

Billing Management on Salesforce Spring 2020 API Reference Guide

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About this Guide

Apttus provides Application Programming Interfaces (API) for you to extend the features offered by Apttus Billing Management. These extensions add more functionality to the features available through configuration on Salesforce.

The Apttus Billing Management API Reference Guide describes the APIs provided to work with payments, usage inputs, credit memos, and invoice calculations.

What's New

The following table lists changes in the documentation to support each release.

Document	Topic	Description
Spring 2020	Creating Direct Credit Memos	Modified topic. Updated the API to include isFullCredit parameter.
Winter 2019	Creating Billing Plan with Product Configuration	New Topic. New API introduced in this release.
	Applying a Late Fee	New Topic. New API introduced in this release.
	Cancelling a Late Fee	New Topic. New API introduced in this release.
	Forecasting Billing Schedules for Smart Cart	New Topic. New API introduced in this release.
Summer 2019	Creating Direct Credit Memos	New Topic. New API introduced in this release.
Spring 2019	Forecasting Billing Schedules and Billing Summaries	New Topic. New API introduced in this release.
Winter 2018	Creating Billing Plans	New Topic. New API introduced in this release.
Summer 2018	Forecasting Billing Schedules	New Topic. New API introduced in this release.
	Creating Credit and Rebill	New Topic. New API introduced in this release.

Overview

- · API Supported Packages
 - The package names and version numbers required for the APIs to work seamlessly.
- API Standards and Development Platforms
 - Apttus APIs are based on Salesforce APIs and use the same standards and platforms.
- Field Types
 - Apttus APIs use a subset of the supported data and field types on Salesforce.

API Supported Packages

The following packages and dependent packages are required for Billing Management APIs:

Product	Package Version
	(Name Number)
Apttus Billing Management	6.1.129 6.129
Apttus Base Library	1.0.23 1.23
Apttus Quote/Proposal-Configuration Integration	11.2.03102 11.312
Apttus Configuration & Pricing	12.0.1712 12.1712
Apttus CPQ API	1.0.0080 10.80
Apttus Quote/Proposal-Asset Integration	6.5.0014 6.14
Apttus Proposal Management	9.2.0205 9.205
Apttus Contract Management	10.2.0491 10.491
Apttus Contract-Configuration Integration	11.2.0122 11.122
Apttus Quote/Proposal-Contract Integration	7.0.0031 7.31

API Standards and Development Platforms

Apttus APIs are based on Salesforce APIs and use the same standards and platforms.

Standards

Name	Reference
Simple Object Access Protocol (SOAP) 1.1	http://www.w3.org/TR/2000/NOTE- SOAP-20000508
Web Service Description Language (WSDL) 1.1	http://www.w3.org/TR/2001/NOTE-wsdl-20010315
WS-I Basic Profile 1.1	http://www.ws-i.org/Profiles/ BasicProfile-1.1-2004-08-24.html

Development Platforms

Apttus SOAP API works with standard SOAP development environments. For a list of compatible development platforms, see Salesforce Developer Force API details.

Field Types

Apttus APIs use a subset of the supported data and field types on Salesforce.

The following table lists the field types that Apttus supports. For a comprehensive list of all field types supported by Salesforce, see Salesforce Data Types.

Туре	Description
Boolean	The Boolean field has a true(or 1) or false(or 0) value.
Data object	The Data Object field is an ID type and is represented by CPQ.nnDO in this document.
Date	The Date field contains date values only and do not contain relevant time values. Time in a date field is always set to midnight in the UTC time zone. If you want a timestamp you must use a dateTime field.

Туре	Description
Decimal	The Decimal field provides an exact numeric value and you can arbitrarily size the precision and scale of the value.
ID	The ID field is an alphanumeric field that acts as the primary key for a specific record associated with an object. The ID value includes a three-character code that identifies which object the record is associated with. The ID for a specific record does not change. For some objects, this field may also be a reference type value, which contains the ID value for a related record. They are identified by field names ending in 'Id', such as priceListId. The ID field acts like foreign keys and their values can be changed using an update() call.
Integer	The Integer field contains whole numbers only. There are no digits after the decimal.
List	The List field includes a fixed set of values from which you must select a single value. Picklists are available as drop-down lists. If a picklist is unrestricted, the API does not limit entries to only currently active values.
String	The String field contains text and may have different length restrictions based on the data you store in the specific field. For instance, City may be limited to 50 characters, while AddressLine1 is limited to 255 characters.

Billing APIs

Apttus Billing Management APIs are categorized into:

Internal APIs

· Billing Services

External APIs

- REST Services
- WSDL Services

Billing Services

Apttus Billing APIs are based on Salesforce APIs and use the same standards and platforms.

You can invoke Apttus Billing APIs from the following command:

Apttus_Billing.BillingService.<Name of the Function> where the name of the function is API Name and it parameters.

Here is a list of APIs along with their parameters:

- · Creating Credit Memo Documents
- · Creating Invoice Documents
- · Creating Invoices
- · Creating Invoices for Orders
- · Previewing Pending Usage Inputs
- Processing Pending Usage Inputs
- · Processing Rated Usage Inputs
- Updating Tax Calculations And Breakups on Credit Memos
- Updating Tax Calculations and Breakups on Invoice
- Forecasting Billing Schedules
- · Creating Credit and Rebill
- · Creating Billing Plans
- Forecasting Billing Schedules and Billing Summaries
- Creating Direct Credit Memos
- · Creating Billing Plan with Product Configuration
- Forecasting Billing Schedules for Smart Cart
- Applying a Late Fee

· Cancelling a Late Fee

Creating Credit Memo Documents

createCreditMemoDocuments API is used to generate credit memo documents.

createCreditMemoDocuments(List<Id>> creditMemoIds, String creditMemoTemplateName)

It generates credit memo documents for the given list of credit memo IDs.

You can generate credit memo documents in the following formats:

- PDF
- · DOCX
- · DOC
- · RTF

It accepts a list of Credit Memo IDs and a valid credit memo template name as input. If you do not specify a valid template name or pass **null** as a value, Billing Management system uses the default template provided at the Account or the Account Location.

If you call this API from a batch or a scheduled job, it can process only one CreditMemo ID. Otherwise, if you call this API from a non-batch or a non-scheduled job, it can process up to 10 CreditMemos.

Request			
Field	Туре	Required?	Description
creditMemolds	List <ld></ld>	Yes	IDs of credit memo
creditMemoTemplateNa me	String	No	Name of the credit memo template

Code Sample

```
Account testAccount = new Account(Name = 'Test Account');
insert testAccount;
CreditMemo_c testCreditMemo = new CreditMemo_c(BillToAccountId_c = testAccount.Id,
    CreditAmount_c = 40.0,
    Status_c = CreditMemo.STATUS_DRAFT);
insert testCreditMemo;
Apttus_APTS_Template_c cmTemplate = new Apttus_APTS_Template_c(Name = 'Default',
    Apttus_IsActive_c = true,
    Apttus_Type_c = 'Credit Memo');
insert cmTemplate;

List<Id> cmIdList = new List<Id> {testCreditMemo.Id};
    //create Credit Memo Documents
Apttus_Billing.BillingService.createCreditMemoDocuments(cmIdList, cmTemplate.Name);
```

Creating Invoice Documents

createInvoiceDocuments API creates invoice documents for a given list of Invoice. It accepts a list of invoice IDs as input and produces invoice documents for each corresponding invoice ID. It also accepts Invoice Template Name as a parameter if you want to create Invoice Documents using a specific template.

You can generate invoice documents in the following formats:

- PDF
- · DOCX
- · DOC
- · RTF

The document is generated in the format set at the **Billing Preference** in *Invoice Output Format* field.

If you call this API from a batch or a scheduled job, it can process only one Invoice ID. Otherwise, if you call this API from a non-batch or a non-scheduled job, it can process up to 10 Invoices.

There are two ways of creating Invoice Documents:

- · Using the default invoice template
- · Using a specific invoice template

createInvoiceDocuments(invoiceIDs)

This API uses the defualt Invoice Template specified on the Account or Account Location.

Request			
Field	Type	Required?	Description
invoicelds	List <ld></ld>	Yes	List of Invoice Ids

Code Sample

```
List<ID> invoiceIDs = new List<ID>();
//invoiceIDs.add('a4t1I000000H5hM');
Apttus_BillingService.createInvoiceDocuments(invoiceIDs);
```

createInvoiceDocuments(invoiceIDs, invoiceTemplateName)

This API is used to create invoice documents using a specific invoice template.

If you do not specify a valid template name or pass null as a value, Billing Management System uses the default template specified on the Account or Account Location.

Request			
Field	Туре	Required?	Description
invoicelds	List <id></id>	Yes	List of Invoice Ids
invoiceTemplateName	String	Yes	Invoice Template Name

Code Sample

```
List<ID> invoiceIDs = new List<ID>();
//invoiceIDs.add('a4t1I000000H5hM');
//String invoiceTemplateName = 'myTestTemplate';
Apttus_Billing.BillingService.createInvoiceDocuments(invoiceIDs,
invoiceTemplateName);
```

Creating Invoices

createInvoices API is used to create Invoices automatically. It accepts a list of Account IDs and creates Invoices for each AccountID.

createInvoices(billToAccountIDs, invoiceDate, targetDateTime)

This API is used to create invoices for given Account IDs. It accepts a Set of Account IDs, invoiceDate, and targetDateTime as input parameters. It creates invoices for all orders with billing schedules having status as pending billing and end date less than targetDateTime. All the new invoices are created with Invoice Date as the value mentioned in invoiceDate.

