using Mapping file (refer to Appendix A for TaxonomyMapping.xml) mentioned above. CPM Taxonomy customization can be done in different ways

- Replacing the AIRs XML elements with your XML elements in TaxonomyMapping.xml file
- Replacing your implementation with default implementation.

Note: Currently taxonomy system supports ASCII and UTF-8 encoding, provided encoding format of the database also same

Replacing the AIRs XML elements with your XML elements in TaxonomyTermMapping.xml file

Note:  CPM Taxonomy is deprecated. For more information, see Deprecated features.

Import process creates the Cúram Taxonomy files using TaxonomyMapping.xml file. Cúram Taxonomy files (Refer to the Appendix B for the structure of these XML files) are as follows:

- TaxonomyTerm.xml
- RelatedConcept.xml
- UseReference.xml
- ExternalTerm.xml

Currently TaxonomyMapping.xml contains the mapping information between AIRs taxonomy elements and Cúram Taxonomy files elements along with respective bonded java classes. If you want leverage the existing taxonomy functionality, you should map your elements to the respective elements defined in the TaxonomyMapping.xml file. Along with this mapping, you should also override the APPRESOURCE.dmx with your TaxonomyMapping.xml file location.

Following table provides the mapping of AIRs taxonomy elements with the respective Cúram Taxonomy files elements and their associated java classes in TaxonomyMapping.xml.

Table 86. AIRs and Curam Taxonomy Mapping Elements.

This table describes mapping between AIRs Taxonomy Elements and Curam Taxonomy Elements.

AIRS Taxonomy Element	Description	Cúram Taxonomy Element	Cúram Taxonomy File	Java Representation of the Element
taxonomy	Root element of taxonomy term	record	TaxonomyTerm.xml	curam.taxonomy.util.impl.Taxonomy
name	Name of the taxonomy term	name	TaxonomyTerm.xml	java.lang.String
definition	Definition of the taxonomy term	definition	TaxonomyTerm.xml	java.lang.String
facet	Facet of the taxonomy term	facet	TaxonomyTerm.xml	java.lang.String
comments	Detailed description of the taxonomy term	comments	TaxonomyTerm.xml	java.lang.String
bibliographicReference	Bibliographic Reference of the taxonomy element	bibliographicReference	TaxonomyTerm.xml	java.lang.String
createdDate	Creation date of the taxonomy term	createdDate	TaxonomyTerm.xml	java.lang.String
lastModifiedDate	Last modified date of the taxonomy term	lastModifiedDate	TaxonomyTerm.xml	java.lang.String
externalTerms	External System Classification terms associated with the taxonomy term	externalTerms	ExternalTerm.xml	curam.taxonomy.util.impl.ExternalT
relatedConcepts	Related Concepts associated with the taxonomy term	relatedConcepts	RelatedConcept.xml	curam.taxonomy.util.impl.RelatedCo
useReferences	Alias names of the taxonomy term	useReferences	UseReference.xml	Alias names of the taxonomy term
relatedTerms	Related Terms of the taxonomy term	relatedTerms	TaxonomyTerm.xml	java.lang.String
oldCodes	Old codes associated with the taxonomy term	oldCodes	TaxonomyTerm.xml	java.lang.String

Update the TaxonomyMapping.xml by replacing AIRs Taxonomy Elements with elements your Taxonomy xml file for creating Cúram Taxonomy files. These files

will be used by Taxonomy-in-edit process to make changes to the content of xml files and Taxonomy Publish process to persist xml content to the relational tables.


Taxonomy Publish process uses the same mappings file for un-marshalling the XML content to java objects before persisting to the database. It persist the content of Cúram Taxonomy files to respective tables. Following table explains how content of different Cúram Taxonomy files is spawned across different tables:

Table 87. Mapping between Curam Taxonomy File Data and Curam Relational Entities.

This table describes mapping between Curam Taxonomy files and Curam Relational Entities.

