

# Version 2014 Release 2 Release Notes

Revision Date: February 25, 2015

PDF File Version: v28

This document summarizes the changes to NetSuite between Version 2014 Release 2 (also known as 2014.2) and the previous release.

These release notes are subject to change. Please make sure to review the release notes section of the *Help Topic Weekly Updates* for a list of the changes made in this build of the release notes.

The Version 2014 Release 2 enhancements and changes listed in this document are not available to NetSuite customers until they are upgraded to Version 2014 Release 2. Please check the version number at the bottom of your Home page if you are unsure which NetSuite version you are using.

Click links in the following table for details about product changes:

Product	Section	Summary
NetSuite	User Interface	<a href="#">New Visual Design for User Interface</a> <a href="#">Help Center UE Improvements</a> <a href="#">New Look for Addresses</a> <a href="#">Advance Notice – Support for Internet Explorer 9 Ending in Version 2015 Release 1</a> <a href="#">Advance Notice – Support for Safari 5 Ending in Version 2015 Release 1</a>
	Administration	<a href="#">System Notes Now Describe Context for Changes</a> <a href="#">New Search Type Reveals Details About Deleted Records</a> <a href="#">Sandbox Expiration Notification</a> <a href="#">Premium Sandbox Account</a> <a href="#">Maximum Dimensions for Company Logo in the Header</a>
	Customer Relationship Management (CRM)	<a href="#">Calendar Enhancements</a> <a href="#">Change to Campaign Calendar</a> <a href="#">Change to Display of Canceled Events</a> <a href="#">Increased File Size Allowance for Email Messages</a> <a href="#">Use Timesheets from Event, Task and Case Records</a> <a href="#">NetSuite for iPhone Version 3.0</a> <a href="#">Spam Handling Feedback Loop</a>

Product	Section	Summary
		<p>BCC Field On Support Case Email</p> <p>Link Support Cases to Transactions</p> <p>Campaign Clickthrough Report</p> <p>Third Party SMTP Support</p> <p>New Fields in Search Join</p> <p>Track Bounced Recipients of Non-Bulk Email</p> <p>Select Identity in Support Email</p> <p>Custom Fields Availability in Duplicate Detection</p> <p>Enhancements to Notifications for Online Form Submission</p> <p>Scriptable Template Enhancements</p> <p>Enhancements to Advanced Promotions</p>
	Enterprise Resource Planning (ERP)	<p>Billing Operations</p> <p>Purchase Contracts and Blanket Purchase Orders</p> <p>EU Digital Services Mini One Stop Shop (MOSS)</p> <p>Invoice Approvals</p> <p>Automatically Add Charges to Invoices, Cash Sales, Credit Memos, and Cash Refunds</p> <p>Multi-Book Accounting Enhancements</p> <p>Pause/Play Revenue Recognition</p> <p>Summarized Revenue Recognition Journal Entries</p> <p>Deferred Revenue Rollforward Report</p> <p>Apply to Subtotal Billing Schedules</p> <p>GL Audit Numbering for Multi-Book Accounting</p> <p>Distribution Resource Planning</p> <p>Fulfill Orders Across Multiple Accounting Periods</p> <p>Backward Scheduling for Manufacturing</p> <p>Expense Charge Rules for Charge-Based Billing</p> <p>Absolute Statistical Balance Update</p> <p>Multi-Currency Merge</p> <p>Summary Accounts for Reporting</p> <p>Commission Enhancements</p> <p>Customization for Payroll Batch Reporting</p>

Product	Section	Summary
		<p>New Process Status Page for Updates of VSOE Delivery Status</p> <p>Enhanced Customization for Revenue Reporting</p> <p>Manufacturing Operations Overlap</p> <p>Work Order Completion Validation Enhancements</p> <p>Average Costing for Serial and Lot Numbered Items</p> <p>Locations Tracking Enhancements</p> <p>Default Payable Account for Expense Reports</p> <p>Validate Lot Number Available Quantity at Item Commitment</p> <p>Manage Lots and Bins on Transactions</p> <p>Include Locations in Supply Planning</p> <p>Deprecation of QuickBooks Import</p> <p>UPS Enhancements</p>
	Projects	<p>Advanced Projects is Now Project Management</p> <p>Intercompany Job Costing</p> <p>Job Costing Preferences</p> <p>Post All Time for Job Costing</p> <p>New Opportunities Subtab on Project Records</p>
SuiteCommerce	General SuiteCommerce Settings	Support for Custom Site Maintenance Pages
	SuiteCommerce Advanced	URL Component Enhancements for SuiteCommerce Advanced Reference Implementation Enhancements
	SuiteCommerce Platform	Multiple Ship Methods Per Address Asynchronous afterSubmit User Event Support for Web Store Users
SuiteCloud Platform	SuiteBundler	<p>Group Company Preferences by Category</p> <p>Support for Bundling Custom Address Objects</p>
	SuiteBuilder - Customization	<p>Important Note about New Custom Fields and Forms</p> <p>Custom Forms Impact of Updated NetSuite User Interface</p> <p>Enhancements to Address Form Customization</p> <p>Expanded Options for Custom Transaction Form Override of Check Box Default Values</p> <p>Hide the Remove Link for Child Sublists on Custom Records</p>

Product	Section	Summary
	SuiteAnalytics (Dashboards, Reporting and Search)	<p>Introduction to SuiteAnalytics Connect</p> <p>Enhanced UI for Period and Date Range Selections</p> <p>Use Time Selectors for Fiscal Calendars</p> <p>More Flexible Aging Reports</p> <p>High Volume Data Exports</p> <p>Analytics Tabs for Enable Features and Set Preferences Pages</p> <p>New Formula Tag Displays Currency Codes in Saved Searches</p> <p>Segment Alternate Period and Date Ranges</p> <p>Support for Additional Custom Portlets on a Dashboard</p>
	CSV Import	<p>CSV Import Support for Timesheets and Time Entry</p> <p>CSV Import Enhancements to Support Multi-Book Accounting</p> <p>CSV Import Impact of Address Enhancements</p>
	SuiteFlow (Workflow Manager)	<p>Graphical Workflow Editor</p> <p>Workflow Impact of Address Enhancements</p>
	SuiteScript	<p>CRMSDK Templates – SuiteScript Changes</p> <p>Scheduled Script Calendar Deprecated SuiteScript Impact of Updated NetSuite User Interface</p> <p>SuiteScript Impact of Address Enhancements</p> <p>SuiteScript Support for Large File Sizes</p> <p>Initiate Workflow Asynchronously API</p> <p>PDF Render to Response API</p> <p>Client Side Support for Hiding and Un-hiding Fields</p> <p>Internal Only Support for nlapiSendEmail</p> <p>Ignore Recalc Support for nlobjRecord Commit, Insert, and Remove Line Item Methods</p> <p>Changes to the Revenue Recognition Schedule's Search Filters and Columns</p> <p>New APIs</p> <p>Updated APIs</p> <p>Newly Supported Record Types</p> <p>2014.2 SuiteScript Records Browser</p> <p>Script Queue Monitor (Beta)</p>

Product	Section	Summary
	SuiteTalk (Web Services) Integration	<p>Improved Messaging for Partially Completed List Operations</p> <p>Enhancements to Support Multi-Book Accounting</p> <p>Web Services Impact of Address Enhancements</p> <p>New Permission Required for the getDeleted Operation</p> <p>Fields Deprecated in Revenue Recognition Schedule Search Elements</p> <p>Changes to PostingPeriodDate</p> <p>Status Detail Codes Deprecated</p> <p>2014.2 WSDL Now Generally Available</p> <p>Araxis Merge Diff File for the 2014.2 Endpoint</p> <p>2014.2 SuiteTalk Schema Browser</p>
	SuiteCloud IDE	Support for SuiteScript Functions
<b>SuiteApps</b>	SuiteApps (Bundles) Released by NetSuite	<p>Resource Allocation Chart Enhancements</p> <p>Manufacturing Task Scheduler</p> <p>Daily Shipment Detail Report</p> <p>Campaign Assistant</p> <p>Fixed Assets Management Enhancements</p> <p>NetSuite Records Timeline (Beta)</p> <p>File Drag and Drop Enhancements</p> <p>SuiteSocial Enhancements</p> <p>Recurring Billing Enhancements</p> <p>France Standard Audit File for Tax Purposes (SAF-T)</p> <p>Statutory Chart of Accounts</p> <p>Online Filing of Withholding Tax Reports for Philippines</p> <p>Multi-Book Accounting for International Tax Reports</p> <p>Electronic Payments Enhancements</p> <p>Requisition Approval Workflow</p> <p>3 Way Match Vendor Bill Approval</p> <p>Dunning</p> <p>Script Queue Monitor (Beta)</p> <p>Country-Specific Address Forms</p>

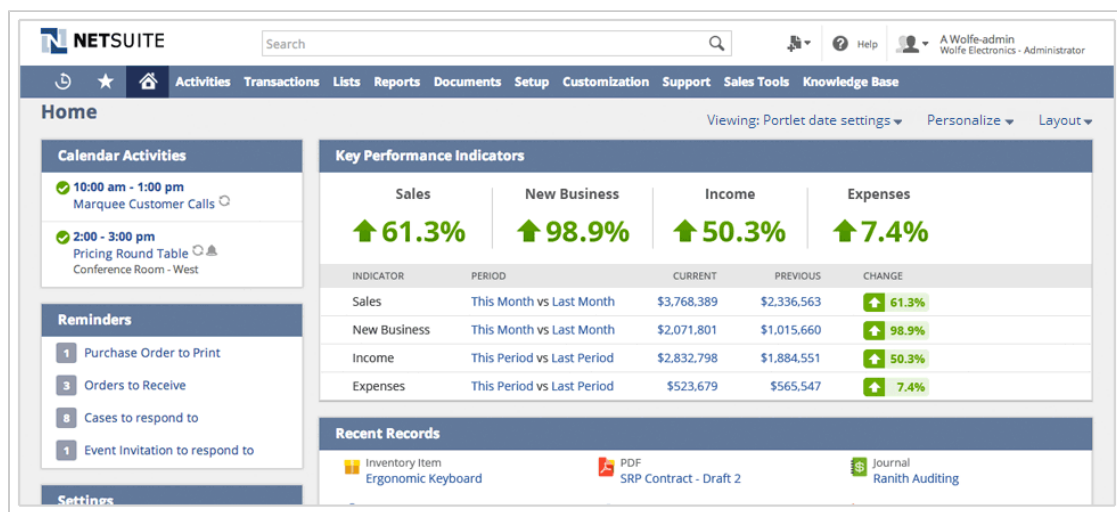
## User Interface

Version 2014 Release 2 includes the following enhancements to the NetSuite user interface (UI):

- New Visual Design for User Interface
- Help Center UE Improvements
- New Look for Addresses
- Advance Notice – Support for Internet Explorer 9 Ending in Version 2015 Release 1
- Advance Notice – Support for Safari 5 Ending in Version 2015 Release 1
- NetSuite Records Timeline (Beta)
- File Drag and Drop Enhancements
- SuiteSocial Enhancements

### New Visual Design for User Interface

NetSuite has a new, more modern visual design in Version 2014 Release 2. Based on customer feedback, NetSuite has improved key areas of the user interface including readability, navigation, data entry, and dashboard setup.



Key features of the new design are:

- **A fresh new look** – Bright, refreshing colors and icons appear throughout the new UI. Larger fonts increase readability. The clean layout enables you to quickly find what you need.

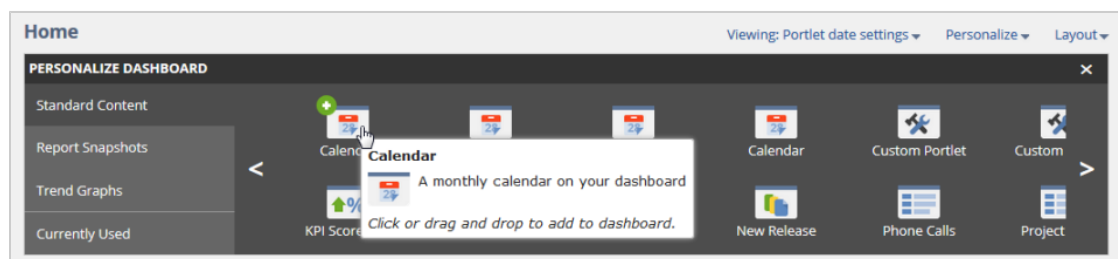
- **Easy navigation** – The new header is anchored at the top of the page so that you always have access to global search and navigation, as well as Help. You can create records any time using the new menu in the header. The navigation menus support smaller screens by providing improved scrolling, and the label for the Home page has been replaced by an icon.

Specific changes can be categorized as follows:

- Dashboards
- List Pages
- Form Pages
- Other Changes

## Dashboards

The dashboard is easier to personalize. A palette at the top of the page includes colorful icons for the various portlets. When you hover over the icons information and instructions appear to guide your next steps. Click the Personalize link to open the palette.



Click the Layout link to select the column layout for the current page. Icons on the dropdown list enable you to select a two-column layout with the narrow column on the left, two columns with the narrow column on the right, three columns, or one column. Documents and Setup dashboards and their related user preferences have been removed.

On the dashboard itself, the primary information is clearly displayed without clutter. The controls you need appear when you need them. For example, when you move your cursor over a portlet title bar, a dropdown list appears with the commands that are applicable for that portlet. In list portlets, hover over a row to highlight it and reveal its controls. The Minus Sign and Plus Sign controls to minimize and maximize portlets have been removed. To minimize a portlet, click its title bar. To maximize it again, click the title bar again.

The Quick Selector portlet is now the Dashboard View Filter rather than a portlet. To open it, click the link on the upper right of the dashboard that says "Portlet date settings." After you select your options, the link text changes to display them.

Dashboards are no longer included as options for the Documents and Setup tabs. Instead, the Documents tab always shows the File Cabinet, and the Setup tab always shows the Setup Manager. The New Bar at the top of the dashboard has become the Create New menu on the global header. The preferences related to the New Bar have been removed.

The Quick Add is not currently available from the dashboard. Use the Create New menu or add the Quick Add portlet to the dashboard instead.

## List Pages

Filters are now at the top of the list page in an area that you can collapse so that more records are visible on the page. The export controls are colorful icon buttons in a narrow toolbar above the column headings. When you move your mouse over a row, your position is highlighted.

The screenshot shows the Netsuite interface for the Sales Orders list page. At the top, there's a navigation bar with tabs like Activities, Transactions, Lists, Reports, Documents, Setup, Customization, Support, Sales Tools, and Knowledge Base. Below this, the 'Sales Orders' section has a 'View: Default' dropdown, a 'Customize View' button, and a 'New' button. A 'FILTERS' section is visible with dropdowns for 'Type' (Sales Order), 'Employee' (- All -), and 'Status' (- All -). Below the filters is a toolbar with icons for print, export, and other actions. The main table displays a list of sales orders with columns for EDIT | VIEW, DATE, PRINT, NUMBER, NAME, PO/CHECK NUMBER, STATUS, TRACKING NUMBERS, MEMO, and AMOUNT. A mouse cursor is hovering over the row for 'Tim Griffin', which is highlighted in yellow. A callout points to this row with the text 'Highlight what you're looking at'.

EDIT   VIEW	DATE	PRINT	NUMBER	NAME	PO/CHECK NUMBER	STATUS	TRACKING NUMBERS	MEMO	AMOUNT
Edit   View	2/6/2005	Print	101	Anderson Boughton Inc.		Billed			1,065.20
Edit   View	2/10/2005	Print	102	Eric Schmidt		Partially Fulfilled			12,481.90
Edit   View	3/5/2005	Print	103	Sandra Burns		Pending Billing			1,600.20
Edit   View	3/9/2005	Print	104	Tim Griffin		Billed			252.90
Edit   View	3/27/2005	Print	105	Ken Chua		Billed			396.10
Edit   View	3/31/2005	Print	106	Jonathan Ketner		Pending Fulfillment			1,178.31

The Quick Add row that was available with inline editing is now a Quick Add popup window. When inline editing is on, an Add button appears below the list title of lists that previously included the Quick Add row. Click the button to open the popup window.

## Form Pages

Field labels appear above the fields now, making both labels and values more visible. Important areas of the page stand out with colors and bold fonts. As with dashboards and list, the controls are hidden until you move your cursor over the area.



Easier-to-read field labels and values

**Sales Order** 102 Bay Media Research **PARTIALLY FULFILLED**

Save Cancel Reset Actions

**Primary Information**

Custom Form \*  
Standard Sales Order - Cash Sale

Customer \*  
Bay Media Research

Project

Order #  
102

End Date

PO #

Memo

**Summary**

Total (Alt. Sales)	0.00
Subtotal	12,473.90
Discount Item	0.00
Tax	0.00
Shipping Cost	8.00
<b>Total</b>	<b>12,481.90</b>

Clean — actions are hidden until mouseover

The spell checker that was available for fields on some records has been deprecated. All supported browsers include a feature that checks the spelling of words in most text fields. The NetSuite spell checker is no longer needed. The associated user preference has also been removed.

## Other Changes

The new default font is Open Sans. Details about the font, colors, spacing, and other specifications are available in the new [NetSuite UI Style Guide](#).