Request			
Field	Туре	Required?	Description
billToAccountIds	Set <ld></ld>	Yes	Set of bill to Account IDs
targetDateTime	Datetime	Yes	Process through Date
invoiceDate	Date	Yes	Invoice Creation Date

Code Sample

```
Set<ID> billToAccountIDs = new Set<ID>();
Date invoiceDate = Date.newInstance(2017, 1, 1);
Date myDate = Date.newInstance(2017, 1, 1);
Time myTime = Time.newInstance(3, 3, 3, 0);
DateTime targetDateTime = DateTime.newInstance(myDate, myTime);
Apttus_Billing.BillingService.createInvoices(billToAccountIDs, invoiceDate, targetDateTime);
```

createInvoices(billToAccountIDs, options)

This API is used to create invoices for given Account IDs. It accepts a set of Account IDs and a class containing invoice creation options. the class contains options that influence the creation of an Invoice such as Invoice Date, Invoice Through Date and Auto Approve.

Request	

Field	Туре	Required?	Description
billToAccountIds	Set <id></id>	Yes	Set of bill to Account IDs
options	Apttus_Billing.InvoiceCreati onOptions	Yes	Class holding the Invoice Creation Options

${\tt DataObject-Billing.InvoiceCreationOptions}$

Field	Туре	Description
abort	Boolean	If the process is aborted.
autoApprove	Boolean	Mandatory Constructor. IfautoApprovefor Invoice is set to true.
autoApproveAmount	Decimal	Mandatory Constructor. The amount provided for auto approval.
autoApproveCreditMemo	Boolean	Mandatory Constructor. If the autoApproveCreditMemo is set to true

Tial d	T	Description
Field	Type	Description
autoApproveOperator	String	Mandatory Constructor. The selected autoApproveOperator such as Greate than, Less than etc.
		than, less than etc.
invoiceDate	Date	Mandatory Constructor. The Invoice Date.
invoiceDateType	String	The Invoice Date Type such as month or year.
invoiceRun Apttus_BillingInvoiceRunc		The Invoice Run Object API Name.
invoiceRunResult	Apttus_BillingInvoiceRunResultc	The Invoice Run Result Object API Name.
numberAccountsProcessed	Integer	The number of accounts processed as part of the Invoice Runs.
numberCreditMemos Genenerated	Integer	The number of Credit Memos generated.
numberInvoicesGenenerated	Integer	The number of Invoices generated.
numberOfAccountsThat GeneratedCreditMemos	Integer	Number of accounts for which Credit Memos are generated.
numberOfAccountsThat GeneratedInvoices	Integer	Number of accounts for which Invoices are generated.
number Of Auto Approved Invo ices	Integer	Number of Invoices that are auto-approved.
numberOfCreditMemos AutoApproved	Integer	Number of Credit Memos that are auto-approved.

${\tt DataObject-Billing.InvoiceCreationOptions}$

Field	Type	Description
numberOfSuppressedInvoice s	Integer	Number of Invoices that are suppressed.
processThruDate	Date	Mandatory Constructor. The Process through date for invoice
splitInvoicesByOrder	Boolean	Mandatory Constructor. If Split Invoices By Order is set to true.
suppressInvoicesAmount	Decimal	Mandatory Constructor. The amount till which you want to suppress invoices.
suppressInvoicesOperator	String	Mandatory ConstructorThe selected Suppress Invoices operator such as Greater than, Less than etc.
taxCallbackStatus	String	The status of Tax Callback.
edtiMemoCreationOption String		The credit memo creation option. For information on credit memo creation options, refer to Generating Credit Memos from Invoice Run.
autoSendEmailforInvoice	Boolean	Set it to true to auto-send an email once the invoice is generated.
autoSendEmailforCreditMe mo	Boolean	Set it to true to auto-send an email once the credit memo is generated
InvoiceOverrideTemplate	String	Name of the invoice template to override the default invoice template
CreditMemoOverrideTempla String		Name of the credit memo template name to override the default credit memo template



Only the following values are currently supported for createInvoice API:

· autoSendEmailforInvoice: false

· autoSendEmailforCreditMemo: false

· InvoiceOverrideTemplate: NULL

· CreditMemoOverrideTemplate: NULL

Code Sample

```
Set<ID> billToAccountIDs = new Set<ID>();
Date invoiceDate = Date.newInstance(2017, 1, 1);
Date processThruDate = Date.newInstance(2017, 1, 1);
Boolean autoApprove = true;
Boolean splitInvoicesByOrder = true;
String autoApproveOperator = 'Greater than';
Decimal autoApproveAmount = 5.00 ;
String suppressInvoicesOperator = 'Less than';
Decimal suppressInvoicesAmount = 2.00;
Boolean autoApproveCreditMemo = true;
Apttus_Billing.InvoiceCreationOptions options = new
Apttus_Billing.InvoiceCreationOptions(
invoiceDate,
processThruDate,
autoApprove,
splitInvoicesByOrder,
autoApproveOperator,
autoApproveAmount,
suppressInvoicesOperator,
suppressInvoicesAmount,
autoApproveCreditMemo);
Apttus_Billing.BillingService.createInvoices(billToAccountIDs, options);
```

Code Sample

Use this code sample to provide credit memo creation options while generating invoices through the createln voices API.

```
Set<ID> billToAccountIDs = new Set<ID>();
Date invoiceDate = Date.newInstance(2018,1,1);
Date processThruDate = Date.newInstance(2018,9,9);
Boolean autoApprove = true;
Boolean splitInvoicesByOrder = false;
String autoApproveOperator = 'Greater than';
Decimal autoApproveAmount = 20.00 ;
String suppressInvoicesOperator = 'Less than';
Decimal suppressInvoicesAmount = 2.00;
Boolean autoApproveCreditMemo = true;
String credtiMemoCreationOption = 'Single Credit Memo for all Negative Schedules per
Invoice';
Boolean autoSendEmailForInvoice = false;
Boolean autoSendEmailForCreditMemo = false;
String InvoiceOverrideTemplate = NULL;
String CreditMemoOverrideTemplate = NULL;
billToAccountIDs.add('0017F00000tPMvL');
InvoiceCreationOptions
options = new InvoiceCreationOptions( invoiceDate,
processThruDate,
autoApprove,
splitInvoicesByOrder,
autoApproveOperator,
autoApproveAmount,
suppressInvoicesOperator,
suppressInvoicesAmount,
autoApproveCreditMemo,
credtiMemoCreationOption,
autoSendEmailForInvoice,
autoSendEmailForCreditMemo,
InvoiceOverrideTemplate,
CreditMemoOverrideTemplate);
BillingService.createInvoices(billToAccountIDs,options);
```

Creating Invoices for Orders

createInvoicesforOrder API is used to create invoices for given orders. It accepts a List of order IDs as input and produces invoices for each order ID.

createInvoicesForOrder(orderId, targetDateTime, invoiceDate)

This API is used to create invoices for given order ID. It accepts the order ID, targetDateTime and invoiceDate as input parameters. It creates invoices for the billing schedules that have status as pending billing and end date less than targetDateTime. All the new invoices are created with Invoice Date as the value mentioned in invoiceDate.

Request					
Field	Туре	9	Required?	Description	
orderld	ID		Yes	Order Id	
targetDateTime	Datetime		Yes	Invoice Process	Through Date
invoiceDate	Date		Yes	Invoice Creation	on Date
Response					
Field	Туре			Description	
Apttus_Config2Invoice_c List of Invoice		List of Invoice	e objects	Invoices created f	or each order ID

Code Sample

```
ID orderID = new ID();
Date invoiceDate = Date.newInstance(2017, 1, 1);
Date myDate = Date.newInstance(2017, 1, 1);
Time myTime = Time.newInstance(3, 3, 3, 0);
DateTime targetDateTime= DateTime.newInstance(myDate, myTime);
List <Invoice_c> invoices =
Apttus_Billing.BillingService.createInvoicesForOrder(orderID, targetDateTime, invoiceDate);
```

createInvoicesForOrder(orderID, options)

This API is used to create invoices for the given order ID. It accepts the order IDs and a class containing invoice creation options. the class contains options that influence the creation of an Invoice such as Invoice Date, Invoice Through Date and Auto Approve. It returns a list of invoices.

Request					
Field	Туре	Required?	Description		
orderld	ID	Yes	Order Id		
options	Apttus_Billing.InvoiceCreatio	Yes	Class holding the Invoice Creation Options		

Response		
Field	Туре	Description
Apttus_Config2Invoice_c	List of Invoice objects	Invoices created for each order ID

DataObject - Billing.InvoiceCreationOptions				
Field	Type	Optio n Type	Description	
abort	Boolean	Outp ut	If the process is aborted.	

DataObject - Billing.InvoiceCreationOptions				
Field	Туре	Optio n Type	Description	
autoApprove	Boolean	Input	Mandatory Constructor. If autoApprove for Invoice is set to true.	
autoApproveAmou nt	Decimal	Input	Mandatory Constructor. The amount provided for auto approval.	
autoApproveCredit Memo	Boolean	Input	Mandatory Constructor. If autoApproveCreditMemo is set to true	
autoApproveOper ator	String	Input	Mandatory Constructor. The selected autoApproveOperator such as Greater than, Less than etc.	
invoiceDate	Date	Input	Mandatory Constructor. The Invoice Date.	
invoiceDateType	String	Input	The Invoice Date Type such as month or year.	
invoiceRun	Apttus_Billing_ - InvoiceRunc	Input	The Invoice Run Object API Name.	
invoiceRunResult	Apttus_Billing InvoiceRun Resultc	Input/ Outp ut	The Invoice Run Result Object API Name.	
numberAccountsPr ocessed	Integer	Outp ut	The number of accounts processed as part of the Invoice Runs.	
numberCreditMem os Genenerated	Integer	Outp ut	The number of Credit Memos generated.	
numberInvoicesGen enerated	Integer	Outp ut	The number of Invoices generated.	

