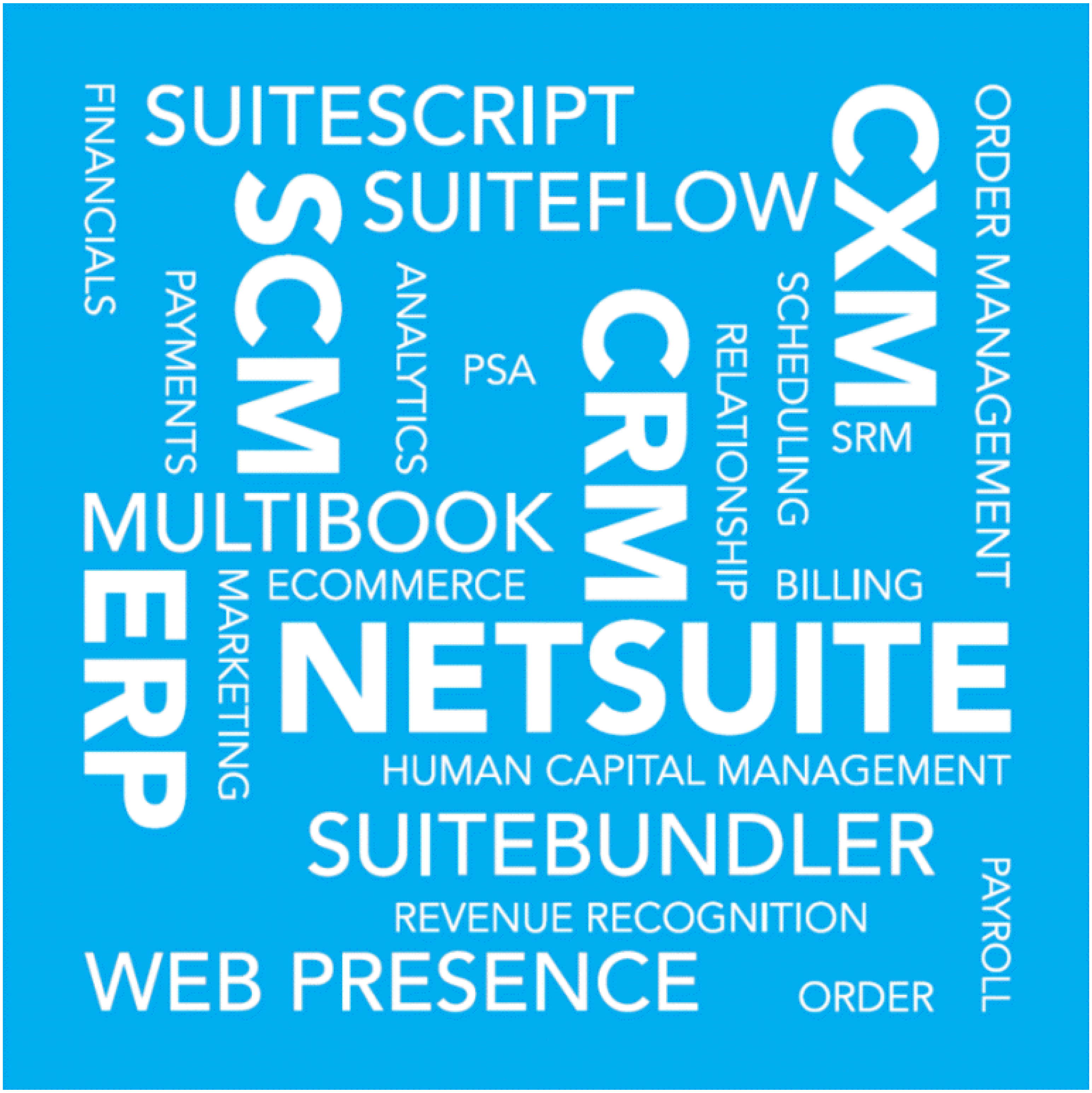
Custom GL Lines Plug-in



April 11, 2018

2018.1

Sample Code

No Excessive Use of the Service

Beta Features

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Custom GL Lines Plug-in Overview

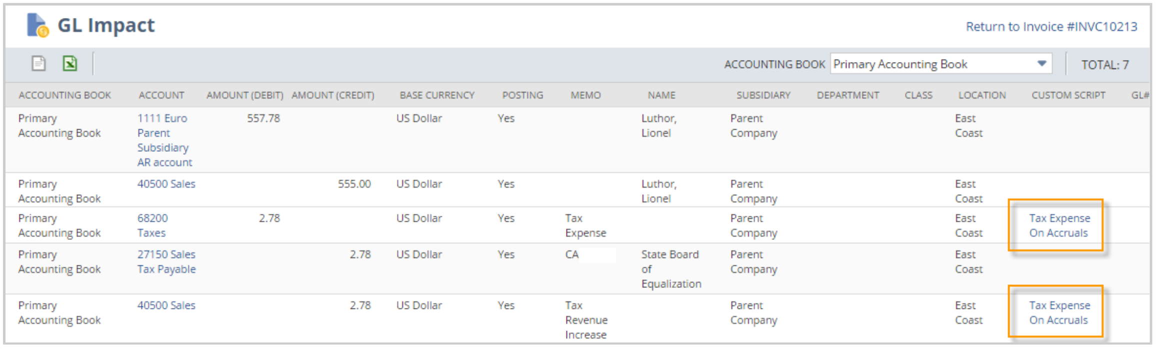
The Custom GL Lines Plug-in modifies the general ledger impact of standard and custom transactions. Use the Custom GL Lines Plug-in to comply with a wide range of global accounting standards by applying custom transaction logic that adds lines to the NetSuite GL Impact page.

The Custom GL Lines Plug-in can set and read custom segment values from custom and standard lines, and from transaction records. The default values for column segments are sourced from the body. The Custom GL Lines Plug-in can change this value, even for segments that are applied only to the body.

Solution providers can create implementations of the plug-in to add GL lines to transactions. These plug-in implementations can be bundled and distributed as SuiteApps. NetSuite account administrators can install the SuiteApp and configure custom GL plug-in implementations to be applied to specific transaction types, subsidiaries, and accounting books. OneWorld accounts can set a plug-in implementation to run for specific subsidiaries, and accounts with the Multi-Book Accounting feature enabled can set a plug-in implementation to run for specific accounting books.

For example, a solution provider can create a plug-in implementation to capture locale-specific GL impact on standard transaction types. Plug-in implementations could also add bank, credit card, and wire charges to payments, cash sales, and refunds or create unique discount or markup rules that add an amount to an invoice or bill.

The following screenshot shows the GL Impact page for an invoice with custom lines created by the Tax Expense On Accruals plug-in implementation:



ACCOUNTING BOOK Primary Accounting Book   TOTAL: 7

ACCOUNTING BOOK	ACCOUNT	AMOUNT (DEBIT)	AMOUNT (CREDIT)	BASE CURRENCY	POSTING	MEMO	NAME	SUBSIDIARY	DEPARTMENT	CLASS	LOCATION	CUSTOM SCRIPT	GL#
Primary Accounting Book	1111 Euro Parent Subsidiary AR account	557.78		US Dollar	Yes		Luthor, Lionel	Parent Company			East Coast		
Primary Accounting Book	40500 Sales		555.00	US Dollar	Yes		Luthor, Lionel	Parent Company			East Coast		
Primary Accounting Book	68200 Taxes	2.78		US Dollar	Yes	Tax Expense		Parent Company			East Coast	Tax Expense On Accruals	
Primary Accounting Book	27150 Sales Tax Payable		2.78	US Dollar	Yes	CA	State Board of Equalization	Parent Company			East Coast		
Primary Accounting Book	40500 Sales		2.78	US Dollar	Yes	Tax Revenue Increase		Parent Company			East Coast	Tax Expense On Accruals	

In the preceding screenshot, the **Custom Script** column links to the plug-in implementation that created the custom line. In addition, because the custom lines created by a plug-in implementation are linked to the original transaction, the custom lines can appear in reports and searches. See Custom Lines on Reports and in Searches.

For information about the Custom GL Lines plug-in, see the following topics:

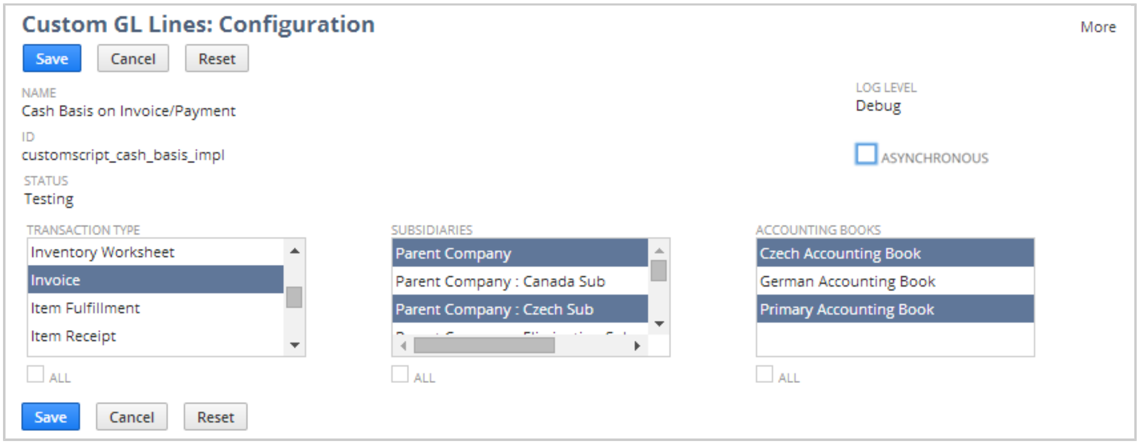
NetSuite Role	For more information, see ...
All roles	Custom GL Lines Plug-in Process Flow Transaction Types Supported By Custom GL Lines Plug-in
Developer	Custom GL Lines Plug-in Implementation Development
Administrator	Custom GL Lines Plug-in Implementation Administration

Important: The Custom GL Lines plug-in does not currently support SuiteScript 2.0. Only SuiteScript 1.0 is supported.

Custom GL Lines Plug-in Process Flow

A Custom GL Lines plug-in implementation executes depending on how the plug-in implementation is configured. The implementation executes when you save a transaction of the type and subsidiary configured for the plug-in implementation. The subsidiary is the subsidiary to which the transaction belongs. The plug-in implementation may also execute multiple times, one time for each accounting book configured for the plug-in implementation.

For example, the following plug-in implementation is configured to run when you save an invoice for the Parent Company or Czech Subsidiary, and runs on both the primary and secondary books.



NAME
Cash Basis on Invoice/Payment

ID
customscript_cash_basis_impl

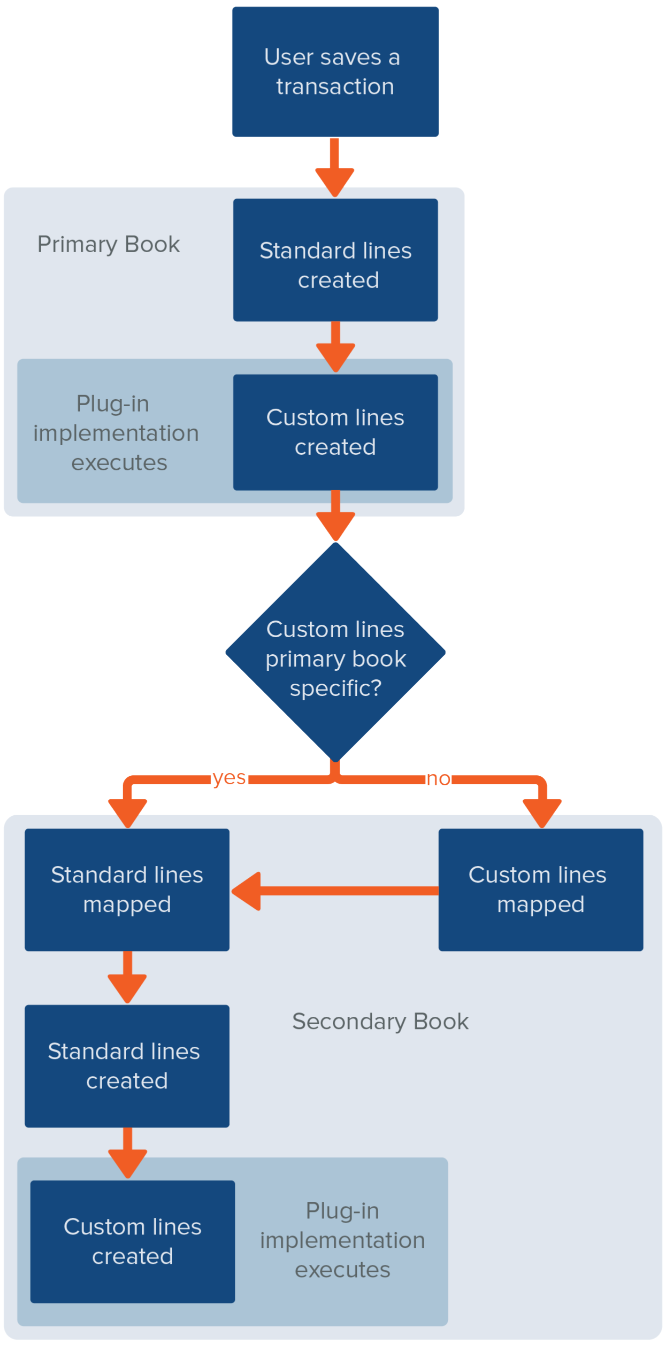
STATUS
Testing

LOG LEVEL
Debug

☐ ASYNCHRONOUS

TRANSACTION TYPE	SUBSIDIARIES	ACCOUNTING BOOKS
Inventory Worksheet	Parent Company (selected)	Czech Accounting Book (selected)
Invoice (selected)	Parent Company : Canada Sub	German Accounting Book
Item Fulfillment	Parent Company : Czech Sub (selected)	Primary Accounting Book (selected)
Item Receipt		
☐ ALL	☐ ALL	☐ ALL

The following diagram shows the execution model of the Custom GL Lines plug-in implementation:



The plug-in implementation executes according to the following process:

1. User saves a transaction for the entity belonging to a subsidiary. Using the plug-in implementation configuration, any configured transaction type with an entity associated with a configured subsidiary triggers the plug-in implementation execution on the transaction. The plug-in can run either during transaction save or asynchronously, depending on the Asynchronous box on the plug-in configuration page The subsidiary is the main subsidiary for the transaction, or the subsidiary to which the transaction belongs.

   NetSuite first creates the standard lines for the primary book.

2. Plug-in implementation executes on the primary accounting book. NetSuite executes the customizeGlImpact(transactionRecord, standardLines, customLines, book) function with the primary book AccountingBook object.

   NetSuite creates any custom lines in the primary book configured for the plug-in implementation. If you do not use the Multi-Book Accounting feature, the plug-in implementation process completes. Otherwise, NetSuite continues with the mapping of standard and custom lines to the secondary books.
3. NetSuite determines which lines should be applied to any secondary books. By default, NetSuite maps standard lines to the appropriate secondary accounting books, according to any mapping rules set up for the Multi-Book Accounting feature. NetSuite performs the same mapping for all custom lines with the setBookSpecific(bookSpecific) method set to false.
4. NetSuite creates standard lines. NetSuite creates any of the appropriate mapped standard lines and any custom lines that are not specific to the primary book in the secondary accounting books.
5. Plug-in implementation executes on the secondary accounting books configured for the plug-in implementation. NetSuite executes the customizeGlImpact(transactionRecord, standardLines, customLines, book) function for each secondary book AccountingBook object for the transaction.

   NetSuite creates the custom lines on the secondary accounting book.
6. Transaction save completes. You can view the general ledger impact of the transaction by selecting Actions > GL Impact. If an asynchronous implementation is used and the plug-in is still pending, an information message appears on the GL Impact page. Custom GL Lines from asynchronous plug-ins are shown after the plug-in is executed. When costing updates are performed (for example, the COGS update), the plug-in might run asynchronously, and the values on the GL Impact page might change after the update is completed.

Important: The current version of the Custom GL Lines Plug-in is always used.

Transaction Types Supported By Custom GL Lines Plug-in

The following table lists the transactions supported by the Custom GL Lines Plug-in.

Transaction Name	ID
Assembly Build	assemblybuild
Assembly Unbuild	assemblyunbuild
Bill	vendorbill
Bill Credit	vendorcredit
Bill Payment	vendorpayment
Blanket Purchase Order	blanketpurchaseorder
Cash Refund	cashrefund
Cash Sale	cashsale
Check	check
Credit Memo	creditmemo

Transaction Name	ID
Customer Deposit	customerdeposit
Customer Payment	customerpayment
Customer Refund	customerrefund
Deposit	deposit
Deposit Application	depositapplication
Expense Report	expensereport
Finance Charge *	invoice
Inventory Adjustment	inventoryadjustment
Invoice *	invoice
Item Fulfillment	itemfulfillment
Item Receipt	itemreceipt
Journal *	journalentry
Opportunity	opportunity
Paycheck Journal	paycheckjournal
Purchase Contract	purchasecontract
Purchase Order	purchaseorder
Return Authorization	returnauthorization
Revenue Commitment *	revenuecommitment
Revenue Commitment Reversal	revenuecommitmentreversal
Sales Order *	salesorder
Store Pickup Fulfillment	storepickupfulfillment
Vendor Return Authorization	vendorreturnauthorization
Work Order	workorder
Work Order Close	workorderclose
Work Order Completion	workordercompletion
Work Order Issue	workorderissue
* See Transaction Support Exceptions.	

Transaction Support Exceptions

The following transactions are supported with restrictions:

- **Finance Charge.** A special type of invoice, the plug-in supports this transaction type when created through an invoice form.
- **Journal.** The plug-in supports Journals except in the following cases:
  - Book-specific journal entries
  - Voiding journal and reversing journal

    These journals are unsupported because they negate the original transaction and should not create new GL impact

    - Open balance journal
    - Statistical journal
    - Intercompany journal
    - Intercompany elimination journal
    - Allocation journal
    - Revaluation journals
    - Collect Tegata
    - Pay Tegata
    - Revenue recognition
    - Amortization
    - Revenue reclassification
    - Revenue arrangements
    - Time posting to journal entry
    - Bill variances journal entry
    - Recognize gift certificate income
    - Allocate paycheck to jobs
    - Payroll: Create funding transaction
    - Payroll: YTD process
    - Payroll batch journal
    - Paycheck journal
- **Revenue Commitment.** A plug-in implementation does not execute on book-specific revenue commitments.
- **Sales Order.** A plug-in implementation does not execute on book-specific sales order.

Transaction Processing

An implementation of the plug-in processes transactions by the following methods:

- **Voided transactions.** Voided transactions with custom lines are handled in the same way as voided transaction with standard GL impact lines. See the help topic Voiding, Deleting, or Closing Transactions.
- **Memorized transactions.** When the transaction is entered into the system, the plug-in implementation creates custom lines. The transaction is also set to Posting or Non-Posting, matching the value for the standard lines.
- **Due date.** Due date is set on custom lines when the transaction is saved. The due date is equal to the transaction date. This enables the custom line to appear on aging reports.

Custom GL Lines Plug-in Implementation Development

You can develop a Custom GL Lines plug-in implementation for each use case where you want to modify the general ledger entries for transactions. A single plug-in implementation can process multiple types of transactions or you can create a separate plug-in implementation for each transaction type.