Cúram Taxonomy file	Entities
TaxonomyTerm.xml	TaxonomyTerm,TaxonomyTermNameLink,LocalizableText,TextTranslation
ExternalTerm.xml	ExtSysClassification,ExtSysClassifnTermLink,LocalizableText,TextTranslation
RelatedConcept.xml	RelatedConcept,RelatedConceptNameLink,LocalizableText,TextTranslation
UseReference.xml	UseReference,LocalizableText,TextTranslation,UseReferenceNameLink

Replacing your implementation with default implementation

Note:  CPM Taxonomy is deprecated. For more information, see Deprecated features.


If you want to add your own taxonomy elements other than elements defined in TaxonomyMapping.xml, you should follow the Replaceable Implementation approach. Current taxonomy system doesn't support hooking of partial implementation for processing your extra element. Since taxonomy system is developed based on Design by Contract principle, you can replace default implementation with custom implementation without violating the contract (i.e. strictly constrained to the interface APIs). Custom implementation is only required if the structure of the following Cúram Taxonomy files are changed, that is, adding new elements or deleting existing elements

TaxonomyTerm.xml,RelatedConcept.xml,UseReference.xml,ExternalTerm.xml

You have to provide custom implementation to the following interfaces

- curam.taxonomy.impl.ImportTaxonomy
- curam.taxonomy.impl.PublishTaxonomy
- curam.taxonomy.impl.TaxonomyInEditData
- curam.taxonomy.impl.TaxonomyInEditDataConverter

Retrieve Indexes and Retrieve Taxonomy Terms By Keywords

Note:  CPM Taxonomy is deprecated. For more information, see Deprecated features.

Taxonomy Search functionality provides a number of service layer interfaces that are specifically designed for customization. A new custom implementation can be provided for any of the interfaces curam.taxonomy.sl.search.impl. TaxonomySearch. It is worth noting that default implementations which uses the Cúram Generic Search Server are provided for these interfaces. Please read chapter 2 (Using Strategy Patterns to Customize CPM) for more details

Compliance

CPM Sample

CPM contains a sample component that is primarily added with following purposes:

- to help the testing team test CPM APIs
- to help the development team test CPM extension points.

Since this component is added only with above purposes, use or customization of this component is not supported.

CPM Sample component has 3 packages which should not be used or customized.

- `curam.cpmsample.changecases.impl`:- This package is mainly used for testing of extension points in CPM.
- `curam.cpmsample.facade.impl`:- This package has façade classes and the associated client directory is `components/CPMSample`
- `curam.cpmsample.impl`:- This has Module class. It is again used for testing of extension points in CPM.

Miscellaneous Entities

CPM created following new entities in CPM component to add a new feature which supports multiple clients for provider roster line item. As this feature is not supported by the application currently, these entities may change in the future. It is highly recommended that these entities are not used.