DataObject - Billing.InvoiceCreationOptions					
Field	Туре	Optio n Type	Description		
numberOfAccounts That GeneratedCreditM emos	Integer	Outp ut	Number of accounts for which Credit Memos are generated.		
numberOfAccounts That GeneratedInvoices	Integer	Outp	Number of accounts for which Invoices are generated.		
numberOfAutoApp rovedInvoices	Integer	Outp	Number of Invoices that are auto-approved.		
numberOfCreditMe mos AutoApproved	Integer	Outp ut	Number of Credit Memos that are auto-approved.		
numberOfSuppress edInvoices	Integer	Outp	Number of Invoices that are suppressed.		
processThruDate	Date	Input	Mandatory Constructor. The Process through date for invoice		
splitInvoicesByOrd er	Boolean	Input	Mandatory Constructor. If Split Invoices By Order is set to true.		
suppressInvoicesA mount	Decimal	Input	Mandatory Constructor. The amount till which you want to suppress invoices.		
suppressInvoicesO perator	String	Input	Mandatory Constructor.The selected Suppress Invoices operator such as Greater than, Less than etc.		
taxCallbackStatu s	String	Outp	The status of Tax Callback.		

```
ID orderID = new ID();
Date invoiceDate = Date.newInstance(2017, 1, 1);
Date processThruDate = Date.newInstance(2017, 1, 1);
Boolean autoApprove = true;
Boolean splitInvoicesByOrder = true;
String autoApproveOperator = 'Greater than';
Decimal autoApproveAmount = 5.00 ;
String suppressInvoicesOperator = 'Less than';
Decimal suppressInvoicesAmount = 2.00;
Boolean autoApproveCreditMemo = true;
Apttus_Billing.InvoiceCreationOptions options = new
Apttus_Billing.InvoiceCreationOptions(
invoiceDate,
processThruDate,
autoApprove,
splitInvoicesByOrder,
autoApproveOperator,
autoApproveAmount,
suppressInvoicesOperator,
suppressInvoicesAmount,
autoApproveCreditMemo);
Apttus_Billing.BillingService.createInvoicesForOrder(orderID, options);
```

Previewing Pending Usage Inputs

previewPendingUsageInputs API is used to preview the rating amount of usage inputs without altering the Billing Schedules, Usage Schedules, and Usage Inputs. You can rate a maximum of 2000 Usage Inputs at a time.

previewPendingUsageInputs(Set<ID> usageInputIds)

The API accepts a set of Usage Input IDs as input. It validates the number of Usage Inputs to process. If the number of Usage Input Ids entered is less than 2000, it returns a map containing the rating amount for each Usage Input ID. If the number of Usage Input IDs given is more than 2000, Billing Management system throws an error.

Request					
Field	Type		Requ	uired?	Description
usageInputIds	Set <ld></ld>		Yes		Set of Usage Input IDs
Response					
Field Type				Description	
mapRatedUsagInputIds		Мар		Map containing UsageInputId	Usage Inputs for each

Processing Pending Usage Inputs

processPendingUsageInput API is used to process Usage Inputs. On completion of the batch job, the user receives a batch job status email.

You can process the usage inputs in two ways:

- · Process all the loaded usage inputs
- Process an explicit set of usage inputs

processPendingUsageInput()

This API processes all the usage inputs with status as 'Loaded'.

Apttus_Billing.BillingService.processPendingUsageInput();

processPendingUsageInput(Set<ID> usageInputIDs)

This API processes usage inputs for all the usage inputs IDs with status as 'Loaded'. It accepts a Set of Usage Input IDs as input and checks the Usage Input Status for each Usage Input ID. It processes all the usage inputs with staus as 'Loaded'.

Request						
Field	Type	Required?	Description			
usageInpu tIDs	Set <ld></ld>	No	Set of usage input IDs			

Code Sample

```
Set<Id> usageInputIds = new Set<ID>{usageInput1.Id, usageInput2.Id};
Apttus_BillingService.processPendingUsageInput(usageInputIds);
```

processPendingUsageInput(Set<ID> usageInputIDs, Boolean processSynchronously)

This API processes usage inputs for all the usage inputs IDs with status as 'Loaded'. It accepts a Set of Usage Input IDs as input and checks the Usage Input Status for each Usage Input ID. It processes all the usage inputs with staus as 'Loaded'. If processSynchronously is set to true, the usage inputs are processed synchronously without any batch job. You can process only a maximum of 1000 usage inputs. If processSynchronously is set to false, the API will schedule a batch job to process all the given usage inputs.

Request					
Field	Type	Required?	Description		
usageInpu tIDs	Set <id></id>	No	Set of usage input IDs		
processSy nchronousl y	Boole an	No	Indicates whether to process the Usage Inputs synchronously or asynchronously. The default value is false.		

```
// To process Usage Inputs Synchronously
Set<ID> usageInputIDs = new Set<ID>(); //Max it can be 1000 IDs
Apttus_Billing.BillingService. processPendingUsageInput(usageInputIDs, true);
// To process Usage Inputs Asynchronously
Set<ID> usageInputIDs = new Set<ID>(); //Max it can be any number of IDs
Apttus_Billing.BillingService. processPendingUsageInput(usageInputIDs, false);
```

Processing Rated Usage Inputs

This API is used to unrate the processed usage input. It also reverts the Amount and Quantity from Billing Schedules, Usage Schedules, and Revenue Fee Schedules.

processRatedUsageInput(Set<ID> usageInputIDs)

It accepts a Set of Usage Input IDs as input. For all entered Usage Input IDs, it unrates all the usage Inputs and reverts the amount and quantity from the related billing schedules, usage scheules, and revenue fee schedules. On completion of the batch job, the user receives a batch job status email.

Request					
Field	Type	Required?	Description		
usageInputIDs	Set <ld></ld>	Yes	Set of usage input IDs		

```
Set<Id> usageInputIds = new Set<ID>{usageInput1.Id, usageInput2.Id};
Apttus_Billing.BillingService.processRatedUsageInput(usageInputIds);
```

Updating Tax Calculations And Breakups on **Credit Memos**

updateCreditMemoTaxCalculationsAndBreakups API calculates Tax Amount and populates it on the Credit Memo.

updateCreditMemoTaxCalculationsAndBreakups(Set<I D> CreditMemolDs, Boolean autoTransitionFromPendingApprovedToApproved)

This API calculates Tax Amount and Tax Breakups for credit memos with status as 'Draft' or 'Pending Approved'. After tax computation, it updates the Tax Amount on each credit memo line item and creates or updates Credit Memo Line Item Tax Breakups. It then calculates the Total Tax Amount for the credit memo and creates or updates the Credit Memo Tax Breakups.

If autoTransitionFromPendingApprovedToApproved is set to true, it updates the status of Credit Memo from Pending Approved to Approved.



The billing administrator must register a Tax Callback class for updateCreditMemoTaxCalculationsAndBreakups API to work. For details on how to register a Tax Callback class, refer to Custom Settings for Tax.

Request				
Field	Туре	Required?	Description	
creditMemolDs	Set <id></id>	Yes	Set of Credit Memo Ids	
autoTransitionFromPending ApprovedToApproved	Boolean	Yes	If set to true, the API updates the status of Credit Memo from Pending Approved to Approved. If set to false, the credit memo status is not updated.	

The code sample below helps you calculate and fetch Tax Amount for credit memos.

```
Set<ID> creditMemoIDs = new Set<ID>();
//[{creditMemos[0].Id, creditMemos[1].Id};]
Apttus_Billing.BillingService.updateCreditMemoTaxCalculationsAndBreakups(creditMemoIDs, true);
```

Updating Tax Calculations and Breakups on Invoice

updateInvoiceMemoTaxCalculationsAndBreakups API calculates Tax Amount and populates it on the Invoice.

updateInvoiceTaxCalculationsAndBreakups(Set<ID>InvoiceIds, Boolean autoTransitionFromPendingApprovedToApproved)

This API calculates Tax Amount and Tax Breakups for invoices with status as 'Draft' or 'Pending Approved'. After tax computation, it updates the Tax Amount on each invoice line

item and creates or updates Invoice Line Item Tax Breakups. It then calculates the Total Tax Amount for the invoice and creates or updates the Invoice Tax Breakups.

If autoTransitionFromPendingApprovedToApproved is set to true, it updates the status of the invoice from Pending Approved to Approved.



The billing administrator must register a Tax Callback class for updateInvoiceTaxCalculationsAndBreakups API to work. For details on how to register a Tax Callback class, refer to Custom Settings for Tax.

Request

Field	Туре	Required?	Description
invoicelDs	List <ld></ld>	Yes	List of Invoice Ids
autoTransitionFromPending ApprovedToApproved	Boolean	Yes	If set to true, the API updates the status of the Invoice from Pending Approved to Approved. If set to false, the invoice status is not updated.