The new UI has improved color themes in addition to the default colors. Custom color themes are no longer supported for users who are customizing the UI. Custom color themes are still supported in the web store. Color themes that were previously selected are automatically mapped to the closest new color theme.

The Zoom dropdown list has been removed from the Appearance subtab of the Set Preferences page. Use your browser's zoom to adjust your font size. The keyboard shortcuts that control zoom are Ctrl+Minus Sign for smaller, and Ctrl+Plus Sign for larger. Ctrl+0 returns to 100% zoom. If you prefer the smaller font of the previous UI, try 90% zoom or smaller.

The Drop-Down Menus preference has been removed from the Appearance subtab of the Set Preferences page. This preference controlled the behavior of the top-level navigation menu tabs. The dropdown menus now appear when you move your mouse over the tabs. On tablets, tap the tab to open the menu.

A new company general preference enables administrators to change the alignment of labels on records pages. When checked, Horizontal Labels causes labels to appear to the left of fields.

Unlike other browsers, zoom in Internet Explorer applies to all websites. To enable you to set the zoom for NetSuite independently, a new preference is provided for IE 10 and higher. The preference is called Density Setting for Internet Explorer. It is on the Appearance subtab of the Set Preferences page in the Styles group.

NetSuite no longer offers the Offline Client for Sales.

Some changes related to the new UI affect the SuiteScript API. For information about these changes, see [SuiteScript Impact of Updated NetSuite User Interface](#).

For notes to consider about custom forms, see [Custom Forms Impact of Updated NetSuite User Interface](#).

For more detail about the changes in the new UI, see the help topic *New User Interface for Version 2014 Release 2*.

## Help Center UE Improvements

The Help Center has adopted the same new look as the rest of NetSuite in Version 2014 Release 2. In addition to the new font, colors, and icons, the Help Center has added features to assist you in finding the information you need.

- The toolbar has new links for New Release, SuiteApps, and Suite Answers so that you can go immediately to these popular references.
- The table of contents has been reorganized. Much of the information previously located within Additional Resources has been promoted to the same level to make it more accessible. This includes Help Topic Weekly Updates (previously Documentation Revision History), SuiteApps, and New Release. New Release is where you find the Sneak Peeks and Release Notes, as well as instructions for using NetSuite Release Preview.
- When you open help, your cursor is in the search field so that you can start typing key words for your search.

## New Look for Addresses

The enhancements to address customization in Version 2014 Release 2 have resulted in changes to the way addresses are structured in NetSuite. These changes have improved the experience for users viewing and editing addresses on entity, transaction, subsidiary, company information, location, and workplace records. The subtab for addresses has been modified. For some records, addresses have been consolidated from multiple subtabs on parent records to a single subtab, making comparisons less cumbersome. The addresses displayed on the modified subtab are view-only, for a less cluttered look. For example, the following screenshot shows the Addresses subtab on the subsidiary record:

The screenshot shows a web interface with a top navigation bar containing links: Addresses, Vendor Bill Matching, Nexuses, Preferences, Workflow, and System Notes. Below the navigation bar, there are three main sections for managing addresses:

- Address:** A list of addresses including 'Attention: Company Address', 'SUB UK', '64 Newman Street', 'Company Address 2', 'London', 'London', and 'W1T 3EF'. Below the list are 'Map' and 'Edit' links.
- Shipping Address:** A list of addresses including '64 Newman Street ( Shipping )', 'Shipping Address 2', 'London', 'Greater London W1T 3EF', and 'GB'. Below the list are 'Map' and 'Edit' links.
- Return Address:** A list of addresses including '64 Newman Street ( Return )', 'Shipping Address 2', 'London', 'Greater London W1T 3EF', and 'GB'. Below the list are 'Map' and 'Edit' links.

At the bottom of the Address section, there are buttons for 'Save', 'Cancel', and 'Reset', along with an 'Actions' dropdown menu.

Each address has an Edit link or icon that you can click to display a popup address form. The address form that displays is determined by the country of the address. When you select a different country, the address form for that country displays.

The screenshot shows a popup address form for the United Kingdom (GB). The form includes the following fields and controls:

- Country:** A dropdown menu showing 'United Kingdom (GB)'.
- Attention:** A text input field containing 'Attention: Company Address'.
- Addressee:** A text input field containing 'SUB UK'.
- Phone:** A text input field containing '+44 23 92 88 27 01'.
- Address 1:** A text input field containing '64 Newman Street'.
- Address 2:** A text input field containing 'Company Address 2'.
- City:** A text input field containing 'London'.
- State:** A dropdown menu showing 'Greater London'.
- Zip:** A text input field containing 'W1T 3EF'.
- Map:** A button with a location pin icon.
- Override:** A checkbox labeled 'Override'.

At the top of the form, there are 'Cancel' and 'OK' buttons.

For details about newly supported address customizations, see [Enhancements to Address Form Customization](#).

## Advance Notice – Support for Internet Explorer 9 Ending in Version 2015 Release 1

Be aware that as of Version 2015 Release 1, the NetSuite application will no longer support the use of Internet Explorer 9. Advance notice of this change is being provided so users can update to Internet Explorer 10 or later, or switch to another supported browser such as Firefox or Chrome, before that release. Note that this end of support for IE9 does not apply to web stores.

NetSuite strongly recommends that all users make this browser transition as soon as possible to take full advantage of the enhanced user interface supported in Version 2014 Release 2. Changing browsers will provide a more optimal NetSuite experience.

As of Version 2015 Release 1, NetSuite will not be tested with IE9, and support will not be offered for defects specific to IE9.

For a list of currently supported browsers, see the help topic *Supported Browsers for NetSuite*

## Advance Notice – Support for Safari 5 Ending in Version 2015 Release 1

Be aware that as of Version 2015 Release 1, the NetSuite application will no longer support the use of Safari 5. Advance notice of this change is being provided so users can update to Safari 6 or later, or switch to another supported browser such as Firefox or Chrome, before that release. Note that this end of support for Safari 5 does not apply to web stores.

As of Version 2015 Release 1, NetSuite will not be tested with Safari 5, and support will not be offered for defects specific to Safari 5.

## Administration

Version 2014 Release 2 includes the following enhancements to Administration features:

- [System Notes Now Describe Context for Changes](#)
- [New Search Type Reveals Details About Deleted Records](#)
- [Sandbox Expiration Notification](#)
- [Premium Sandbox Account](#)
- [Maximum Dimensions for Company Logo in the Header](#)

### System Notes Now Describe Context for Changes

When viewing data about records, you can now view the context for each change. The context describes how the change was made. For example, updates can be performed through the user interface, Web services, SuiteScript, and several other methods. For a full list of contexts, see the help topic *Available Context Values*.

System Notes • Access •

Field

- All -

View

Custom Default

Customize View

DATE ▾	SET BY	TYPE	FIELD	OLD VALUE	NEW VALUE	CONTEXT
6/27/2014 11:31 am	Susan Thompson	Change	Inactive	F	T	Web Services
6/26/2014 3:03 pm	Susan Thompson	Change	Type	Company	Individual	UI
6/26/2014 3:03 pm	Susan Thompson	Change	Customer ID	Williams Inc.	Andrew Williams	UI
6/26/2014 2:50 pm	Susan Thompson	Set	Email		info@williams.com	UI
6/26/2014 12:50 pm	John Smith	Set	Login Access		F	CSV
6/26/2014 12:50 pm	John Smith	Set	Status		Closed Won	CSV
6/26/2014 12:50 pm	John Smith	Set	Customer ID		Williams Inc.	CSV
6/26/2014 12:50 pm	John Smith	Set	Subsidiary		Parent Company	CSV

## Viewing Context Data

You can view context data in any of the following ways:

- When using the System Notes search type, you can include context in your search filter and search results. For help with this search, see the help topic *Searching System Notes*.
- When using the Audit Trail feature, you can include context as a search filter. For help with this feature, see the help topic *Viewing an Audit Trail for a Record Type*.
- Each record's System Notes subtab now includes a Context column. The exact location of the System Notes subtab varies depending on the record type. In most cases, you can find the System Notes subtab nested on the System Information, History, or General subtab.
- When using the new Deleted Record search type, you can include context in your search filter and search results. For more information about this search type, see [New Search Type Reveals Details About Deleted Records](#).

## Usage Notes

Be aware of the following conditions:

- The list of available context values includes some contexts that occur within other contexts. For example, one context is UI, but other available contexts are specific parts of the UI. In these cases, the system chooses the more specific label. For example, all CSV imports are initiated through the user interface, but a change made by the Import Assistant is labeled CSV, not UI. Similarly, if a user conducts a Mass Update from a mobile device, the context listed is Mass Update, not Mobile.
- When the system gathers context data, it logs one context value for each operation (such as each save operation to a record). It does not log a context for each field that is changed.

This behavior is notable for cases where an operation is initiated through one context, but the first change triggers additional changes executed from other contexts. In these cases, only the context from which the operation was triggered is saved. For example, consider a scheduled workflow that runs, changing Field A on a particular record. If that scheduled workflow triggers a SuiteScript that makes a change to Field B, the context for both changes is Scheduled Workflow.

- Prior to Version 2014 Release 2, context data was not collected. For that reason, it is not possible to show the context for changes made before your account was upgraded to Version 2014 Release 2.

## New Search Type Reveals Details About Deleted Records

Version 2014 Release 2 includes the Deleted Record search type. This search type lets you retrieve the following details about a deleted record:

- The date and time the record was deleted.
- The name of the user who deleted the record.
- The context for the record's deletion. For more information about context, see [System Notes Now Describe Context for Changes](#).
- The record's type.
- The record's name. The way the system populates this column varies depending on the record's type. For example, for an entity record, this column typically reflects the value of the entity's Name field. For some other record types, the Name column may include a more general description.
- Optionally, the record's external ID.

To use this search type, navigate to Report > New Search and click Deleted Record.

Deleted Record Search: Results				
<a href="#">Return To Criteria</a>		<a href="#">Save This Search</a>		
		7/25/2014 — 5/12/2014   Total: 1912		
DATE DELETED x	DELETED BY	CONTEXT	RECORD TYPE	NAME
7/23/2014 4:00 pm	Smith, John	Web Services	Inventory Part	Basic Widget
7/23/2014 3:57 pm	Smith, John	Web Store	Contact	21 Williams, Susan
7/23/2014 3:57 pm	Smith, John	Web Store	Employee	21 Williams, Susan
7/23/2014 3:28 pm	Jane Johnson	UI	Message	
7/23/2014 3:28 pm	Jane Johnson	UI	Case	please review customer order #101
7/23/2014 2:23 pm	Smith, John	Web Services	Case	test for emailing employees

By default, this search type is available to only those users with the Administrators or Full Access role. However, you can grant other roles access using the new Deleted Records

permission. Note that users who have this permission will see results about any type of record that was deleted, even if they do not have permission to create or modify that record type. If a user has both the Deleted Records and the Web Services permissions, that user will also be able to use the getDeleted operation.

#### To add the Deleted Records permission to a role:

1. Go to Setup > Users/Roles > Manage Roles.
2. Open the appropriate role for editing.
3. On the **Permissions** subtab, click **Setup**.
4. Add a line for the **Deleted Records** permission. Note that there is only one possible level for this permission, and it is **Full**. This level is automatically selected.
5. Click **Save**.

## Sandbox Expiration Notification

It is often difficult to remember your sandbox expiration date, and to renew your sandbox account before it expires. The expiration date is important because the status of a sandbox account is automatically set to “Inactive” the day it expires. You cannot log in to an inactive sandbox, and data from expired sandbox accounts is automatically purged 30 days after attaining an inactive status.

Starting in Version 2014 Release 2, you will receive email notification before a sandbox account expires so that you can renew the account without experiencing an interruption of sandbox availability or potential data loss. The notification process is completely automated, no action on your part is required. There are no changes to the UI associated with this feature.

If you are the administrator of the sandbox, you will be notified by email several times before the expiration date, giving you time to renew your sandbox account.

- The first notification email is automatically generated one month before the sandbox expires.
- Follow-up notifications arrive one time a week thereafter until the account is renewed, or until the 30 day grace period is exhausted.

The first notification is similar to the following example:

This is a courtesy reminder that your sandbox account, <account name>, with the Account ID of <account number>, will expire on August 1, 2014. Contact your NetSuite account representative to renew this sandbox account.

If you decide to not renew this sandbox account, it will be set to inactive and you will not be able to log in.

**Note:** The data from the expired sandbox account is purged 30 days after expiration and cannot be recovered.

The expiration of your sandbox account has no effect on your production account. If you have any questions or concerns, please contact your NetSuite account representative.

The final notification is similar to the following example:

This is the final notice that your sandbox account, *<account name>*, with the Account ID of *<account number>*, expired on August 1, 2014. This sandbox has been set to inactive and you will not be able to log in.

**Note:** The data from the expired sandbox account is purged 30 days after expiration and cannot be recovered. If you wish to renew this sandbox account, contact your NetSuite account representative immediately.

The expiration of your sandbox account has no effect on your production account. If you have any questions or concerns, please contact your NetSuite account representative.

## Premium Sandbox Account

Sandbox users who require a high-performance environment (especially those with large volumes of data) will appreciate a new offering from NetSuite, the Premium Sandbox Account. NetSuite will offer three-month licenses for premium sandbox accounts, providing ample opportunity to conduct testing and investigate performance issues in an environment that closely simulates your real production system. Contact your NetSuite account representative if you are interested in obtaining a premium sandbox account.

## Maximum Dimensions for Company Logo in the Header

The maximum size for a logo is now 144 px wide and 30 px high. Images scale to automatically fit within this space. This restriction supports the fixed header in the new visual design for the user interface. For more information about the new UI, see [New Visual Design for User Interface](#).

# Customer Relationship Management (CRM)

Version 2014 Release 2 includes the following enhancements to CRM features:

- [Calendar Enhancements](#)
- [Change to Campaign Calendar](#)
- [Change to Display of Canceled Events](#)
- [Increased File Size Allowance for Email Messages](#)

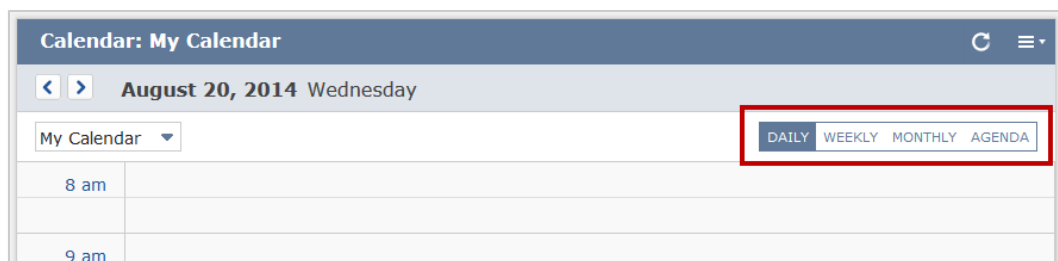


- Use Timesheets from Event, Task and Case Records
- NetSuite for iPhone Version 3.0
- Spam Handling Feedback Loop
- BCC Field On Support Case Email
- Link Support Cases to Transactions
- Campaign Clickthrough Report
- Third Party SMTP Support
- New Fields in Search Join
- Track Bounced Recipients of Non-Bulk Email
- Select Identity in Support Email
- Custom Fields Availability in Duplicate Detection
- Enhancements to Notifications for Online Form Submission
- Scriptable Template Enhancements
- Enhancements to Advanced Promotions
- Campaign Assistant

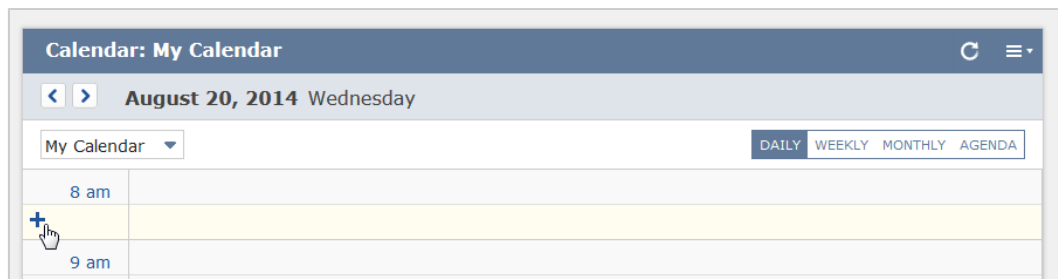
## Calendar Enhancements

Version 2014 Release 2 includes the following improvements to your NetSuite calendar:

- All calendar portlets (day selector, agenda, and calendar detail) have been unified into a single calendar portlet type that you can personalize to meet your needs. You can choose to show events, tasks, phone calls, and campaign events (if your role gives you access to campaigns.)
- You can now include multiple calendar portlets on a single dashboard. This enables you to include a day selector and an agenda view calendar on the same dashboard, for example.
- You can switch between the day, week, month, and agenda view directly on the calendar portlet.



- Add new events from a calendar portlet, by hovering over the time, and clicking the Add icon.



- The scheduled scripts calendar has been removed.