- `PRLIClient`
- `PRLIClientHistory`
- `PRLICorrectionClient`

Appendix

Appendix A

The structure of the xml is based on the Castor v0.9.5.4 Mapping xml schema.


```

<?xml version="1.0" encoding="UTF-8"?>
  <mapping>
    <class auto-complete="false"
      name="curam.taxonomy.util.impl.Taxonomy">
      <map-to xml="taxonomy" />
      <field collection="arraylist" name="taxonomyTerms"
        type="curam.taxonomy.util.impl.TaxonomyTerm">
        <bind-xml name="record" />
      </field>
    </class>
    <class auto-complete="false"
      name="curam.taxonomy.util.impl.TaxonomyTerm">
      <map-to xml="record" />
      <field name="name" type="java.lang.String">
        <bind-xml name="name" node="element" />
      </field>
      <field name="code" type="java.lang.String">
        <bind-xml name="code" node="attribute" />
      </field>
      <field name="definition" type="java.lang.String">
        <bind-xml name="definition" node="element" />
      </field>
      <field name="facet" type="java.lang.String">
        <bind-xml name="facet" node="element" />
      </field>
      <field name="comments" type="java.lang.String">
        <bind-xml name="comments" node="element" />
      </field>
      <field name="bibliographicReference" type="java.lang.String">
        <bind-xml name="bibliographicReference" node="element" />
      </field>
      <field name="createdDate" type="java.lang.String">
        <bind-xml name="createdDate" node="element" />
      </field>
      <field name="lastModifiedDate" type="java.lang.String">
        <bind-xml name="lastModifiedDate" node="element" />
      </field>
      <field collection="arraylist" name="taxonomyTerms"
        type="curam.taxonomy.util.impl.TaxonomyTerm">
        <bind-xml name="record" />
      </field>
      <field collection="arraylist" name="externalTerms"
        type="curam.taxonomy.util.impl.ExternalTerm">
        <bind-xml name="externalTerm" />
      </field>
      <field collection="arraylist" name="relatedConcepts"
        type="curam.taxonomy.util.impl.RelatedConcept">
        <bind-xml name="relatedConcept" />
      </field>
      <field collection="arraylist" name="useReferences"
        type="java.lang.String">
        <bind-xml name="useReference" />
      </field>
      <field collection="arraylist" name="relatedTerms"
        type="java.lang.String">
        <bind-xml name="see Also" />
      </field>
      <field collection="arraylist" name="oldCodes"
        type="java.lang.String">
        <bind-xml name="oldCode" />
      </field>
    </class>
    <class auto-complete="false"
      name="curam.taxonomy.util.impl.RelatedConcept">
      <map-to xml="relatedConcept" />
      <field name="code" type="java.lang.String">
        <bind-xml name="code" node="attribute" />
      </field>
      <field name="name" type="java.lang.String">
        <bind-xml node="text" />
      </field>
    </class>
    <class auto-complete="false"

```

Appendix B: Schema definitions of the XML fragments created by Import process.

TaxonomyTerm.xsd

Note:  CPM Taxonomy is deprecated. For more information, see [Deprecated features](#).

```

<?xml version="1.0" encoding="UTF-8"?>
  <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
    elementFormDefault="qualified">
    <xs:element name="record">
      <xs:complexType>
        <xs:sequence>
          <xs:element ref="name" />
          <xs:element ref="definition" />
          <xs:element ref="facet" />
          <xs:element ref="comments" />
          <xs:element ref="bibliographicReference" />
          <xs:element ref="createdDate" />
          <xs:element ref="lastModifiedDate" />
          <xs:element ref="relatedTerms" />
          <xs:element ref="oldCode" />
        </xs:sequence>
        <xs:attribute name="code" use="required"
          type="xs:string" />
      </xs:complexType>
    </xs:element>
    <xs:element name="name">
      <xs:complexType mixed="true">
        <xs:attribute name="locale" use="required"
          type="xs:string" />
      </xs:complexType>
    </xs:element>
    <xs:element name="definition">
      <xs:complexType mixed="true">
        <xs:attribute name="locale" use="required"
          type="xs:string" />
      </xs:complexType>
    </xs:element>
    <xs:element name="facet" type="xs:string" />
    <xs:element name="comments">
      <xs:complexType>
        <xs:attribute name="locale" use="required"
          type="xs:string" />
      </xs:complexType>
    </xs:element>
    <xs:element name="bibliographicReference">
      <xs:complexType>
        <xs:attribute name="locale" use="required"
          type="xs:string" />
      </xs:complexType>
    </xs:element>
    <xs:element name="relatedTerms">
      <xs:complexType>
        <xs:attribute name="locale" use="required"
          type="xs:string" />
      </xs:complexType>
    </xs:element>
    <xs:element name="oldCode" type="xs:string" />
    <xs:element name="createdDate" type="xs:string" />
    <xs:element name="lastModifiedDate" type="xs:string" />
  </xs:schema>

```

UseReference.xsd

```

<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">
  <xs:element name="useReferences">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="useReference" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="useReference">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="text" />
      </xs:sequence>
    </xs:complexType>
  </xs:element>
  <xs:element name="text">
    <xs:complexType>
      <xs:simple Content>
        <xs:extension base="xs:string">
          <xs:attribute name="locale" use="required"
            type="xs:string" />
        </xs:extension>
      </xs:simple Content>
    </xs:complexType>
  </xs:element>
</xs:schema>