To create a plug-in implementation, use a developer account to develop and test the plug-in implementation. Then, use SuiteBundler to bundle the plug-in objects and distribute them to other NetSuite accounts. NetSuite administrators use the bundle to install the plug-in implementation in a NetSuite account and enable the implementation. For more information about administration tasks for a Custom GL Lines Plug-in bundle, see Custom GL Lines Plug-in Implementation Administration.

Note: If you use the Custom GL Lines Plug-in with Custom Segments, any segments affected by the implementation must be flagged as having GL impact. When the plug-in uses a custom segment that is not marked as having a GL impact, you will see an error message.

The functionality that you include in a Custom GL Lines plug-in implementation depends on the type of accounting features used in the NetSuite account where the plug-in implementation runs and the following properties that you configure for each plug-in implementation:

- **Transaction types.** A Custom GL Lines plug-in implementation runs when you save a transaction for which the plug-in implementation is configured to run, where the entity for the transaction is associated with a specific subsidiary. You can include code in the plug-in implementation script file that applies only to specific transaction types.
- **Subsidiaries.** In a One World account, the plug-in implementation only affects the general ledger entries for the subsidiaries that you configure for the plug-in implementation.
- **Accounting books.** The plug-in implementation affects only the accounting books that you configure for the plug-in implementation. If you have the Multi-Book Accounting feature enabled, you can direct the plug-in implementation to modify existing or add custom general ledger entries in multiple accounting books. If you do not have the Multi-Book Accounting feature enabled, the plug-in implementation affects only the general ledger entries in the primary accounting book.

Note: You can have multiple Custom GL Lines plug-in implementations enabled in an account. If you enable a plug-in implementation that conflicts with an existing implementation, NetSuite displays a warning message that several implementations for one transaction can cause longer save times. You are allowed to save the implementation, however if you notice long transaction save times, you can resolve this by setting one or more plug-in implementations to run asynchronously.

For more information about how a Custom GL Lines plug-in implementation modifies the general ledger impact for a transaction, see Custom GL Lines Plug-in Process Flow.

The following table describes the basic steps in developing a single plug-in implementation of the Custom GL Lines plug-in:

Step	Description
Enable features	Enable the Custom GL Lines Plug-in and Server SuiteScript features. See Enable Features for a Custom GL Lines Plug-in Implementation.
Gather required internal IDs	In a plug-in implementation, you can reference internal NetSuite IDs for records and accounts. Before you create the plug-in implementation script file, you must note these values. See Gather Required Internal IDs.
Create script file	Create the script file that contains the Custom GL Lines plug-in implementation. See Create a Plug-in Implementation Script File.
Add the plug-in implementation	Add the plug-in implementation using the plug-in script file and any required utility files that you created in the previous step to the development account. See Add the Plug-in Implementation.

Step	Description
Test the plug–in implementation	Verify the behavior of the plug-in implementation. See Test the Plug-in Implementation.
Bundle the plug-in implementation	Bundle both the plug-in implementation and other objects required by the plug-in implementation for distribution to other NetSuite accounts. See Bundle the Plug-in Implementation.

Gather Required Internal IDs

When you create a Custom GL Lines plug-in implementation, you might refer to records in NetSuite by their internal NetSuite IDs.

The following table describes the required NetSuite internal IDs if you want to use the records in the plug-in implementation script file:

Record Type	Location of ID
Accounts	Setup > Accounting > Chart of Accounts
Accounting books	Setup > Accounting > Accounting Books
Departments	Setup > Company > Departments
Classes	Setup > Company > Classes
Locations	Setup > Company > Locations
Subsidiaries	Setup > Company > Subsidiaries
Tax codes	Setup > Accounting > Tax Codes
Tax types	Setup > Accounting > Tax Types

Note: You can use helper functions in a utility file to avoid adding the internal NetSuite IDs into the plug-in implementation logic. See Utility Files for a Custom GL Lines Plug-In Implementation.

Create a Plug-in Implementation Script File

You can use the SuiteCloud IDE, or another Javascript IDE or text editor, to create a JavaScript file that includes the business logic for your Custom GL Lines plug-in implementation script file.

The following table describes the functions and objects available in a Custom GL Lines plug-in implementation script file:

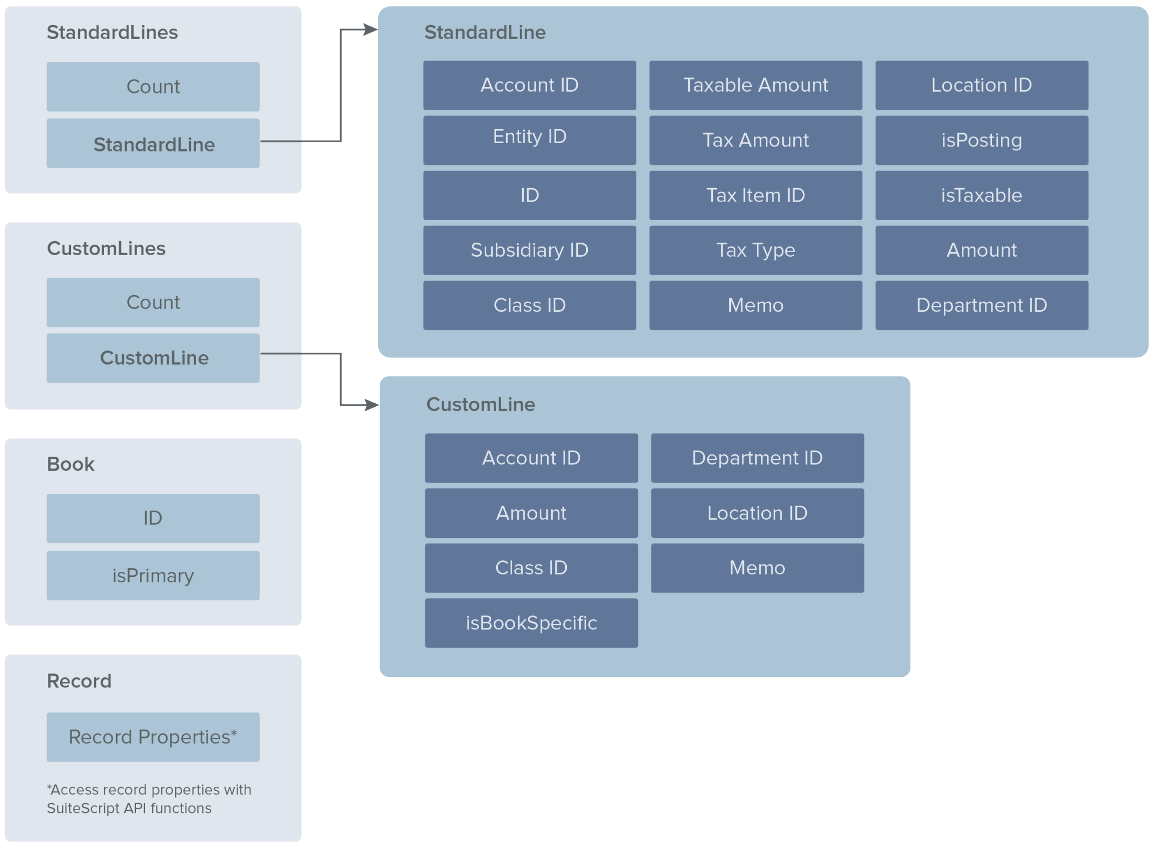
Function / Interface Object	Description
customizeGlImpact(transactionRecord, standardLines, customLines, book)	You must create an implementation of this function in the plug-in implementation script file. The script file can contain other helper functions. NetSuite executes this function when you save a transaction of the type and subsidiary configured for the plug-in implementation. NetSuite executes this function one time for the primary accounting book. If you use the Multi-Book Accounting feature, this function is also called for each secondary accounting book that you configure for the plug-in implementation.

Function / Interface Object	Description
StandardLines	Contains an array of all standard lines with GL impact in a transaction as StandardLine objects. Use the methods available to this object to access the properties of individual standard lines with GL impact on a transaction.
CustomLines	Contains an array of all custom lines with GL impact in a transaction as CustomLine objects. Use the methods available to this object to add and modify custom lines with GL impact on a transaction.
AccountingBook	Represents the accounting book passed to a Custom GL plug-in implementation when you save a transaction. Use the methods available to the book object to determine if the book is a primary or secondary book or get the internal NetSuite ID of the accounting book.
Record	Use this to access properties of the transaction with SuiteScript API nlobjRecord functions. You cannot modify the transaction.

For more information, see the Custom GL Lines Plug-in Process Flow and Custom GL Lines Plug-in Implementation Object Model.

Custom GL Lines Plug-in Implementation Object Model

The following diagram shows the object model for the interface input and output objects:



Rules and Guidelines

Use the following rules and guidelines when creating the plug-in implementation script file:

- The plug-in script file can have any name, as long as it contains an implementation of the interface function.
- If you want to create utility files with helper functions for the main implementation file, you can include those files when you create the plug-in implementation for the Custom GL Lines plug-in in NetSuite. For more information about utility files, see Utility Files for a Custom GL Lines Plug-In Implementation.
- You can use a custom record type to store the references to the required NetSuite standard records. See Using a Custom Record to Reference Internal NetSuite IDs Example.
- You can use SuiteScript API functions in a plug-in implementation, for example, nlapiLoadRecord(type, id, initializeValues) and nlapiSearchRecord(type, id, filters, columns). However, using these APIs may negatively affect the performance of the plug-in implementation. Limit the use of these APIs, where possible, to improve performance of the plug-in implementation. In general, searching for records yields better performance than loading NetSuite records.

  Governance limits also apply to these functions. The plug–in script file allows up to 1000 usage units when used with SuiteScript. For more information, see the help topic SuiteScript 1.0 API Governance.

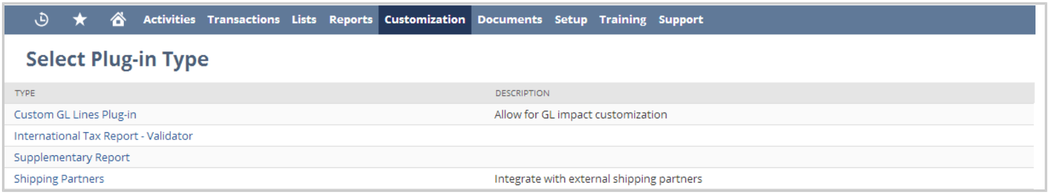
Important: For additional guidelines and best practices, see Custom GL Lines Plug-in Guidelines and Best Practices.

Add the Plug-in Implementation

When you have finished creating the plug-in implementation script file, create a new plug-in implementation. When you create the plug-in implementation, you upload the script file and other utility files as required.

To add the script files and create the plug-in implementation:

1. Go to Customization > Plug-ins > Plug-in Implementations > New.
2. In the **Script File** field, open the script file or add a new file.
3. Click **Create Plug-in Implementation**.



Select Plug-in Type

TYPE	DESCRIPTION
Custom GL Lines Plug-in	Allow for GL impact customization
International Tax Report - Validator	
Supplementary Report	
Shipping Partners	Integrate with external shipping partners

4. On the Select Plug-in Type page, click the **Custom GL Lines Plug-in** link.
5. On the New Plug-in Implementation page, enter the following information:

Option	Description
Name	User-friendly name for the implementation. The plug-in implementation appears in the following locations:

Option	Description
	▪ Manage Plug-ins page. Page used by administrators to enable/disable the plug-in implementation in their account. ▪ Bundle Builder. Select this name in the Bundle Builder to distribute the plug-in implementation to other accounts. ▪ GL Impact page. For each custom lines added by the plug-in implementation, the **Custom Script** column on the GL Impact page lists the plug-in implementation name.
ID	Internal ID for the implementation for use in scripting. If you do not provide an ID, NetSuite will provide one for you when you click **Save**.
Status	Current status for the implementation. Choose **Testing** to have the implementation accessible only to the owner of the implementation. Choose **Released** to have the implementation accessible to all users in the account.
Log Level	Logging level you want for the script. Select Debug, Audit, Error, or Emergency. These messages appear on the **Execution Log** subtab for the plug-in implementation.
Execute As Role	Role that the script runs as. The Execute As Role field provides role-based granularity in terms of the permissions and restrictions of the executing script. The **Current Role** value indicates that the script executes with the permissions of the currently logged-in NetSuite user. **Note:** You can create the custom role during testing to test the plug-in implementation with the proper role. The role requires the SuiteScript permission. You can then bundle the custom role to distribute it with the plug-in implementation. See Test the Plug-in Implementation and Bundle the Plug-in Implementation.
Description	Optional description of the implementation. The description appears for the implementation on the Plug-In Implementations page.
Owner	User account that owns the implementation. Default is the name of the logged in user.
Inactive	Indicates the plug-in implementation does not run in the account. Inactivate a plug-in implementation, for example, to temporarily disable it for testing purposes.

6. On the Scripts subtab, from the **Implementation** list, select the script file that contains the implementation of the plug-in.
7. On the Scripts subtab, from the **Library Script File** list, select any utility script files required by the plug-in script file.
8. On the Unhandled Errors subtab, select which individuals will be notified if script errors occur. By default the **Notify Script Owner** box is checked.

   To enter multiple email addresses in the **Notify Emails** box, separate email addresses with a semi-colon.
9. Click **Save**. You can access the list of implementations by going to Customization > Plug-ins > Plug-in Implementations.

Before you can test the plug-in implementation, configure the plug-in implementation and then enable it. See Configure the Custom GL Lines Plug-in Implementation and Enable the Custom GL Lines Plug-in Implementation.

Test the Plug-in Implementation

To test a Custom GL Lines plug-in implementation, perform the following tasks:

- Create a custom role for the plug-in implementation. The **Execute As Role** field determines the role under which the plug-in implementation script runs. This role requires the SuiteScript permission.

  For more information about the **Execute As Role** field, see Add the Plug-in Implementation. For more information about custom roles in NetSuite, see the help topic Customizing or Creating NetSuite Roles.
- Configure the transaction types, subsidiaries, and accounting books for the plug-in implementation, depending on the accounting features. See Configure the Custom GL Lines Plug-in Implementation.
- Enable the plug-in implementation at Customization > Plug-ins > Manage Plug-ins. See Enable the Custom GL Lines Plug-in Implementation.
- Create transactions that will impact the general ledger and test the script and plug-in behavior.
- Examine the GL impact of the transaction. Make sure that the plug-in implementation performs as expected.

Important: Plug-in implementations modify or supplement NetSuite business logic, changing the manner in which standard business processes run. Make sure that the GL impacts on the transaction types, subsidiaries, and accounting books accurately reflect the customization in the plug-in implementation script file and the plug-in implementation configuration.

You should test your plug-in implementation on each NetSuite version and release in use by your NetSuite customers.

If you use the Custom GL Lines Plug-in with Custom Segments, the plug-in may fail for any one of the following reasons:

- Custom segment does not exist.
- Custom segment is inactive.
- The role set up to run the plug-in does not have permission to set values on the custom segment.
- The custom segment does not impact GL.
- The Custom Segment feature is not enabled.

Bundle the Plug-in Implementation

After developing the Custom GL Lines plug-in implementation, you can distribute the implementation to a production account. SuiteBundler enables NetSuite users to package together groups of objects for distribution to other accounts. These packages are called bundles, or SuiteApps. To distribute the Custom GL Lines plug-in implementation script file and utility files, custom records and roles, and the plug-in implementation object, create a bundle with SuiteBundler. After you create the bundle, administrators can install the bundle in production accounts.

The following table lists the objects you must include in the bundle and their location on the **Select Objects** page in the Bundle Builder:

Object	Location On Select Objects Page
Plug-in implementation script file Utility files	File Cabinet > Files
Custom records	Custom Lists/Records > Records
Custom roles	Roles > Custom Roles

Object	Location On Select Objects Page
Plug-in implementation	Plug-ins > Custom GL Lines Plug-in

Custom GL Lines Plug-in Implementation Administration

After a developer creates an implementation of a Custom GL Lines plug-in and bundles it, you can install and set up the plug-in implementation bundle.

To install and set up a Custom GL Lines plug-in implementation, complete the following steps:

- Enable Features for a Custom GL Lines Plug-in Implementation
- Install a Custom GL Lines Plug-in Bundle
- Configure the Custom GL Lines Plug-in Implementation
- Enable the Custom GL Lines Plug-in Implementation

You can monitor implementations using system notes. For information, see Custom GL Lines Plug-in Implementation System Notes.

Important: The current version of the Custom GL Lines Plug-in is always used. An older version of the plug-in might have been used to create a transaction, and might have generated a different result than the current version. If you attempt to update a transaction in a closed period, and the current version of the plug-in generates a different result, you cannot save the updates.

You can either open the period, or branch your plug-in implementation by the date of the plug-in version.

Enable Features for a Custom GL Lines Plug-in Implementation

Before you install a Custom GL Lines Plug-in bundle, make sure that the Custom GL Lines Plug-in and Server SuiteScript features are enabled in the account.

To enable features for the Custom GL Lines Plug-in:

1. Choose Setup > Company > Enable Features.
2. On the **SuiteCloud** subtab, enable the following features:

Section	Feature Name
SuiteScript	Server SuiteScript
SuiteGL	Custom GL Lines

3. If necessary, check the box and agree to the Terms of Service.
4. Click **Save**.

Install a Custom GL Lines Plug-in Bundle

A developer can create an implementation of the Custom GL Lines plug-in and then bundle it for distribution to other NetSuite accounts. An administrator can then install the bundle into a target NetSuite account.

To install a Custom GL Lines plug-in implementation bundle:

1. Go to Customization > SuiteBundler > Search & Install Bundles.
2. On the Install Bundle page, choose Production Account from the Location list.
3. Search for the plug-in bundle.
4. Click **Install** for the bundle.

   Important: To avoid duplicate objects during install, select “Replace Existing Object” if prompted.

   After you begin the installation of a bundle, you can continue working in NetSuite as the bundle installs.

   To check on the progress of the installation, go to the list of installed bundles at Customization > SuiteBundler > Search & Install Bundles > List. If installation is not complete, the Status column displays the percentage of installation progress. Click Refresh to update the status. When installation is complete, the Status column displays a green check.

   Note: If no Install button is available, this bundle may not have been shared with your account. To get access to the bundle, contact the developer or NetSuite Technical Support.

Important: If you uninstall the bundle that contains the plug-in implementation, and the plug-in implementation created any custom lines, the custom lines remain in the account after the uninstall process removes the plug-in implementation. For more information, see Deleting a Custom GL Lines Plug-in Implementation.

Configure the Custom GL Lines Plug-in Implementation

Configure the transaction types, subsidiaries, and accounting books for a Custom GL Lines plug-in implementation from the Plug-In Implementation page. Any configured transaction type with an entity associated with a configured subsidiary triggers the plug-in implementation execution when you save the transaction. If you use the Multi-Book Accounting feature, NetSuite executes the plug-in implementation logic on each of the accounting books you configure for the implementation.