## Change to Campaign Calendar

The campaign calendar has been merged with the event calendar, letting you view campaign events with meetings and other events. The campaign calendar no longer appears in the menu, but you can add it as a calendar portlet on any dashboard.

You can choose to set up a calendar portlet that shows only campaign events. To do this, add a calendar portlet to your dashboard, and click Set Up on the portlet. Check the Show Campaign Events box, then clear the boxes for events, tasks, and phone calls. Click Save.

## Change to Display of Canceled Events

Before Version 2014 Release 2, events with a status of Canceled were always displayed with a red X in calendar portlets. This release enables you to choose whether to display canceled events in each calendar portlet by setting the new **Show Canceled Events** setup option. By default, this option is disabled and canceled events do not display in a calendar portlet. If you enable this option for a portlet, canceled events display in strikethrough text.



## Increased File Size Allowance for Email Messages

Prior to Version 2014 Release 2, the total size of email messages was limited to 15 MB, and attachments could not exceed 5 MB. Now, the total size of email messages can be up to 23.8 MB (25,000,000 bytes), and there is no separate limit on the size of attachments.

**Note:** This 23.8 MB limit includes the base64 encoding that is done for attachments by NetSuite before sending the message.

## Use Timesheets from Event, Task and Case Records

When using the Timesheets feature, you can now track time spent working on events, tasks, and cases directly from the CRM record. Previously, time tracked against CRM records could only be entered directly on the timesheet.

To track time on a timesheet from a CRM record, click the New Time button. A popup window opens with the current timesheet. Enter information about your time and click Save. Your time is now recorded on your timesheet and associated with the CRM record.

**Note:** When creating a new case, task, or event record you must first save the record before you can enter time. After the record has been saved, a New Time button appears.

## NetSuite for iPhone Version 3.0

The NetSuite for iPhone 3.0 app adds new features and enhancements including activity and expense receipt logging.

For more details about NetSuite for iPhone 3.0, see the following:

- [Activity Logging](#)
- [Auto-Call Logging](#)
- [Timezone Synchronization](#)
- [Summary Saved Search Support](#)
- [Expense Receipt Logging](#)

### Activity Logging

NetSuite for iPhone 3.0 enables you to log activities directly from records on your iOS compatible device. This feature has many practical applications including logging phone calls, email, and tasks.

You can add activities to a record in either view or edit mode. The following activities can be logged to specific record types:

Record Type	Supported Activities
Employee	New Note
Customer	New Task
Lead	Log Task
Prospect	New Phone Call
Partner	Log Phone Call
Vendor	New Event
Contact	Log Event
Case	New Note
Opportunity	New Email
Estimate	
Sales Order	
Invoice	
Purchase Order	

## Auto-Call Logging

Auto-Call Logging in NetSuite for iPhone 3.0 enables you to keep track of all your calls directly from your iPhone.

When placing a call through the NetSuite app, the call is automatically logged. Upon your return to the app you are prompted to log the call or defer logging until a later time. You can quickly log a call because many fields are pre-filled.

For convenient access, calls that are not logged are listed in the new Recent Calls dashboard portlet.

**Note:** The following actions in the NetSuite for iPhone app will initiate auto-call logging: calls placed directly from viewing a record, and calls placed using the swipe action from Lead, Prospect, Customer, Contact, and Phone Call record types.

## Timezone Synchronization

NetSuite for iPhone 3.0 supports synchronization of time zones between the NetSuite application and your iPhone's local time (based upon your physical location). You can configure your NetSuite for iPhone app to alert you when your iPhone's local time zone changes. To do this, tap the notification to access the Time Zones screen where you can quickly select a new system time zone for your NetSuite Application.

**Note:** Changing the NetSuite system time zone through your mobile device also changes the system time zone setting in your NetSuite web application. Changing time zone will affect times displayed for calendar events, meetings, and so on. See the help topics *Setting Your Calendar Time Zone* and *Setting the Time Zone*.

## Summary Saved Search Support

NetSuite for iPhone 3.0 supports Summary Saved Searches. You can now run existing Summary Saved Searches and drill down into the search details.

## Expense Receipt Logging

The new Expense Receipt Logging feature, available to all users who have the necessary permission to create Expense Reports, enables you to log and track your expenses during the time you are mobile. Combined with the improved My Expenses portlet, the new Expense Receipt Logging feature makes tracking expenses less cumbersome.

The enhanced My Expenses portlet now offers the following actions:

- **New Expense Report** – Create a new expense report.
- **Capture a Receipt** – Start your mobile device's camera to take a photo of a receipt. After you have taken the picture it is attached to a New Receipt record, which will be listed in the Receipt Log.
- **Receipt Log** – Access a list of all receipts. Select one or more receipts to create a new Expense Report.

**Note:** All related Expense Log information is stored encrypted on your mobile device.

## Spam Handling Feedback Loop

NetSuite now supports Complaint Feedback Loop by which Mail Service Providers notify NetSuite when campaign email was marked as spam by a recipient. NetSuite automatically unsubscribes the recipient from their marketing subscription preferences and sets their global subscription status to Confirmed Opt-Out. The unsubscribed recipient no longer receives email campaigns. This keeps the complaint rate per domain low, increasing the likelihood of MSPs delivering your messages to the inbox of your customers.

## BCC Field On Support Case Email

Version 2014 Release 2 provides the ability to add blind carbon copy (BCC) recipients in email messages sent from a support case record. Reply email from BCC recipients are marked as Internal Only.

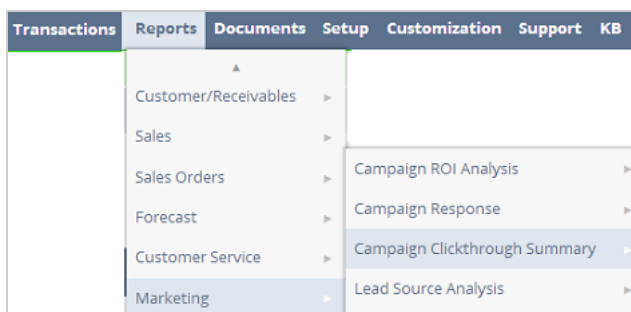
## Link Support Cases to Transactions

It is now possible to link support cases to transactions and vice versa. Seven transaction types are supported including sales orders, invoices, and purchase orders. For example, your company can create an invoice for a repair service performed for a customer and then associate the invoice with the support case that originated the service request. To link a case to a transaction, open the support case record and then click the Related Records subtab. Click New, under Transactions to create a new linked transaction. Click Attach, to link an existing

transaction to the support case. To unattach a linked transaction, click Remove. The Related Records subtab and associated fields are available in supported transaction records, which enables you to link a transaction such as a sales order to a support case.

## Campaign Clickthrough Report

Prior to Version 2014 Release 2, when a recipient clicked any link in a marketing email message, the Campaign Response field was set to Clicked Through, but marketers could not track which link was clicked when a message included multiple links. In Version 2014 Release 2, the new Campaign Clickthrough report displays the specific links that your recipients clicked. The report displays base URLs and subgroups for each URL, based on the GET parameters that are appended to the URL.

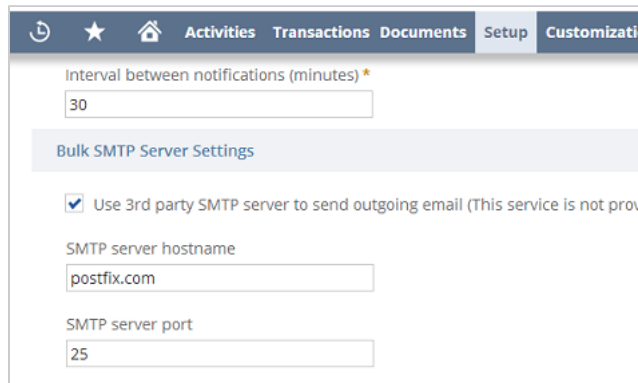
A screenshot of the 'Campaign Clickthrough Summary' report interface. It shows a table with columns for 'Base URL', 'URL', and '# Clicked Thru'. The data is organized into a tree structure under 'Unassigned' > 'Click campaign' > 'Click demo event'.

Base URL	URL	# Clicked Thru
<b>- Unassigned -</b>		
<b>Click campaign</b>		
<b>Click demo event</b>		
http://google.com	http://google.com	4
http://google.com/	http://google.com/?param2=value2	4
	http://google.com/?param=value3	3
<b>Total - http://google.com/</b>		<b>7</b>
<b>http://google.com/something</b>		
	http://google.com/something	2
	http://google.com/something?param2=value2	1
	http://google.com/something?param=value1	4
	http://google.com/something?param=value3	3

## Third Party SMTP Support

Version 2014 Release 2 enables NetSuite users to set up third-party SMTP servers for sending bulk corporate email. Third-party SMTP support enables you to use your infrastructure to maintain control over all aspects of your outgoing bulk email communication. To set up a 3rd party SMTP server, go to Setup > Company > Printing, Fax & Email Preferences. In the Email

subtab under Bulk SMTP Server Settings, check the Use 3rd party SMTP to send outgoing email box, then complete the required information.



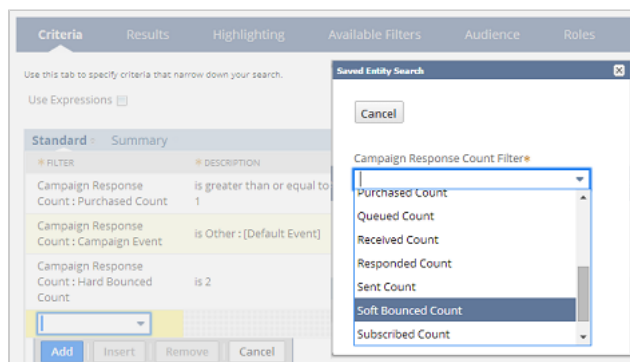
The screenshot shows the 'Bulk SMTP Server Settings' subtab. At the top, there's a navigation bar with icons for a clock, star, home, and tabs for 'Activities', 'Transactions', 'Documents', 'Setup', and 'Customization'. Below the navigation bar, there's a field for 'Interval between notifications (minutes) \*' with a value of '30'. The 'Bulk SMTP Server Settings' section is highlighted. It contains a checkbox labeled 'Use 3rd party SMTP server to send outgoing email (This service is not provided by the system)' which is checked. Below this are three input fields: 'SMTP server hostname' with the value 'postfix.com', 'SMTP server port' with the value '25', and a partially visible 'SMTP server username' field.

## New Fields in Search Join

With Version 2014 Release 2, when you create customer, contact, vendor, employee, and partner saved searches, you can filter the search results based on Campaign Response Count. This new filter provides the number of responses for each response type for the combination of recipient and campaign event.

You can filter campaign responses by Soft Bounced Count, Sent Count, Purchased Count, and more. For example, you create a saved customer search that includes email campaign recipients who triggered a bounce response to a campaign event. In the search form, on the Criteria subtab, choose the Campaign Response Count filter. Choose the field on which to filter data such as Campaign Event. Select an event from the list of available Campaign Events. Add a line of criteria for the Campaign Response Count field. In the Campaign Response Count Filters dropdown list, select Soft Bounced Count. Set the value of the count greater than zero. Save or preview your search results.

The new fields are also available in the Results subtab.



The screenshot shows the 'Criteria' subtab of a search form. The 'Criteria' subtab is active, showing a table with columns 'FILTER' and 'DESCRIPTION'. The table contains three rows: 'Campaign Response Count : Purchased Count' with description 'is greater than or equal to 1', 'Campaign Response Count : Campaign Event' with description 'is Other : [Default Event]', and 'Campaign Response Count : Hard Bounced Count' with description 'is 2'. Below the table are buttons for 'Add', 'Insert', 'Remove', and 'Cancel'. A 'Saved Entity Search' dialog box is open, showing a dropdown menu for 'Campaign Response Count Filter' with options: 'Purchased Count', 'Queued Count', 'Received Count', 'Responded Count', 'Sent Count', 'Soft Bounced Count' (which is highlighted), and 'Subscribed Count'. There is a 'Cancel' button at the top of the dialog.

## Track Bounced Recipients of Non-Bulk Email

In Version 2014 Release 2, NetSuite tracks email addresses that have hard bounced from any email sent from NetSuite including transactional email. Those hard bounced addresses are not sent email through marketing campaigns for a configured period of time. You can view and manage the list of bounced email addresses at Lists > Relationships > Bounced Email Addresses.

## Select Identity in Support Email

When replying to or writing email on a support case, now you can choose from two sender addresses. You can choose the email address on the support case profile or your login email address.

## Custom Fields Availability in Duplicate Detection

With Version 2014 Release 2, you can base duplicate detection criteria on custom fields. On the Set Up Duplicate Detection page, the list of fields for each entity type now includes custom entity fields you have created for those record types. To make a custom entity field available as criteria in duplicate detection, check the Store Value box.

The screenshot shows the 'Set Up Duplicate Detection' interface in NetSuite. The 'Detection' tab is selected, and the 'Detect Customer Duplicates' checkbox is checked. Under 'Fields To Match On', a dropdown menu is open, showing 'Advertising Preference (Custom)' and 'Email (domain only)'. A modal window titled 'Choose Fields To Match On' is also open, displaying a list of custom fields: 'Advertising Preference (Custom)' and 'How did you hear of us? (Custom)'. The modal has 'Done' and 'Cancel' buttons at the bottom.

## Enhancements to Notifications for Online Form Submission

Now, you can set up online case forms to send email notification to a specific list of recipients when a case is submitted. To do this, go to Setup > Support > Online Case Forms > New.



In the new Additional Notification section, enter email addresses of people who should be notified when a customer completes and submits an online case form. You can specify that the notification email use any of the system email templates at Setup > Company > System Email Templates, or you can create a new template.

## Scriptable Template Enhancements

The following enhancements have been made for scriptable templates in Version 2014 Release 2:

- [Deprecation of CRMSDK Templates](#)
- [New Editor for Scriptable Templates](#)
- [Marketing Template Layouts](#)
- [Scriptable Template Categories](#)

## Deprecation of CRMSDK Templates

All email, fax, system, and campaign email templates using CRMSDK tags will be completely deprecated with Version 2015 Release 2. To help you prepare, this change will be implemented over the next few releases.

- Beginning with Version 2014 Release 2, you can no longer create new CRMSDK templates through the NetSuite user interface, but you may still edit existing CRMSDK templates.
- You can no longer create or edit CRMSDK templates using SuiteScript.
- In Version 2015 Release 1, you will not be able to create **or** edit CRMSDK templates.
- With Version 2015 Release 2, templates using CRMSDK tags will no longer be supported.

To assist in preparing for this change, you can convert CRMSDK templates to scriptable templates.

When viewing a CRMSDK template, you can click the Convert to Scriptable button to create a scriptable version of the template. When you convert an email template, you first select the type of record for which the template is used. Then, a new template record is created but not saved until you have reviewed it and made any necessary changes.

NetSuite strongly recommends that you test any converted templates before using them. You can view the template in Source mode to review any fields with hidden logic after conversion.

The older CRMSDK version of your template is not deleted when it is converted so that you can refer to the original template, if necessary. The name of the newly converted scriptable template is appended with **(Converted)**.

A few notes on specific tags:

- Tags that can be used in multiple contexts (for example the Class field, which can appear on transactions and also on entity records) are converted with conditions to reflect these contexts.
- The following tags are not converted: NLISSUEDUPLICATEOFURL, NLISSUEDUPLICATEOF, and NLAVILABLEONLINE.

## New Editor for Scriptable Templates

Version 2014 Release 2 includes an improved editor for creating and updating scriptable templates. This editor provides an improved WYSIWYG view and provides tools for easily formatting your template text and layout. When entering text, misspelled words are underlined in red. You can hold CTRL and right-click to choose the correct spelling.

This new template editor is available for all scriptable templates.

**Note:** If you are editing a template and you change from WYSIWYG mode to Source mode in the editor, you cannot change back to the WYSIWYG view for that template.

## Marketing Template Layouts

Now, when you create a new scriptable marketing template, you can choose from eight different template layouts on which to base your template. You can choose from the following:

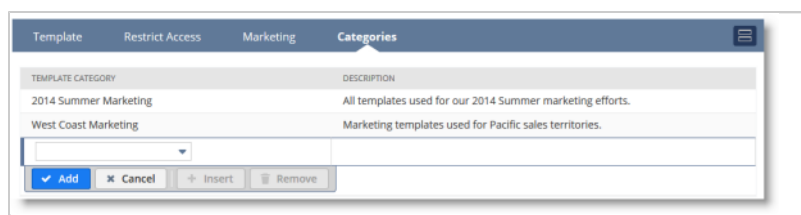
- Blank
- 1 Column
- 2 Columns
- 3 Columns
- 1:2 Columns
- 1:3 Columns
- Left Sidebar
- Right Sidebar

All of these layouts use responsive design and properly adjust when viewed on tablets and mobile devices. When viewed on screens of less than 480 pixels, font sizes are increased and columns are presented vertically rather than side by side.

## Scriptable Template Categories

The new CRM Templates Categories feature enables you to organize all of your email templates into categories. This permits you to quickly filter long lists of templates to find the one you are seeking.