Code Sample

The code sample below helps you calculate and fetch Tax Amount for invoices.

```
Set<ID> invoiceIDs = new Set<ID>();
invoiceIDs.add('invoiceID')
Apttus_Billing.BillingService.updateInvoiceTaxCalculationsAndBreakups(invoiceIDs,true);
```

Forecasting Billing Schedules

Forecast Billing Schedules API is used to generate and display forecast billing schedules for a Quote/Proposal. This API accepts the proposal ID as input parameter and returns the list of forecast billing schedules.

ForecastBillingSchedules retriveForecastedBillingSchedules(ProposalID)

Forecast Billing Schedules API is used to generate and display forecast billing schedules for a Quote/Proposal. This API can be invoked by the implementation team on acceptance of the quote/proposal.

If the forecast billing schedules are already generated for the given proposal and no changes are made to the product configurations, the API displays the existing forecast billing schedules. If you perform any asset-based operations or change the product configuration, the generated forecast billing schedules are deleted and new forecast billing schedules are generated to reflect the changes made to the product or the asset.



Forecast billing schedule functionality is not supported for:

- Evergreen products
- · Quote/Proposal associated with a billing plan
- Informational line items of bundle and option products

Request					
Field	Туре		Required?		Description
ProposalID	ID		Yes		The proposal ID
Response	Response				
Field Tu		Type		Description	
forecastedbillingschedules		List		List of forecast for the given pro	billing schedules generated oposal ID.

```
If the Forecasted Billing Schedules have already been created and are "current" then
return the existing
* Forecasted Billing Schedules, otherwise delete the existing "out of sync"
Forecasted Billing Schedules and to
* the following.
* For each Line Item in the "active" Product Configuration create an in-memory
Order Line Item (and other
* relevant in-memory objects) and call the BSM (Billing Schedule Manager) to
generate the resultant set of
\star _forecasted_ Billing Schedules. When finished persist the aggregate list of
Forecasted Billing Schedules and
* and return them
* @param ProposalId The Id of the Proposal (Quote) to persist and retrieve
Forecasted Billing Schedules for.
* @return The list of persisted Forecasted Billing Schedules, which will be sorted
by "Ready for Invoice Date".
*/
global static List<ForecastedBillingSchedule__c>
retrieveForecastedBillingSchedules(ID ProposalId );
```

Creating Credit and Rebill

Credit and Rebill functionality allow you to credit an entire invoice and rebill it.

createCreditRebill(invoiceId, autoApproveCreditMemo)

This API accepts the invoice ID and the option to Auto Approve the credit memo as input parameters.

Request					
Field	Туре	Required?	Description		
invoiceld	ID	Yes	ID of the invoice		

Request					
Field	Туре	Required?	Description		
autoApproveCreditMemo	Boolean	Yes	If set to true, credit memos are auto-approved		

The API returns a Map<String, Value> as a response parameter.

Response					
Field	Type	Description			
Result	Мар	The result map contains the success string and a value			

If the API executes successfully, the value contains the following keys:

- · success set to true
- · creditMemold the ID of the created credit memo

If the API is not executed successfully, the value contains the following keys:

- success set to false
- · errorMessage contains the error message
- stackTrace contains the stackTrack of the API call

Code Sample

```
/**createCreditRebill This method creates a Credit Memo
@param invoiceId
The id of the invoice which has to be credited and rebilled.
@param autoApproveCreditMemo
Tells whether the credit memo should to be approved during creation
*
@return
Returns a map. If creation succeeds, returns success=true and creditMemoId
*
In case of error, success=false, errormessage and stackTrace
*/
global static Map<String, Object> Apttus_Billing.BillingService.createCreditRebill(Id invoiceId,Boolean autoApproveCreditMemo);
```

Creating Billing Plans

createBillingPlan API is used to create a billing plan. It creates a billing plan and billing plan line items for the given proposal ID.

createBillingPlan(proposalId,billingPlanTemplateId,proposalLineItemIds)

This API accepts Proposal ID, Billing Plan Template ID, and Proposal Line Item IDs as input parameters. It creates a billing plan and billing plan line items for the given proposal ID. Created billing plan is applied to the list of provided proposal IDs. If you do not provide any proposal line item IDs as input parameters, the created billing plan is applied to all the proposal line items. This API skips the proposal line items that are already linked to a billing plan.

For a billing plan template with plan type as Milestones, createBillingPlan API also creates milestones.

Request				
Field	Туре		uired?	Description
proposalID	ID	Yes		ID of the proposal
billingPlanTemplateId	ID			IDof the Billing Plan Template
proposalLineItemIds	Set <id></id>			Set of proposal Ids
Response				
Field	Туре		Description	
isSuccess	Boolean		Returns true if the API is executed correctly	
errorMessage	String		Error Message if the API is not executed successfully.	

Response		
Field	Туре	Description
billingPlanId	ID	Id of the created Billing Plan

```
Id proposalId = 'a2G1N0000002RpRZUA0';
Id billingPlanTemplateId = 'a3D1N0000000blZc';
Set<Id> proposalLineItemIds = new Set<Id>('a2E1N000001dHox', 'a2E1N000001eHox');
Apttus_Billing.BillingService.BillingPlanAPIResponse response;
// Call API without proposal line item ids parameter
response = Apttus_Billing.BillingService.createBillingPlan(proposalId,
billingPlanTemplateId);

// Call API with proposal line item ids parameter
response = Apttus_Billing.BillingService.createBillingPlan(proposalId,
billingPlanTemplateId, proposalLineItemIds);
```

Δ

createBillingPlan API is not supported for Evergreen Billing and Usage-based products.

Forecasting Billing Schedules and Billing Summaries

Forecast Billing Schedules and Summaries API is used to generate and display forecast billing schedules and forecast billing summaries for a Quote/Proposal. This API accepts the proposal ID and the option to extend the end date with renewal term as input parameters and returns the list of forecast billing schedules and forecast billing summaries.

ForecastResults

retriveForecastedBillingSchedulesAndSummaries(ProposalID, extendEndDateWithRenewalTerm)

Forecast Billing Schedules API is used to generate and display forecast billing schedules and forecast billing summaries for a Quote/Proposal. This API can be invoked by the implementation team on acceptance of the quote/proposal.

If the forecast billing schedules or forecast billing summaries are already generated for the given proposal and no changes are made to the product configurations, the API displays the existing forecast billing schedules. If you perform any asset-based operations or change the product configuration, the generated forecast billing schedules and billing summaries are deleted and new forecast billing schedules and billing summaries are generated to reflect the changes made to the product or the asset.



Forecast billing schedule functionality is not supported for:

- Evergreen products
- · Quote/Proposal associated with a billing plan
- Informational line items of bundle and option products

Request

Field	Туре	Required?	Description
proposalID	ID	Yes	The proposal ID
extendEndDateWithRene wal	Boolean	Yes	If extendEndDateWithRenewal is set to true, then for each proposal line item with Auto-Renew set to True and the Auto Renewal Type set to Fixed. the end date is extended based on the renewal term.

Response			
Field	Type	Description	
forecastedSchedules	List	List of forecast billing schedules generated for the given proposal ID.	
forecastedSummaries	List	List of forecast billing summaries generated for the given proposal ID.	

```
/**
* Class used to support forecasting of Billing Schedules and Invoices.
global with sharing class ForecastedResults {
    global List<ForecastedBillingSchedule__c> forecastedSchedules { get; private
set; }
    public List<ForecastedBillingSummary__c> forecastedSummaries { get; private
set; }
    public ForecastedResults() {
        this.forecastedSchedules = new List<ForecastedBillingSchedule__c>();
        this.forecastedSummaries = new List<ForecastedBillingSummary__c>();
   }
}
/**
* Create the list of Forecasted Billing Schedules by leveraging the BSM to
"forecast" each of
* the Proposal Line Items belonging to the "active" Product Configuration of the
specified Proposal.
* From the Forecasted Billing Schedules generate the list of Forecasted Billing
Summaries.
\star If the Forecasted Billing Schedules/Summaries have already been created and are
"current",
* return the existing forecasted Schedules and Summaries. Otherwise delete the
* "out of sync" forecasted Schedules and Summaries and use the Product Configuration
* specified Proposal to re-generate (and persist) them.
* @param ProposalId The Id of the Proposal (Quote) to use when retrieving (and
possibly
* generating) the lists of forecasted Billing Schedules and Summaries.
* @param extendEndDateWithRenewalTerm If the flag is true, then extend the End Date
    (based on the Renewal Term) for all Line Items that have Auto Renew set to True
and
   the Auto Renewal Type set to "Fixed".
 * @return The list of persisted forecasted Billing Schedules and Billing Summaries.
The forecasted
```

```
* Billing Schedules will be sorted by "Ready for Invoice Date" and the forecasted
Billing Summaries

* will be sorted by Invoice Date and Summary Number.

*/
global static ForecastedResults retrieveForecastedBillingSchedulesAndSummaries(
    ID proposalId, Boolean extendEndDateWithRenewalTerm) {
    return new ForecastedResults();
}
```

Creating Direct Credit Memos

createDirectCreditMemos API is used to create credit memos for a list of invoices.

directCreditMemoResult createDirectCreditMemos(directCreditMemoInputs)

This API is used to create credit memos for an invoice. It accepts a Set of Account IDs, invoiceDate, and targetDateTime as input parameters. For each DirectCreditMemoInput, a credit memo is created in the Draft Status. You can auto-approve a credit memo line item and auto-apply it to an invoice. If you have a Tax Callback registered, this API also calculates Tax and creates Tax breakups for a credit memo line item.