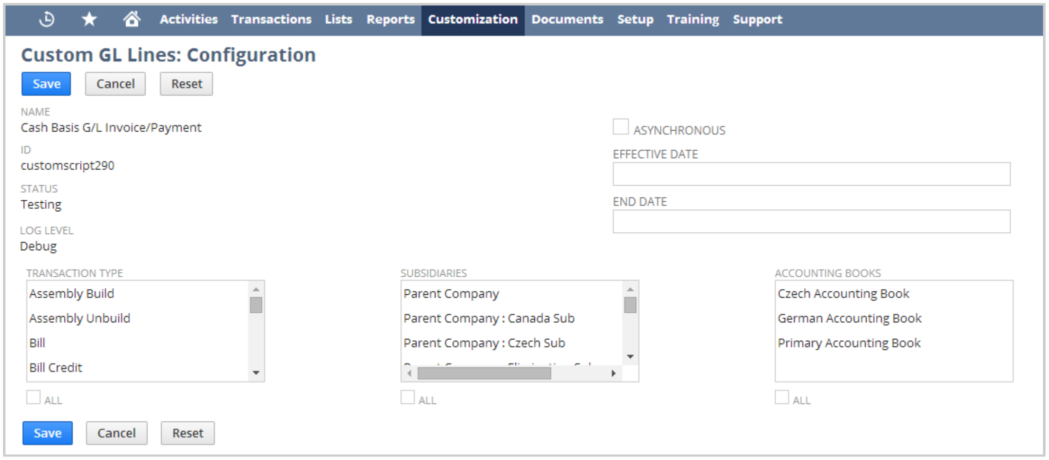
For more information on how the transaction types, subsidiaries, and accounting books affect the running of a plug-in implementation, see Custom GL Lines Plug-in Process Flow.

Note: The SuiteScript permission is required to configure a Custom GL Lines plug-in implementation.

To configure a Custom GL Lines plug-in implementation:

1. Go to Customization > Plug-ins > Plug-in Implementations.

2. Click the **Edit** link next to the Custom GL Lines plug-in implementation that you want to configure.
3. Click **Configure**. The Custom GL Lines: Configuration page appears.



Custom GL Lines: Configuration

NAME
Cash Basis G/L Invoice/Payment
ID
customscript290
STATUS
Testing
LOG LEVEL
Debug

ASYNCHRONOUS
EFFECTIVE DATE
END DATE

TRANSACTION TYPE
Assembly Build
Assembly Unbuild
Bill
Bill Credit
ALL

SUBSIDIARIES
Parent Company
Parent Company : Canada Sub
Parent Company : Czech Sub
ALL

ACCOUNTING BOOKS
Czech Accounting Book
German Accounting Book
Primary Accounting Book
ALL

4. By default, plug-ins are run synchronously. If you have multiple plug-ins on a specific transaction type, you might notice that it takes a long time to save transactions. If a transaction type takes a long time to save, you can set one or more of the plug-in implementations to run asynchronously

   Every plug-in runs independently and has access only to its own lines and the standard lines, which ensures that if one plug-in fails that the others can run. No priority is assigned to individual plug-ins, meaning that they are run in any order.
5. In the **Effective Date** field, enter a start date. The plug-in will run on transaction dates that fall on or after this date. This field is blank by default.
6. To edit or inactivate the plug-in and preserve the existing GL impact, in the **End Date** field, enter an end date for the older plug-in. The plug-in will not run on transactions dated after this date. This field is blank by default.

   If you are loading a new script for a Custom GL Plug-in implementation, on the configuration for the older version of the plug-in, enter an end date. Add the new script and create a new plug-in implementation with an effective date of the day after the end date of the old plug-in implementation.

   If you update the script used by the existing plug-in implementation file, all plug-in implementations that use the file are affected. The best practice is to add a new script file and create a new plug-in implementation with a different effective date.

   Note: If the end date of one plug-in implementation is the same as the effective date of another plug-in, both plug-ins run on that date. To ensure that plug-ins do not overlap on transaction dates, the effective date of the new plug-in should be one day after the end date of the older plug-in.

7. Select the transaction types on which the plug-in implementation executes.

   To select multiple or all transaction types, press and hold the **Ctrl** key on your keyboard, then continue selecting transaction types.

   Check the **ALL** box to select all of the transactions types for this configuration.
8. In the **Subsidiaries** list, select one or more subsidiaries, or check **ALL**.
9. In the **Accounting Books** list, select one or more accounting books, or check **ALL**
10. Click **Save**.

When configuring additional plug-ins that overlap with an existing implementation, an information message appears about running the plug-in asynchronously. You can save the configuration, but if you notice long transaction save times, consider making one or more plug-in implementations asynchronous to speed the save process.

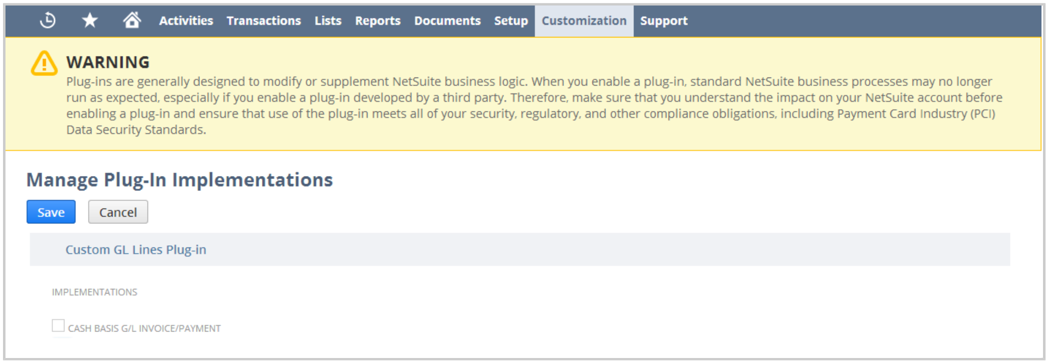
Enable the Custom GL Lines Plug-in Implementation

After you have configured a Custom GL Lines plug-in implementation, you can enable it in your account.

Note: You can have multiple Custom GL Lines plug-in implementations enabled in an account. If you enable a plug-in implementation that conflicts with an existing implementation, NetSuite displays a warning message that several implementations for one transaction can cause longer save times. You are allowed to save the implementation, however if you notice long transaction save times, you can resolve this by setting one or more plug-in implementations to run asynchronously.

To enable the Custom GL Lines plug-in implementation:

1. Go to Customization > Plug-ins > Manage Plug-ins.



WARNING
Plug-ins are generally designed to modify or supplement NetSuite business logic. When you enable a plug-in, standard NetSuite business processes may no longer run as expected, especially if you enable a plug-in developed by a third party. Therefore, make sure that you understand the impact on your NetSuite account before enabling a plug-in and ensure that use of the plug-in meets all of your security, regulatory, and other compliance obligations, including Payment Card Industry (PCI) Data Security Standards.

Manage Plug-In Implementations

Save | Cancel

Custom GL Lines Plug-in

IMPLEMENTATIONS

☐ CASH BASIS G/L INVOICE/PAYMENT

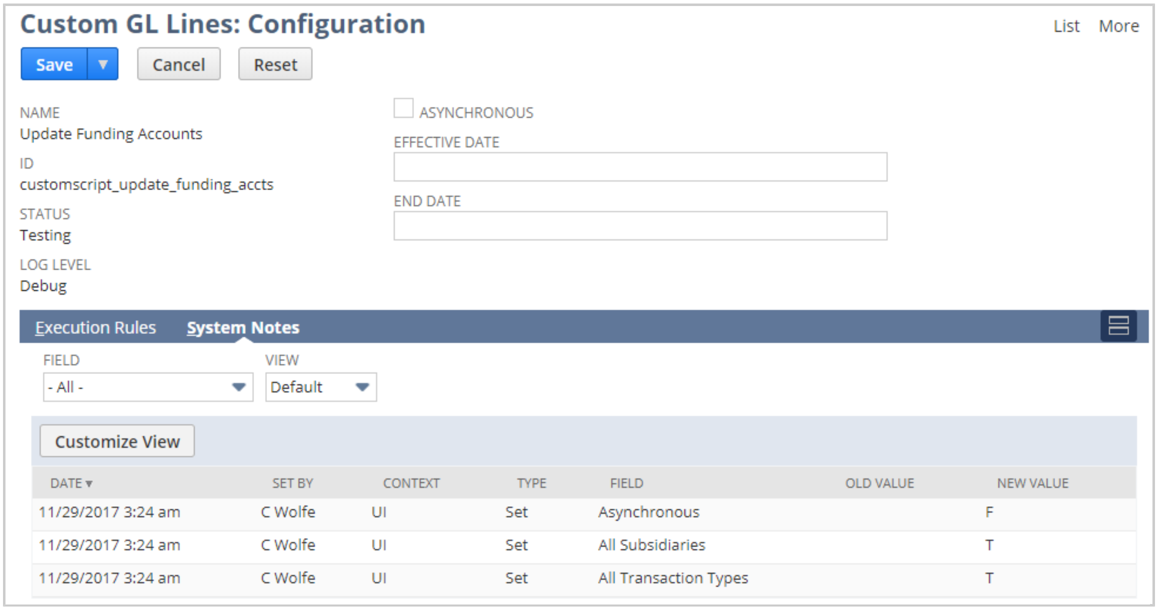
2. Under Custom GL Lines Plug-in, check the box next to the name of the plug-in implementation.
3. Click **Save**.

Note: The plug-in implementation executes when users save transactions configured for the implementation, according to the plug-in logic. Users can see the custom lines added or modified by the plug-in implementation when they click Actions > GL Impact on a saved transaction.

Custom GL Lines Plug-in Implementation System Notes

System notes are logged on custom GL lines plug-in implementations.

A System Notes subtab is available on the plug-in implementation configuration page for Custom GL Lines Plug-ins. The system notes show the changes that have been made to the plug-in implementation configuration settings.



Custom GL Lines: Configuration

NAME
Update Funding Accounts

ID
customscript_update_funding_accts

STATUS
Testing

LOG LEVEL
Debug

☐ ASYNCHRONOUS

EFFECTIVE DATE

END DATE

FIELD: - All -
VIEW: Default

DATE ▾	SET BY	CONTEXT	TYPE	FIELD	OLD VALUE	NEW VALUE
11/29/2017 3:24 am	C Wolfe	UI	Set	Asynchronous		F
11/29/2017 3:24 am	C Wolfe	UI	Set	All Subsidiaries		T
11/29/2017 3:24 am	C Wolfe	UI	Set	All Transaction Types		T

Custom GL Lines Plug-In Interface Definition

Interface Function

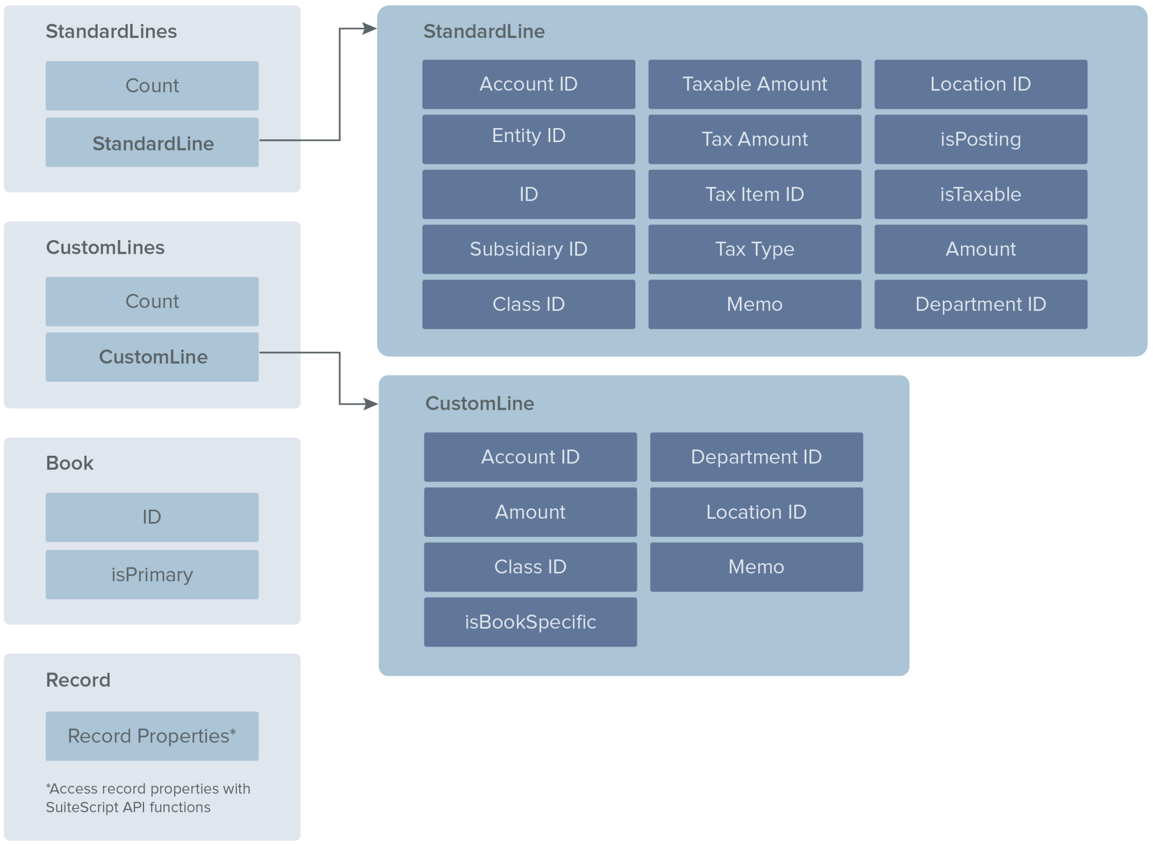
The Custom GL Lines plug-in interface includes the following functions:

Function	Description
customizeGlImpact(transactionRecord, standardLines, customLines, book)	Contains the business logic to modify the general ledger impact for a transaction with the Custom GL Lines plug-in. For more information about how NetSuite uses this function, see Custom GL Lines Plug-in Process Flow.

Important: You cannot change this function signature in a Custom GL Lines plug-in implementation.

Custom GL Lines Plug-In Object Model

The following figure shows the object model for the interface input objects:



customizeGlImpact(transactionRecord, standardLines, customLines, book)

Function Declaration	`void customizeGlImpact(Record transactionRecord, StandardLines standardLines, CustomLines customLines, AccountingBook book)`
Type	Interface function
Description	Contains the business logic to modify the general impact for a transaction with the Custom GL Lines Plug-in. Use the objects passed to this function by NetSuite to implement the following business logic in a Custom GL Lines plug-in implementation: ■ Get information about general ledger impact. Use the StandardLines object to get information about each line of general ledger impact for a transaction. ■ Create custom lines. Use the CustomLines object to create lines with general ledger impact in primary and secondary accounts for a transaction. ■ Modify how GL impact in the primary book affects the secondary books. You can create different business logic for primary and secondary accounting books. See AccountingBook. **Note:** You can also use SuiteScript API functions to access transaction record properties in a plug-in implementation. See Record.
Returns	void
Parameters	■ StandardLines ■ CustomLines ■ AccountingBook ■ Record

StandardLines

Type	Interface input object
Description	Contains an array of all standard lines with GL impact in a transaction as StandardLine objects. Standard lines are the general ledger impacts that appear on the GL Impact report for a transaction. Use this object to access individual standard lines for an accounting book in a transaction. For more information, see Custom GL Lines Plug-in Process Flow.
Methods	■ getCount() ■ getLine(index)
Child Object(s)	StandardLine

getCount()

Function Declaration	`int getCount()`
Type	Object method
Description	Returns the number of standard lines with GL impact for a specific accounting book in a transaction. Use this method in conjunction with getLine(index) to read individual standard lines.

	`getCount()` counts both visible and hidden lines on the GL Impact page. For an example of how to return only the number of visible lines, see Custom GL Lines Plug-in Guidelines and Best Practices.
Returns	int
Input Parameters	None.
Parent object	StandardLines

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   for (var i = 0; i < standardLines.getCount(); i++)
   {
      var currLine = standardLines.getLine(i);
      ...
   }
}
```

getLine(index)

Function Declaration	`StandardLine getLine(int index)`
Type	Object method
Description	Returns a StandardLine object that represents a standard line with GL impact. StandardLine objects are stored in the StandardLines object starting at index `0`.
Returns	StandardLine
Input Parameters	index {int} — Integer value for the StandardLine object at the specified position in the StandardLines object.
Parent object	StandardLines

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   for (var i = 0; i < standardLines.getCount(); i++)
   {
      var currLine = standardLines.getLine(i);
      ...
   }
}
```

StandardLine

Type	Object
Description	Contains all properties for a single standard line on the GL impact on a transaction. Use the methods available to the StandardLine object to get the values for the standard line and define

	plug-in implementation functionality based on the values. The StandardLines object has a StandardLine object for each standard GL impact line.
Methods	■ getEntityId() ■ getId() ■ getSubsidiaryId() ■ getTaxableAmount() ■ getTaxAmount() ■ getTaxItemId() ■ getTaxType() ■ isPosting() ■ isTaxable() **Note:** The StandardLine and CustomLine objects share some common methods. For more information, see Common StandardLine and CustomLine Object Methods.
Parent Object(s)	StandardLines
Child Object(s)	n/a

getEntityId()

Function Declaration	`int getEntityId()`
Type	Object method
Description	Returns the internal NetSuite ID of the entity for a standard line. The entity can be any customer, employee, partner, or vendor, depending on the type of transaction. You can use this ID, for example, to define plug-in implementation functionality based on the entity ID, to load the record for the entity with nlapiLoadRecord(type, id, initializeValues), or to search for the record with nlapiSearchRecord(type, id, filters, columns). You can look up the type of entity based on the record type. Use getRecordType() to get the record object type. See Record. **Important:** Limit the use of these APIs, where possible, to improve performance of the plug-in implementation. Also, searching for a record results in better performance than loading the record. To implement functionality based on the entity ID, you can use helper functions to avoid adding the internal NetSuite ID into the plug-in implementation logic. See Utility Files for a Custom GL Lines Plug-In Implementation.
Returns	int
Input Parameters	None.
Parent object	StandardLine

Example 1: Loading the Record

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   for (var i = 0; i < standardLines.getCount(); i++)
```

```
      {
         var currLine = standardLines.getLine(i);
         var recType = transactionRecord.getRecordType();
         if (recType == 'salesorder')
         {
            var custRecord = nlapiLoadRecord('customer',currLine.getEntityId());
            // get record properties here
            ...
         }
      ...
      }
   }
```

Example 2: Searching for the Record

```
   // utility function
   function searchNeededPropertiesOfCustomer(customerId)
   {
      var searchFilters = new Array();
      searchFilters[0] = new nlobjSearchFilter('internalid', null, 'anyof', customerId);
      var savedSearchResults = nlapiSearchRecord('customer', 'customsearch_script_id', searchFi
lters);

      if (savedSearchResults != null && savedSearchResults.length > 0)
      {
         return savedSearchResults[0];
      }
      return null;
   }

   function customizeGlImpact(transactionRecord, standardLines, customLines, book)
   {
      ...
      for (var i = 0; i < standardLines.getCount(); i++)
      {
         var currLine = standardLines.getLine(i);
         var recType = transactionRecord.getRecordType();
         if (recType == 'salesorder')
         {
         // nlobjSearchResult
         var custMap = searchNeededPropertiesOfCustomer(currLine.getEntityId());
         // get search columns here
         ...
         }
         ...
      }
   }
```

getId()

Function Declaration	`int getId()`
Type	Object method

Description	Returns the internal NetSuite database ID for a standard GL impact line. The summary line for the GL impact on a transaction occurs for most transaction types at ID of 0. Some transactions, like journals, do not have a summary line. You can use the summary information to define plug-in implementation functionality based on the values in the summary line. **Note:** The summary line for the GL impact on a transaction does not include tax information.
Returns	int
Input Parameters	None.
Parent object	StandardLine

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   for (var i = 0; i < standardLines.getCount(); i++)
   {
      var currLine = standardLines.getLine(i);
      if (currLine.getId() == 0)
      {
         // it’s a summary line
      }
   ...
   }
}
```

getSubsidiaryId()

Function Declaration	`int getSubsidiaryId()`
Type	Object method
Description	Returns the internal NetSuite ID of the subsidiary for the entity associated with a standard GL impact line. You can view all subsidiaries and the associated internal IDs in NetSuite at Setup > Company > Subsidiaries. You can use this ID, for example, to define plug-in implementation functionality based on the subsidiary ID, to load the record for the subsidiary with nlapiLoadRecord(type, id, initializeValues), or to search for the record with nlapiSearchRecord(type, id, filters, columns). The type parameter for a subsidiary is `subsidiary`. **Important:** Limit the use of these APIs, where possible, to improve performance of the plug-in implementation. Also, searching for a record results in better performance than loading the record. You can use helper functions in a utility file to avoid adding the internal NetSuite IDs into the plug-in implementation logic. See Utility Files for a Custom GL Lines Plug-In Implementation.
Returns	int
Input Parameters	None.