To use template categories, an administrator must enable the CRM Template Categories feature at Setup > Company > Enable Features > CRM. You can create template categories at Documents > Templates > Template Categories > New. From the template category record, you can select templates to assign to that category, and you can assign one or more categories on the Categories subtab of the template record.



Anywhere you select an email or campaign template, you can first filter the list by category to more easily find your template. The Template Category filter appears by default on the email and campaign template lists.

## Enhancements to Advanced Promotions

Version 2014 Release 2 includes the following enhancements to Advanced Promotions:

- [Apply Discounts to the Highest Value Item on an Order](#)
- [Improved Marketing Promotions Management](#)
- [Exclude Items Check Box on Advanced Promotions](#)

### Apply Discounts to the Highest Value Item on an Order

A new option has been added to Item-Based Promotions and Buy X Get Y Promotions. This option enables you to apply a discount to the highest value item on an order. Previously, discounts were applied only to the lowest value item on an order. Note that default behavior has not changed. The new option is not automatically enabled.

To apply a discount to the highest value on an order, click the Discount subtab on an Item-Based Promotion or a Buy X Get Y Promotion. Then, check the Apply Discount to Highest Valued Item box in the popup window. Also, set the maximum number (units) of items on which you are offering the discount. The new option affects only promotions with defined unit limits. You must set a unit limit when selecting items on the promotion.

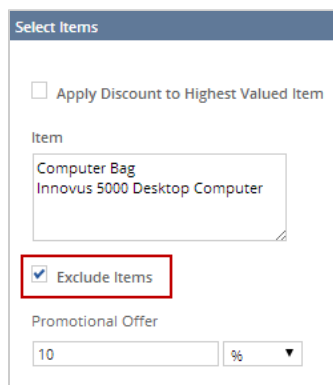
### Improved Marketing Promotions Management

In NetSuite Version 2014 Release 2, Marketing professionals can select items to be excluded from promotional discounts. This feature enables you to manage promotions that apply to

many items but carry just a few exceptions to the rule. For example, you can launch a campaign where all items in the store are 30% off except for a few items.

### Exclude Items Check Box on Advanced Promotions

A check box has been added to the Advanced Promotions SuiteApp. The new check box applies to Item-Based Promotions and Buy X, Get Y Promotion Discounts. The Exclude Items check box is useful if you have a large number of items on sale and you want to exclude a few items from the promotional discount.



The Exclude Items box is cleared by default. You can check the box when you set up your promotion. Check the Exclude Items box in the Select Items popup window. When the box is checked, the items selected (either added individually or added using a saved search) are excluded from the promotional discount. The promotion and discount are applied to all the other items on the order.

## Enterprise Resource Planning (ERP)

Version 2014 Release 2 includes the following enhancements to ERP features:

- Billing Operations
- Purchase Contracts and Blanket Purchase Orders
- EU Digital Services Mini One Stop Shop (MOSS)
- Invoice Approvals
- Automatically Add Charges to Invoices, Cash Sales, Credit Memos, and Cash Refunds
- Multi-Book Accounting Enhancements
- Summarized Revenue Recognition Journal Entries
- Pause/Play Revenue Recognition

- Deferred Revenue Rollforward Report
- Apply to Subtotal Billing Schedules
- GL Audit Numbering for Multi-Book Accounting
- Distribution Resource Planning
- Fulfill Orders Across Multiple Accounting Periods
- Backward Scheduling for Manufacturing
- Expense Charge Rules for Charge-Based Billing
- Absolute Statistical Balance Update
- Multi-Currency Merge
- Charge Record Improvements
- Payment Processing Enhancements
- Summary Accounts for Reporting
- Commission Enhancements
- Customization for Payroll Batch Reporting
- New Process Status Page for Updates of VSOE Delivery Status
- Enhanced Customization for Revenue Reporting
- Manufacturing Operations Overlap
- Work Order Completion Validation Enhancements
- Average Costing for Serial and Lot Numbered Items
- Locations Tracking Enhancements
- Validate Lot Number Available Quantity at Item Commitment
- Manage Lots and Bins on Transactions
- Include Locations in Supply Planning
- Default Payable Account for Expense Reports
- Deprecation of QuickBooks Import
- UPS Enhancements
- Manufacturing Task Scheduler
- Daily Shipment Detail Report
- Fixed Assets Management Enhancements

- Recurring Billing Enhancements
- France Standard Audit File for Tax Purposes (SAF-T)
- Statutory Chart of Accounts
- Online Filing of Withholding Tax Reports for Philippines
- Multi-Book Accounting for International Tax Reports
- Electronic Payments Enhancements
- Dunning
- Support for Bill Credit/Credit Memo
- Support for Term or Early Settlement Discounts
- Requisition Approval Workflow
- 3 Way Match Vendor Bill Approval
- Manufacturing Task Scheduler
- Daily Shipment Detail Report
- Multi-Book Accounting in Fixed Assets Management

## Billing Operations

Release 2014 Version 2 introduces new billing operations that provide automation tools for billing managers and account receivable professionals, providing higher productivity and usability for processing invoices.

You must first enable billing operations to use this feature. To enable billing operations, go to Setup > Company > Enable Features. Under Billing, check the Billing Operations box. After enabling the billing operations feature, a new Billing Operations option is available from the Transactions tab. Go to Transactions > Billing Operations to schedule bill runs, view bill runs, to view and approve invoices, and to view cash sales.

After creating a bill a bill run schedule, you can view all bills created at a predefined schedule by going to Transactions > Billing Operations > Bill Runs. From here you can also access invoices.

Bill Runs									
View Bill Runs Customize View Refresh New Bill Run									
SUBMISSION ID	DATE/TIME	CUSTOMER/GROUP	SCHEDULE	RECORDS	INVOICES	CASH SALES	NOT STARTED	SUCCESSSES	FAILURES
802	6/3/2014 8:38 pm	MCC Static	test2	2	1	1	0	2	0
702	6/3/2014 4:12 pm	MCC Static	test2	0	0	0	0	0	0
602	6/3/2014 3:57 pm	MCC Static	test1	3	0	0	0	0	3

Go to Transactions > Billing Operations > Approve Invoices to access a list of invoices.

Go to Transactions > Billing Operations > Billing Groups, and then click the New Group button to setup billing groups. Billing groups are a group of customers you want to bill. A billing group can be static or dynamic. Static billing groups do not automatically update its members, but you can manually add or remove members to static billing groups. A dynamic billing group automatically updates its list of members based on your saved search list criteria. You cannot manually add or remove members from a dynamic billing group, but you can change your search criteria.

After creating a billing group, you can bill that group of customers on a pre-defined schedule basis. From the Bill Run Schedule option, setup parameters for billing customers. You can define what bills to create (sales orders, expenses, time, item), which customers should be selected for invoicing (single customer or customer group), and when bills get created (frequency). To create a bill run schedule, go to Transactions > Billing Operations > Bill Run Schedules, and then click New. Enter and name, description, and frequency for the bill run schedule. Enter the billing group or selected customers you want to bill, and then Save the bill run schedule. After saving the schedule, you can run the schedule immediately or wait until the scheduled time. Review your scheduled bill runs as often as necessary for your business.

## Purchase Contracts and Blanket Purchase Orders

### Purchase Contracts

In Version 2014 Release 2, the Purchase Contracts feature enables purchasing managers and buyers to use contracted terms, pricing, and delivery schedules when purchasing materials for a company. Now, instead of having terms and pricing based only on a specific purchase order being placed, buyers can automatically take advantage of quantity-based terms and discounts based on an annual volume of goods or services purchased.

To ensure the best pricing, buyers can use contracts to specify on item records the detailed negotiated terms, pricing, and delivery schedules for purchases within a defined period. Then, purchase orders using vendor contracts automatically include the contracted terms and pricing based on the effectivity period of the contract. Ongoing purchases using contracts are tracked for reporting and analytical purposes. Purchase contracts maintain tiered pricing with potential total purchase amount discounts.

Buyers can be alerted for the following:

- When contracts need to be renewed
- When the expiration date is close and minimum has not been met
- When purchases get close to the contract maximum amount

The purchasing management benefits of using purchase contracts include the following:

- Reduce procurement spending by taking advantage of quantity discounts.
- Manage company spending by requiring purchases to be made only through contracted vendors.
- Improve improve buyer efficiency and accuracy to reduce effort and errors that can be associated with numerous vendor communications for each purchase. Pricing is automatic instead of manual and based on sporadic negotiation.

To use purchase contracts, you must enable both the Purchase Orders feature and the Purchase Contracts feature.

**Note:** If you use the Expenses feature, expenses cannot be used on purchase contracts.

**Note:** In the Summary window on Blanket Purchase Orders and Purchase Contracts, the Received Amount field does not show amounts for non-inventory and service items because these items do not impact the General Ledger at receipt.

For more details, read the help topic *Purchase Contracts*.

## Blanket Purchase Orders

In Version 2014 Release 2, use the Blanket Purchase Orders feature to maintain fixed pricing for a preset quantity of items. Deliveries can be scheduled at the time the blanket purchase order is created or items can be released as needed during the set effectivity range. Purchase orders created using information from blanket purchase orders reference the source documents for easy cross-reference.

Procurement processes are more efficient and accurate when using the Blanket Purchase Orders feature to assign negotiated rates and terms to items. Blanket purchase orders help ensure your best pricing across a time horizon and avoid sporadic pricing negotiations with your vendors. Delivery schedules are assigned up-front, minimizing buyer involvement to release schedules into purchase orders. Buyers can be alerted when blanket purchase orders need to be renewed if their expiration date is close but all schedules have not yet been released.

The blanket purchase order form header includes a Maximum Amount field that sums all line amounts (line quantity x rate). Delivery schedules can be manually or automatically generated. Purchase orders can be released manually or based on item lead times.

The Terms subtab on a blanket purchase order can be used for accounts payable and other processes. Also, provide special instructions to vendors using fields on the Special Instructions subtab.

Blanket purchase order releases that are based on item lead times can be released much like items that use reorder points or time-phased replenishment.



When created from delivery schedules, purchase order lines reference the originating blanket purchase order and purchase order numbers are referenced on the blanket purchase order schedule detail.

To use blanket purchase orders, you must enable both the Purchase Orders feature and the Blanket Purchase Orders feature.

**Note:** If you use the Expenses feature, expenses can be used on blanket purchase orders. To do so, enable the Allow Expenses on Purchases preference.

**Note:** In the Summary window on Blanket Purchase Orders and Purchase Contracts, the Received Amount field does not show amounts for non-inventory and service items because these items do not impact the General Ledger at receipt.

For more details, read the help topic *Blanket Purchase Orders*.

## EU Digital Services Mini One Stop Shop (MOSS)

**Important:** As of the December 18, 2014 e-fix, NetSuite now supports the Mini One Stop Shop (MOSS) taxation scheme for the supply of digital services in the European Union (EU). If your company has a MOSS registration, you can enable the MOSS feature in NetSuite and begin setting up your account before January 1, 2015. To enable the MOSS feature, go to Setup > Company > Enable Features, click the Accounting subtab, and check the EU Mini One Stop Shop (MOSS) box. The MOSS tax codes, tax types, and tax control accounts are provided by the International Tax Reports SuiteApp version 3.64 released on December 18, 2014. In NetSuite OneWorld accounts with the International Tax Reports SuiteApp, MOSS tax records are automatically created when a MOSS nexus is saved on a subsidiary record. The MOSS feature can be enabled in NetSuite OneWorld, as well as most UK and International non-OneWorld accounts with Advanced Taxes enabled.

Under European Union (EU) taxation rules prior to January 2015, the sale of digital services to non-VAT registered EU customers was taxed at the VAT rate in the country where the seller's business is established. Digital services include telecommunications, broadcasting, and electronically supplied services (e-services).

Beginning January 1, 2015, the place of supply rules for B2C transactions change to the country where the customer is located. This means that businesses supplying digital services in the EU must charge and report VAT according to the local VAT rules of the customer's EU member state.

To simplify taxation, the EU introduced the Mini One Stop Shop (MOSS) scheme so that digital services suppliers do not have to register in every EU member state where they do business. With the MOSS scheme, businesses submit their MOSS tax returns to one tax agency only, in the country where they are registered for MOSS.

As of the December 18, 2014 e-fix, NetSuite now supports the MOSS taxation scheme for the supply of digital services in the European Union (EU). The e-fix includes the ability to enable the MOSS feature from the Enable Features page, the ability to select a MOSS registered nexus on the Subsidiary page in OneWorld accounts, and on the Company Information page in non-OneWorld accounts, and the ability to mark item records that are subject to VAT under MOSS rules.

Charging VAT according to the customer's location is obligatory, but registration for MOSS is optional for both EU based and non-EU based companies. If your company has a MOSS registration, you can enable the MOSS feature in NetSuite and begin setting up your account before January 1, 2015. To enable the MOSS feature, go to Setup > Company > Enable Features, click the Accounting subtab, and check the EU Mini One Stop Shop (MOSS) box.

After enabling the MOSS feature, edit the Subsidiary or Company Information page, check the MOSS Applies box, and select the MOSS nexus to which you will report the VAT on sales of digital services. When you save the Subsidiary or Company Information page with a MOSS nexus, the system automatically creates the MOSS tax types and tax control accounts, and the MOSS tax codes for the other 27 EU member states. The tax codes for the country where you are registered for MOSS should already have been automatically added by the system when the nexus was created.

The MOSS tax types, tax control accounts, and tax codes for the EU member states are included in the December 18, 2014 release of the International Tax Reports SuiteApp version 3.64. If your account does not have the International Tax Reports SuiteApp, see the help topic *Installing and Setting Up International Tax Reports*.

In OneWorld accounts with the International Tax Reports SuiteApp installed, the MOSS tax codes, tax types, and tax control accounts are automatically created when you assign a MOSS nexus to a subsidiary. See the help topic *EU Mini One Stop Shop (MOSS) Tax Code Provisioning*.

In non-OneWorld accounts, you create the MOSS tax codes by editing a custom record and running a script provided by the International Tax Reports SuiteApp. For detailed steps, see the help topic *MOSS Tax Code Provisioning for Non-OneWorld Accounts*.

MOSS applies only to sales of digital services to non-VAT registered customers in the EU. That is, the customer record's Tax Reg Number field is blank and the Country field is an EU country but different from the country of the MOSS nexus. For web store orders, the tax code to be applied to digital services is determined by the customer's IP address, in conjunction with the billing address, thus providing the two pieces of evidence required under the MOSS legislation.

Before entering MOSS transactions, you must mark the digital services items to which MOSS applies. You cannot create a transaction record in NetSuite that has both a MOSS item and a

non-MOSS item. Web store customers will also not be allowed to have both MOSS and non-MOSS items in the same order.

Upon enabling the MOSS feature, the system adds MOSS fields to some of the NetSuite records. You must edit those records to complete the MOSS setup:

- On the Subsidiary page and the Company Information page, check the MOSS Applies box and select a nexus in the MOSS Nexus field. Saving the MOSS nexus triggers the automatic creation of MOSS tax codes, tax types, and tax control accounts.
- On the Accounting subtab of the Item page, check the MOSS Applies box for digital services items that you sell to EU customers.
- On the Tax Code page, the MOSS Country field is automatically filled for system generated MOSS tax codes. You can inactivate MOSS tax codes for countries where you are sure you will not be getting orders from. If you expect sales from any EU country, then we recommend that you do not inactivate any MOSS tax code so that the system can correctly calculate the VAT for digital services.
- On the Tax Type page, the MOSS box is already checked for system generated MOSS tax types.

**Note:** MOSS VAT returns are submitted quarterly in addition to the normal VAT returns. First returns are required to be submitted by April 20, 2015. Standard MOSS reports that can be used by any EU member state will be available in NetSuite by the end of February 2015.

For more information, see the help topic *EU Mini One Stop Shop (MOSS)*.

## Invoice Approvals

You can now create a customized invoice approval workflow to meet your specific business needs. SOX and auditing requirements often recommend separation of duties, which can be accomplished by having one role create invoices and a second role approving and validating invoices for accuracy.

To create an invoice approval workflow, you must enable Approval Routing for invoices, and then enable SuiteFlow.

### To enable Approval Routing for invoices:

1. Go to Setup > Accounting > Accounting Preferences.
2. Click the **Approval Routing** subtab.
3. Check the **Invoices** box.
4. Click **Save**.

After enabling Approval Routing, you must enable SuiteFlow.

#### To enable SuiteFlow:

1. Go to Setup>Company>Enable Features.
2. Click the **SuiteCloud** subtab.
3. Check the **SuiteFlow** box.
4. Click **Save**.

After enabling Approval Routing and enabling SuiteFlow, create your approval workflow by going to Customization > Scripting > Workflows > New.

For information on how workflow based approval for invoices impacts transactions, read the help topic *Transactional Impacts for Workflow Based Invoice Approvals*.