Request - DirectCreditMemoInput				
Field	Туре	Requir ed?	Description	
invoiceld	ID	Yes	The Id of the approved Invoice the credit will be drawn from.	
reasonCode	String	Yes	The reason for creating the Credit Memo. Must be null or a valid pick-list value for the Reason Code field declared of the Credit Memo object.	

Request - DirectCreditMemoInput

Field	Туре	Requir ed?	Description
isFullCredit	Boolean	No	If you set isFullCredit as true, the entire available credit amount of all the invoice line items is set as the credit amount. If you set the value as false, credit memo amount is calculated based on the values you provide in creditMemoLineItemInputs field. By default, it is set as false.
creditMemoLin eltemInputs	List <directcreditme moLineItemInput></directcreditme 	No	The list of inputs for each Credit Memo Line Item to create. This parameter is ignored if you set isFullCredit as <i>True</i> .
autoApprove	Boolean	No	If true the Credit Memo will be transitioned to Approved otherwise the Credit Memo will be created with a status of Draft. A value of null will be considered as false.
autoApplyCred itMemo	Boolean	No	This flag is only relevant when the Auto Approve option is true. If both options are true the newly created direct Credit Memo will be applied to the Invoice, the credit was drawn from. A value of null will be considered as false.
Templateld	ID	No	The Id of the Credit Memo template to use when creating the Credit Memo attachment. This parameter is optional and can be null.
calculateTax	Boolean	Yes	If this flag is true Tax will be calculated for a non tax-exempt Asset. If false, no tax will be calculated.

A

Ensure that you provide value for either isFullCredit or creditMemoLineItemInputs parameters. If you leave both the fields as null, the API returns an error.

Request - CreditMemoLineItemInput

Field Ty Requi pe red? Description invoiceLin eltemId ID Yes The Id of the affiliate Invoice Line Item. It must be a child of the specified Invoice.

creditAmo Unt Ci The amount of credit to draw from the corresponding Invoice Line Item. The amount must be a positive number and cannot exceed the available credit of the corresponding Invoice Line Item.

Response

Field	Туре	Description
DirectCreditMemoResult	List	A result parameter is returned for each request parameter.

Create Direct Credit Memo API returns an error if:

- · The specified invoice does not exist.
- The status of your specified invoice is not Approved.
- Your specified reason code is invalid. Reason code can be null or one of the picklist values declared in the Reason Code field of Credit Memo object.
 - ① Create Direct Credit Memo API does not support the following reason codes:
 - · Wallet Application
 - · Credit & Rebill
- · Credit Amount is negative or 0.
- · Template ID does not exist.
- Template Type is other than Credit Memo.
- · Specified Invoice Line Item does not exist.
- · Specified Invoice Line Item does not belong to the specified invoice.
- Invoice Line Item is already referenced in more than one Credit Memo Line Item.
- · Credit Amount is greater than the Available Credit.

```
// Set Credit Memo input parameters
List<DirectCreditMemoInput> creditMemoInputs = new List<DirectCreditMemoInput>();
List<DirectCreditMemoInput.DirectCreditMemoLineItemInput> creditMemoLineItemInputs;
Set<Id> invoiceIds = new Set<Id>
{'a2V1N000002QbuC', 'a2V1N000002QbuM'}
List<Invoice__c> invoices = SELECT Id, Status__c, (Select Id, Amount__c From
InvoiceLineItems__r) FROM Invoice__c Where Id IN:invoiceIds;
Id templateId = 'a1b1N000003QCS';
Decimal creditAmount = 100.00;
String reasonCode = null;
for(Invoice__c invoice : invoices){
creditMemoLineItemInputs = new
List<DirectCreditMemoInput.DirectCreditMemoLineItemInput>();
for(InvoiceLineItem_c invoiceLineItem : invoice.InvoiceLineItems_r)
{ creditMemoLineItemInputs.add(new
DirectCreditMemoInput.DirectCreditMemoLineItemInput(invoiceLineItem.Id,
creditAmount)); }
creditMemoInputs.add(new DirectCreditMemoInput(invoice.Id,
reasonCode,
true,
true,
templateId,
true,
creditMemoLineItemInputs));
List<DirectCreditMemoResult> actualCreditMemoResults =
Apttus_Billing.BillingService.createDirectCreditMemos(creditMemoInputs);
System.debug('actualCreditMemoResults===========
+actualCreditMemoResults);
```

Code Sample 2 - To provide Full Credit

```
Apttus_Billing.DirectCreditMemoInput dcm = new
   Apttus_Billing.DirectCreditMemoInput();
dcm.autoApplyCreditMemo = true;
dcm.autoApprove = true;
dcm.calculateTax = true;
dcm.creditMemoLineItemInputs = null;
dcm.invoiceId = 'a5F5x000001hqtJ';
dcm.isFullCredit = true;
dcm.reasonCode = 'Refund';
dcm.templateId = 'a03f200000lccG2';
List<Apttus_Billing.DirectCreditMemoInput> creditMemoInputs = new
   List<Apttus_Billing.DirectCreditMemoInput>();
creditMemoInputs.add(dcm);
List<Apttus_Billing.DirectCreditMemoResult> actualCreditMemoResults =

Apttus_Billing.BillingService.createDirectCreditMemoInputs);
```

Creating Billing Plan with Product Configuration

createBillingPlanWithProductConfiguration API is used to create a billing plan for the product configurations. This API is used to creates a billing plan without the quote flow, directly from the cart page. It creates a billing plan with billing plan line items. For plan type as Milestone, the API also creates milestones.

createBillingPlanWithProductConfiguration(productConfigurationId,billingPlanTemplateId, lineItemIds)

This API accepts Product Configuration ID, Billing Plan Template ID, and a Set of Line Item IDs as input parameters. It creates a billing plan and billing plan line items for the given proposal ID. Created billing plan is applied to the list of provided Line Item IDs. If you do not provide any line item IDs as input parameters, the created billing plan is applied to all the line items.

For a billing plan template with plan type as Milestones, createBillingPlanWithProductConfiguration API also creates milestones.

Request

Field	Туре	Required?	Description	
productConfiguraionID	ID	Yes	ID of the Product Configuration	
billingPlanTemplateId	ID	Yes	ID of the Billing Plan Template	
lineItemIds	Set <ld></ld>	No	Set of Line Item Ids	

Response: Billing Plan APIR esponse

Field	Туре	Description
isSuccess	Boolean	Returns true if the API is executed correctly
errorMessage	String	Error Message if the API is not executed successfully.
billingPlanId	ID	Id of the created Billing Plan

```
Id productconfigurationId = 'a2G1N000002RpRZUA0';
Id billingPlanTemplateId = 'a3D1N000000blZc';
Set<Id> LineItemIds = new Set<Id>('a2E1N000001dHox', 'a2E1N000001eHox');

response =
Apttus_Billing.BillingService.createBillingPlanWithProductConfiguration(productconfiguratId, billingPlanTemplateId);

// Call API with line item ids parameter
response =
Apttus_Billing.BillingService.createBillingPlanWithProductConfiguration(productconfiguratId, billingPlanTemplateId, LineItemIds);
```



createBillingPlanWithProductConfiguration API is not supported for Evergreen Billing and Usage-based products.

Forecasting Billing Schedules for Smart Cart

forecastBilling API is used to generate forecast billing schedules for Smart Cart. A smart cart is a cart with a large number of product line items. This API run in the asynchronous mode. This API accepts the proposal ID and the option to extend the end date with renewal term as input parameters.

Id forecastBilling(ProposalID, extendEndDateWithRenewalTerm)

Forecast Billing Schedules API is used to generate forecast billing schedules, forecast billing summaries, forecast options, and forecast line item options for a large number of product line items. This API can be invoked by the implementation team after the cart is finalized.

forecastBilling API submits an asynchronous batch job to delete all the existing forecast billing schedules and returns the ID of the submitted batch job as a response parameter. After deleting the existing forecast data, forecastBilling API submits a batch job to generate forecast billing data for all the line items associated with the given proposal ID.



Forecast billing schedule functionality is not supported for:

- · Quote/Proposal associated with a billing plan
- · Informational line items of bundle and option products

Request

Field	Туре	Required?	Description
proposalID	ID	Yes	The proposal ID

Request

Field	Туре	Required?	Description
extendEndDateWithRen ewal	Boolean	Yes	If extendEndDateWithRenewal is set to true, then for each proposal line item with Auto-Renew set to True and the Auto-Renewal Type set to Fixed, the end date is extended based on the renewal term. If you pass a null value, the API considers it as a false value.

Response

Field	Туре	Description
apexJobld	ID	Id of the batch job submitted to delete the forecast billing schedules.

```
/**
* For a given proposal, delete exising forecast billing data, if any, and regenerate
the forecast data.
* This API supports the forecasting for samrt cart.
* @param proposalId The proposal Id for which the forecasting needs to be done.
* @param extendEndDateWithRenewalTerm States whether to generate forecasting with
current term or extend it with renewal term.
* A 'null' will default to 'false' value
* @return The ID of the new batch job (AsyncApexJob).
* @note The API functionality involves two batch jobs, one for deleting the existing
forecast data,
* and another chained batch is generating the new forecast data.
* Hence, the Id returned by the API is of the first deletion batch job.
global static Id forecastBilling(Id proposalId, Boolean extendEndDateWithRenewalTerm)
return DeleteForecastedBillingBatchJob.deleteAndRegenerateForecastData(proposalId,
extendEndDateWithRenewalTerm);
```

Applying a Late Fee

With applyLateFeesToInvoice API, you can charge your customers a Late Fee, if they do not complete their payment by the Due Date.

invoiceLateFeeResultList applyLateFeesToInvoice(lateFeeInputs)

applyLateFeesToInvoice API accepts Invoice ID and Late Fee ID as input parameters. This API calculates the late fee amount and adds the calculated amount to the Total Due Amount of the specified invoice Id. A Destinated Related A/R Transaction record is created for the late fee applied on the invoice. applyLateFeesToInvoice API returns ApplyInvoiceLateFeeResult object as response parameters.