Parent object	StandardLine

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   for (var i = 0; i < standardLines.getCount(); i++)
   {
      var currLine = standardLines.getLine(i);
      var subId = currLine.getSubsidiaryId();
      ...
      var subRecord = nlapiLoadRecord('subsidiary',subId,'');
      ...
      }
   ...
   }
}
```

getTaxableAmount()

Function Declaration	`string getTaxableAmount()`
Type	Object method
Description	Returns a string that represents the amount of a standard GL line that was subject to tax. Returns 0 if the line was not subject to tax. Use this method with getTaxAmount(), getTaxItemId(), and getTaxType() to get the tax information for a standard GL impact line. You can use helper functions in a utility file to avoid adding the internal NetSuite IDs into the plug-in implementation logic. See Utility Files for a Custom GL Lines Plug-In Implementation.
Returns	string
Input Parameters	None.
Parent object	StandardLine

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   for (var i = 0; i < standardLines.getCount(); i++)
   {
      var currLine = standardLines.getLine(i);
      // check tax
      if (currLine.getTaxItemId() != -7) // taxable transaction
      {
         var taxType = currLine.getTaxType();
         if (taxType == "US_ST")
         {
            // process state taxes
            var taxAmt = currLine.getTaxAmount();
            var taxableAmt = currLine.getTaxableAmount();
            ...
         }
      }
   ...
   }
}
```

getTaxAmount()

Function Declaration	`string getTaxAmount()`
Type	Object method
Description	Returns a string that represents the amount of tax charged on a standard GL line. This method only returns a value other than 0 if the standard line is a credit to a tax account. For example, if a standard line on a taxable transaction contains a credit value of 10.00 for an account of type Other Current Liability, this method returns -10. Use this method with getTaxableAmount(), getTaxItemId(), and getTaxType() to get the tax information for a standard GL impact line.
Returns	string
Input Parameters	None.
Parent object	StandardLine

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   for (var i = 0; i < standardLines.getCount(); i++)
   {
      var currLine = standardLines.getLine(i);
      // check tax
      if (currLine.getTaxItemId() != -7) // taxable transaction
      {
         var taxType = currLine.getTaxType();
         if (taxType == "US_ST")
         {
            // process state taxes
            var taxAmt = currLine.getTaxAmount();
            var taxableAmt = currLine.getTaxableAmount();
            ...
         }
      }
   ...
   }
}
```

getTaxItemId()

Function Declaration	`int getTaxItemId()`

Type	Object method
Description	Returns the internal NetSuite ID of the tax code for a standard GL line. Returns null if the line was not subject to tax or if the line does not credit a tax account with a tax liability. You can use this ID to define plug-in implementation functionality based on the tax code. For example, a tax code of -7 indicates the line was not subject to tax. You can view all tax codes in NetSuite at Setup > Accounting > Tax Codes. You can use helper functions in a utility file to avoid adding the internal NetSuite IDs into the plug-in implementation logic. See Utility Files for a Custom GL Lines Plug-In Implementation. Use this method with getTaxableAmount(), getTaxAmount(), and getTaxType() to get the tax information for a standard GL impact line.
Returns	int
Input Parameters	None.
Parent object	StandardLine

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   for (var i = 0; i < standardLines.getCount(); i++)
   {
      var currLine = standardLines.getLine(i);
      // check tax
      if (currLine.getTaxItemId() != -7) // taxable transaction
      {
         var taxType = currLine.getTaxType();
         if (taxType == "US_ST")
         {
            // process state taxes
            var taxAmt = currLine.getTaxAmount();
            var taxableAmt = currLine.getTaxableAmount();
            ...
         }
      }
   ...
   }
}
```

getTaxType()

Function Declaration	`string getTaxType()`
Type	Object method
Description	Returns the tax type for a standard GL line that was subject to tax. Returns null if the standard line was not subject to tax. You can use this ID to define plug-in implementation functionality based on the tax type. You can view all tax types in NetSuite at Setup > Accounting > Tax Types. Use this method with getTaxableAmount(), getTaxAmount(), and getTaxItemId() to get the tax information for a standard GL impact line.
Returns	string

Input Parameters	None.
Parent object	StandardLine

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   for (var i = 0; i < standardLines.getCount(); i++)
   {
      var currLine = standardLines.getLine(i);
      // check tax
      if (currLine.getTaxItemId() != -7) // taxable transaction
      {
         var taxType = currLine.getTaxType();
         if (taxType == "US_ST")
         {
            // process state taxes
            var taxAmt = currLine.getTaxAmount();
            var taxableAmt = currLine.getTaxableAmount();
            ...
         }
      }
   ...
   }
}
```

isPosting()

Function Declaration	`boolean isPosting()`
Type	Object method
Description	Returns `true` if the transaction is a posting transaction and the associated standard GL impact line posts to the general ledger. Returns `false` if the transaction is a non-posting transaction. NetSuite transactions can be posting, non-posting, or posting with approval. For example, journal entries do not post without approval. For more information, see the help topic General Ledger Impact of Transactions.
Returns	boolean
Input Parameters	None.
Parent object	StandardLine

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   // find all posting lines
   for (var i = 0; i < standardLines.getCount(); i++)
   {
         var currLine = standardLines.getLine(i);
            if (currLine.isPosting())
            {
               // process standard line here
            }
      }
      ...
   }
```

isTaxable()

Function Declaration	`boolean isTaxable()`
Type	Object method
Description	Returns `true` if a standard GL impact line is a credit to a tax account. For example, if a standard line on a taxable transaction contains a credit value of 10.00 for an account of type Other Current Liability, this method returns `true`.
Returns	boolean
Input Parameters	None.
Parent object	StandardLine

Example

```
   function customizeGlImpact(transactionRecord, standardLines, customLines, book)
   {
      ...
      // find all taxable lines
      for (var i = 0; i < standardLines.getCount(); i++)
      {
         var currLine = standardLines.getLine(i);
            if (currLine.isTaxable())
            {
               // process tax here
            }
      }
      ...
   }
```

CustomLines

Type	Interface input object
Description	Contains an array of all custom lines with GL impact in a transaction as CustomLine objects. Use this object to add and modify custom lines with GL impact on a transaction. Create a new CustomLine object with addNewLine(). For more information, see Custom GL Lines Plug-in Process Flow.
Methods	■ addNewLine()

- getCount()
- getLine(index)

Child Object(s)	CustomLine

addNewLine()

Function Declaration	`CustomLine addNewLine()`
Type	Object method
Description	Adds a CustomLine object to the parent CustomLines object in a Custom GL Lines plug-in implementation and returns the new object. Use this method to add a custom line with GL impact to a transaction. After you create the custom line, use the methods available to the CustomLine object to set the properties of the custom line, including the general ledger account ID and the amount of the custom line. **Note:** If you use the Multi-Book Accounting feature and want this line to be copied to the secondary accounting books, use setBookSpecific(bookSpecific).
Returns	CustomLine
Input Parameters	None.
Parent object	CustomLines

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   var newLine = customLines.addNewLine();
   newLine.setCreditAmount(standardLines.getLine(0).getCreditAmount());
   newLine.setAccountId(standardLines.getLine(0).getAccountId());
   newLine.setMemo("Payment catches both revenue and cash.");
   ...
   var newLine = customLines.addNewLine();
   newLine.setDebitAmount(standardLines.getLine(1).getDebitAmount());
   newLine.setAccountId(standardLines.getLine(1).getAccountId());
   newLine.setMemo("Payment catches both revenue and cash.");
   ...
}
```

getCount()

Function Declaration	`int getCount()`
Type	Object method
Description	Returns the number of custom lines with GL impact for a specific accounting book in a transaction. These lines are added with addNewLine(). Use this method in conjunction

	with getLine(index) to get individual custom lines after you add them in the plug-in implementation.
Returns	int
Input Parameters	None.
Parent object	CustomLines

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   for (var i = 0; i < customLines.getCount(); i++)
   {
      // get the line
      var currLine = customLines.getLine(i);
      ...
   }
}
```

getLine(index)

Function Declaration	`CustomLine getLine(int index)`
Type	Object method
Description	Returns a CustomLine object that represents a custom line with GL impact. CustomLine objects are stored in the CustomLines object starting at index `0`.
Returns	CustomLine
Input Parameters	index {int} — Integer value for the CustomLine object at the specified position in the CustomLines object.
Parent object	CustomLines

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   for (var i = 0; i < customLines.getCount(); i++)
   {
      // get the line
      var currLine = customLines.getLine(i);
      ...
   }
}
```

CustomLine

Type	Object

Description	Contains all properties for a single custom line for the GL impact on a transaction. Use the methods available to the CustomLine object to set the values for the custom line and define plug-in implementation functionality based on the values. The CustomLines object contains a reference to each custom GL impact line. Create a new CustomLine object with addNewLine().
Methods	■ isBookSpecific() ■ setBookSpecific(bookSpecific) ■ setAccountId(accountId) ■ setClassId(classId) ■ setCreditAmount(credit) ■ setDebitAmount(debit) ■ setDepartmentId(departmentId) ■ setEntityId(entityId) ■ setLocationId(locationId) ■ setMemo(memo) ■ setSegmentValueId(segmentId, segmentValueId) **Note:** The StandardLine and CustomLine objects share some common methods. For more information, see Common StandardLine and CustomLine Object Methods.
Parent Object(s)	CustomLines
Child Object(s)	n/a

isBookSpecific()

Function Declaration	`boolean isBookSpecific()`
Type	Object method
Description	Returns `true` if the custom line is specific to the primary book and should not be copied to the secondary accounting books. Returns `false` if the custom line is not specific to the primary accounting book. **Note:** This method only applies if you use the Multi-Book Accounting feature and the method is being called for the primary accounting book. For more information about how the plug-in implementation processes book-specific lines, see Custom GL Lines Plug-in Process Flow.
Returns	boolean
Input Parameters	None.
Parent object	CustomLine

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
```

```
      if(book.isPrimary())
      {
         // set all custom lines to apply to all books
         for (var i = 0; i < customLines.getCount(); i++)
         {
            var currLine = customLines.getLine(i);
            if (currline.isBookSpecific())
            {
               currLine.setBookSpecific(false);
               ...
            }
         }
      }
      ...
   }
```

setBookSpecific(bookSpecific)

Function Declaration	`void setBookSpecific(boolean bookSpecific)`
Type	Object method
Description	Sets a custom GL impact line to affect only the primary book in a Custom GL plug-in implementation. If you use this method and set the value to `false`, the plug-in implementation copies the custom line to secondary books and the custom line is also subject to the any mapping set up for the Multi-Book Accounting feature. If you do not use this method or set the value to `true`, the custom GL impact line only applies to the primary accounting book and is not copied to secondary accounting books.
Returns	void
Input Parameters	bookSpecific {boolean} — Use `true` to make the custom line specific to the primary accounting book. Use `false` to direct NetSuite to copy the custom line to secondary accounting books.
Parent object	CustomLine

Example

```
   function customizeGlImpact(transactionRecord, standardLines, customLines, book)
   {
      ...
      if (book.isPrimary())
      {
         // set all custom lines to be specific to the primary book
         for (var i = 0; i < customLines.getCount(); i++)
         {
            var currLine = customLines.getLine(i);
            if (!currline.isBookSpecific())
            {
               currLine.setBookSpecific(true);
               ...
            }
         }
      }
      ...
   }
```

setAccountId(accountId)

Function Declaration	`void setAccountId(int accountId)`
Type	Object method
Description	Sets the account ID property for a CustomLine object in a primary or secondary book. This value is the internal NetSuite ID for a general ledger account. You must use this method to set the account to be debited or credited for a custom line. You can view the internal NetSuite ID for all accounts on the Chart of Accounts page at Setup > Accounting > Chart of Accounts. You can use helper functions in a utility file to customize the internal NetSuite account IDs in the plug-in implementation logic. See Utility Files for a Custom GL Lines Plug-In Implementation.
Returns	void
Input Parameters	accountId {int} — Internal NetSuite ID for an account.
Parent object	CustomLine

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   var newLine = customLines.addNewLine();
   newLine.setCreditAmount(standardLines.getLine(0).getCreditAmount());
   newLine.setAccountId(standardLines.getLine(0).getAccountId());
   newLine.setMemo("Payment catches both revenue and cash.");
   ...
   var newLine = customLines.addNewLine();
   newLine.setDebitAmount(standardLines.getLine(1).getDebitAmount());
   newLine.setAccountId(standardLines.getLine(1).getAccountId());
   newLine.setMemo("Payment catches both revenue and cash.");
   ...
}
```

setClassId(classId)

Function Declaration	`void setClassId(int classId)`
Type	Object method
Description	Sets the class ID property for a CustomLine object in a primary or secondary book. This value is the internal NetSuite ID for a class. Classes are categories that you can create to track records such as financials, transactions, and employees. You can view all classes defined in NetSuite at Setup > Company > Classes. See also getClassId(). You can use helper functions in a utility file to avoid adding the internal NetSuite IDs into the plug-in implementation logic. See Utility Files for a Custom GL Lines Plug-In Implementation.
Returns	void
Input Parameters	classId {int} — Internal NetSuite ID for a class.
Parent object	CustomLine

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   var context = nlapiGetContext();
   var makeClassesMandatory = context.getPreference('classmandatory');
   var allowPerLineClasses = context.getPreference('classesperline');
   ...
   var newLine = customLines.addNewLine();
   ...
   if (makeClassesMandatory || allowPerLineClasses)
   {
      var classId = getClassForItem(itemId);
      newLine.setClassId(classId);
   }
   ...
}

// Utility methods
function getClassForItem(itemId)
{
   ...
   return classId;
}
```

setCreditAmount(credit)

Function Declaration	`void setCreditAmount(credit)`
Type	Object method
Description	Sets the credit amount of a CustomLine object in a primary or secondary book. To set a debit amount, use setDebitAmount(debit). **Note:** The currency for the amount of the custom line depends on the subsidiary and accounting book to which the GL impact posts. For example, if the accounting book being processed by the plug-in implementation uses USD, the currency for the amount set by this method is USD. For more information, see Multiple Currencies Examples.
Returns	void
Input Parameters	credit {string} — String value of a credit on a general ledger account. Requires a positive value.
Parent object	CustomLine

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   var newLine = customLines.addNewLine();
   newLine.setCreditAmount(standardLines.getLine(0).getCreditAmount());
   newLine.setAccountId(standardLines.getLine(0).getAccountId());
   newLine.setMemo("Payment catches both revenue and cash.");
```

```
    ...
    var newLine = customLines.addNewLine();
    newLine.setDebitAmount(standardLines.getLine(1).getDebitAmount());
    newLine.setAccountId(standardLines.getLine(1).getAccountId());
    newLine.setMemo("Payment catches both revenue and cash.");
    ...
}
```

setDebitAmount(debit)

Function Declaration	`void setDebitAmount(debit)`
Type	Object method
Description	Sets the debit amount of a CustomLine object in a primary or secondary book. To set a credit amount, use setCreditAmount(credit). **Note:** The currency for the amount on the custom line depends on the accounting book to which the GL impact posts. For example, if the accounting book being processed by the plug-in implementation uses USD, the currency for the amount set by this method is USD. For more information, see Multiple Currencies Examples.
Returns	void
Input Parameters	debit {string} — String value of a debit on a general ledger account. Requires a positive value.
Parent object	CustomLine

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
    ...
    var newLine = customLines.addNewLine();
    newLine.setCreditAmount(standardLines.getLine(0).getCreditAmount());
    newLine.setAccountId(standardLines.getLine(0).getAccountId());
    newLine.setMemo("Payment catches both revenue and cash.");
    ...
    var newLine = customLines.addNewLine();
    newLine.setDebitAmount(standardLines.getLine(1).getDebitAmount());
    newLine.setAccountId(standardLines.getLine(1).getAccountId());
    newLine.setMemo("Payment catches both revenue and cash.");
    ...
}
```

setDepartmentId(departmentId)

Function Declaration	`void setDepartmentId(int departmentId)`
Type	Object method
Description	Sets the department ID for a CustomLine object in a primary or secondary book. This value is the internal NetSuite ID for a department.