## Automatically Add Charges to Invoices, Cash Sales, Credit Memos, and Cash Refunds

There is a change in how charges and negative charges are now added to invoices, cash sales, credit memos, and cash refunds. Previously, when a customer was selected on certain transaction types, charges for that customer were automatically added to the transaction. This functionality had the potential to create performance issues when a large number of charges were added to these transaction types. Now, by default, charges are not automatically added to transactions, specifically invoices, cash sales, credit memos, and cash refunds. If you want charges automatically added to these transactions, you must enable this functionality by going to Setup > Accounting > Invoicing Preferences. Select the Charge subtab, and then check the Automatically Add Charges to Invoices, Cash Sales, Credit Memos, and Cash Refunds box. For more information on invoicing preferences, see the help topic *Global Invoicing Preferences*.

If you do not enable this preference, you can still automatically add charges to these transaction types while on the transaction form. There are two new buttons on the transaction form: Add All Charges and Add Charges to Transaction Date. If you click Add All Charges, all charges associated with the customer are added to the transaction. If you click Add Charges to Transaction Date, all charges associated with the customer on and prior to the date on the transaction form are added.

## Multi-Book Accounting Enhancements

The Multi-Book Accounting feature introduced in Version 2014 Release 1 for new accounts only has been enhanced. With the assistance of NetSuite Professional Services, existing accounts can now implement Multi-Book Accounting. Please contact your account representative or NetSuite Professional Services to find out how to get Multi-Book Accounting.

Other enhancements to Multi-Book Accounting are as follows:

- Reports – Multi-Book Accounting is now supported for reports in the following categories:
  - Time & Billing
  - Sales Tax US
  - Sales Tax Canada
  - VAT/GST
- GL audit numbering in secondary books. See [GL Audit Numbering for Multi-Book Accounting](#).

## Summarized Revenue Recognition Journal Entries

NetSuite revenue recognition schedules prior to Version 2014 Release 2 created one detailed journal entry (JE) for all schedules selected on the Create Revenue Recognition Journal Entries page. The JE included separate lines for each schedule, and each line was posted separately in the general ledger (G/L). In addition, revenue recognition JEs were limited to 100 lines per JE. This resulted in performance issues for high-volume users during JE creation and when generating financial reports.

In Version 2014 Release 2, NetSuite introduces the ability to post JEs in either the original detailed form or as a summary. The number of lines in a single journal entry has been increased to 1,000. This is the same limit as manual JEs.

To support this new feature, the Accounting Preferences page includes a new Revenue Recognition preference. It is called Create Revenue Recognition Journals in GL. It has two options:

- **Detail** – posts detailed JEs for revenue recognition. This is the same behavior as in the past, and it is the default for existing accounts.
- **Summary** – posts revenue recognition JE summaries. It is the default for new accounts.

When you select the Summary option, summary JEs can be created based on the following attributes:

- Subsidiary
- Posting Period
- Accounting Book
- Account
- Class

- Department
- Location

If you choose to create a batch of 19 revenue recognition JEs, for example, and all of these attributes are the same for each schedule in the batch, one summary JE is created with two lines. In another example, if you select a batch of 50 schedules that have matching attributes except that two different target accounts are included, then only one summary JE is created. The summary JE has three lines, however, one for the debit and one each for the two credit accounts.

When you view the summary JE in the following screenshot, you see that there are three lines, one for the debit deferred revenue account and one each for the credits to income accounts. All of the key attributes to create the summary JE matched except the revenue recognition destination account. Customer is not one of the summarization attributes, and multiple customers may be included in the same summary JE. Therefore, the Name column in summary JEs is blank. The Details column displays the number of rows included in the line in the summary JE as a link. The Details column and links are outlined in red in the following screenshot.

**Journal** ← → List Search Customize More

1 **CREATED FROM REVENUE RECOGNITION SCHEDULE**

[Edit](#) [Back](#) [Actions](#)

**Primary Information**

Entry No. 1 Date 6/30/2014  
Currency USA Posting Period Jun 2014  
Exchange Rate 1.00

**Classification**

Subsidiary Consolidated Parent Company

**Lines** Communication System Information

3,114.66

ACCOUNT	DEBIT	CREDIT	MEMO	NAME	DEPARTMENT	CLASS	LOCATION	ALLOCATION %	DETAILS	HISTORY
Deferred Revenue	3,114.66		Rev Rec Source						<a href="#">8 rows</a>	<a href="#">History</a>
Subscription Income		1,499.77	Rev Rec Destination						<a href="#">5 rows</a>	<a href="#">History</a>
Professional Services Income		1,614.89	Rev Rec Destination						<a href="#">3 rows</a>	<a href="#">History</a>

[Edit](#) [Back](#) [Actions](#)

When you click the link, a popup window opens with the details. An example of this window is shown in the following screenshot. If the number of rows in the Details column is very large, you may prefer to create a saved search to review the details rather than clicking through.

Revenue Recognition Journal Details: 1

Account	Department
Subscription Income	
Period	Class
Jun 2014	
Total Debit	Location
Total Credit	Memo
1,499.77	Rev Rec Destination

Journal Entry •

CREDIT	DEBIT	CUSTOMER	SCHEDULE NAME	CREATED FROM
100.00		000027 Test Drive	Even Periods, Billing Schedule	Invoice #2
70.59		000218 Moapa Valley Federal Credit Un	Exact Days, 12 mo, Dates from SO	Revenue Commitment #1
70.59		000042 Anonymous Customer	Exact Days, 12 mo, Dates from SO	Invoice #1
1,188.00		000042 Anonymous Customer	Even Periods, Billing Schedule	Invoice #1
70.59		000027 Test Drive	Exact Days, 12 mo, Dates from SO	Invoice #2

The details window includes links to the customer, schedule, and source transaction records.

Multiple customers, schedules, and source transactions may be included in a single summary JE when the required attributes match. For that reason, the customer name is not included in the account register for revenue recognition entries after the summary preference is enabled.

Subscription Income Register						
Date	Number	Payee		Increase	Decrease	Balance
	Type	Account	Memo			
6/30/2014	1			\$1,499.77		(\$1,499.77)
Edit	Journal		Rev Rec Destination			

Using the Summary option for revenue recognition journal entries has no effect on reporting. In reports that enable you to click through to the JE, you click through to the summary JE. From there, you can see the details as described earlier.

## Pause/Play Revenue Recognition

Pause/Play Revenue Recognition enables the management of transaction line revenue recognition based on complex business needs. It is much more robust than the previous delay revenue recognition option. Pause/Play gives users better control of the revenue recognition process and more flexibility in the timing of revenue recognition. Pause/Play Revenue Recognition enables users to:

- Generate revenue recognition schedules, but not journal entries, for transaction lines when the Hold Revenue Recognition box is checked
- Pause revenue recognition after a revenue recognition schedule has started by putting the schedule on hold

- Set the default to Hold Revenue Recognition on the item record
- Restart revenue recognition and recognize the pending revenue by removing the hold on the schedule
- Select a different catch up period than the default to recognize the pending revenue

Pause/Play introduces a new status for revenue recognition schedules called On Hold. Now revenue recognition schedules can be created already on hold. When the revenue recognition schedule is on hold, journal entries cannot be generated from the schedule and scheduled revenue accumulates as pending revenue. When the hold is removed, journal entries can again be generated, and the pending revenue is recognized in the catch up period. By default, the catch up period is the next open period, but you can change it to another open period.

To facilitate changing the status of revenue recognition, a new Manage Revenue Recognition page has been created. To access this page, click the Manage Revenue Recognition button on the transaction. The Manage Revenue Recognition button appears on the following transactions when the Revenue Recognition feature is enabled and at least one item in the transaction has a deferred revenue account:

- Sales Orders
- Invoices
- Cash Sales
- Revenue Commitments
- Cash Refunds
- Return Authorizations
- Revenue Commitment Reversals

The Delay Rev. Rec. column that was available for transactions through customization in previous releases has been renamed Hold Revenue Recognition. An option to add a Catch Up Period column to transactions has been added.

For more information about Pause/Play Revenue Recognition, see the help topic *Managing Revenue Recognition*.

## Deferred Revenue Rollforward Report

The new NetSuite Deferred Revenue Rollforward report consolidates components of the Deferred Revenue by Customer, Revenue by Customer, and Billing and Revenue Summary reports into one comprehensive summary report with two linked detail reports. You can use this report during the monthly close process to reconcile the movement of revenue from the balance sheet to the income statement. The report starts with the beginning balance for each deferred revenue account and displays the activities for the selected period range to arrive at the ending balance.



The detail reports are the Deferred Revenue Rollforward By Customer Summary and the Deferred Revenue Rollforward Transaction Details. They are accessible by drilling down on numbers in the higher level summary reports and from the Reports menu. NetSuite highly recommends that high-volume customers schedule these detail reports to run in the background during off-peak hours.

For more information, see the help topic *Deferred Revenue Rollforward Report*.

## Apply to Subtotal Billing Schedules

With Version 2014 Release 2, in addition to existing billing schedule capabilities, you can create billing schedules that bill fixed currency amounts based on the transaction line item subtotal of a sales order. To use this feature, you must enable *Advanced Billing*. After enabling Advanced Billing, access billing schedules by going to Lists > Accounting > Billing Schedules.

To create a fixed amount billing schedule for a transaction subtotal, the sales order Type must be Standard and Recurrence Frequency must be Custom. On the sales order, check the Apply to Subtotal box. When you check this box, you can enter a schedule of fixed amounts billed against the pre-tax, pre-discount transaction subtotal.

## GL Audit Numbering for Multi-Book Accounting

The GL Audit Numbering feature has been enhanced to provide book-specific G/L numbering sequences in the multi-book accounting environment. The feature has been further enhanced to provide the ability to perform the G/L audit numbering period close process across multiple accounting books. For more information, see the help topics *Using GL Audit Numbering* and *GL Audit Numbering Report*.

## Distribution Resource Planning

In Version 2014 Release 2, supply chain planners can use the Distribution Resource Planning feature to plan inventory across locations and subsidiaries. Items can be transferred between location to meet supply needs within a preset distribution network. When Distribution Resource Planning is enabled, in addition to increasing supply by either purchasing or building an item, you now have the option to increase inventory by transferring items from another location within your distribution network.

Using NetSuite, distribution planning is implemented based on a subsidiary-wide distribution network. For example, Wolfe International includes the following subsidiaries:

- North America
- EMEA
- APAC

Each subsidiary manages multiple distribution categories:

- North America: NA Soap, NA Paper, NA Drinks
- EMEA: EMEA Soap, EMEA Paper, EMEA Drinks
- APAC: APAC Soap, APAC Paper, APAC Drinks

For each distribution category, goods are distributed across locations within the network, per subsidiary.

#### Soap Category

- Factory 1
  - Warehouse 1
    - Retail Location 1
    - Retail Location 2
  - Warehouse 2
    - Retail Location 3
    - Retail Location 4

Retail Location 1 has a large supply of Deluxe Soap, but low demand for it. Retail Location 3 has a low supply of Deluxe Soap, but high demand for it. Because both locations are in the same subsidiary, Wolfe can use Distribution Resource Planning to transfer items from Location 1 to Location 3 in order to meet demand.

When you enable the Distribution Resource Planning feature, an item record shows a new supply type called Transfer. When a supply type of transfer is identified, NetSuite determines the source location of the transfer order based on the bill of distribution associated with the item.

To use Distribution Resource Planning, complete the following steps:

1. Enable the feature.
2. Set preferences.
  - Under Setup > Accounting > Accounting Preferences > Transfer orders:
    - Default transfer Order Status
    - Generate Transfer Orders in Supply Planning
    - Use Item Cost as transfer Cost
3. Create distribution categories.
4. Create a distribution network and define distribution categories.

5. Create bill of distribution.
6. Associate the distribution category and network to an item.

To use the Distribution Resource Planning feature you must enable the Demand Planning feature and Multi-location Inventory feature.

## Fulfill Orders Across Multiple Accounting Periods

In Version 2014 Release 2, when the Pick, Pack, and Ship feature is enabled, you can pick items in one accounting period and ship in another accounting period.

For example, you may want to enter the following for an order:

Order entered	March 1	Accounting period not yet selected.
Order picked	March 26	Accounting period not yet selected.
Order packed	March 27	Accounting period not yet selected.
Order shipped	April 2	Accounting period must be selected. Field populates based on the Shipped Date by default.

After the order status is marked Shipped, to save the order, the transaction date of the item fulfillment must be in an open accounting period and an accounting period must be selected. The period based on the shipped date shows by default in the Accounting Period field.

To fulfill across periods, you must enable the Update Transaction Date Upon Fulfillment Status Change preference. Preferences can be set at Setup > Accounting > Accounting Preferences by a user who has the Set Up Accounting permission.

After this preference is enabled, NetSuite can update the transaction date based on status changes. When you initially enter the fulfillment, the transaction date field is populated with the current date. For additional details, read the help topic *Fulfilling Orders Across Multiple Accounting Periods*.

## Backward Scheduling for Manufacturing

Prior to Version 2014 Release 2, Manufacturing operations on work order were scheduled only using the Forward Scheduling method. A Production Start Date was entered so the scheduling engine could calculate ahead to find the Production End Date. Now, you can choose to use the Backward Scheduling method for supply planning.

When you use the Backward Scheduling method for production planning, you set the production end date, which is the date you need to have the completed items. Then, based on data from the associated routing, as well as the related work center calendar, NetSuite calculates the time, materials, and resources required to complete all necessary operations. The production start date and time is determined based on these calculations.

For example, you must schedule an order of widgets that requires two operations to complete a production run. Each operation requires 1 day of setup time and 10 days of production time. Operation 1 must be complete before Operation 2 can start.

Using Backward Scheduling, when you enter the date you need the items completed, NetSuite can use the information above to calculate the day work must begin to complete production on time. When a work order is created by a supply plan, NetSuite schedules work so that the last operation is completed before the due date. Because the due date time is 00:01 AM, the last operation on the work order is scheduled to be completed by 11:59 PM on the day before the due date.

The time displayed for each operation is based on work hours set for each work center.

Planners that use the Backward Scheduling method can appreciate accuracy that can help reduce waste of manufacturing resources. Because NetSuite automatically calculates start dates, time is not wasted trying to figure out when a work order production must start for it to be finished by certain date. Work order production is scheduled to start as late as possible, giving planners flexibility to cancel or change an order, if needed.

**Note:** Be aware of the following regarding Backward Scheduling:

The NetSuite planning engine calculations may set a production start date in the past, depending on the end date entered.

Production work is not automatically re-allocated based on resource capacity. After work orders are created, you may need to assess resource assignments.

## Expense Charge Rules for Charge-Based Billing

With Charge-Based Billing and Project Management, you can now create charges for your projects from expenses on expense reports and vendor bills to be processed through the charge system. Expense based charge rules introduce the ability to filter which expense lines are pushed through to charges as well as marking up or discounting them based on category or expense item.

To use expense charge rules for charge-based projects, you must first create expense items and associate those items to expense categories.

### To create an expense item:

1. Go to Lists > Accounting > Items > New. Click **Expense** in the **Item Type** column.
2. Enter a name for your item.
3. On the **Accounting** subtab, in the **Expense Account** field, select an expense account for this item.
4. Click **Save**.

You can add your new expense items to existing expense categories or you can create new expense categories. For more information, see the help topic *Creating an Expense Category*.

#### To add an expense item to an expense category:

1. Go to Setup > Accounting > Expense Categories.
2. Click **Edit** next to the expense category you want to add an expense item to.
3. In the **Expense Item** field, select an expense item.

**Note:** When you select an expense item, NetSuite automatically updates the associated expense account for this category to match the selected account for the expense item. Any new transactions using this expense category are associated with the new expense account. Existing transactions maintain the original expense account.

4. Click **OK**.
5. Click **Save**.

Now, when an expense report or vendor bill is entered for your project the expenses can be charged with charge-based billing.

For charges to be created using charge-based billing, you must set the Billing Type on the Financial subtab of your project record to Charge-Based and create charge rules to determine how you want expenses charged for your project.

#### To create an expense-based charge rule:

1. Go to Lists > Relationships > Projects. Click **Edit** next to the project for which you want to create a charge rule.
2. On the **Financial** subtab, in the **Billing Type** field, select **Charge-Based**. Click **Save**.
3. Click the **Financial** subtab.
4. Click **Expense-Based Rules**.
5. Click **New Expense-Based Rule**. A popup window opens.
6. In the **Name** field, enter a name for your charge rule.
7. Enter a description for this rule.
8. In the **Discount / Markup** field, you can enter a discount or markup for expenses charged through this rule. You must enter the portion of the expense you want charged. For example, if you want to offer a 25% discount on mileage expenses you would enter 0.75 in this field. If you wanted to offer a 25% markup, you would enter 1.25.
9. In the **Initial Charge Stage** field, choose whether charges created by this rule are created with the stage of **Ready** or **Hold**.

Charges can be set to **Hold** if you have an approval process for charges prior to billing them.

10. Enter the rule order for this charge rule.

Expense-based charge rules are run in order. Any expense entered can generate charges only from a single charge rule. You can have multiple rules for each project, but each expense will generate charges only from the first rule that is applied to the expense.

11. Under **Filters**, enter any additional criteria you want to use to determine which expenses are used to generate charges.

For example, if you charge different mark ups and discounts for expenses, you might filter a rule to apply only to a certain expense item.

12. Click **Save**.

Your expense-based rule is now ready to run with any other time-based or fixed fee rules you may have for each project.

For more information, see the help topic *Charge-Based Project Billing*.