Request: Apply Invoice Late Fee Amount

Field	Туре	Required?	Description
invoiceld	ID	Yes	The invoice Id to apply the late fee.
lateFeeld	ID	Yes	Id of the late fee to calculate penalty amount for the specified invoice

Response: Apply Invoice Late Fee Result

Field	Туре	Description
isSuccess	Boolean	Value is set as true if the Late Fee is applied successfully. Value is set as false if the API encounters an error.
errorMessage	String	If the API execution false, errorMessage string contains a detailed error message.
lateFeeAmount	Decimal	Value is set as the calculated late fee amount.
relatedA/RTransactionId	ID	Value is set as the ID of the created Related A/R Transaction record

Cancelling a Late Fee

With cancelInvoiceLateFees API, you can cancel a late fee incorrectly applied to an invoice.

cancelInvoiceLateFeeResult cancelInvoiceLateFees(cancelLateFeeInputs)

cancelInvoiceLateFees API accepts Related A/R Transaction ID and Description as input parameters. This API cancels the late fee and deducts the late fee amount from the Total Due Amount of the Invoice. A Destinated Related A/R Transaction record is created for the canceled late fee. cancelInvoiceLateFees API returns cancelInvoiceLateFeeResult object as a response parameter.

Request: cancelLateFeeInputs				
Field	Type	Required?	Description	
relatedLateFeeTransactionI d	ID	Yes	ID of the Related A/R Transaction record	

Request: cancelLateFeeInputs				
Field Type Required? Description				
description	String	Yes	Reason to cancel the late fee.	

Response: cancelInvoiceLateFeeResult			
Field	Туре	Description	
isSuccess	Boolean	Value is set as true if the Late Fee is canceled successfully. Value is set as false if the API encounters an error.	
errorMessage	String	If the API execution false, errorMessage string contains a detailed error message.	
invoiceld	ID	Value is set as the ID of the invoice for which the late fee was canceled successfully.	
cancellationTransactionId	ID	Value is set as the ID of the Related A/R Transaction created record the cancellation of late fee	

```
List<CustomClass.CancelInvoiceLateFeeInput> cancelLateFeeInputs = new
List<CustomClass.CancelInvoiceLateFeeInput>();

CustomClass.CancelInvoiceLateFeeInput cancelInput1 = new
CustomClass.CancelInvoiceLateFeeInput('a5p2v0000000dpZ3', 'test description');

cancelLateFeeInputs.add(cancelInput1);

List<CustomClass.CancelInvoiceLateFeeResult> cancelInvoiceLateFeeResult =
BillingService.cancelInvoiceLateFees(cancelLateFeeInputs);
```

REST Services

Apttus Billing Management offers the following REST Services:

- Creating Invoices for Orders REST Service
- · Creating Invoices REST Service
- Processing Pending Usage Inputs REST Service

Creating Invoices for Orders - REST Service

createInvoicesforOrder API is used to create invoices for given orders. It accepts a List of order IDs as input and produces invoices for each order ID.

createInvoicesForOrder(orderId, targetDateTime, invoiceDate)

This REST Service is used to create invoices for given order IDs. It accepts a list of order ID, targetDateTimeandinvoiceDate as input parameters.

It creates invoices for billing scheules that have status as pending billing, and ReadyForInvoiceDate less than the targetDate. All the new invoices are created with Invoice Date as the value mentioned in invoiceDate.

```
MainClass.cs
============
namespace ConsoleApplication1
   class Program
       static void Main(string[] args)
       {
           SalesforceClient client = new SalesforceClient();
           client.Username = "[yourUsername]";
           client.Password = "[yourPassword]";
           client.Token = "[Token]";
           client.ClientId = "[ConnectedApp_ClientID]";
           client.ClientSecret = "[ConnectedApp_SecretKey]";
           client.Login();
           client.createInvoiceForOrder();
       }
   }
}
SalesforceClient.cs
using Newtonsoft.Json;
using System;
using System.Collections.Generic;
using System.Net;
using System.Net.Http;
using System.Net.Http.Headers;
using System.Text;
namespace ConsoleApplication1
{
   public class SalesforceClient
   {
       private const string LOGIN_ENDPOINT = "https://test.salesforce.com/services/
oauth2/token";
       private const string API_ENDPOINT = "/services/apexrest/";
       public string Username { get; set; }
       public string Password { get; set; }
       public string Token { get; set; }
       public string ClientId { get; set; }
```

```
public string ClientSecret { get; set; }
        public string AuthToken { get; set; }
        public string InstanceUrl { get; set; }
        static SalesforceClient()
            // SF requires TLS 1.1 or 1.2
            ServicePointManager.SecurityProtocol = SecurityProtocolType.Tls12 |
SecurityProtocolType.Tls11;
        }
        public void Login()
        {
            String jsonResponse;
            using (var client = new HttpClient())
                var request = new FormUrlEncodedContent(new Dictionary<string,</pre>
string>
                    {
                        {"grant_type", "password"},
                        {"client_id", ClientId},
                        {"client_secret", ClientSecret},
                        {"username", Username},
                        {"password", Password + Token}
                    }
                );
                request.Headers.Add("X-PrettyPrint", "1");
                var response = client.PostAsync(LOGIN_ENDPOINT, request).Result;
                jsonResponse = response.Content.ReadAsStringAsync().Result;
            }
            Console.Write(jsonResponse);
            var values = JsonConvert.DeserializeObject<Dictionary<string,</pre>
string>>(jsonResponse);
            AuthToken = values["access_token"];
            InstanceUrl = values["instance_url"];
        }
        public void createInvoiceForOrder()
            using (var client = new HttpClient())
```

```
string restRequest = InstanceUrl + API_ENDPOINT + "Apttus_Billing/
CreateInvoicesForOrder/v1/";
                string requestMessage = "{\"orderId\":\"a2nW00000010D2G\",
\"targetDate\":\"2018-03-03\", \"invoiceDate\":\"2018-03-03\"}";
                HttpContent content = new StringContent(requestMessage,
Encoding.UTF8, "application/json");
                HttpRequestMessage request = new HttpRequestMessage(HttpMethod.Post,
restRequest);
                request.Headers.Add("X-PrettyPrint", "1");
                request.Headers.Add("Authorization", "Bearer " + AuthToken);
                request.Headers.Accept.Add(new
MediaTypeWithQualityHeaderValue("application/json"));
                request.Content = content;
                var response = client.SendAsync(request);
                string result = response.Result.Content.ReadAsStringAsync().Result;
                Console.Write(result);
                Console.ReadLine();
            }
        }
    }
}
```

Input Format

Internally the input format is converted to JSON as follows:

```
{
    "orderId" : "a2nW00000010D2A",
    "invoiceDate" : "2018-03-03",
    "targetDate" : "2018-03-03"
}
```

Output Format

Invoice is created for the given Order ID using the Invoice Date and targetDate parameters. Invoice is created only for billing scheules that have status as pending billing, and ReadyForInvoiceDate less than the targetDate.

```
[ {
    "attributes" : {
        "type" : "Apttus_Billing__Invoice__c",
        "url" : "/services/data/v31.0/sobjects/Apttus_Billing__Invoice__c/
a5zW000000005EytIAE"
    },
    "Id" : "a5zW000000005EytIAE",
    "Name" : "INV-00000012",
    "Apttus_Billing__Type__c" : "Standard",
    "Apttus_Billing__Type__c" : "Standard",
    "Apttus_Billing__TotalInvoiceAmount__c" : 2400.00000,
    "Apttus_Billing__ShipToAccountId__c" : "001W0000000LSAJHIA5",
    "Apttus_Billing__InvoiceDate__c" : "2018-03-03T12:39:23.000+0000",
    "Apttus_Billing__DueDate__c" : "2018-03-03T12:39:23.000+0000",
    "Apttus_Billing__BillToAccountId__c" : "001W0000000LSAJHIA5"
} ]
```

Creating Invoices - REST Service

createInvoices API is used to create Invoices automatically. It accepts a list of Account IDs and creates Invoices for each AccountID.

createInvoices(billToAccountIDs, invoiceDate, targetDateTime)