	Departments are listed first on transactions, and are useful when designating transactions and employees as part of an internal team. You can view all departments defined in NetSuite at Setup > Company > Departments. See also getDepartmentId(). You can use helper functions in a utility file to avoid adding the internal NetSuite IDs into the plug-in implementation logic. You can also access the nlobjContext object with nlapiGetContext() to get the preferences for locations at Setup > Accounting > Accounting Preferences.
Returns	void
Input Parameters	departmentId {int} — Internal NetSuite ID for a department.
Parent object	CustomLine

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   var context = nlapiGetContext();
   var makeDepartmentsMandatory = context.getPreference('deptmandatory');
   var allowPerLineDepartments = context.getPreference('deptsperline');
   ...
   var newLine = customLines.addNewLine();
   ...
   if (makeDepartmentsMandatory || allowPerLineDepartments)
   {
      var departmentId = getDepartmentForItem(itemId);
      newLine.setDepartmentId(departmentId);
   }
   ...
}

   // Utility methods
function getDepartmentForItem(itemId)
{
   ...
   return departmentId;
}
```

setEntityId(entityId)

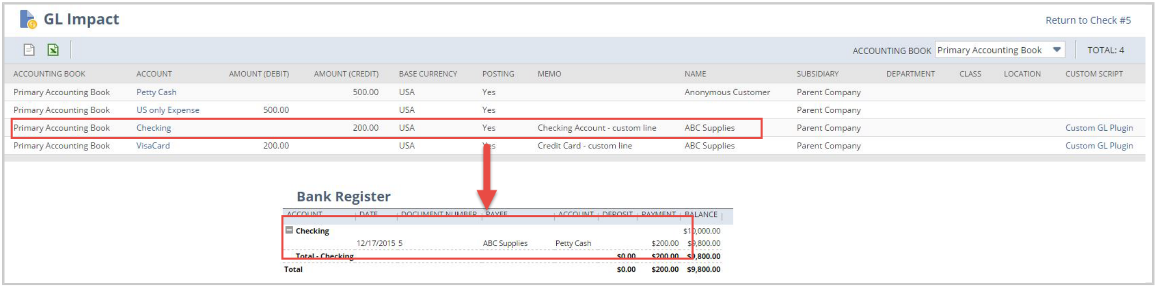
Function Declaration	`void setEntityId(int entityId)`
Type	Object method
Description	Sets the entity ID property for a CustomLine object in a primary or secondary book to the internal NetSuite ID Supported entity types include: ■ Customers ■ Jobs ■ Leads ■ Prospects ■ Vendors ■ Employees ■ Other Names

	The following restrictions apply to setting of entities on custom GL lines: ▪ Setting of a vendor is not supported on lines with an Accounts Payable account type. ▪ Setting of a customer is not supported on lines with an Accounts Receivable account type. ▪ Creating book-specific custom GL lines with an AP or AR account and entity combination. Only generic custom GL lines can be created with this combination. ▪ Only entities that have the same subsidiary as a transaction can be set on lines for that transaction. ▪ Only entities that have the same currency as a transaction can be set on lines for that transaction. ▪ Entities must be active **Note:** This method does not set the sales representative for the line, and it does not change the date of the first sale for the customer.
Returns	void
Input Parameters	entityId {int} — internal NetSuite ID for an entity
Parent object	CustomLine

Example

```
function customizeGlImpact(record, standardLines, customLines, book)
{
      var line = customLines.addNewLine()
      line.setAccountId(6)
      line.setDebitAmount(100)
      line.setEntityId(99)

      line = customLines.addNewLine()
      line.setAccountId(7)
      line.setCreditAmount(100)
}
```

Reports that include GL information and are grouped by entity include custom GL information, if the entity is supported by the new method.



ACCOUNTING BOOK	ACCOUNT	AMOUNT (DEBIT)	AMOUNT (CREDIT)	BASE CURRENCY	POSTING	MEMO	NAME	SUBSIDIARY	DEPARTMENT	CLASS	LOCATION	CUSTOM SCRIPT
Primary Accounting Book	Petty Cash		500.00	USA	Yes		Anonymous Customer	Parent Company				
Primary Accounting Book	US only Expense	500.00		USA	Yes			Parent Company				
Primary Accounting Book	Checking		200.00	USA	Yes	Checking Account - custom line	ABC Supplies	Parent Company				Custom GL Plugin
Primary Accounting Book	VisaCard	200.00		USA	Yes	Credit Card - custom line	ABC Supplies	Parent Company				Custom GL Plugin

Bank Register

ACCOUNT	DATE	DOCUMENT NUMBER	PAYEE	ACCOUNT	DEPOSIT	PAYMENT	BALANCE
Checking							$10,000.00
	12/17/2015	5	ABC Supplies	Petty Cash		$200.00	$9,800.00
Total - Checking					**$0.00**	**$200.00**	**$9,800.00**
Total					**$0.00**	**$200.00**	**$9,800.00**

setLocationId(locationId)

Function Declaration	`void setLocationId(int locationId)`

Type	Object method
Description	Sets the location ID for a CustomLine object in a primary or secondary book. This value is the internal NetSuite ID for a location. Use locations to track information about employees and transactions for multiple offices or warehouses. You can view all locations defined in NetSuite at Setup > Company > Locations. See also getLocationId(). You can use helper functions in a utility file to avoid adding the internal NetSuite IDs into the plug-in implementation logic. You can also access the nlobjContext object with nlapiGetContext() to get the preferences for locations at Setup > Accounting > Accounting Preferences.
Returns	void
Input Parameters	locationId {int} — Internal NetSuite ID for a location.
Parent object	CustomLine

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
   {
      var context = nlapiGetContext();
      var makeLocationsMandatory = context.getPreference('locmandatory');
      var allowPerLineLocations = context.getPreference('locsperline');
      ...
      var newLine = customLines.addNewLine();
      ...
      if (makeLocationsMandatory || allowPerLineLocations)
      {
         var locationId = getLocationForItem(itemId);
         newLine.setLocationId(locationId);
      }
      ...
   }

   // Utility methods
   function getLocationForItem(itemId)
   {
      ...
      return locationId;
   }
```

setMemo(memo)

Function Declaration	`void setMemo(string memo)`
Type	Object method
Description	Sets the Memo field on a CustomLine object. See also getMemo().
Returns	void
Input Parameters	memo {string} — String text for the Memo field.
Parent object	StandardLine, CustomLine

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   var newLine = customLines.addNewLine();
   newLine.setCreditAmount(standardLines.getLine(0).getCreditAmount());
   newLine.setAccountId(standardLines.getLine(0).getAccountId());
   newLine.setMemo("Payment catches both revenue and cash.");
   ...
   var newLine = customLines.addNewLine();
   newLine.setDebitAmount(standardLines.getLine(1).getDebitAmount());
   newLine.setAccountId(standardLines.getLine(1).getAccountId());
   newLine.setMemo("Payment catches both revenue and cash.");
   ...
}
```

setSegmentValueId(segmentId, segmentValueId)

Function Declaration	`void setSegmentValueId(segmentId, segmentValueId)`
Type	Object method
Description	Sets custom segment values on a CustomLine object NetSuite assigns custom segment values as follows: ▪ If the custom segment has a body and lines, the value is copied from the body to all lines. The plug-in can be used to change the value of the lines. ▪ If the custom segment has only a body, the value is copied from the body to all lines. The plug-in can be used to change the value. ▪ If the custom segment has only a line value, no values are copied.
Returns	void
Input Parameters	segmentId {string} — String value of the custom segment ID segmentValue {integer} — Integer value that the custom line should be set to
Parent object	CustomLines

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
    ...
    var newLine = customLines.addNewLine();
    ...
    // custom function for getting value for cost center segment
    newLine.setSegmentValueId('csegcostcenter', getCostCenterValueForItem(itemId));
    // using constant for region segment
    newLine.setSegmentValueId('csegregion', 3);
    // copying segment value from line 0 for work center segment
    var workcenter = 'csegworkcenter'
    newLine.setSegmentValueId(workcenter, standardLines.getLine(0).getSegmentValueId(workcenter
));
    ...
}
// Utility methods
function getCostCenterValueForItem(itemId)
```

```
{
    ...
    return valueId;
}
```

AccountingBook

Type	Interface input object
Description	Represents the accounting book passed to a Custom GL Lines plug-in implementation when you save a transaction. Use the methods available to the book object to determine if the book is a primary or secondary book or get the internal NetSuite ID of the accounting book. If you use the Multi-Book Accounting feature, the AccountingBook object represents a different accounting book each time the plug-in implementation executes. For more information, see Custom GL Lines Plug-in Process Flow.
Methods	■ getId() ■ isPrimary()
Child Object(s)	n/a

getId()

Function Declaration `int getId()`

Type Object method

Description Returns the internal NetSuite ID for the accounting book to be passed to a Custom GL Lines plug-in implementation. You can use this ID, for example, to load the accounting book record with the nlapiLoadRecord(type, id, initializeValues) SuiteScript API.
You can use this ID, for example, to define plug-in implementation functionality based on the accounting book ID, to load the record for the book with nlapiLoadRecord(type, id, initializeValues), or to search for the record with nlapiSearchRecord(type, id, filters, columns). The type for an accounting book record is `accountingbook`.

> **Important:** Limit the use of these APIs, where possible, to improve performance of the plug-in implementation. Also, searching for a record results in better performance than loading the record.

You can view the list of internal NetSuite IDs for accounting books at Setup > Accounting > Accounting Books.
You can also use helper functions in a utility file to avoid adding the internal NetSuite IDs into the plug-in implementation logic. See Utility Files for a Custom GL Lines Plug-In Implementation.

Returns int

Input Parameters None.

Parent object AccountingBook

Example

```
  function customizeGlImpact(transactionRecord, standardLines, customLines, book)
  {
     ...
     var bookId = book.getId();
     if (!book.isPrimary())
     {
        var bookRec = nlapiLoadRecord('accountingbook',bookId);
        ...
     }
     ...
  }
```

isPrimary()

Function Declaration	`boolean isPrimary()`
Type	Object method
Description	Returns `true` if the book object is the primary accounting book for the NetSuite account or returns `false` if the accounting book is a secondary accounting book.
Returns	boolean
Input Parameters	None.
Parent object	AccountingBook

Example

```
 function customizeGlImpact(transactionRecord, standardLines, customLines, book)
 {
    ...
    var bookId = book.getId();
    if (book.isPrimary())
    {
       var bookRec = nlapiLoadRecord('accountingbook',bookId);
       ...
    }
    ...
 }
```

Record

Type	Interface input object
Description	Represents the current transaction record object passed to a Custom GL Lines plug-in implementation. Use the SuiteScript API functions available to the Record object to access field values on the transaction. **Note:** You can only use functions to read values from the transaction record. You cannot write data to the transaction record.
Methods	See the following table for details on the available methods and the help topic nlobjRecord in the Help Center.

Parent Object(s)	n/a
Child Object(s)	n/a

Record Methods

Function	Description
getAllFields()	Returns a normal keyed array of all the fields on a record.
getAllLineItemFields(group)	Returns an array of all the field names of a sublist on the record.
getFieldText(name)	Returns the UI display value for a select field.
getFieldTexts(name)	Returns the UI display values for a multi-select field.
getFieldValue(name)	Returns the value (internal ID) of a field.
getFieldValues(name)	Returns the value (field ID) or values (array of field IDs) of a multi-select field.
getId()	Use this method to get the internal ID of a record when editing an existing transaction.
getLineItemCount(group)	Returns the number of lines on a sublist.
getLineItemText(group, fldnam, linenum)	Returns the display name of a select field (based on its current selection) in a sublist.
getLineItemValue(group, name, linenum)	Returns the value of a sublist line item field.
getLineItemValues(type, fldnam, linenum)	Returns the values of a multiselect sublist field on a selected line.
getRecordType()	Returns the record type. For example, returns `Unbuild` for the Assembly Unbuild record type or returns `SalesOrd` for the Sales Order record type.
viewLineItemSubrecord(sublist, fldname, linenum)	Returns a nlobjSubrecord object. Use this API to view a subrecord from a **sublist** field on the parent record.
viewSubrecord(fldname)	Returns a nlobjSubrecord object. Use this API to view a subrecord from a **body** field on the parent record. NetSuite returns CANNOT_EDIT_SUBRECORD if you attempt to edit the subrecord returned by this function.

Common StandardLine and CustomLine Object Methods

The following object methods are referenced by both the StandardLine and CustomLine objects:

- getAccountId()
- getClassId()
- getCreditAmount()
- getDebitAmount()
- getDepartmentId()

- getEntityId()
- getLocationId()
- getMemo()
- getSegmentValueId(segmentId)

getAccountId()

Function Declaration	`int getAccountId()`
Type	Object method
Description	Returns the internal NetSuite account ID for a StandardLine or CustomLine object. This account ID represents the NetSuite general ledger account to which a credit or debit is applied on the GL impact for a transaction. Use this ID to define plug-in implementation functionality based on the credited or debited account. See also setAccountId(accountId). You can view the internal NetSuite ID for all accounts on the Chart of Accounts page at Setup > Accounting > Chart of Accounts. You can use helper functions in a utility file to avoid adding the internal NetSuite IDs into the plug-in implementation logic. See Utility Files for a Custom GL Lines Plug-In Implementation.
Returns	int
Input Parameters	None.
Parent object	StandardLine, CustomLine

Example

```
function customizeGlImpact(record, standardLines, customLines, book)
{
   ...
   var newLine = customLines.addNewLine();
   newLine.setCreditAmount(standardLines.getLine(0).getCreditAmount());
   newLine.setAccountId(standardLines.getLine(0).getAccountId());
   newLine.setMemo("Payment catches both revenue and cash.");
   ...
   var newLine = customLines.addNewLine();
   newLine.setDebitAmount(standardLines.getLine(1).getDebitAmount());
   newLine.setAccountId(standardLines.getLine(1).getAccountId());
   newLine.setMemo("Payment catches both revenue and cash.");
   ...
}
```

getClassId()

Function Declaration	`int getClassId()`
Type	Object method
Description	Returns the internal NetSuite ID for the class on a StandardLine or CustomLine object. Use this method to define plug-in implementation functionality based on the class for a GL impact line. See also setClassId(classId).

	Classes are categories that you can create to track records such as financials, transactions, and employees. You can view all classes defined in NetSuite at Setup > Company > Classes. You can use helper functions in a utility file to avoid adding the internal NetSuite IDs into the plug-in implementation logic. See Utility Files for a Custom GL Lines Plug-In Implementation.
Returns	int
Input Parameters	None.
Parent object	StandardLine, CustomLine

Example

```
function customizeGlImpact(record, standardLines, customLines, book)
{
   ...
   var context = nlapiGetContext();
   var makeClassesMandatory = context.getPreference('classmandatory');
   var allowPerLineClasses = context.getPreference('classesperline');
   ...
   var newLine = customLines.addNewLine();

   if (makeClassesMandatory || allowPerLineClasses)
   {
      // can also optionally set class
      newLine.setClassId(standardLines.getLine(0).getClassId());
   }
   ...
}
```

getCreditAmount()

Function Declaration	`string getCreditAmount()`
Type	Object method
Description	Returns the credit amount for a StandardLine or CustomLine object. Use this method to define plug-in implementation functionality based on the credited amount for a GL impact line. See also setCreditAmount(credit).
Returns	string
Input Parameters	None.
Parent object	StandardLine, CustomLine

Example

```
function customizeGlImpact(record, standardLines, customLines, book)
{
   ...
   var newLine = customLines.addNewLine();
   newLine.setCreditAmount(standardLines.getLine(0).getCreditAmount());
   newLine.setAccountId(standardLines.getLine(0).getAccountId());
   newLine.setMemo("Payment catches both revenue and cash.");
```

```
      ...
      var newLine = customLines.addNewLine();
      newLine.setDebitAmount(standardLines.getLine(1).getDebitAmount());
      newLine.setAccountId(standardLines.getLine(1).getAccountId());
      newLine.setMemo("Payment catches both revenue and cash.");
      ...
   }
```

getDebitAmount()

Function Declaration	`string getDebitAmount()`
Type	Object method
Description	Returns the debit amount for a StandardLine or CustomLine object. Use this method to define plug-in implementation functionality based on the debited amount for a GL impact line. See also setDebitAmount(debit).
Returns	string
Input Parameters	None.
Parent object	StandardLine, CustomLine

Example

```
   function customizeGlImpact(record, standardLines, customLines, book)
   {
      ...
      var newLine = customLines.addNewLine();
      newLine.setCreditAmount(standardLines.getLine(0).getCreditAmount());
      newLine.setAccountId(standardLines.getLine(0).getAccountId());
      newLine.setMemo("Payment catches both revenue and cash.");
      ...
      var newLine = customLines.addNewLine();
      newLine.setDebitAmount(standardLines.getLine(1).getDebitAmount());
      newLine.setAccountId(standardLines.getLine(1).getAccountId());
      newLine.setMemo("Payment catches both revenue and cash.");
      ...
   }
```

getDepartmentId()

Function Declaration	`int getDepartmentId()`
Type	Object method
Description	Returns the internal NetSuite ID for the department on a StandardLine or CustomLine object. Use this method to define plug-in implementation functionality based on the department for a GL impact line. See also setDepartmentId(departmentId). Departments are listed first on transactions, and are useful when designating transactions and employees as part of an internal team. You can view all departments defined in NetSuite at Setup > Company > Departments.

	You can use helper functions in a utility file to avoid adding the internal NetSuite IDs into the plug-in implementation logic. See Utility Files for a Custom GL Lines Plug-In Implementation.
Returns	int
Input Parameters	None.
Parent object	StandardLine, CustomLine

Example

```
function customizeGlImpact(record, standardLines, customLines, book)
{
   ...
   var context = nlapiGetContext();
   var makeDepartmentsMandatory = context.getPreference('deptmandatory');
   var allowPerLineDepartments = context.getPreference('deptsperline');
   ...
   var newLine = customLines.addNewLine();

   if (makeDepartmentsMandatory || allowPerLineDepartments)
   {
      // can also optionally set department
      newLine.setDepartmentId(standardLines.getLine(0).getDepartmentId());
   }
   ...
}
```

getEntityId()

Function Declaration	`int getEntityId()`
Type	Object method
Description	Returns the internal NetSuite ID for the entity on a StandardLine or CustomLine object
Returns	int
Input Parameters	None
Parent object	StandardLine, CustomLine

Example

```
function customizeGlImpact(record, standardLines, customLines, book)
{
      var entityId = standardLines.getLine(1).getEntityId();
      var line = customLines.addNewLine()
      line.setAccountId(6)
      line.setDebitAmount(100)
      line.setEntityId(entityId)

      line = customLines.addNewLine()
      line.setAccountId(7)
      line.setCreditAmount(100)
}
```

getLocationId()

Function Declaration	`int getLocationId()`
Type	Object method
Description	Returns the internal NetSuite ID for the location on a StandardLine or CustomLine object. Use this method to define plug-in implementation functionality based on the location for a GL impact line. See also setLocationId(locationId). Use locations to track information about employees and transactions for multiple offices or warehouses. You can view all locations defined in NetSuite at Setup > Company > Locations. You can use helper functions in a utility file to avoid adding the internal NetSuite IDs into the plug-in implementation logic. See Utility Files for a Custom GL Lines Plug-In Implementation.
Returns	int
Input Parameters	None
Parent object	StandardLine, CustomLine

Example

```
function customizeGlImpact(record, standardLines, customLines, book)
{
   ...
   var context = nlapiGetContext();
   var makeLocationsMandatory = context.getPreference('locmandatory');
   var allowPerLineLocations = context.getPreference('locsperline');
   ...
   var newLine = customLines.addNewLine();

   if (makeLocationsMandatory || allowPerLineLocations)
   {
      // can also optionally set location
      newLine.setLocationId(standardLines.getLine(0).getLocationId());
   }
   ...
}
```

getMemo()

Function Declaration	`string getMemo()`
Type	Object method
Description	Returns the **Memo** field on a StandardLine or CustomLine object. The **Memo** field is populated from fields on the transaction, for example, the Description field for a line item on a Invoice transaction. See also setMemo(memo).
Returns	string
Input Parameters	None.