## Absolute Statistical Balance Update

The Statistical Accounts feature was introduced in Version 2014 Release 1. In that release you could both manually and automatically make statistical journal entries for any statistical account. New journal entries would track the increase and decrease of a statistical balance, based on the difference between the previous and new journal values.

In Version 2014 Release 2, you can record an absolute statistical balance rather than track detailed changes. This enhancement is valuable for those users who capture periodic reports on statistical non-monetary data and want to update the balance of multiple statistical accounts at the same time. For example, you receive a monthly report from your Operations Department that provides the square footage of office space used by each department in your organization. Rather than track the periodic differences in used office space across departments, you enter the absolute value for each statistical account, which overwrites all previous values. The absolute values are then available to you through reporting. If you have enabled the Dynamic Allocation feature, you can use absolute values in dynamic allocation schedules.

For more information, see the help topic *Making Statistical Journal Entries*.

## Multi-Currency Merge

Version 2014 Release 2 merges the specific capabilities associated with the Multiple Currencies, Multi-Currency Customers, and Multi-Currency Vendors features.

If you are new to NetSuite, already using all three features, or not using all three features, the Multiple Currencies box will appear on the Company subtab of the Enable Features page. You can enable or disable this feature. When you enable this feature, you gain access to support for multiple currency customers and vendors.

If you are already using the Multiple Currencies and Multi-Currency Customers or Multi-Currency Vendors but not all three features, you will continue to see and maintain three boxes on the Company subtab.

Regardless of the number of boxes visible in your account, the purpose associated with these three features remains the same. For more information, see the help topic *Working with Currencies*.

## Charge Record Improvements

New fields and updated options for existing fields have been added to support charge-based billing in NetSuite. On the Charge record, the Charge Stage field now has a Non-Billable option, allowing you to create charges that are not used for billing purposes. New fields include:

- Subsidiary
- Units
- Memo
- Service Start Date
- Service End Date

For more information on Charge-Based Billing, including enabling this feature, see the help topic *Setting Up Charge-Based Billing*.

## Payment Processing Enhancements

The following enhancements have been made to payment processing in Version 2014 Release 2:

- [Filtering Payment Methods by Customer Currency](#)
- [Shopper Notification for Payment Gateway Timeouts](#)
- [Fraudulence Tagging for CyberSource Decision Manager](#)
- [Changes to Credit Card Processors with Multiple Web Sites](#)
- [Custom Credit Card Images for Payment Methods](#)

### Filtering Payment Methods by Customer Currency

Now, you can choose to show only those payment methods that are available for a specific web site customer's currencies. To do this, go to Setup > Site Builder > Set Up Web Site. On the

Shopping subtab, under Payments, check the Restrict Payment Methods by Customer Currency box.

### Shopper Notification for Payment Gateway Timeouts

Prior to Version 2014 Release 2, when a web store customer attempted to make payment but the authorization request to the credit card gateway could not be completed, the customer did not receive notification that the payment had timed out.

Now, when a payment authorization cannot be completed, an error is presented to the shopper. If you capture orders as cash sales, payment is not captured, and the customer is asked to try again later. If you capture orders as sales orders, it is captured with the status On Hold. In both cases, the gateway timeout is recorded as a payment event.

### Fraudulence Tagging for CyberSource Decision Manager

With Version 2014 Release 2, you can enhance the ability of the CyberSource Decision Manager to detect fraudulent transactions by identifying those items that have the highest risk of fraud.

If you use the CyberSource Decision Manager, you can customize the item record to include the Fraud Risk field. Setting this field on an item indicates the item's likelihood of being used fraudulently and gives the Decision Manager more data that it can use to detect fraudulent transactions.

### Changes to Credit Card Processors with Multiple Web Sites

Prior to Version 2014 Release 2, if you used the Multiple Web Sites feature, you could set only a single credit card processor for each web site on the Set Up Web Site page. Now, when you set up a credit card processor, you can choose which web sites it is used on, giving you the ability to configure different processors for different credit cards on the same site.

To set up a credit card processor for a web site, open the credit card processor record. In the site field, select the web sites this credit card processor is used for. Then, select the credit cards that use this processor, and save the processor record.

### Custom Credit Card Images for Payment Methods

Now, you can add custom images for payment methods. To add credit card images, edit the payment method record, and click the Payment Visuals subtab. In the Flags column, enter **web/standard** to define an image for SiteBuilder web sites. (You can enter a different flag for use in SuiteCommerce Advanced web sites.) Paste the URL for the image you want to use for this payment method, click Add, and save the record.

If you enter more than one image with the **web/standard** flag, all of those images will show when that flag is used (for example, on SiteBuilder web sites.)

Default images have been added for existing payment methods with the **web/standard** flag.



## Summary Accounts for Reporting

Version 2014 Release 2 enables you to create an account record solely for reporting purposes. Summary accounts are useful when you want to create a non-posting, inactive parent account that has active child accounts. New summary accounts in a non-OneWorld environment cannot have an opening balance. An existing account with a transaction balance can be converted into a summary account, but cannot have additional posted transactions. Summary accounts appear with their children in the Chart of Accounts list. Summary accounts cannot be merged into other accounts. For more information, see the help topics *Working with the Chart of Accounts* and *Creating Accounts*.

## Commission Enhancements

- [Enhanced Commission Records](#)
- [Custom Commission Fields](#)

### Enhanced Commission Records

The employee commission feature has been enhanced to provide the name of the supervisor assigned to the employee on individual commission records. Both employee and partner commission features have been enhanced to provide the current exchange rate and foreign currency amount, if applicable, on the Other Commissions subtab of the individual commission records. For more information, see the help topics *Authorizing Individual Employee Commissions*, *Authorizing Individual Partner Commissions*, and *Approving Employee Commissions*.

### Custom Commission Fields

Version 2014 Release 2 enables you to create custom transaction column fields of currency type for any standard or custom currency amount field. You can then use those fields on Partner and Employee Commission Schedules and when defining quota measurements. For more information, see the help topics *Enabling Employee and Payroll Features*, *Creating an Employee Commission Schedule*, *Partner Commission Schedules*, and *Establishing a Quota*.

## Customization for Payroll Batch Reporting

Fields and a filter have been added to some payroll reports so that you can customize the reports to see information for calculated but uncommitted payroll batches. Prior to this enhancement only information for committed payroll batches was available.

The fields are under Payroll Transactions in the Add Fields pane. The new fields are:

- Batch: Batch Number

- Batch: Check Date
- Batch Status: Status

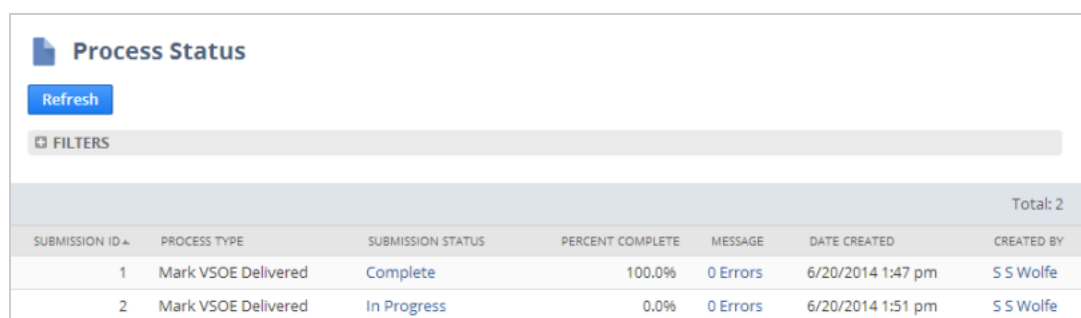
The new filter is Batch Status: Status. It is a multi-select filter with the values Committed and Calculated. The default value is Committed. The new filter has been added to the following standard reports:

- Payroll Journal
- Payroll Summary
- Payroll Summary by Employee
- Payroll Detail
- Hours & Earnings
- Service Fees

## New Process Status Page for Updates of VSOE Delivery Status

You can update the vendor-specific objective evidence (VSOE) delivery status for many items at one time using the Mark VSOE Delivered Status page (Transactions > Financial > Mark VSOE Delivered Status). Prior to Version 2014 Release 2, when you selected items on this page and clicked Mark Delivered, the items disappeared from the page.

Beginning with Version 2014 Release 2, bulk updating of the VSOE delivery status on items uses the same process as many other bulk transactions and record updates in NetSuite. Now when you select items and click Mark Delivered on the Mark VSOE Delivered Status page, the Process Status page opens.



Process Status						
Refresh						
FILTERS						
						Total: 2
SUBMISSION ID ▲	PROCESS TYPE	SUBMISSION STATUS	PERCENT COMPLETE	MESSAGE	DATE CREATED	CREATED BY
1	Mark VSOE Delivered	Complete	100.0%	0 Errors	6/20/2014 1:47 pm	S S Wolfe
2	Mark VSOE Delivered	In Progress	0.0%	0 Errors	6/20/2014 1:51 pm	S S Wolfe

Click Refresh to update the Submission Status. Click the links in this column to go to the Processed Records page, which includes links to the source transactions for the items.

You can also access the Process Status page directly from the navigation menu. Go to Transactions > Financial > Mark VSOE Delivered Status > Status to open this page.

## Enhanced Customization for Revenue Reporting

The Enhanced Deferred Revenue Reports feature in Version 2014 Release 1 added four fields to the Transaction Dimension group to enable customization of a limited set of deferred revenue reconciliation reports. Now in Version 2014 Release 2, the set of reports that can include the additional fields has been expanded, and two of the fields have been renamed to clarify that they refer to revenue recognition.

The four fields added to the Transaction Dimension group are:

- Source Rev. Rec. Document Number (originally Source Document Number)
- Source Rev. Rec. Document Type (originally Source Document Type)
- Source Rev. Rec. Start Date
- Source Rec. Rec. End Date

You can add these fields in Edit Columns, Filters, and Sorting. When you add these fields as columns in the report, you can identify and drill down to the original source. You can add these fields to the following reports:

- Deferred Revenue By Customer
- Deferred Revenue by Item
- Deferred Revenue By State
- Revenue by Customer
- Revenue By Item
- Revenue By State
- Deferred Revenue Reclassification Activity
- Deferred Revenue Reclassification
- Revenue Reclassification Summary
- Revenue Reclassification Detail
- Purchase Order History
- Sales Tax Analysis
- A/P Payment History by Payment
- A/P Payment History by Bill
- A/R Payment History by Payment
- A/R Payment History by Invoice

## Manufacturing Operations Overlap

In Version 2014 Release 2, when you use the Manufacturing Routing feature, multiple work orders can now be processed in a staggered method throughout the production cycle rather than one at a time. For example, a manufacturing routing requires two steps to complete a work order. However, work on Step 2 requires that only half of Step 1 is completed. Therefore, it is more efficient to start Step 2 when Step 1 is half complete rather than waiting until all of Step 1 is complete to begin step 2. This can be accomplished by defining overlap for operations on the routing record.

A planning operator defines how the subsequent operation can overlap an earlier operation by entering the lag amount based on time, quantity or percentage on the manufacturing routing. After the defined portion of the first operation is completed, the second operation automatically begins. If you choose to autocalculate the routing, NetSuite can calculate the shortest possible lead time for each work order operation.

On the manufacturing routing record, define the following:

- Overlap
- Overlap Amount
- Overlap Unit of Measure

On work orders you create, these values will default from the routing, but can be changed on individual orders.

To use operations overlap, you must enable these features:

- Manufacturing Routing and Work Center
- Manufacturing Work In Process

## Work Order Completion Validation Enhancements

In Version 2014 Release 2, completion validations will function when a work order is edited or deleted if you use the Check Completed Quantity in Prior Operations During Operation Completion preference. This preference validates that routing operation sequences are always followed in accordance with the work order. When the preference is enabled, NetSuite ensures that the correct quantity is completed for each operational step before permitting the work order to continue being processed. For more information, read the help topic *Routing Work Order Completions*.

## Average Costing for Serial and Lot Numbered Items

In Version 2014 Release 2, if you use lot numbering or serial numbering to track inventory, you can now choose to use Average costing for these items. Please note that as of this release,

the Average costing method shows by default when you create new lot and serial numbered inventory item records. Previously, these records defaulted to use Specific or Lot Numbered costing.

To change the default costing method, complete the following steps:

1. Go to Setup > Accounting > Preferences > Accounting Preferences.
2. Click the **Items/Transactions** subtab.
3. In the **Default Inventory Costing Method** field, select the appropriate method.
4. Click **Save**.

The Costing Method field on item records shows your new selection by default. You can still select another method when creating an item record, if needed. For more information, click Help and read Changing Your Costing Method.

## Locations Tracking Enhancements

In Version 2014 Release 2, the following updates have been made regarding location management:

- Location fields now respect the setting for the Maximum Entries in Dropdown preference.
- Segments of the Locations subtab now respect the setting for the Number of Rows in Segment preference.

## Validate Lot Number Available Quantity at Item Commitment

Previously, lot-numbered inventory availability was validated only for some, but not all, actions within the sales order entry and fulfillment processes. In Version 2014 Release 2, NetSuite can incorporate additional validation to ensure that the lot quantity available for an item is sufficient to meet the lot quantity inventory detail entered on a sales order line.

This validation for lot-numbered inventory can prevent the mistaken allocation of unavailable items to orders. If the lot quantity available is not sufficient to meet the inventory detail line quantity on the sales order, NetSuite warns you.

This availability validation occurs on a per lot-level in the following situations:

- When a sales order is approved – When viewing a sales order, if you click the Approve button, item commitment occurs only for lot-numbered inventory that is validated to be available.
- During line-item status changes on sales orders – If the item commitment status is changed for a sales order line or the Closed status is removed, then NetSuite verifies lot-numbered item availability.

- When a line-item commitment option changes from **Do Not Commit** to **Quantity Available** – On the Approve Sales Order page, when orders are submitted, an order status is updated to Pending Fulfillment only if lot-numbered inventory lines on the order are validated to be available.

**Note:** This preference is enabled automatically for new NetSuite accounts. For existing NetSuite accounts, contact NetSuite support to have this preference enabled: Validate Lot Number Available Quantity at Item Commitment.

## Manage Lots and Bins on Transactions

### Lot Quantity Available Across Bins: Reserve Inventory by Lot

In Version 2014 Release 2, when you use the Lot Tracking feature, you have better visibility of lot allocations during sales order entry and fulfillment.

When you allocate lot numbered items on a sales order, NetSuite validates that the quantity is available. Also, when you add lot numbered items to an item fulfillment in the Inventory Details window, NetSuite validates that the quantity is available.

Prior to Version 2014 Release 2, lot numbered items specified on a sales order reserved the items at a per-lot level. The quantity available to reserve per lot was displayed in the column named Available.

Now, using Version 2014 Release 2, the column previously named Available is visible only when a form is viewed in Edit mode. When viewing a form in View mode, you must click the lot hyperlink to access the quantity available. For improved clarity, the name of the column previously named Available is now named Lot Qty Available Across Bins. This name change is included in the Inventory Detail window and the Add Multiple popup. The column name change affects only lot numbered items which use bins.

This change affects sales orders, work orders, transfer orders, and vendor return authorizations.

### Fulfill Inventory by Lot

Prior to Version 2014 Release 2, when a bin number was entered on an item fulfillment for a lot-numbered item, the Available column displayed the quantity available to be picked based on the specified lot and bin.

Using Version 2014 Release 2, the following changes are implemented for improved clarity:

- The column previously named Available is visible only when a form is viewed in Edit mode.
- When viewing a form in View mode, you must click the lot hyperlink to access the quantity available.

- In View mode, the column previously named Available is now named Lot Qty Available Across Bins.
- In Edit mode, the column previously named Available is now named Unpicked Bin Qty.
- In Edit mode, a new column is displayed named Serial/Lot Qty Available Across Bins. This column displays the total quantity available across all bins that contain the indicated lot number. It displays only for Lot numbered items that use bins. This column displays on standalone cash sales and invoices, assembly builds (for components), work order issues, and assembly unbills (for the assembly item itself.)

## Include Locations in Supply Planning

In Version 2014 Release 2, when you use the Demand Planning feature, location records now include a new field, **Include in Supply Planning**. When the Plan Through Distribution Network preference is enabled, NetSuite completes supply planning calculations including only locations that have this setting enabled.

At the time your account is upgraded to Version 14 Release 2: On new location records you create, this setting defaults to be disabled. For previously existing locations that have existing demand plans or supply plans, NetSuite enables the Include in Supply Plan setting. For previously existing locations that do not have existing demand plans or supply plans, you must manually enable the Include in Supply Plan setting on the location record to include the location in future supply planning calculations.

## Default Payable Account for Expense Reports

Companies with multiple payable accounts can now set a company-wide default payable account for expense reports. Setting a default account provides more consistent expense reporting across your company.

To set the default payable account, go to Setup > Accounting > Accounting Preferences. Click the Time & Expenses subtab. In the Default Payable Account for Expense Reports field, select a payable account. Click Save.

**Note:** In OneWorld accounts, the preference is set by subsidiary. Go to Setup > Company > Subsidiaries. Click Edit next to the subsidiary you want to update. Click the Preferences subtab. In the Default Payable Account for Expense Reports field, select a payable account. Click Save.