This API is used to create invoices for given Account IDs. It accepts a list of Account IDs, invoiceDate, and targetDateTime as input parameters. It creates invoices for billing scheules that have status as pending billing, and ReadyForInvoiceDate less than the targetDate. All the new invoices are created with Invoice Date as the value mentioned in invoiceDate.

```
MainClass.cs
============
namespace ConsoleApplication1
   class Program
       static void Main(string[] args)
       {
           SalesforceClient client = new SalesforceClient();
           client.Username = "[yourUsername]";
           client.Password = "[yourPassword]";
           client.Token = "[Token]";
           client.ClientId = "[ConnectedApp_ClientID]";
           client.ClientSecret = "[ConnectedApp_SecretKey]";
           client.Login();
           client.createInvoice();
       }
   }
}
SalesforceClient.cs
using Newtonsoft.Json;
using System;
using System.Collections.Generic;
using System.Net;
using System.Net.Http;
using System.Net.Http.Headers;
using System.Text;
namespace ConsoleApplication1
{
   public class SalesforceClient
   {
       private const string LOGIN_ENDPOINT = "https://test.salesforce.com/services/
oauth2/token";
       private const string API_ENDPOINT = "/services/apexrest/";
       public string Username { get; set; }
       public string Password { get; set; }
       public string Token { get; set; }
       public string ClientId { get; set; }
```

```
public string ClientSecret { get; set; }
        public string AuthToken { get; set; }
        public string InstanceUrl { get; set; }
        static SalesforceClient()
            // SF requires TLS 1.1 or 1.2
            ServicePointManager.SecurityProtocol = SecurityProtocolType.Tls12 |
SecurityProtocolType.Tls11;
        }
        public void Login()
        {
            String jsonResponse;
            using (var client = new HttpClient())
                var request = new FormUrlEncodedContent(new Dictionary<string,</pre>
string>
                    {
                        {"grant_type", "password"},
                        {"client_id", ClientId},
                        {"client_secret", ClientSecret},
                        {"username", Username},
                        {"password", Password + Token}
                    }
                );
                request.Headers.Add("X-PrettyPrint", "1");
                var response = client.PostAsync(LOGIN_ENDPOINT, request).Result;
                jsonResponse = response.Content.ReadAsStringAsync().Result;
            }
            Console.Write(jsonResponse);
            var values = JsonConvert.DeserializeObject<Dictionary<string,</pre>
string>>(jsonResponse);
            AuthToken = values["access_token"];
            InstanceUrl = values["instance_url"];
        }
        public void createInvoice()
            using (var client = new HttpClient())
```

```
string restRequest = InstanceUrl + API_ENDPOINT + "Apttus_Billing/
CreateInvoices/v1/";
                string requestMessage = "{\"billToAccountIds\":[\"001W000000eclP8\",
\"001W000000dkQ2c\", \"001W000000LSAJH\"], \"targetDate\":\"2018-03-03\",
\"invoiceDate\":\"2018-03-03\"}";
                HttpContent content = new StringContent(requestMessage,
Encoding.UTF8, "application/json");
                HttpRequestMessage request = new HttpRequestMessage(HttpMethod.Post,
restRequest);
                request.Headers.Add("X-PrettyPrint", "1");
                request.Headers.Add("Authorization", "Bearer " + AuthToken);
                request.Headers.Accept.Add(new
MediaTypeWithQualityHeaderValue("application/json"));
                request.Content = content;
                var response = client.SendAsync(request);
                string result = response.Result.Content.ReadAsStringAsync().Result;
                Console.Write(result);
                Console.ReadLine();
            }
        }
   }
}
```

Input Format

Internally the input format is converted to JSON as follows:

```
{
    "billToAccountIds" : ["001W000000eclP8", "001W000000dkQ2c", "001W0000000LSAJH"]
,
    "targetDate" : "2018-03-03",
    "invoiceDate" : "2018-03-03"
}
```

Output

Invoice is created for the given list of Account IDs using the Invoice Date and targetDate parameters. Invoice is created only for billing scheules that have status as pending billing, and ReadyForInvoiceDate less than the targetDate. This API does not return any output.

Processing Pending Usage Inputs - REST Service

processPendingUsageInput API is used to process Usage Inputs.

processPendingUsageInput()

This API processes all the usage inputs with status as 'Loaded'. On completion of the batch job, the user receives a batch job status email.

```
MainClass.cs
============
namespace ConsoleApplication1
   class Program
       static void Main(string[] args)
       {
           SalesforceClient client = new SalesforceClient();
           client.Username = "[yourUsername]";
           client.Password = "[yourPassword]";
           client.Token = "[Token]";
           client.ClientId = "[ConnectedApp_ClientID]";
           client.ClientSecret = "[ConnectedApp_SecretKey]";
           client.Login();
           client.processPendingUsageInputs();
       }
   }
}
SalesforceClient.cs
using Newtonsoft.Json;
using System;
using System.Collections.Generic;
using System.Net;
using System.Net.Http;
using System.Net.Http.Headers;
using System.Text;
namespace ConsoleApplication1
{
   public class SalesforceClient
   {
       private const string LOGIN_ENDPOINT = "https://test.salesforce.com/services/
oauth2/token";
       private const string API_ENDPOINT = "/services/apexrest/";
       public string Username { get; set; }
       public string Password { get; set; }
       public string Token { get; set; }
       public string ClientId { get; set; }
```

```
public string ClientSecret { get; set; }
        public string AuthToken { get; set; }
        public string InstanceUrl { get; set; }
        static SalesforceClient()
            // SF requires TLS 1.1 or 1.2
            ServicePointManager.SecurityProtocol = SecurityProtocolType.Tls12 |
SecurityProtocolType.Tls11;
        }
        public void Login()
        {
            String jsonResponse;
            using (var client = new HttpClient())
                var request = new FormUrlEncodedContent(new Dictionary<string,</pre>
string>
                    {
                        {"grant_type", "password"},
                        {"client_id", ClientId},
                        {"client_secret", ClientSecret},
                        {"username", Username},
                        {"password", Password + Token}
                    }
                );
                request.Headers.Add("X-PrettyPrint", "1");
                var response = client.PostAsync(LOGIN_ENDPOINT, request).Result;
                jsonResponse = response.Content.ReadAsStringAsync().Result;
            }
            Console.Write(jsonResponse);
            var values = JsonConvert.DeserializeObject<Dictionary<string,</pre>
string>>(jsonResponse);
            AuthToken = values["access_token"];
            InstanceUrl = values["instance_url"];
        }
        public void processPendingUsageInputs()
            using (var client = new HttpClient())
```

```
string restRequest = InstanceUrl + API_ENDPOINT + "Apttus_Billing/
ProcessUsageInput/v1/";
    var request = new HttpRequestMessage(HttpMethod.Post, restRequest);
    request.Headers.Add("Authorization", "Bearer " + AuthToken);
    request.Headers.Accept.Add(new

MediaTypeWithQualityHeaderValue("application/json"));
    request.Headers.Add("X-PrettyPrint", "1");
    var response = client.SendAsync(request).Result;
    Console.Write(response);
    Console.ReadLine();
    }
}
```

Input Format

This API requires no input. All the UsageInputs with status as Loaded are processed.

Output Format

This API does not return any output. On completion of the batch job, the user receives a batch job status email.

WSDL Services

Apttus Billing Management offers the following WSDL Services:

- · Applying Credit Memos to Invoices
- Applying Payments to Invoices
- Adding a A/R Transaction Deprecated
- Adding Multiple A/R Transactions Deprecated

Prerequisites for invoking WSDL Services:

- 1. You need to Generate Entripse WSDL and Apex WSDL for ARTransactionService. For information on generating enterprise WSDL, refer to Generating WSDL.
- 2. Add both the Generated WSDLs as a reference in your .Net Project.

Applying Credit Memos to Invoices

This API indirectly applies a Credit Memo to an Invoice by creating Related A/R Transaction records to reduce the tracked balance of the Invoice and the Credit Memo (double entry accounting).

You can use this API for a single invoice or multiple invoices. For each Related A/R Transaction Input passed in, a Related A/R Transaction Result will be returned. However, the order of the results may not be the same as the order of the inputs.

For more details on A/R Transactions, refer to Related A/R transactions in Billing Management User Guide.

applyCreditMemosToInvoices(List<RelatedARTxnInput2> inputs)

			_	_		
Request						
Field	Туре		Required?		Description	
inputs	List <relatedar< td=""><td colspan="2">ist <relatedartxninput2></relatedartxninput2></td><td></td><td>List of RelatedARTaxInput2 records</td></relatedar<>	ist <relatedartxninput2></relatedartxninput2>			List of RelatedARTaxInput2 records	
Apttus_Billing.F	RelatedARTransa	ctionService.	RelatedARTx	nInput2		
Field		Type		Descri	ption	
Description		String		Descrip	Description for the transaction.	
DestinationObj	ld	ID		ld of the Destination Object.		
ExternalSystem	nStatus	String		Status of the External System.		
IntegrationDate	е	Datetime		Date of the system Integration.		
ReasonCode		String		Reason for applying the A/R transaction.		
SourceObjld	ceObjld ID			ld of the Source Object.		
transactionAm	ount	Decimal		The transaction amount.		
transactionDat	te	Datetime		The transaction date.		
transactionISO	Currency	String		The transaction Currency.		
transactionNur	mber	String		The transaction number.		