Parent object	StandardLine, CustomLine

Example

```
   function customizeGlImpact(record, standardLines, customLines, book)
   {
      ...
      var newLine = customLines.addNewLine();
      newLine.setCreditAmount(standardLines.getLine(0).getCreditAmount());
      newLine.setAccountId(standardLines.getLine(0).getAccountId());
      // append old memo to new memo text
      newLine.setMemo("Payment catches both revenue and cash. " + standardLines.getLine(0).getM
emo());
      ...
      var newLine = customLines.addNewLine();
      newLine.setDebitAmount(standardLines.getLine(1).getDebitAmount());
      newLine.setAccountId(standardLines.getLine(1).getAccountId());
      // append old memo to new memo text
      newLine.setMemo("Payment catches both revenue and cash. " + standardLines.getLine(1).getM
emo());

      ...
   }
```

getSegmentValueId(segmentId)

Function Declaration	`int getSegmentValueId(segmentId)`
Type	Object method
Description	Returns the internal NetSuite ID for the custom segment value set on the line on a StandardLine or CustomLine object. Use this method to define plug-in implementation functionality based on the value for a GL impact line. See also setSegmentValueId(segmentId, segmentValueId).
Returns	int
Input Parameters	segmentId {string} — String value of the custom segment ID
Parent object	StandardLine, CustomLine

Example

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
      ...
      for (var i = 0; i < standardLines.getCount(); i++)
      {
         var line = standardLines.getLine(i);

         var costCenterId = line.getSegmentValueId('csegcostcenter');
       var workCenterId = line.getSegmentValueId('csegworkcenter');

         ...
```

```
            // do something with the values
        }

        ...
        var newLine = customLines.addNewLine();
        // reading segment value from newly created line (value is null or copied from head)
        var costCenterId = newLine.getSegmentValueId('csegcostcenter');
        ...

        var newLine2 = customLines.addNewLine();
        ...
        newLine2.setSegmentValueId('csegcostcenter', getCostCenterValueForItem(itemId));
        if (newLine2.getSegmentValueId('csegcostcenter') == 1)
        {
            ...
        }
        ...
}
// Utility methods
function getCostCenterValueForItem(itemId)
{
        ...
        return valueId;
}
```

Custom GL Lines Plug-in Reference

Use the information in this section as reference when you develop, run, and test a Custom GL Lines plug-in implementation:

Topic	Description
View example code	View example code for using utility files in a plug-in implementation. Use the utility files to create helper functions, reference internal NetSuite IDs, search records, and use with a custom record to store internal NetSuite record IDs. See Custom GL Lines Plug-in Example Code.
Classification handling	You can set classifications, including department, class, and location, on custom lines for standard transactions, journals, and custom transactions. NetSuite may also set the classifications depending on the accounting preferences. See Classifications.
Guidelines and best practices	Get more information about creating the plug-in implementation script file and plug-in implementation behavior. See Custom GL Lines Plug-in Guidelines and Best Practices.
Get help on error messages	Get more information about error messages that can occur when NetSuite validates the plug-in implementation logic or during the plug-in implementation script execution. See Error Messages for Custom GL Lines Plug-in.
Searching and reporting on custom lines	Use the **Custom GL** flag on reports and searches. See Custom Lines on Reports and in Searches.
Use the audit log	Use the Custom GL Lines audit log to get more information about custom lines created by a plug-in implementation. See Custom GL Lines Audit Log.
Use the plug-in system notes	Use the plug-in system notes to get more information about changes made on a plug-in implementation record. See the help topic Viewing Plug-in Implementation System Notes.
Delete a plug-in implementation	Delete a Custom GL Lines plug-in from a NetSuite account, or uninstall a bundle that contains a plug-in implementation. See Deleting a Custom GL Lines Plug-in Implementation.

Custom GL Lines Plug-in Example Code

Use the code examples in this section as a reference when you create a Custom GL Lines plug-in implementation.

The following table describes the examples:

Example	Description
Using utility files	Use utility JavaScript files to contain helper functions for the main plug-in implementation script file or store internal NetSuite IDs for NetSuite records. See Utility Files for a Custom GL Lines Plug-In Implementation.
Using a custom record	Use a custom record to store references for required NetSuite standard records and then retrieve them using SuiteScript. See Using a Custom Record to Reference Internal NetSuite IDs Example.

Utility Files for a Custom GL Lines Plug-In Implementation

You can create utility JavaScript files for use with a Custom GL Lines plug-in implementation. These utility files can contain the following types of logic:

- Helper functions for use with the main plug-in implementation script file. See Helper Functions Example.
- Internal NetSuite IDs for NetSuite records. See Internal NetSuite ID Example.

Depending on your plug-in implementation requirements, you may want to not include internal NetSuite IDs in the implementation and utility script files. In this case, you can create a custom record type to store references to the internal IDs for NetSuite records, and then retrieve the IDs via SuiteScript. For an example, see Using a Custom Record to Reference Internal NetSuite IDs Example.

Helper Functions Example

You can use helper functions similar to the examples below to avoid using NetSuite internal IDs in the plug-in implementation logic.

Utility Javascript File

```
   // search for entity's email
   function findEntityEmail(entityId)
   {
      var searchFilters = new Array();
      searchFilters[0] = new nlobjSearchFilter('internalid', null, 'anyof', entityId);
      var searchColumns = new Array();
      searchColumns[0] = new nlobjSearchColumn('email');

      var searchResults = nlapiSearchRecord('entity', null, searchFilters, searchColumns);
      var email = '';
      if (searchResults!=null && searchResults.length > 0)
      {
         var email = searchResults[0].getValue('email');
      }
   return email;
   }

   // search for entity's phone with saved search
   function findEntityPhone(entityId)
   {
      var searchFilters = new Array();
      searchFilters[0] = new nlobjSearchFilter('internalid', null, 'anyof', entityId);

      var savedSearchResults = nlapiSearchRecord('entity', 'customsearch_script_id', searchFilt
ers);
      var phone = '';
      if (savedSearchResults != null && savedSearchResults.length > 0)
      {
         phone = savedSearchResults[0].getValue('phone');
      }
   }
```

Plug-in Implementation Script File

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   var entityId = transactionRecord.getFieldValue('entity');
   var email = findEntityEmail(entityId);
   var phone = findEntityPhone(entityId);
   ...
}
```

Internal NetSuite ID Example

The interface for the Custom GL plug-in includes methods that you can use to retrieve the internal NetSuite IDs for NetSuite records related to the transaction. You can use these IDs to define plug-in implementation functionality or with SuiteScript APIs like nlapiLoadRecord(type, id, initializeValues) and nlapiSearchRecord(type, id, filters, columns). However, these IDs are specific to a particular NetSuite account. You may want to include the account-specific IDs in a separate utility file so that they may be later customized if the plug-in implementation is installed in a different account.

The following example shows a helper function named `getAccountIDforCustomLine(accountId)` that returns the internal NetSuite ID for an account record. The account ID to return is included in the `getAccountIDforCustomLine(accountId)` function. The function is referenced in the main plug-in implementation script file.

Note: This code is for demonstration purposes only. The customizeGlImpact(transactionRecord, standardLines, customLines, book) function does not add balanced custom lines and the transaction will not save.

Utility Javascript File

```
// Utility methods
function getAccountIDforCustomLine(accountId)
{
   ...
   if (accountID == 30) // main transaction account is 4000 - Sales (id: 30)
   {
      return 40; // custom line account is 1000 - VAT Expenses (id:40)
   } else {
      // return something else
      ...
   }
}
```

Plug-in Implementation Script File

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   var newLine = customLines.addNewLine();
   newLine.setDebitAmount(amount);
   newLine.setAccountId(getAccountIDforCustomLine(standardLines.getLine(0).getAccountId()));

   newLine.setMemo("Payment catches both revenue and cash.");
   ...
}
```

Using a Custom Record to Reference Internal NetSuite IDs Example

You can use a custom record type to store the references to the required NetSuite standard records and retrieve them via SuiteScript. For more information about creating custom record types, see the help topic Creating Custom Record Types in the SuiteBuilder documentation.

Note: The following custom record example and plug-in implementation code is for demonstration purposes only. Your implementation may differ depending on your requirements. You can use a similar solution to retrieve other IDs, like subsidiaries or entities. Also, you use a similar method to create a solution that is not language-dependent.

To store and retrieve references to internal NetSuite IDs, complete the following steps:

1. Create a custom record type with an ID of **customrecord_tutorial_account_config** and add a field that references a standard NetSuite record. For example, create a custom record type named **Account Configuration** to store references to the accounts required by the plug-in implementation. Then, create a field for the custom record type with the following configuration:

Field Property	Value
Label	Account
ID	_account
Type	List/Record
List/Record	Account

2. Create a new instance of the custom record. For this example, you create a custom record with a name of **Cash Basis Income Account** that references a NetSuite account that you want to use with a custom line in the plug-in implementation.
3. Create the plug-in implementation and utility script files. The helper function `findConfiguredAccount(name)` searches for the account name and returns the internal NetSuite account ID.

Utility Javascript File

```
    // Returns internal ID of account from a custom record with the name specified in parameter
    function findConfiguredAccount(name)
    {
       var searchFilters = new Array();
       searchFilters[0] = new nlobjSearchFilter('name', null, 'is', name);
       searchFilters[1] = new nlobjSearchFilter('isinactive', null, 'is', 'F');

       var searchColumns = new Array();
       searchColumns[0] = new nlobjSearchColumn('custrecord_account');

       var searchResults = nlapiSearchRecord('customrecord_tutorial_account_config', null, searc
hFilters, searchColumns);

       if (searchResults!=null && searchResults.length > 0)
       {
          return searchResults[0].getValue('custrecord_account');
       }
```

```
        throw "Account " + name + " not found";
    }
```

Plug-in Implementation Script File

```
function customizeGlImpact(transactionRecord, standardLines, customLines, book)
{
   ...
   var accountId = findConfiguredAccount('Cash Basis Income Account');
   line.setAccountId(accountId);
   ...
}
```

Classifications

You can use the CustomLine methods in a Custom GL Lines plug-in implementation to set department, class, and location classifications on custom lines. If you do not set classifications on custom lines, NetSuite may set the classifications, depending on the accounting preferences or the transaction form.

Refer to the following sections for information about how NetSuite handles classifications for the following types of transactions:

- **Standard transactions.** Classifications are set on custom lines depending on the plug-in implementation behavior and the accounting preferences. See Classification Handling on Standard Transactions.
- **Journals.** In addition to the classification handling on standard transactions, NetSuite also respects the journal-specific accounting preferences when setting classifications on custom lines. See Classification Handling on Journals and Classification Handling on Standard Transactions.
- **Custom transactions.** NetSuite uses the preferences set on the custom transaction definition when setting classifications on custom lines. See Classification Handling on Custom Transactions.

Classification Handling on Standard Transactions

Setting department, class, and location classifications on custom lines for standard transactions depends on the plug-in implementation behavior and the accounting preferences.

For example, if classifications are mandatory, all custom lines inherit header classifications. Otherwise, if classifications can be set at the line level, the plug-in implementation can set the classifications. If the plug-in implementation does not set classifications, the classifications from the transaction header are applied to any custom line.

Important: These rules only apply for standard transactions. Custom transactions use the preferences set on the custom transaction definition. See Classification Handling on Custom Transactions.

For standard transactions, setting classifications on custom lines by NetSuite and the plug-in implementation depends on the following accounting preferences:

- Mandatory classifications and per-line classification preferences. You can set preferences that make the department, class, and location classification mandatory on transactions or set preferences that allow classifications to be set at the line-level. See the help topics General Accounting Preferences and Using Per-Line Classifications.

- Level at which classifications display of transaction forms. If you have enabled preferences to use per-line classes, departments, or locations, you can also customize transaction forms to identify and show the classification at both the header and line level at the same time. See the help topic Customizing Forms for Per-Line and Header Classifications.

The following table describes how the department, class, and location classification handling depends on the accounting preferences:

Show Classification Level	Allow Classifications at Line- Level	Plug-in Implementation Sets Classification	Result on Custom Line
Header	No	Yes	Use classification from transaction header.*
Header	No	No	Use classification from transaction header.
Header	Yes	Yes	Use classification set by plug-in implementation.
Header	Yes	No	Use classification from transaction header.
Line	Yes	Yes	Use classification set by plug-in implementation.
Line	Yes	No	No classification.
None	No	Yes	No classification.
None	No	No	No classification.
None	Yes	Yes	Use classification set by plug-in implementation.
None	Yes	No	No classification.
* NetSuite overrides the plug-in implementation classification setting.			

Guidelines for Classifications Handling

Use the following guidelines when working with classifications for standard transactions and a Custom GL Lines plug-in implementation:

- The above classification handling only applies to custom lines. Standard lines use the value as determined by the accounting preferences and the values entered on the transaction form.
- If you enable the preference to make a classification mandatory and use a form customized to display a classification at both the header and line level, the classification is mandatory at both the header and line level.

Classification Handling on Journals

The following table lists the journal-specific accounting preferences and classification handling on custom lines.

Preference	Classification Handling
Always Allow Per-line Classifications on Journals	Set line-item classes, departments, and locations on custom lines for journal entries. Overrides any other setting for standard transaction classifications. See Classification Handling on Standard Transactions and General Accounting Preferences.

Preference	Classification Handling
Allow Non-balancing Classifications on Journal Entries	Set non-balancing classifications on custom lines for a journal. See the help topic General Accounting Preferences. For example, if you set a debit amount for a custom line with a specific classification, the transaction does not require a balancing credit for the same classification.
Allow Empty Classifications on Journals	Journal line-items do not contain classes, departments, and locations. Overrides any other setting for standard transaction classifications. See Classification Handling on Standard Transactions and General Accounting Preferences.

Classification Handling on Custom Transactions

The classifications that you can set on custom lines for a custom transaction depend on the configuration of the custom transaction type.

You can set the following preferences for departments, classes, and locations on a custom transaction:

Preference	Custom Lines Handling
None	No value is required for the department, class, or location on instances of the custom transaction.
Header	Specify the classification at the header level for instances of the custom transaction. All custom lines inherit this value. If you use a CustomLine method to set the classification value, NetSuite ignores the value and uses the header value on all custom lines.
Line	Specify the classification at the line–item level for all lines on the custom transaction. You must use a CustomLine method to set the value of the classification on each custom line created by the plug-in implementation. Otherwise, you cannot save the transaction.

The classification settings on a custom transaction override any general accounting preferences you specify at Setup > Accounting > Accounting Preferences. For example, you make the department classification required for transactions in the general accounting preferences, but set the **Department** option on a custom transaction type to **None**. Consequently, the **Department** classification is not required for instances of the custom transaction, overriding the general accounting preferences.

Multiple Currencies Examples

When you are working with custom lines in an account with multiple accounting books or multiple currencies, NetSuite automatically performs currency conversion in the following situations:

- The transaction currency is different from the accounting book currency to which the GL impact posts. NetSuite performs a conversion to make standard lines appear in base currency. Custom lines do not require conversion, NetSuite creates the custom lines using the base currency.

  For example, a transaction uses EURO for the items on the transaction, but the accounting book uses GBP. NetSuite converts from EURO to GBP when calculating the GL impact, depending on the exchange rate in NetSuite or the exchange rate specified on the transaction.

  For more information, see the help topic Working with Currencies.
- NetSuite maps custom lines from a primary accounting book to a secondary accounting book, and the two accounting books use different currencies.

  For example, a primary accounting book uses USD and a secondary accounting book uses GBP, and you use setCreditAmount(credit) to set the amount of a custom line on a primary book with setBookSpecific(bookSpecific) set to false.

NetSuite converts the amount from USD to GBP when adding the custom line impact to the secondary book. For more information about the mapping of lines between primary and secondary accounting books by a Custom GL Lines plug-in implementation, see Custom GL Lines Plug-in Process Flow.

The currency to which NetSuite converts an amount depends on both the subsidiary and the accounting book currency. For example, a US company has two subsidiaries:

Subsidiary Name	Secondary Book 1 Currency	Secondary Book 2 Currency
United States	USD	GBP
Canada	CAD	Euro

Any GL impact posts to the secondary accounting books based on the currency for the subsidiary accounting book. The GL impact displays in the currency for the accounting book, and not the currency that appears on the transaction for the transaction line items.

Converting Currency in a Custom GL Lines Plug-in Implementation

In general, you do not need to perform manual conversion of currencies if you are using the amounts of standard lines posted to a transaction to calculate the values of custom lines. However, if you want to use hard-coded currency values or retrieve an amount to use in a custom line from a source other than a standard GL impact line, you need to manually convert the currency amounts.

To perform the conversion, complete the following steps:

1. Get the base currency. You can search for the base currency or get the base currency from the accounting book record. See Find the Base Currency and Base Currency from Accounting Book Record.
2. Perform the conversion. Get the transaction-specific conversion rate from the accounting book record or convert using the nlapiExchangeRate API. See Transaction-Specific Exchange Rates or Convert Currencies with SuiteScript.

Find the Base Currency

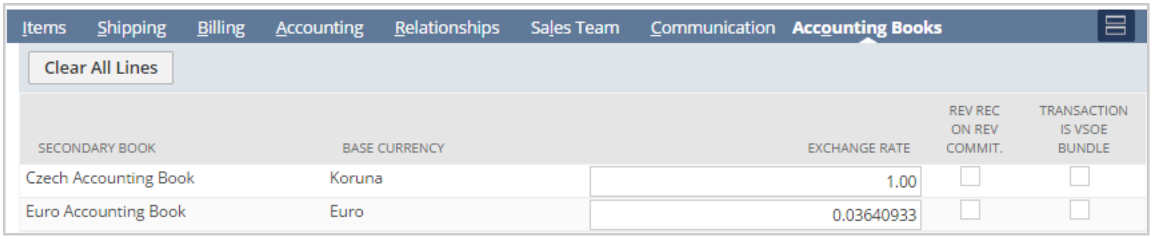
Use the following function to find the base currency for the current accounting book using Search APIs:

```
   /* Returns internal id of base currency for specified subsidiary and accounting book combina
tion */
   function getBaseCurrency(subsidiaryId, bookId)
   {

      var searchFilters = new Array();
      searchFilters[0] = new nlobjSearchFilter('internalid', null, 'is', subsidiaryId);
      searchFilters[1] = new nlobjSearchFilter('accountingbook', null, 'is', bookId);

      var searchColumns = new Array();
      searchColumns[0] = new nlobjSearchColumn('accountingbookcurrency');

      var searchResults = nlapiSearchRecord('subsidiary', null, searchFilters, searchColumns);

      if (searchResults!=null && searchResults.length > 0)
```

```
        {
           return searchResults[0].getValue('accountingbookcurrency');
        }

        throw "Subsidiary " + subsidiaryId + " or accounting book " + bookId + " not found";
}
```

Base Currency from Accounting Book Record

Depending on the transaction type, you can get the base currency from the transaction record. For example, a Cash Sale record contains information about the accounting book and the associated base currency for the transaction:



SECONDARY BOOK	BASE CURRENCY	EXCHANGE RATE	REV REC ON REV COMMIT.	TRANSACTION IS VSOE BUNDLE
Czech Accounting Book	Koruna	1.00	☐	☐
Euro Accounting Book	Euro	0.03640933	☐	☐

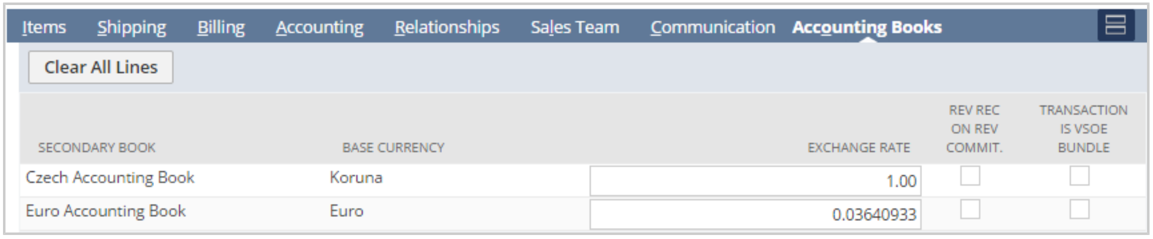
Use the following example code to find the base currency for the current accounting book using the Record object:

```
    function customizeGlImpact(transactionRecord, standardLines, customLines, book)
    {
        ...
        var bookId = book.getId();
        var baseCurrency;

        for (var line = 1; line <= transactionRecord.getLineItemCount('accountingbookdetail'); li
ne++)
        {
           if (bookId == transactionRecord.getLineItemValue('accountingbookdetail','bookid',line)
)
           {
              baseCurrency = transactionRecord.getLineItemValue('accountingbookdetail','currency'
,line);

              break;
           }
        }
        ...
    }
```

Transaction-Specific Exchange Rates

If a user can define transaction-specific exchange rates for the accounting book on a transaction, you can use the conversion rate for the accounting book to perform the conversion.

The following screenshot shows the **Exchange Rate** on the **Accounting Books** subtab of a Cash Sale transaction:



SECONDARY BOOK	BASE CURRENCY	EXCHANGE RATE	REV REC ON REV COMMIT.	TRANSACTION IS VSOE BUNDLE
Czech Accounting Book	Koruna	1.00	☐	☐
Euro Accounting Book	Euro	0.03640933	☐	☐

Use the following example code to find the exchange rate by accessing the exchange through the Record object:

```
   function customizeGlImpact(transactionRecord, standardLines, customLines, book)
   {
      ...
      var amountToAdd = 20; // Amount in Primary book’s currency

      if (!book.isPrimary()) // Amount is in Primary book’s currency, convert only for non-prim
ary books
      {
         var bookId = book.getId();

         for (var line = 1; line <= transactionRecord.getLineItemCount(’accountingbookdetail’);
 line++)
         {
            if (bookId == transactionRecord.getLineItemValue(’accountingbookdetail’,’bookid’,li
ne))
            {
               var rate = transactionRecord.getLineItemValue(’accountingbookdetail’,’exchangera
te’,line);
               amountToAdd = amountToAdd * rate;

            break;
            }
         }
      }
      var newLine = customLines.addNewLine();
      newLine.setDebitAmount(amountToAdd);
      ...
   }
```

Convert Currencies with SuiteScript

The **Exchange Rate** column of the **Currency Exchange Rates** record displays the company-wide exchange rates. To access the Currency Exchange Rates record, go to Lists > Accounting > Currencies.

You can access these values with the nlapiExchangeRate(sourceCurrency, targetCurrency, effectiveDate) API.

Use the following example code to perform a conversion using the company–wide exchange rates:

```
   function customizeGlImpact(transactionRecord, standardLines, customLines, book)
   {
      ...
      var amountToAdd = 20; // USD
      var amountCurrency = 1; // internal id of USD currency in their account
      var subsidId = transactionRecord.getFieldValue('subsidiary');
      var bookId = book.getId();
      var targetCurrency = getBaseCurrency(subsidId,bookId);

      if(targetCurrency!=amountCurrency)
      {
         var rate = nlapiExchangeRate(amountCurrency,targetCurrency);

         amountToAdd = amountToAdd * rate;
      }

      var newLine = customLines.addNewLine();