## Deprecation of QuickBooks Import

As of Version 2014 Release 2, the QuickBooks import capability has been deprecated. The Setup > Import/Export > Send us Your QuickBooks File menu option is no longer available.

A possible alternative is to import data from CSV files. For information about importing CSV data into NetSuite with the Import Assistant, see the help topic *CSV Imports Overview*.

## UPS Enhancements

Three new enhancements are available for users who work with Item Fulfillment and use a UPS Shipping Method:

- [UPS Address Validation](#)
- [UPS Return Support](#)
- [U.S. Certificates of Origins for UPS International Shipments](#)
- [Expected Receipt Date Field](#)

### UPS Address Validation

For UPS shipments in the US and Puerto Rico, you can enable address verification to ensure that shipping addresses are properly entered.

To enable UPS address validation, go to Setup > Accounting > Shipping, and click the Preferences subtab. Check the UPS Address Validation box, and click Save.

This validation is available only for shipping addresses. Return shipping addresses are not validated.

### UPS Return Support

With Version 2014 Release 2, you can print a return label when you print the shipping label for an item fulfillment.

To create return labels, edit a UPS shipping item, and click the Shipping Labels subtab. Check the Return Label Integration box, and select the UPS service you want to use for returns.

Then, when you create a fulfillment, the customer's address displays on the Shipping subtab in the address fields under Return Shipping Address. If the customer's address does not display, you must enter the return label address. On the Packages subtab, ensure that you have entered a description for each package.

When you save the fulfillment, a return label is requested from UPS, and when you print the shipping labels, both the outbound shipping label and the return label are printed.

### U.S. Certificates of Origins for UPS International Shipments

When shipping internationally through UPS, you can now print certificates of origin for all items manufactured in the United States or Puerto Rico.



When you fulfill an order you are shipping internationally and you print your UPS forms, a certificate of origin is included in the forms printed for the order.

### **Expected Receipt Date Field**

If the Purchase Orders feature and Advanced Receiving feature are enabled in your account, the Expected Receipt Date field shows on purchase order forms using Version 2014 Release 2. Previously, this field was available on purchase order forms only when the Demand Planning feature was enabled.

Use the Expected Receipt Date field to track the date you anticipate you will receive goods from a vendor.

## **Projects**

Version 2014 Release 2 includes the following enhancements to Projects features:

- [Advanced Projects is Now Project Management](#)
- [Intercompany Job Costing](#)
- [Job Costing Preferences](#)
- [Post All Time for Job Costing](#)
- [New Opportunities Subtab on Project Records](#)
- [Resource Allocation Chart Enhancements](#)

### **Advanced Projects is Now Project Management**

The NetSuite feature formerly known as Advanced Projects has been renamed Project Management. The new Project Management name better describes the capabilities available when using this feature.

### **Intercompany Job Costing**

The Job Costing feature introduced in Release 14 Version 1 enables you to calculate costs for labor based on tracked time, and account for those costs in your general ledger. Now, with Intercompany Job Costing, OneWorld users can transfer the associated cost of a resource from one subsidiary to another using the posting time function and intercompany time adjustments.

Before you can use Intercompany Job Costing, you must have a OneWorld account and enable Projects, Project Management, Job Costing and Project Budgeting, and Intercompany Time and Expenses. You can then assign employees from different subsidiaries to project tasks. After time has been tracked and approved for those tasks they are available to be posted at Transactions > Financial > Post Time.

When the time is posted, journal entries are created to account for the cost in your general ledger. The costs are reflected in real-time in on the project record P&L subtab and in the Project Profitability report. When closing an accounting period, go to Transactions > Financial > Create Intercompany Adjustments to create intercompany journal entries transferring the job cost from the employee's subsidiary back to the project's subsidiary.

For more information on Job Costing, see the help topic *Using Job Costing*.

## Job Costing Preferences

You can now set a company-wide preference for grouping journal entries by project, employee, class, department, or location when posting time for Job Costing. Previously, each time entry created a separate journal entry when posted. For companies with many time entries to post, consolidating will reduce the over all number of journal entries being posted.

Go to Setup > Accounting > Accounting Preferences. Click the Projects subtab. Under Post Time, in the Group by field, select how you want job costing journal entries to be grouped.

## Post All Time for Job Costing

In Release 2014 Version 2, when posting time for job costing, you can select and post all available time entries at one time. Previously, you could select only the entries that appeared on the first page of available time entries.

To post all available time entries for job costing, on the Post Time page, check the Mark All box. If there are multiple pages of time entries, check the Select all time entries box and click Submit.

For more information on Job Costing, see the help topic *Using Job Costing*.

## New Opportunities Subtab on Project Records


You can now view and create linked opportunities from the Related Records subtab on project records. Previously, it was possible to see a linked project only from the opportunity record.

# General SuiteCommerce Settings

Version 2014 Release 2 includes the following enhancement to both Site Builder and SuiteCommerce Advanced web stores: [Support for Custom Site Maintenance Pages](#).

## Support for Custom Site Maintenance Pages

In Version 2014 Release 2, you can design and upload a fully branded HTML page to display on your site when you take your site offline for maintenance and during NetSuite scheduled maintenance periods. First, you must create a domain for use during site maintenance, and then you can upload your custom HTML page into the file cabinet in NetSuite.

Site Maintenance Domains		
<a href="#">New Domain</a>		
 <input type="checkbox"/> Show Inactives		
EDIT   VIEW	SITE MAINTENANCE DOMAIN NAME	SITE MAINTENANCE FOLDER
Edit   View	maintenance.mysite.com	siteMaintenance

### To set up a site maintenance page:

1. Configure DNS with your domain provider. Point your site maintenance domain to the CNAME for your NetSuite web site domain
2. Create a subfolder in the Web Site Hosting Files folder to host the assets for your site maintenance page.

**Note:** There is a 10 MB size limit to the folder you use for hosting your site maintenance page.

3. Go to Setup > Site Maintenance Domains.
  - a. Enter your **Site Maintenance Domain** name.
  - b. Select a folder for hosting the HTML page.
  - c. Click **Save**.
4. Map the site maintenance domain to a shopping domain.
  - a. Go to the Setup > Set Up Web Site.
  - b. Click the Domains Subtab.
  - c. Select an option in the **Site Maintenance Domain** column.

* DOMAIN NAME	* HTML HOSTING ROOT	NOT-FOUND PAGE	SITE MAINTENANCE DOMAIN	PRIMARY WEB SITE URL	TOUCH POINTS
mysite.com	Live Hosting Files		maintenance.mysite.com		
www.mysite.com	Live Hosting Files		maintenance.mysite.com		

- d. Click **Save**.

You can select a different site maintenance domain for each web site. Note that SuiteScript, SSP files and touch points are not supported for assets in the Site Maintenance folder.

## SuiteCommerce Advanced

Version 2014 Release 2 includes the following enhancements to SuiteCommerce Advanced:

- URL Component Enhancements for SuiteCommerce Advanced

- Reference Implementation Enhancements

## URL Component Enhancements for SuiteCommerce Advanced

Version 2014 Release 2 includes the new feature, URL Component Alias. Web site managers, administrators, and anyone with access to item records, category records, and facets can enter URL components and aliases. If you have both Site Builder and SuiteCommerce Advanced web sites, note that the URL Component Alias feature is supported only in your SuiteCommerce Advanced web sites.

**Note:** Some scripting is required to fully integrate URL Component enhancements with SuiteCommerce Advanced web sites. For more information, see the help topic *Finding Facet Values in Reference Implementations*.

### Managing URL Components on Items and Categories

You can maintain a list of URL components that were used in the past on your web site. For example, the following descriptive URL at [www.mywebsite.com/kitchen-tools/spatula](http://www.mywebsite.com/kitchen-tools/spatula) points to spatulas:

**<http://www.mywebsite.com/kitchen-tools/spatula>**


The marketing manager wants to update the URL to add information about the spatulas displayed on the page, but also wants to keep track of the URL alias currently used for this item on the web site. The marketing manager can change the URL component on the item record to **plastic-spatula**, and then update the URL Component Alias list to document that the previous alias used on the site was **spatula**.

The screenshot shows the 'Search Engine and Feeds' section of the SuiteCommerce Advanced interface. It includes a 'META TAG HTML' field with a description tag for 'plastic spatula, kitchen tools; gadgets products'. The 'URL COMPONENT' field is set to 'plastic-spatula'. The 'SEARCH KEYWORDS' field contains 'spatula, plastic, kitchen'. There is an 'EXCLUDE FROM SITEMAP' checkbox and a 'SITEMAP PRIORITY' dropdown set to 'Auto'. At the bottom, there is a table with columns: 'Associated Images', 'URL Component Alias', 'Web Site Categories', 'Related Items', and 'Correlated Items'. The 'URL Component Alias' column has a red box around the word 'spatula'.

### Managing URL Components for Facets

The new URL Components Alias feature also keeps track of multiple URL aliases used for facets. Being able to try different aliases in URL components gives you greater flexibility in

naming facet values. Values in the Facet Field Name column on the URL Components for Facets page are mapped from your settings on the Web Site Setup page. The first time you visit the URL Components for Facets page, the list of facets is displayed.

URL Components for Facets				
				
EDIT   VIEW	FACET FIELD NAME	URL COMPONENT	WEB SITE	FACET VALUES LIST
Edit   View	Available		SuiteCommerce Advanced Web Site	<a href="#">View Values</a>
Edit   View	Price Level for Current Customer		SuiteCommerce Advanced Web Site	<a href="#">View Values</a>

Note that the list of corresponding URL components is blank. To populate values in the URL Component column, you must copy the URL components from the configuration file of your Reference Implementation into this list.

For more information, see the help topic *Managing Web Site URL Components in SuiteCommerce Advanced*.

## Reference Implementation Enhancements

For release notes describing recent versions of the Reference ShopFlow, Checkout, and My Account bundles see the help topic *Reference Implementation Release Notes*.

## SuiteCommerce Platform

SuiteCommerce Platform includes APIs and other platform capabilities that you can use to build and deploy a better and more interactive and engaging shopping experience for customers. Version 2014 Release 2 includes the following enhancement to SuiteCommerce Platform:

- [Multiple Ship Methods Per Address](#)
- [Asynchronous afterSubmit User Event Support for Web Store Users](#)

### Multiple Ship Methods Per Address

New Multiple Ship To APIs provide the ability to select multiple shipping methods per address during checkout.

Before working with the Multiple Ship To APIs, ensure that the Multiple Shipping Routes feature is enabled in your account. For detailed information on the Multiple Shipping Routes feature, see the help topic *Multiple Shipping Routes*.

To support multiple ship to, the following APIs have been added.

**Note:** For more detailed information on each API see the help topic *Order Methods*.

- *setEnabledItemLineShipping()*: Toggles the item line shipping flag for the current order.

**Important:** This flag **must** be set prior to using the other Multiple Ship To APIs.

- *splititem(orderLine)*: Splits the specified line item into multiple order line items. You can then set a shipping address for each order line.
- *mergeItems(orderLineIds)*: Merges the specified line items into a single order line item. The specified order lines can differ only in quantity and shipping address and method.
- *setItemShippingAddress(orderItemId, shipAddressId)*: Sets the shipping address for the specified order line item.
- *setItemShippingAddress(orderItemIds, shipAddressId)*: Sets the shipping address for an array of specified order line items.
- *setItemShippingMethod(orderItemId, shipMethodId)*: Sets the shipping method for the specified order line item.
- *setItemShippingMethod(orderItemIds, shipMethodId)*: Sets the shipping method for an array of specified order line items.
- *getItems(bConsolidated), getItems(fields, bConsolidated)*: Used to configure multiple shipping routes on web orders. Depending on the value for `bConsolidated`, order items are returned in either a split view or in a consolidated view.
- *getAvailableShippingMethods(orderLineIds, shipAddressId)*: Returns available shipping methods and addresses for the specified item in the order.

## Known Limitations

- **Promotions:** Multiple Ship To does not work with promotions with shipping impact. The promo code is automatically removed from the order.
- **One shipping method per shipping address:** Multiple Ship To is limited to defining one shipping method per shipping address. Shoppers cannot create multiple shipments to the same address. For example, a shopper cannot have one set of items shipping to their Home address using a Standard shipping method and another set of items shipping to their Home address using a One Day shipping method.
- **Real time rates and performance:** There is a known performance impact on the Proceed to Checkout flow when a ship method with real time rates is used. This can be worsened for orders with Multiple Ship To. Ensure that you perform performance testing before going live when using real time rates.

## Asynchronous afterSubmit User Event Support for Web Store Users

NetSuite Version 2014 Release 2 adds asynchronous afterSubmit user event support for web store users. When this feature is enabled, afterSubmit user events are triggered asynchronously when a sales order is created during web store checkout. When an afterSubmit user event runs in asynchronous mode, the next page is loaded during the period of time the afterSubmit user event is still processing. This feature decreases the time needed to submit a web store order.

To enable asynchronous mode, go to Setup > Enable Features > Web Presence subtab. Check the box next to Asynchronous AfterSubmit Sales Order Processing. Note that if an afterSubmit script is running asynchronously and the script includes a call to `nlapiRedirectURL`, the script will ignore the call.

**Important:** This is a global setting. This setting causes all afterSubmit user events and workflows triggered by web store checkout to run asynchronously. When a script is included in a bundle and installed into a different account, the script will respect the feature setting of the target account

## SuiteBundler

Version 2014 Release 2 includes the following enhancements to SuiteBundler features:

- [Group Company Preferences by Category](#)
- [Support for Bundling Custom Address Objects](#)

## Bundle Support During Release Phasing

Bundle support during phasing of Version 2014 Release 2 is consistent with the support provided during previous releases. Review the description below for a reminder of how bundles from different versions are handled during release phasing.

During phasing of Version 2014 Release 2, some accounts continue to use Version 2014 Release 1 during the time that other accounts are upgraded to Version 2014 Release 2. Therefore, you may be using a version different from some of the accounts where your bundles are installed.

- Bundles developed with Version 2014 Release 1 can be installed into accounts that are already using Version 2014 Release 2.
- Bundles developed with Version 2014 Release 2 can be installed into accounts that are still using Version 2014 Release 1, but note the following limitations:
  - When a user in a Version 2014 Release 1 account installs a bundle from a Version 2014 Release 2 account, any object types in the bundle that are not supported in Version 2014 Release 1 are not installed. This may result in a potentially serious impact to bundle function.

- A bundle with a SuiteScript that uses a new API available only in Version 2014 Release 2 can be installed into a Version 2014 Release 1 account, but the script may not function correctly because Version 2014 Release 1 does not support the API.

**Warning:** The only bundles that can be installed into a Release Preview account are those created in another Release Preview account. A bundle originally installed from a production account or the production repository can be updated in a Release Preview account if the original account or the repository is also available in Release Preview. A bundle originally installed from a sandbox account cannot be accessed or updated in a Release Preview account. Also, any bundle created in a Release Preview account cannot be installed into a production or sandbox environment, even if it has been copied to the bundle repository.

## Group Company Preferences by Category

As of Version 2014 Release 2, when you create a customization bundle, the Object Types list on the Select Objects page of the Bundle Builder page has been reorganized. The categories have been organized to be grouped by categories that match the associated subtabs when you set company preferences. In addition, object types that are no longer supported by the Bundle Builder have been removed.