```

RelatedConcept.xsd

```

<?xml version="1.0" encoding="UTF-8"?>

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">
  <xs:element name="relatedConcept">
    <xs:complexType>
      <xs:sequence>
        <xs:element ref="name" />
      </xs:sequence>
      <xs:attribute name="code" use="required"
        type="xs:NCName" />
    </xs:complexType>
  </xs:element>
  <xs:element name="name">
    <xs:complexType mixed="true">
      <xs:attribute name="locale" use="required"
        type="xs:string" />
    </xs:complexType>
  </xs:element>
</xs:schema>

```

ExternalTerm.xsd


```

<?xml version="1.0" encoding="UTF-8"?>

  <xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
    elementFormDefault="qualified">
    <xs:element name="externalTerm">
      <xs:complexType>
        <xs:sequence>
          <xs:element ref="name" />
          <xs:element ref="system" />
        </xs:sequence>
        <xs:attribute name="code" use="required"
          type="xs:string" />
      </xs:complexType>
    </xs:element>
    <xs:element name="name">
      <xs:complexType mixed="true">
        <xs:attribute name="locale" use="required"
          type="xs:string" />
      </xs:complexType>
    </xs:element>
    <xs:element name="system" type="xs:string" />
  </xs:schema>

```

Notices

This information was developed for products and services offered in the United States.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM® product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing IBM Corporation North Castle Drive, MD-NC119 Armonk, NY 10504-1785 US

For license inquiries regarding double-byte character set (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

Intellectual Property Licensing Legal and Intellectual Property Law IBM Japan Ltd. 19-21, Nihonbashi-Hakozakicho, Chuo-ku Tokyo 103-8510, Japan

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM websites are provided for convenience only and do not in any manner serve as an endorsement of those websites. The materials at those websites are not part of the materials for this IBM product and use of those websites is at your own risk.

IBM may use or distribute any of the information you provide in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created

programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Director of Licensing IBM Corporation North Castle Drive, MD-NC119 Armonk, NY 10504-1785 US

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

The performance data and client examples cited are presented for illustrative purposes only. Actual performance results may vary depending on specific configurations and operating conditions.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

Statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

All IBM prices shown are IBM's suggested retail prices, are current and are subject to change without notice. Dealer prices may vary.

This information is for planning purposes only. The information herein is subject to change before the products described become available.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to actual people or business enterprises is entirely coincidental.

COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. The sample programs are provided "AS IS", without warranty of any kind. IBM shall not be liable for any damages arising out of your use of the sample programs.

Privacy Policy considerations

IBM Software products, including software as a service solutions, (“Software Offerings”) may use cookies or other technologies to collect product usage information, to help improve the end user experience, to tailor interactions with the end user or for other purposes. In many cases no personally identifiable information is collected by the Software Offerings. Some of our Software Offerings can help enable you to collect personally identifiable information. If this Software Offering uses cookies to collect personally identifiable information, specific information about this offering’s use of cookies is set forth below.

Depending upon the configurations deployed, this Software Offering may use session cookies or other similar technologies that collect each user’s name, user name, password, and/or other personally identifiable information for purposes of session management, authentication, enhanced user usability, single sign-on configuration and/or other usage tracking and/or functional purposes. These cookies or other similar technologies cannot be disabled.

If the configurations deployed for this Software Offering provide you as customer the ability to collect personally identifiable information from end users via cookies and other technologies, you should seek your own legal advice about any laws applicable to such data collection, including any requirements for notice and consent.

For more information about the use of various technologies, including cookies, for these purposes, see IBM’s Privacy Policy at <http://www.ibm.com/privacy> and IBM’s Online Privacy Statement at <http://www.ibm.com/privacy/details> the section entitled “Cookies, Web Beacons and Other Technologies” and the “IBM Software Products and Software-as-a-Service Privacy Statement” at <http://www.ibm.com/software/info/product-privacy>.

Trademarks

IBM, the IBM logo, and [ibm.com](http://www.ibm.com) are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at “ Copyright and trademark information ” at <http://www.ibm.com/legal/copytrade.shtml>.

Adobe, the Adobe logo, PostScript, and the PostScript logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States, and/or other countries.

Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Other names may be trademarks of their respective owners. Other company, product, and service names may be trademarks or service marks of others.



Printed in USA