      newLine.setDebitAmount(amountToAdd);
      ...
   }
```

Custom GL Lines Plug-in Guidelines and Best Practices

The following table describes guidelines and best practices for working with the Custom GL Lines plug-in:

Guidelines	Description
Verify environment	Perform the following checks to verify the environment and define plug-in implementation behavior based on the results: ■ Transaction type. Check the transaction type. Use getRecordType(). For an example, see the example for getEntityId(). ■ Multi-Book Accounting feature and primary book. Check if the Multi-Book Accounting feature is enabled and if the current book processed by the plug-in implementation is the primary accounting book. See isPrimary(). ■ Classification settings. Check the accounting preferences for department, class, and location in the current account. Use nlapiGetContext() and getDepartmentId(), getClassId(), or getLocationId(). You can use this information to define the plug-in behavior for the types of transactions configured for the implementation and how the custom lines should be created.
Account and amount	At minimum, each custom line created by the plug-in implementation must contain an account ID and an amount for the custom line. See setAccountId(accountId) and one of the following methods: setCreditAmount(credit) or setDebitAmount(debit).
Utility files	Use utility files to include helper functions that assist in defining plug-in implementation behavior. See Utility Files for a Custom GL Lines Plug-In Implementation.
Validations	NetSuite performs the following validations on the logic in the plug-in implementation script file when the script runs: ■ Input to methods that set the custom line amount is not non-numerical. ■ Script file does not access non-existent standard lines. ■ Each custom line contains an amount and an account ID. ■ Statistical account IDs are not used for account IDs.

Guidelines	Description
	■ IDs for accounts, departments, classes, and locations exist in the current NetSuite account. ■ Debits and credits on the GL impact lines balance. ■ Currency type for the account matches the base currency for the subsidiary entity or matches the currency for the transaction.
Transaction must balance	The total amount of debits and credits for the transaction must balance. Each plug-in implementation only runs on the subsidiary for the current entity. You cannot distribute credits and debits across subsidiaries.
Using the main line	The first line in the StandardLines object, Line 0, is a summary line that contains the total amount of credits and debits for the transaction. The account ID for the main line depends on the transaction properties, line items, and accounting book. You can use this account ID when setting the account ID for a new custom line.
Creating new versions	To update an existing, installed version of a plug-in implementation, you should create a new implementation of the plug-in with a different name, instead of pushing an update to the existing plug-in implementation.
Searching instead of loading records	You can use SuiteScript API functions in a plug-in implementation, for example, nlapiLoadRecord(type, id, initializeValues) and nlapiSearchRecord(type, id, filters, columns). However, using these APIs may negatively affect the performance of the plug-in implementation. Limit the use of these APIs, where possible, to improve performance of the plug-in implementation. In general, searching for records yields better performance than loading NetSuite records.
Creating records or performing data processing	You should limit the logic of a plug-in implementation to the features required to create custom lines on the GL impact. Additional functionality, for example, creating records or performing other complex data processing operations, should not be added to the plug-in implementation script file.

Using the `getCount()` method to return the number of visible lines	By default, the getCount() method returns the number of visible and hidden lines on the GL Impact page.
	If you want to find only the number of visible lines, use the following condition.
	`if((debitAmount !=0 || creditAmount !=0) && accountId != null) {`
	`    // normal visible lines`
	`}`
	Or use the following shorter version.
	`if((debitAmount || creditAmount) && accountId) {`
	`    // normal visible lines`
	`}`

Governance Limit

The plug-in script file allows up to 1000 usage units. For more information, see the help topic Script Usage Unit Limits.

Error Messages for Custom GL Lines Plug-in

The following errors can occur when NetSuite validates the plug-in implementation logic before the script executes or during the plug-in implementation script execution.

Custom GL Lines Plugin error due to an invalid script operation. Message: Cannot Parse Value: {amount}

Cause:	You used setDebitAmount(debit) to add an amount to a custom line. However, the amount is NULL or not a number.
Action:	Verify that the parameter value for the method is a non-null number in the plug-in implementation script file or utility file.

Custom GL Lines Plugin error due to an invalid script operation. Message: Cannot use {amount} as input to setDebitAmount(debit). Amount to debit must be positive

Cause:	You used setDebitAmount(debit) to add a debit amount to a custom line. However, the amount is negative.
Action:	Use a positive value for setDebitAmount(debit).

Custom GL Lines Plugin error due to an invalid script operation. Message: Line with index {index} does not exist. Total line count is: {lineCount}

Cause:	You used getLine(index) to get a standard or custom line. However, the value of the index parameter is equal or greater than the total number of lines in the StandardLine or CustomLine object.
Action:	Make sure the index parameter for getLine(index) references a valid element. You can use getCount() to get the total number of lines.

Custom GL Lines Plugin error due to a failed validation of script output: Account cannot be empty

Cause:	You created a new CustomLine object with addNewLine(), but did not set an account for the line with setAccountId(accountId). All custom lines must debit or credit an account.
Action:	Make sure you set an account for all CustomLine objects.

Custom GL Lines Plugin error due to a failed validation of script output: Debit/Credit cannot be empty

Cause:	You created a new CustomLine object with addNewLine(), but did not set an amount for the line with setCreditAmount(credit) or setDebitAmount(debit). All custom lines must include a debit or credit amount.
Action:	Make sure you set an amount for all CustomLine objects.

Custom GL Lines Plugin error due to a failed validation of script output: Statistical account {id} was used in financial journal entry. Statistical accounts are not allowed in financial journal entries.

Cause:	The transaction is a Journal and you created a new CustomLine object with addNewLine(). However, you used a statistical account id for setAccountId(accountId).
Action:	Make sure the id for the account is not for a statistical account. Statistical accounts appear on the Chart of Accounts page at Setup > Accounting > Chart of Accounts with a type of **Statistical**.

Custom GL Lines Plugin error due to a failed validation of script output: Account does not exist, id: {list of accounts not found}

Cause:	You used setAccountId(accountId) to set an account for a custom line. However, the account id does not exist in the current account. For

	convenience, the error message lists all account IDs used by the plug-in implementation that do not exist.
Action:	Make sure the account id used for setAccount(accountID) exists. You can view valid account IDs in the **Internal ID** column on the Chart of Accounts page at Setup > Accounting > Chart of Accounts.

Custom GL Lines Plugin error due to a failed validation of script output: Class does not exist, id: {list of classes not found}

Cause:	You used setClassId(classId) to set a class classification for a custom line. However, the class id does not exist in the current account. For convenience, the error message lists all class IDs used by the plug-in implementation that do not exist.
Action:	Make sure the class id used for setClassID(classID) exists. You can view valid class IDs in the **Internal ID** column on the Classes page at Setup > Company > Classes.

Custom GL Lines Plugin error due to a failed validation of script output: Department does not exist, id: {list of departments not found}

Cause:	You used setDepartmentId(departmentId) to set a department classification for a custom line. However, the department id does not exist in the current account. For convenience, the error message lists all department IDs used by the plug-in implementation that do not exist.
Action:	Make sure the department id used for setDepartmentID(departmentID) exists. You can view valid department IDs in the **Internal ID** column on the Departments page at Setup > Company > Departments.

Custom GL Lines Plugin error due to a failed validation of script output: Location does not exist, id: {list of locations not found}

Cause:	You used setLocationId(locationId) to set a location classification for a custom line. However, the location ID does not exist in the current account. For convenience, the error message lists all location IDs used by the plug-in implementation that do not exist.
Action:	Make sure the location ID used for setLocationID(locationID) exists. You can view valid location IDs in the **Internal ID** column on the Locations page at Setup > Company > Locations.

Custom GL Lines Plugin error due to a failed validation of script output: Transaction was not in balance. Total = {amount}

Cause:	A Custom GL Lines plug-in implementation creates custom lines for a transaction, but the total number of debits and credits for the custom lines in the transaction do not balance.
Action:	Make sure that the plug-in implementation logic creates custom lines with an equal amount of credits and debits.

Custom GL Lines Plugin error due to a failed validation of script output: Transaction and foreign currency account use different currencies. Account internal ID: {id}

Cause:	You used setCreditAmount(credit) or setDebitAmount(debit) to add an amount to a custom line. However, the currency type for the account does not match the base currency for the subsidiary entity or match the currency for the transaction.

Action:	Choose an account with a currency that matches the base currency for the subsidiary entity or the currency for the transaction.

Custom Lines on Reports and in Searches

You can use the **Custom GL** flag in the Report Builder and in searches to view custom lines created by a Custom GL Lines plug-in implementation. See one of the following topics:

- Custom GL Lines on NetSuite Reports
- Searches for Custom GL Lines

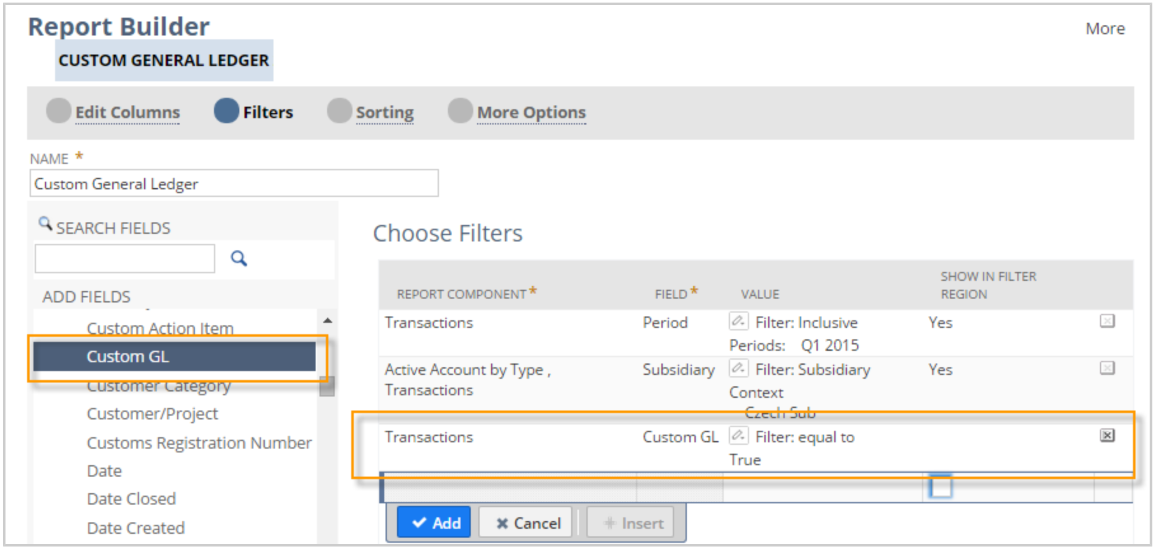
Note: You can still view custom lines on reports and search for custom lines even if you delete the plug-in implementation that created the lines. See Deleting a Custom GL Lines Plug-in Implementation.

Custom GL Lines on NetSuite Reports

You can view general ledger impact for custom lines created by a Custom GL Lines plug-in implementation on NetSuite reports. In the Report Builder, you can add **Custom GL** as a column or as a filter to view report data for custom lines. For more information about customizing reports in the Report Builder, see the help topic Report Customization.

Custom GL Report Filter

The following screenshot shows the Custom GL filter in the Report Builder for a General Ledger report:

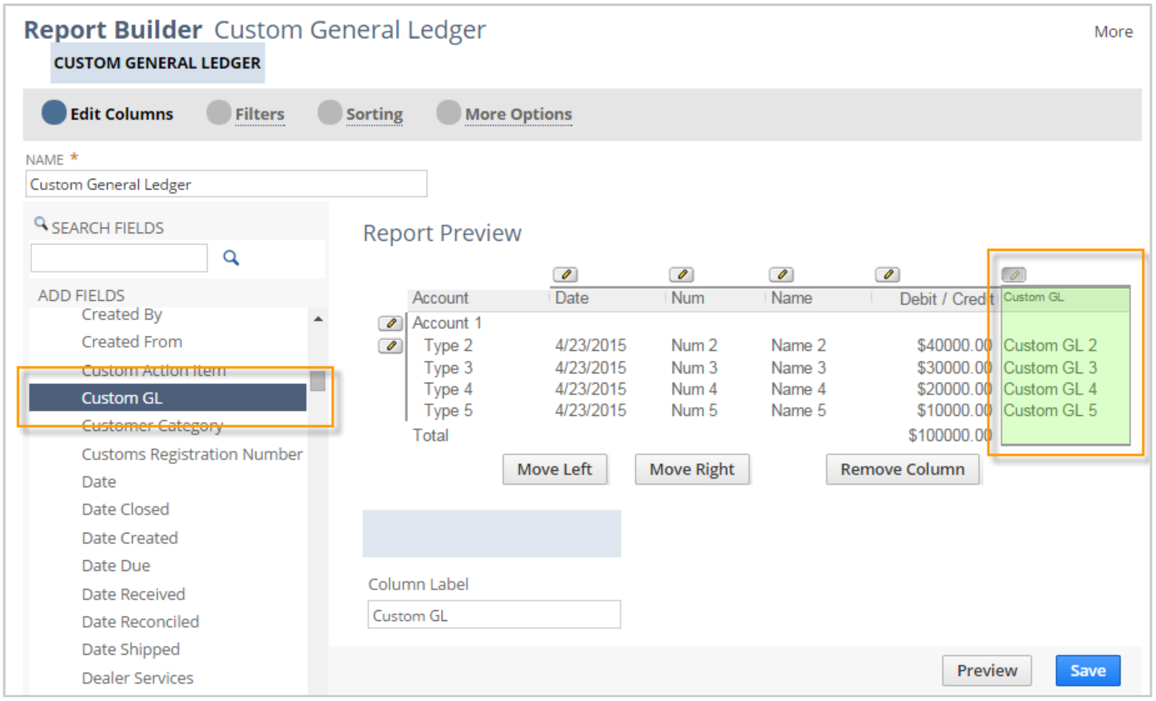


NAME *
Custom General Ledger

REPORT COMPONENT *	FIELD *	VALUE	SHOW IN FILTER REGION
Transactions	Period	Filter: Inclusive Periods: Q1 2015	Yes
Active Account by Type , Transactions	Subsidiary	Filter: Subsidiary Context Czech Sub	Yes
Transactions	Custom GL	Filter: equal to True	

Custom GL Report Column

The following screenshot shows the Custom GL report column in the Report Builder for a General Ledger report:



NAME *: Custom General Ledger

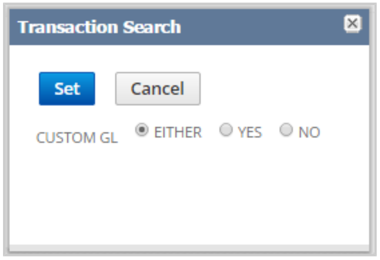
Account	Date	Num	Name	Debit / Credit	Custom GL
Account 1					
Type 2	4/23/2015	Num 2	Name 2	$40000.00	Custom GL 2
Type 3	4/23/2015	Num 3	Name 3	$30000.00	Custom GL 3
Type 4	4/23/2015	Num 4	Name 4	$20000.00	Custom GL 4
Type 5	4/23/2015	Num 5	Name 5	$10000.00	Custom GL 5
Total				$100000.00	

Column Label: Custom GL

Searches for Custom GL Lines

You can use the **Custom GL** filter on searches to search for transactions that do or do not have custom lines created by a Custom GL Lines plug-in implementation. You can use this filter on searches of type **Transaction**. You can also use this filter on searches of type **Multi-Book Accounting Transaction**, if you have the Multi-Book Accounting feature enabled.

The following screenshot shows the configuration of the Custom GL filter on a search:



CUSTOM GL [✓ EITHER] YES NO

For more information about using search in NetSuite, see the help topic Running Searches.

Custom GL Lines Audit Log

The Custom GL Lines Audit Log shows custom lines created by Custom GL Lines plug-in implementations in a NetSuite account. Use the audit log to view any custom lines created for a specific transaction, all transactions, or for a specific plug-in implementation. To view the Custom GL Lines audit log page, you must have either administrator or Custom GL Lines Plug-in Audit Log permissions. To view the Custom GL Lines segments audit log page, you must have either administrator or Custom GL Lines Plug-in Audit Log (Segments) permissions.

See the following topics for more information:

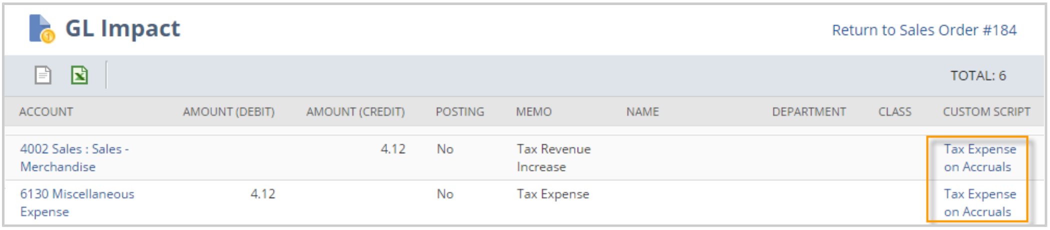
- Accessing the Custom GL Lines Audit Log
- Custom GL Lines Audit Log Page

Note: Custom lines remain in the audit log even if you delete the plug-in implementation that created the lines. See Deleting a Custom GL Lines Plug-in Implementation.

Accessing the Custom GL Lines Audit Log

You can access the Custom GL Lines Audit Log using the following methods:

- GL Impact page. On a transaction in View mode, click Actions > GL Impact. For any custom lines on the transaction, click the name of the plug-in implementation in the **Custom Script** column:



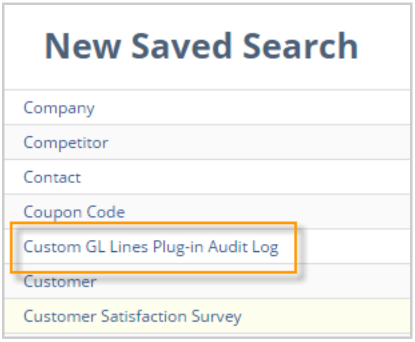
GL Impact

Return to Sales Order #184

TOTAL: 6

ACCOUNT	AMOUNT (DEBIT)	AMOUNT (CREDIT)	POSTING	MEMO	NAME	DEPARTMENT	CLASS	CUSTOM SCRIPT
4002 Sales : Sales - Merchandise		4.12	No	Tax Revenue Increase				Tax Expense on Accruals
6130 Miscellaneous Expense	4.12		No	Tax Expense				Tax Expense on Accruals

- Use a search. Create a search with the **Custom GL Lines Plug-in Audit Log** search type:


New Saved Search
Company
Competitor
Contact
Coupon Code
Custom GL Lines Plug-in Audit Log
Customer
Customer Satisfaction Survey

For more information about using search in NetSuite, see the help topic Running Searches.

Important: You must have administrator or Custom GL Lines Plug-in Audit Log permissions to view or search the Custom GL Lines audit log.

You can also view system notes for plug-in implementations. For more information, see the help topic Viewing Plug-in Implementation System Notes.

Custom GL Lines Audit Log Page

The Custom GL Lines Audit Log page contains details about the custom lines that the plug-in created and attempted to create for a transaction. If failed validations occur, they are also logged to help you determine why the script failed. Use the filters and the links available in the audit log columns to get more information about the custom lines.

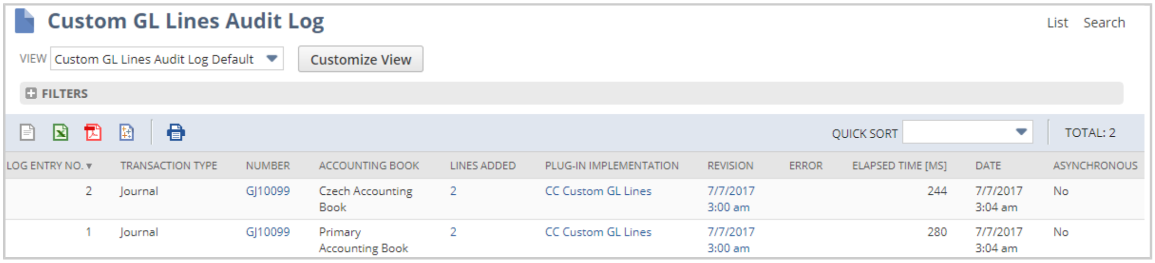
The following table describes the available filters for working with the audit log:

Filter Name	Description
Number	Transaction number to display.
Plug-in Implementation	Plug-in implementations and other custom script files available in the account. By default, this list includes all custom script files in the NetSuite account with script IDs that begin with `customscript`.
Current	Includes only custom lines that currently affect transactions in the NetSuite account. Default is **Yes**. Select **No** or **All** to include only custom lines for deleted transaction or custom lines that the plug-in implementation failed to create due to an error.
Style	View the custom lines as a report or in a grid.

The following table describes the columns available on the default view of the Custom GL Lines audit log:

Column Name	Description
Log Entry No.	Internal ID of the custom lines in the audit log.
Transaction Type	Type of transaction on which the custom lines were created. This column can equal **Nonexistent** if one of the following conditions are met: ▪ The transaction for the custom line was deleted. ▪ The custom lines could not be created due to an error. See the **Error** column for more information about the error.
Number	Record number for the transaction in NetSuite. Click the link to open the transaction record.
Lines Added	Number of custom lines that the plug-in implementation created for the transaction. Click the link to open the Custom GL Lines Audit Log Transaction Details Page.
Revision	Revision of the plug-in implementation that created the custom lines. Click the link to open the Custom GL Lines Plug-in Revision Page.
Error	Any errors that occur when NetSuite validates the plug-in implementation logic before the script executes or during the plug-in implementation script execution. **Note:** If an error appears in this column, the **Transaction Type** for the custom line will be **Nonexistent**. If there is no error, the plug-in implementation successfully created the custom lines.
Elapsed Time (ms)	Amount of time, in milliseconds, that the plug-in implementation spent to create all custom lines for the transaction.
Date	Date and time the custom lines were created.

The following screenshot shows the Custom GL Lines Audit Log page:


Custom GL Lines Audit Log

LOG ENTRY NO. ▾	TRANSACTION TYPE	NUMBER	ACCOUNTING BOOK	LINES ADDED	PLUG-IN IMPLEMENTATION	REVISION	ERROR	ELAPSED TIME [MS]	DATE	ASYNCHRONOUS
2	Journal	GJ10099	Czech Accounting Book	2	CC Custom GL Lines	7/7/2017 3:00 am		244	7/7/2017 3:04 am	No
1	Journal	GJ10099	Primary Accounting Book	2	CC Custom GL Lines	7/7/2017 3:00 am		280	7/7/2017 3:04 am	No

✓ **Tip:** If you access this page from the GL impact report, only custom lines that affect a transaction are displayed. Use the **Current** filter to display additional custom lines, for example, select **No** or **All** custom lines on deleted transactions.

The Custom GL Lines Audit Log Segments page shows the segments that were set by a specific transaction. For information, see Custom GL Lines Audit Log Segments Page.

You can also view system notes for plug-in implementations. For information, see the help topic Viewing Plug-in Implementation System Notes.

Custom GL Lines Audit Log Transaction Details Page

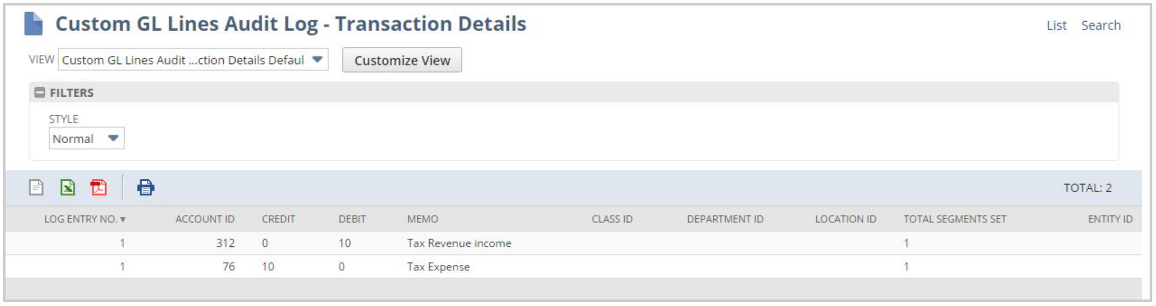
The Custom GL Lines Audit Log Transaction Details page shows the balancing custom lines added to a specific transaction. Click the link in the **Lines Added** column on the Custom GL Lines Audit Log Page to access the Custom GL Lines Audit Log Transaction Details page.

The following table describes the columns available on the default view of the Custom GL Lines Audit Log Transaction Details page:

Column	Description
Log Entry No.	Internal ID of the custom lines in the audit log. This is the same ID as **Log Entry No.** on the Custom GL Lines Audit Log Page. Click the link to navigate to the audit log page for the custom line.
Account ID	Internal ID of the account that the custom line credited or debited. This ID appears on the Chart of Accounts page at Setup > Accounting > Chart of Accounts.
Credit *	Amount of credit for the custom line. This value is set either by the plug-in implementation itself when it maps custom lines to secondary books, if applicable, or with the setCreditAmount(credit) method.
Debit *	Amount of debit for the custom line. This value is set either by the plug-in implementation itself when it maps custom lines to secondary books, if applicable, or with the setDebitAmount(debit) method.*
Memo	Text added to the **Memo** field on the custom line. This value is set with the setMemo(memo) method by the plug-in implementation.
Class ID	Class ID for the custom line set with the setClassId(classId) method by the plug-in implementation. For more information about classes in NetSuite, see the help topic Departments and Classes Overview.
Department ID	Department ID for the custom line set with the setDepartmentId(departmentId) method by the plug-in implementation. For more information about departments in NetSuite, see the help topic Departments and Classes Overview.
Location ID	Location ID for the custom line set with the setLocationId(locationId) method by the plug-in implementation. For more information about locations in NetSuite, see the help topic Locations Overview.
Total Segments Set	Number of custom segments that were set by the plug-in implementation.
Entity ID	Entity ID for the custom line set with the setEntityId(entityId) method by the plug-in implementation.

Column	Description
* The currency for the amount depends on the transaction currency and the base currency for the accounting book and subsidiary. See Multiple Currencies Examples.	

The following screenshot shows the Custom GL Lines Audit Log Transaction Details page:


Custom GL Lines Audit Log - Transaction Details
List
Search
VIEW
Custom GL Lines Audit ...ction Details Defaul
Customize View
FILTERS
STYLE
Normal
TOTAL: 2

LOG ENTRY NO. ▾	ACCOUNT ID	CREDIT	DEBIT	MEMO	CLASS ID	DEPARTMENT ID	LOCATION ID	TOTAL SEGMENTS SET	ENTITY ID
1	312	0	10	Tax Revenue income				1	
1	76	10	0	Tax Expense				1	

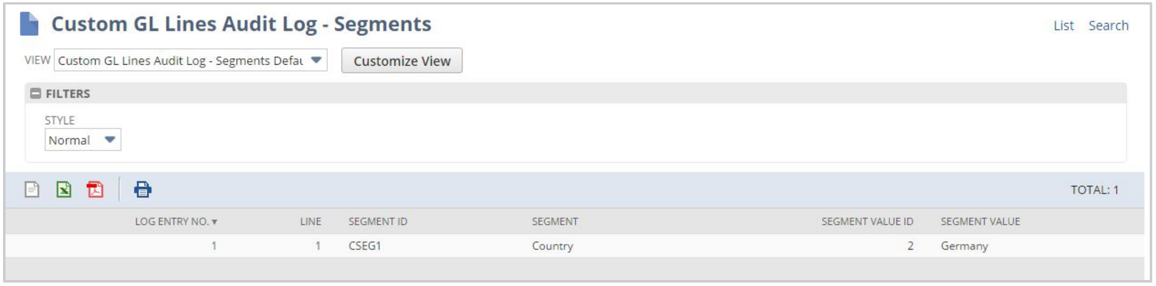
Custom GL Lines Audit Log Segments Page

The Custom GL Lines Audit Log Segments page shows the segments that were set by a specific transaction. Click the link in the **Total Segments Set** column of the Custom GL Lines Audit Log Transaction Details page to access the Custom GL Lines Audit Log Segments page. Administrator or Custom GL Lines Plug-in Audit Log (Segments) permissions are required to view the Custom GL Lines Audit Log Segments page.

The following table describes the columns available on the default view of the Custom GL Lines Audit Log Segments page:

Column	Description
Log Entry No.	Internal ID of the custom line in the audit log. This is the same ID as the **Log Entry No.** column on the Custom GL Lines Audit Log Page. Click the link to navigate to the audit log page for the custom line.
Line	Line number of the custom GL line.
Segment ID	ID for the custom segment definition.
Segment	Description of the custom segment definition.
Segment Value ID	ID of the segment value for the custom line set with the `setSegmentValueId(segmentId, segmentValueId)` method by the plug-in implementation. For more information, see setSegmentValueId(segmentId, segmentValueId).
Segment Value	Custom segment value.

The following screenshot shows the Custom GL Lines Audit Log Segments page:


Custom GL Lines Audit Log - Segments
List
Search
VIEW
Custom GL Lines Audit Log - Segments Defau
Customize View
FILTERS
STYLE
Normal
TOTAL: 1

LOG ENTRY NO. ▾	LINE	SEGMENT ID	SEGMENT	SEGMENT VALUE ID	SEGMENT VALUE
1	1	CSEG1	Country	2	Germany

Custom GL Lines Plug-in Revision Page

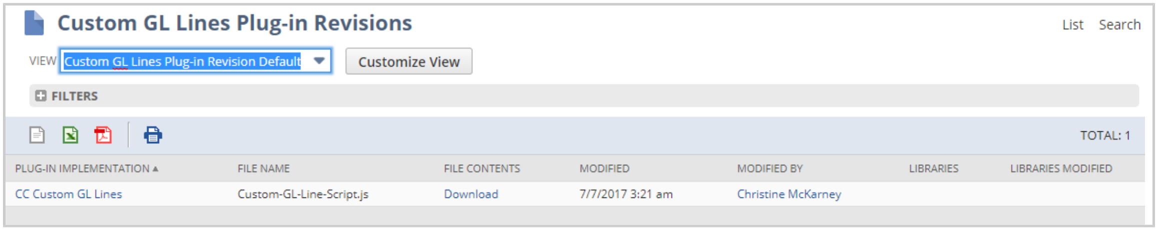
The Custom GL Lines Plug-in Revision page shows the specific version of the plug-in implementation and associated library files that created a custom line. Use this page to determine the versions of the plug-in implementation script file and library file used to create the custom lines.

Click the link in the **Revision** column on the Custom GL Lines Audit Log Page to access this page.

The following table describes the columns available on the default view of the Custom GL Lines Plug-in Revision page:

Column	Description
Plug-in Implementation	Name of the plug-in implementation that created the custom lines.
File Name	File name of the plug-in implementation script file. For more information about this file, see Create a Plug-in Implementation Script File.
File Contents	Snapshot of the plug-in implementation script file contents. **Note:** This information is extracted from the NetSuite database and is for reference only. Consequently, you cannot click `(more...)` to see the rest of the file contents. To view the complete file content, open the Script record for the plug-in implementation script file.
Modified	Date and time the plug-in implementation script file was last modified.
Modified By	User account that last modified the plug-in implementation script file.
Libraries	Associated library file names for the plug-in implementation that were specified during creation of the plug-in implementation. All library files are listed. For more information, see Add the Plug-in Implementation.
Libraries Modified	Latest date and time when any one of the libraries for the plug-in implementation was last modified.

The following screenshot shows the Custom GL Lines Plug-in Revision page:


Custom GL Lines Plug-in Revisions
List
Search
VIEW
Custom GL Lines Plug-in Revision Default
Customize View
FILTERS
TOTAL: 1

PLUG-IN IMPLEMENTATION ▲	FILE NAME	FILE CONTENTS	MODIFIED	MODIFIED BY	LIBRARIES	LIBRARIES MODIFIED
CC Custom GL Lines	Custom-GL-Line-Script.js	Download	7/7/2017 3:21 am	Christine McKarney		

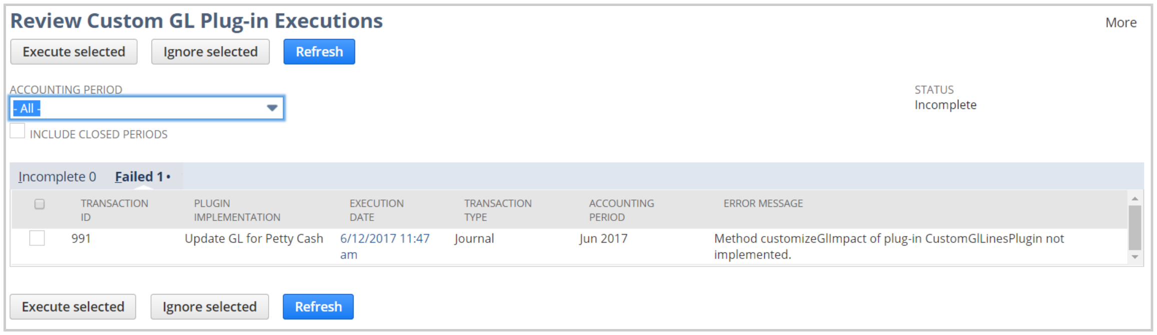
Reviewing Custom GL Lines Plug-in Executions

Custom GL line plug-ins might be set to run asynchronously in the following instances:

- If you have multiple custom GL line plug-in implementations that cause long transaction save times, some might be configured to run asynchronously.
- If you use both the Custom GL Lines Plug-in and Inventory features, when the cost of goods sold (COGS) changes, cost amounts are updated. The Custom GL Lines Plug-in runs asynchronously to update the GL impact in the transactions.

When a transaction is updated by the COGS engine, the GL impact is updated. Then, the Custom GL Lines Plug-in implementations on the transaction are triggered. After a change causes the COGS update, the Custom GL Lines Plug-in process runs to update the GL impact a second time. When you view the GL Impact page, you might see a message at the top of the page to indicate that the GL impact might change. This message appears if an update process is scheduled or in progress.

To address any exceptions that occurred when a custom GL line plug-in was run asynchronously , the Review Custom GL Plug-in Executions page displays Incomplete and Failed executions. You must have the administrator or the Review Custom GL Plug-ins Executions permission to access the Review Custom GL Plug-in Executions page. Go to Customization > Plug-ins > Review Custom GL Plug-in Executions.



ACCOUNTING PERIOD: - All -

INCLUDE CLOSED PERIODS

STATUS: Incomplete

	TRANSACTION ID	PLUGIN IMPLEMENTATION	EXECUTION DATE	TRANSACTION TYPE	ACCOUNTING PERIOD	ERROR MESSAGE
	991	Update GL for Petty Cash	6/12/2017 11:47 am	Journal	Jun 2017	Method customizeGlImpact of plug-in CustomGlLinesPlugin not implemented.

The Review Custom GL Plug-in Executions page displays incomplete and failed Custom GL Plug-in executions from subsidiaries and accounting books to which you have access. Transactions appear on this page only if the last run of the custom GL plug-in was incomplete or failed.

By default, failed or incomplete transactions for all accounting periods are displayed. Select the accounting period as required. To include closed periods in the Accounting Period list, check the Include Closed Periods box.

Each task listed displays the transaction ID, transaction type, accounting period, and execution date. An incomplete task has at least one pending or running task for the custom GL plug-in in the selected period.

Note: If you update a transaction in a closed period that triggers the Custom GL Lines Plug-in, an error appears. You can either ignore the error, or open the period to run the plug-in again.

For any failed executions, you can select the item and then click Execute Selected to run the plug-in again. The page is refreshed, the status of the line becomes incomplete, and the line is displayed on the Incomplete subtab.

You can ignore an error, but if you decide to run the associated custom GL lines plug-in in the future, you have to edit the transactions manually. To ignore an error, check the line and click Ignore Selected. A confirmation message appears. Click Yes to confirm and remove the transaction from the list.

To view information about custom GL line plug-in executions that completed successfully, see the Custom GL Lines Audit Log Page.

Deleting a Custom GL Lines Plug-in Implementation

If you delete a Custom GL Lines plug-in implementation or uninstall a bundle that contains a plug-in implementation, the removal has the following effects in the NetSuite account:

- Custom lines created by the plug-in implementation remain in the NetSuite database. Consequently, the custom lines remain linked to the original transaction and still appear in the GL impact for the transactions on which they were created and remain on any reports which lists the GL impact of the transaction. You can also still search for the custom lines. See Custom Lines on Reports and in Searches.
- The custom lines remain in the Custom GL Lines audit log. See Custom GL Lines Audit Log.

Note: If you uninstall a bundle that contains a plug-in implementation, the script file and any library files are also removed.

To delete a Custom GL Lines plug-in implementation:

1. Go to Customization > Plug-ins > Manage Plug-ins.
2. On the Manage Plug-ins page, disable the implementation that you want to delete and click **Save**.
3. Go to Customization > Plug-ins > Plug-in Implementations.
4. On the Plug-in Implementations page, click the **Edit** link next to the plug-in implementation.
5. On the Plug-in Implementation page, click Actions > Delete. Click **OK** to confirm the deletion.