			T		
transactionSubTy	pe	_		Sub-type of transaction (picklist value).	
transactionType		String		Type of transaction.	
Response					
Field	Туре			Description	
results	List <relat< td=""><td>tedARTxnResult2</td><td>2></td><td>List of RelatedARTaxResult2 records</td></relat<>	tedARTxnResult2	2>	List of RelatedARTaxResult2 records	
Apttus_Billing.Relo	atedARTranso	เctionService.Rel	atedARTx	nResult2	
Field		Туре	Desc	cription	
destinationARTrar	nsactionId	ID	A/R transaction Id for destination obje		
destinationObjld		ID	The id of Destination object.		
errorString		String	The Error message. Null value implies success and non-empty string value impliations.		
sourceObjld		ID	The id of Source object.		
Status		String	The Status of a transaction will be succe or failure.		
transactionNumbe	er	String	ring The transaction number.		

```
using System;
using sforce = ConsoleApplication1.Sforce1;
using ARService = ConsoleApplication1.ARTransactionService;
using System.Net;
namespace ConsoleApplication1
    class Program
        static void Main(string[] args)
            String sessionId;
            using (sforce.SoapClient client = new sforce.SoapClient())
                ServicePointManager.SecurityProtocol = SecurityProtocolType.Tls12 |
SecurityProtocolType.Tls11;
                //call login service
                sforce.LoginResult result = client.login(null, "[ORG_UserName]",
"[ORG_Password]");
                //extract authentication token
                 sessionId = result.sessionId;
                //serviceUrl = result.serverUrl;
                Console.WriteLine("Token generated: " + sessionId);
            }
            //call Related AR Transaction SOAP API
            ARService.SessionHeader header = new ARService.SessionHeader();
            header.sessionId = sessionId;
            using (ARService.RelatedARTransactionServicePortTypeClient soapClient =
new ARService.RelatedARTransactionServicePortTypeClient())
                ARService.RelatedARTxnInput2[] inputs = new
ARService.RelatedARTxnInput2[1];
                ARService.RelatedARTxnInput2 input2 = new
ARService.RelatedARTxnInput2();
                input2.destinationObjId = "[InvoiceID]";
```

```
input2.sourceObjId = "[CreditMemoID]";
                input2.transactionAmount = 100.00M;
                input2.description = "test description";
                input2.integrationDate = DateTime.Today;
                input2.transactionDate = DateTime.Today;
                input2.transactionNumber = "AR12342";
                input2.transactionType = "Credit Memo";
                inputs[0] = input2;
                ARService.RelatedARTxnResult2[] arResults = new
ARService.RelatedARTxnResult2[1];
                soapClient.applyCreditMemosToInvoices(header, null, null, null,
inputs, out arResults);
                Console.WriteLine("ARResult is: " + arResults[0].destinationARTransac
tionId);
                Console.ReadLine();
            }
        }
    }
}
```

Applying Payments to Invoices

This API indirectly applies a Payment to an Invoice by creating Related A/R Transaction records to reduce the tracked balance of the Invoice and the Payment (double entry accounting).

If no Payment exists for the specified Transaction Number then a Payment will be created with the Payment Amount set to the Transaction Amount.

The API can be for a single Invoice or multiple Invoices. For each Related A/R Transaction Input passed in, a Related A/R Transaction Result will be returned. However, the order of the results may not be the same as the order of the inputs.

For more details on A/R Transactions, refer to Related A/R transactions in the Billing Management User Guide.

applyPaymentsToInvoices(List<RelatedARTxnInput2> inputs)

Request		
Field	Туре	Description
inputs	List <relatedartxninput2></relatedartxninput2>	List of RelatedARTaxInput2 records

Apttus_Billing.RelatedARTransactionService.RelatedARTxnInput2			
Field	Туре	Description	
Description	String	Description for the transaction.	
destinationObjld	ID	ld of the Destination Object.	
externalSystemStatus	String	Status of the External System.	
integrationDate	Datetime	Date of the system Integration.	
reasonCode	String	Reason for applying the A/R transaction.	
sourceObjld	ID	ld of the Source Object.	
transactionAmount	Decimal	The transaction amount.	
transactionDate	Datetime	The transaction date.	
transactionISOCurrency	String	The transaction Currency.	
transactionNumber	String	The transaction number.	
transactionSubType	String	Sub-type of transaction (picklist value).	
transactionType	String	Type of transaction.	

Response				
Field	Туре			Description
results	List <related< td=""><td>dARTxnResult2></td><td></td><td>List of RelatedARTaxResult2 records</td></related<>	dARTxnResult2>		List of RelatedARTaxResult2 records
Apttus_Billing.Relate	edARTransact	ionService.Relate	dARTxr	nResult2
Field		Type	Des	cription
destinationARTransc	actionId	ID	A/R transaction ld for destination object.	
destinationObjld		ID	The id of Destination object.	
errorString		String	The Error message.Null value implies success and non-empty string value implifailure.	
sourceObjld		ID	The id of Source object.	
Status		String	The Status of a transaction will be succe or failure.	
transactionNumber		String	The -	transaction number.

```
using System;
using sforce = ConsoleApplication1.Sforce1;
using ARService = ConsoleApplication1.ARTransactionService;
using System.Net;
namespace ConsoleApplication1
    class Program
        static void Main(string[] args)
            String sessionId;
            using (sforce.SoapClient client = new sforce.SoapClient())
                ServicePointManager.SecurityProtocol = SecurityProtocolType.Tls12 |
SecurityProtocolType.Tls11;
                //call login service
                sforce.LoginResult result = client.login(null, "[ORG_UserName]",
"[ORG_Password]");
                //extract authentication token
                 sessionId = result.sessionId;
                //serviceUrl = result.serverUrl;
                Console.WriteLine("Token generated: " + sessionId);
            }
            //call Related AR Transaction SOAP API
            ARService.SessionHeader header = new ARService.SessionHeader();
            header.sessionId = sessionId;
            using (ARService.RelatedARTransactionServicePortTypeClient soapClient =
new ARService.RelatedARTransactionServicePortTypeClient())
                ARService.RelatedARTxnInput2[] inputs = new
ARService.RelatedARTxnInput2[1];
                ARService.RelatedARTxnInput2 input2 = new
ARService.RelatedARTxnInput2();
                input2.destinationObjId = "[InvoiceID]";
```

```
input2.transactionAmount = 100.00M;
                input2.description = "test description";
                input2.integrationDate = DateTime.Today;
                input2.transactionDate = DateTime.Today;
                input2.transactionNumber = "AR12342";
                input2.transactionType = "Payment";
                inputs[0] = input2;
                ARService.RelatedARTxnResult2[] arResults = new
ARService.RelatedARTxnResult2[1];
                soapClient.applyPaymentsToInvoices(header, null, null, null, inputs,
out arResults);
                Console.WriteLine("ARResult is: " + arResults[0].destinationARTransac
tionId);
                Console.ReadLine();
        }
    }
}
```

Adding a A/R Transaction - Deprecated

addRelatedARTransaction(RelatedARTxnInput input)

This API applies Credit Memo to Invoices as part of the A/R transaction.

Request		
Field	Туре	Description
input	RelatedARTxnInput	List of RelatedARTaxInput2 records

Apttus_Billing.RelatedARTransactionService.RelatedARTxnInput		
Field Type Description		
collectionStatus	String	The Collection Status.
description	String	Description for A/R Transaction.

Apttus_Billing.RelatedARTransactionService.RelatedARTxnInput			
externalSystemStatus	String	The Status of external system.	
impactARAmount	Decimal	The A/R impact amount.	
integrationDate	Datetime	Date of Integration.	
invoiceld	ID	Invoice Id.	
reasonCode	String	Reason code for creating A/R transaction.	
relatedTransactionId	String	Related transacion id.	
transactionAmount	Decimal	Transaction amount.	
transactionDate	Datetime	Transaction date.	
transactionEffectiveDate	Datetime	The effective date of transaction.	
transactionNumber	String	Transaction number.	
transactionType	String	The type of transaction.	

Response			
Field	Туре		Description
result	RelatedARTx	nResult	List of RelatedARTaxResult2 records
Apttus_Billing.RelatedARTransactionService.RelatedARTxnResult			
Field Type Description			Description
errorString		String	Error string showing the error message.

Apttus_Billing.RelatedARTransactionService.RelatedARTxnResult			
invoiceld	celd ID Invoice Id.		
relatedARTransactionId	ID	The related A/R transaction Id.	
Status	String	Status of the transaction.	
transactionNumber	String	Transaction number.	

A

This API is deprecated. Calling this API will result in an error.

Adding Multiple A/R Transactions - Deprecated

This API invokes RelatedAR Transactions.

addRelatedARTransactions(List<RelatedARTxnInput> inputs)

This API is used to accept A/R Transactions in bulk.

Request			
Field	Туре	Required?	Description
inputs	RelatedARTxnInput	Yes	List of RelatedARTaxInput2 records

Apttus_Billing.RelatedARTransactionService.RelatedARTxnInput				
Field	Туре	Description		
collectionStatus	String	The Collection Status.		
description	String	Description for A/R Transaction.		

Apttus_Billing.RelatedARTransactionService.RelatedARTxnInput				
externalSystemStatus	String	The Status of external system.		
impactARAmount	Decimal	The A/R impact amount.		
integrationDate	Datetime	Date of Integration.		
invoiceld	ID	Invoice Id.		
reasonCode	String	Reason code for creating A/R transaction.		
relatedTransactionId	String	Related transacion id.		
transactionAmount	Decimal	Transaction amount.		
transactionDate	Datetime	Transaction date.		
transactionEffectiveDate	Datetime	The effective date of transaction.		
transactionNumber	String	Transaction number.		
transactionType	String	The type of transaction.		

Response					
Field	Туре		Description		
results	List <relatedartxnresult></relatedartxnresult>		List of RelatedARTaxResult2 records		
Apttus_Billing.RelatedARTransactionService.RelatedARTxnResult					
Field		Туре	Description		
errorString		String	Error string showing the error message.		

Apttus_Billing.RelatedARTransactionService.RelatedARTxnResult				
invoiceld	ID	Invoice Id.		
relatedARTransactionId	ID	The related A/R transaction Id.		
Status	String	Status of the transaction.		
transactionNumber	String	Transaction number.		

A

This API is deprecated. Calling this API will result in an error.

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