The following table describes the name changes for the preference selections in the Object Types list:

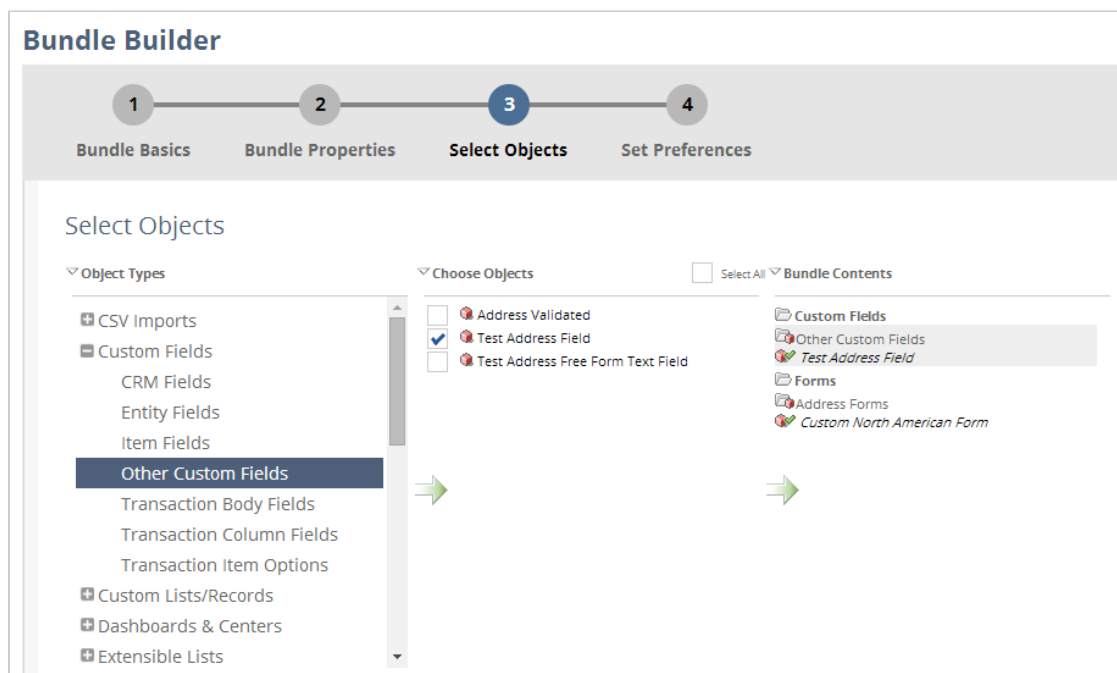
Version 2014 Release 1 Name	Version 2014 Release 2 Name
Accounting Books	Accounting: Accounting Books
Approval Routing	Accounting: Approval Routing
Charge	Invoicing: Charge
Detection	Duplicate Detection: Detection
Email	Printing, Fax, & Email: Email
Excluded Domains	Duplicate Detection: Excluded Domains
External	Support: External
Fax	Printing, Fax, & Email: Fax
Forecasts	SFA: Forecasts
General Accounting	Accounting: General
General Company	Company
General Issues	Issues: General
General Marketing	Marketing: General
General SFA	SFA: General
General Subsidiary Preferences	None. Removed.
General Support	Support: General



Version 2014 Release 1 Name	Version 2014 Release 2 Name
Inbound Email	Support: Inbound Email
Invoicing	Invoicing: Invoicing
Issues	None. Removed.
Items/Transactions	Accounting: Items/Transactions
Notification	Support: Notification
Notifications	Issues: Notifications
Order Management	Accounting: Order Management
Other Preferences	Duplicate Detection: Other Preferences
Printing	Printing, Fax, & Email: Printing
Projects	None. Removed.
Subscription	Marketing: Subscription
Support	None. Removed.
Time & Expenses	Accounting: Time & Expenses

## Support for Bundling Custom Address Objects

Version 2014 Release 2 supports the creation of multiple custom address forms per account, and adds support for custom address fields. SuiteBundler supports the bundling of both of these object types. Address forms and address fields are listed on the Select Objects page of the Bundle Builder.



For more information about newly supported address customizations, see [Enhancements to Address Form Customization](#).

## SuiteBuilder - Customization

Version 2014 Release 2 includes the following enhancements to SuiteBuilder features:

- [Important Note about New Custom Fields and Forms](#)
- [Custom Forms Impact of Updated NetSuite User Interface](#)
- [Enhancements to Address Form Customization](#)
- [Expanded Options for Custom Transaction Form Override of Check Box Default Values](#)
- [Hide the Remove Link for Child Sublists on Custom Records](#)
- [Country-Specific Address Forms](#)

### Important Note about New Custom Fields and Forms

Be aware that as part of a new release, new fields are sometimes added to NetSuite standard record types. Newly added fields for a record type are automatically added to any forms that you have customized for this record type, and these fields are set to show on customized forms. If you do not want new fields to show on any of your customized forms, after your upgrade you must modify these forms to remove or hide these fields. Keep in mind that newly created fields are typically coupled with forms and may be needed for some forms to function properly. You should test any customized forms where you remove or hide fields, to ensure that the forms still function properly.

### Custom Forms Impact of Updated NetSuite User Interface

The updates to the NetSuite user interface, described in [New Visual Design for User Interface](#), may cause differences in the appearance of your custom forms in Version 2014 Release 2, as compared to these forms' appearance in previous releases. It is recommended that you review your custom forms in the Release Preview environment to determine whether you want to reoptimize any of them. You can rearrange fields, tabs, and other elements on these forms as desired. For context and best practices for retooling your custom forms, see [Tips for Optimizing Custom Forms](#).

If you have custom forms that were created prior to Version 2010 Release 2 that you have not yet upgraded, it is strongly recommended that you complete this upgrade as soon as possible. These older custom forms continue to be supported at this time, but the upgrade is advised for best results. To see if your account includes any forms that require upgrade, go to Customization > Forms > Entry Forms. If there is an **Upgrade Checklist** link in the upper

right of this page, you can click this link to view a list of forms that require upgrade. If this link does not display on this page, there are no forms that require upgrade. For information about upgrading forms, see the help topics *Deploying Upgraded Forms* and *Form Layout Enhancements*.

## Enhancements to Address Form Customization

Version 2014 Release 2 greatly expands the level of customization available for address forms to support address format localization for international customers, and unique business requirements for all customers. Prior to this release, the only supported customizations for address forms were hiding standard address fields and changing these fields' labels. In addition, address form customizations were applied to all addresses used in an account. Now, address forms support the following new capabilities:

- Multiple custom address forms supported per account
- Assignment of custom address forms to countries
- Addition of custom fields to custom address forms
- Rearrangement of standard and custom address fields on forms
- Setting address fields to be mandatory
- Setting address fields display type to be normal, inline text, or disabled
- Customized formatting for addresses displayed in UI and printed on shipping labels
- Form-level client scripting

A standard address form is provided for all accounts and assigned by default to all countries. You can create as many customized versions of this form as needed, and assign each custom address form to one or more countries. For information about creating custom address forms, see:

- [Creating Custom Address Forms](#)
- [Creating Custom Address Fields](#)

To support the new higher level of address form customization, address fields that previously were part of entity, transaction, subsidiary, company information, location, and workplace parent records have been restructured to be part of a separate address subrecord. The Country field has been moved to the top of address forms, and the Country set for each address determines the address form used for viewing and editing the address. These changes are largely backward compatible, although they have impacted the handling of addresses in many areas of the NetSuite application. To take full advantage of the new address capabilities, and to identify the limited cases where changes may be needed, review the following list of impacts:

- SuiteScript

Going forward, you should use subrecord APIs to access address fields. For information about scripting with subrecords, see the help topic *Working with Subrecords in SuiteScript*. The vast majority of existing scripts on addresses will continue to work as expected. Changes to SuiteScript address support may impact a small number of existing scripts, causing unexpected results. See [SuiteScript Impact of Address Enhancements](#).

- Web Services

No changes are required for Web services integrations using 2014.1 and earlier endpoints. These endpoints continue to support the same address schema in use before the Version 2014 Release 1 address changes. The 2014.2 endpoint supports an updated address schema. See [Web Services Impact of Address Enhancements](#).

- CSV Import

Mappings for address fields in entity, transaction, and location imports have changed, but no action is required on your part. Saved CSV import maps are automatically migrated to work with the changed mappings. See [CSV Import Impact of Address Enhancements](#).

- Workflows

Workflow actions other than Set Field Value are no longer supported. See [Workflow Impact of Address Enhancements](#).

- SuiteBundler

Custom address forms and custom address fields can now be included in bundles. See [Support for Bundling Custom Address Objects](#).

- SuiteAnalytics

All existing saved searches that include parent record address fields will continue to work, and these address fields will continue to be available as search criteria and results. In addition, fields from a new address subrecord join are now available to entity, transaction, subsidiary, location, and workplace searches. It is recommended that you use fields from this subrecord as search criteria and results. All reports and SuiteAnalytics Connect tables that include addresses are fully backward compatible.

Address enhancements have resulted in a new look for addresses in the NetSuite UI. A new address popup makes it easier for users to view and edit address field values. For more information, see [New Look for Addresses](#).

## Creating Custom Address Forms

If you are an account administrator or have another role with the Custom Address Form permission, you can create a custom address form by going to Customization > Forms > Address Forms, and clicking the Customize link for the standard address form.

- In the body area of a custom address form record, you can define a name and modify the template representing how addresses are rendered in the user interface and on printed shipping labels.
- On the Fields subtab, you can rearrange field order, hide fields, set field display type to inline text or disabled, and modify field labels.
- On the Custom Code subtab, you can attach a script file containing functions for any of the supported SuiteScript client events.
- On the Country subtab, you can assign the custom address form to one or more countries.

**Custom Address Entry Form**
List

Save Cancel Reset

Name \*

Custom Address Form US

Address Template

<ATTENTION>  
 <ADDRESSEE>  
 <ADDR1>  
 <ADDR2>  
 <ADDR3>  
 <CITY> <STATE> <ZIP>  
 <COUNTRY>

Fields Custom Code Country

Move To Top Move To Bottom New Field

DESCRIPTION	SHOW	MANDATORY	DISPLAY TYPE	LABEL	COLUMN BREAK	SPACE BEFORE	SAME ROW AS PREVIOUS	TEMPLATE FIELD ID
Country	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Normal	Country	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	COUNTRY
Attention	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Normal	Attention	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ATTENTION
Addressee	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Normal	Addressee	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ADDRESSEE
Phone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Normal	Phone	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ADDRPHONE
Addr1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Normal	Address 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ADDR1

## Creating Custom Address Fields

If you are an account administrator or have another role with the Custom Fields permission, you can create a new custom address field by clicking the New Field button on the Fields subtab of a custom address form record, or by going to Customization > Lists, Records, & Fields > Other Custom Fields > New. On the Other Custom Field record, select a Record Type of Address.

The options available for custom address fields are the same as those available generally for Other Custom Fields, with the addition of an Applies To subtab. On this subtab, you can choose to apply an address field to all custom address forms or to selected custom address forms.

**Note:** Custom address fields cannot be applied to the standard address form.

## Hide the Remove Link for Child Sublists on Custom Records

Prior to this release, each child record in a sublist on a parent custom record included a **Remove** link for users with Edit permission. Clicking this link results in the removal of the child record from the sublist but not from the system. This removal detaches the child record from the parent record, in effect deleting the relationship between records but not deleting the child record from the system.

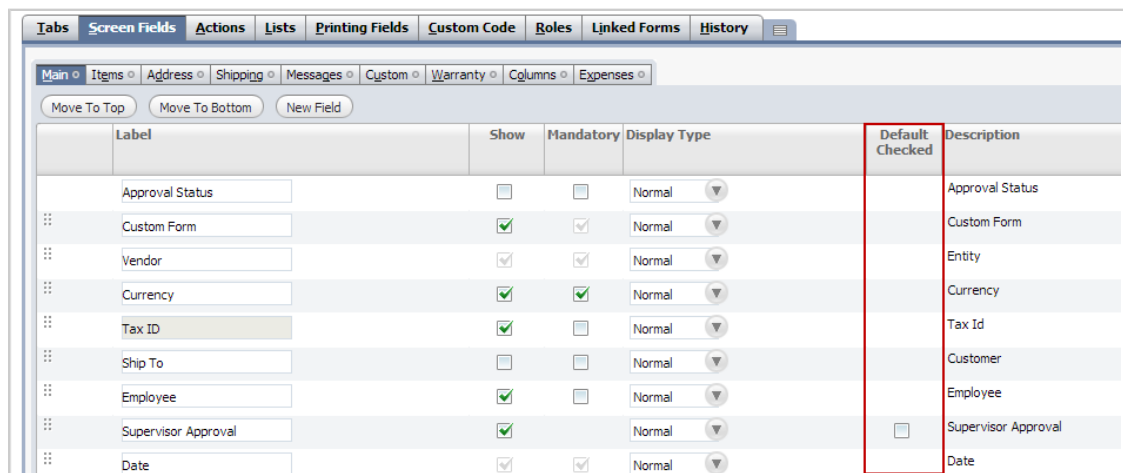
Because the **Remove** link may cause confusion, the display of this link is now optional. A new **Show Remove Link** box is available for custom record types. By default, this option is enabled. You can disable it to hide the **Remove** link.

Note that when you disable the **Show Remove Link** option, the **Allow Child Record Editing** option is disabled. The **Allow Child Record Editing** option controls only whether the child record machine is a list machine or edit machine. When the **Remove** link is displayed, users can detach records in both types of machines if they have permission to edit the child record.

## Expanded Options for Custom Transaction Form Override of Check Box Default Values

Prior to this release, the default value set for a check box field on a custom transaction form always overrode the default value set for the field itself. A new Version 2014 Release 2 feature makes it possible to use the default value set on the field itself rather than overriding it with the default value set on the form. This feature also makes it clear whether or not the form setting is overriding the field setting for default check box value.

Previously, the setting for the Default Checked column on the Screen Fields subtab of a custom transaction form always determined the default value for a check box field (checked or unchecked).



Label	Show	Mandatory	Display Type	Default Checked	Description
Approval Status	<input type="checkbox"/>	<input type="checkbox"/>	Normal		Approval Status
Custom Form	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Normal		Custom Form
Vendor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Normal		Entity
Currency	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Normal		Currency
Tax ID	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Normal		Tax Id
Ship To	<input type="checkbox"/>	<input type="checkbox"/>	Normal		Customer
Employee	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Normal		Employee
Supervisor Approval	<input checked="" type="checkbox"/>		Normal	<input type="checkbox"/>	Supervisor Approval
Date	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Normal		Date

Now, a Check Box Default column replaces that column on the Screen Fields subtab. This new column displays a dropdown list with the following options for each check box field on the form:

- Use Field Default
- Checked
- Unchecked

LABEL	SHOW	MANDATORY	DISPLAY TYPE	CHECK BOX DEFAULT	DESCRIPTION	FIELD GROUP	COLUMN BREAK	SPACE BEFORE	SAME ROW AS PREVIOUS
To Be Printed	<input checked="" type="checkbox"/>		Normal	Use Field Default	To Be Printed		<input type="checkbox"/>		<input type="checkbox"/>
To Be E-mailed	<input checked="" type="checkbox"/>		Normal	Checked	To Be E-mailed		<input type="checkbox"/>		<input type="checkbox"/>
To Be Faxed	<input checked="" type="checkbox"/>		Normal	Unchecked	To Be Faxed		<input type="checkbox"/>		<input type="checkbox"/>
Select Message	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Normal		Message Select		<input type="checkbox"/>		<input type="checkbox"/>
Customer Message	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Normal		Message		<input type="checkbox"/>		<input type="checkbox"/>

## SuiteAnalytics (Dashboards, Reporting and Search)

Version 2014 Release 2 includes the following enhancements in the SuiteAnalytics area:

- Introduction to SuiteAnalytics Connect
- Enhanced UI for Period and Date Range Selections
- Use Time Selectors for Fiscal Calendars
- More Flexible Aging Reports
- High Volume Data Exports
- Analytics Tabs for Enable Features and Set Preferences Pages
- New Formula Tag Displays Currency Codes in Saved Searches
- Segment Alternate Period and Date Ranges
- Support for Additional Custom Portlets on a Dashboard

### Introduction to SuiteAnalytics Connect

The SuiteAnalytics Connect Service, also referred to as the Connect Service, enables you to access your NetSuite data while connecting from any type of device that uses a Windows or Linux operating system. Version 2014 Release 2 includes the following SuiteAnalytics Connect enhancements:

- ODBC Connections for Advanced Reporting is now the SuiteAnalytics Connect Feature
- New ODBC Drivers for Windows and Linux
- New JDBC and ADO.NET Drivers
- Authentication Enhancements for Connect Service



- Terminology Changes

## **ODBC Connections for Advanced Reporting is now the SuiteAnalytics Connect Feature**

As of Version 2014 Release 2, the feature formerly known as ODBC Connections for Advanced Reporting has been rebranded to SuiteAnalytics Connect. If this feature is enabled in your account, a driver download link is available in the Settings portlet of the NetSuite home page. The downloaded driver provides connectivity to NetSuite data for third party tools. For more information, see the help topic *Introducing SuiteAnalytics Connect*.

## **New ODBC Drivers for Windows and Linux**

The SuiteAnalytics Connect feature supports the following ODBC drivers:

- 32-bit Windows ODBC driver
- 64-bit Windows ODBC driver
- 32-bit Linux ODBC driver
- 64-bit Linux ODBC driver

The additional ODBC drivers provide you with the option to install 32-bit or 64-bit drivers, offer Linux and Windows as supported operating systems, and simplify the installation process by using a bundled installation. These drivers are available at no extra charge to organizations that have a license for the SuiteAnalytics Connect module. For more information, see the help topic *Accessing the Connect Service Using an ODBC Driver*.

## **New JDBC and ADO.NET Drivers**

In addition to ODBC drivers, the SuiteAnalytics Connect feature also supports JDBC and ADO.NET drivers at no extra charge. Adding these JDBC and ADO.NET drivers means that if you are developing Java or ADO.NET applications, you can now use a native driver without using a bridge to ODBC.

For more information about JDBC drivers, see the help topic *Accessing the Connect Service Using a JDBC Driver*.

For more information about ADO.NET Data Providers, see the help topic *Accessing the Connect Service Using an ADO.NET Data Provider*.

## **Authentication Enhancements for Connect Service**

New SuiteAnalytics drivers require you to enter your Account ID and Role ID to access the Connect Service for authentication. By default, the Account ID and Role ID are stored in the

DSN. You have the option to change these default values. For more information, see the help topic *Connecting to the Connect Service*.

**Note:** For previous versions of the ODBC driver 6.0 that were supported before this release, the new authentication process does not apply.

## Terminology Changes

The SuiteAnalytics Connect feature introduces new terms that differ from the terminology used for the ODBC Connections for Advanced Reporting feature.

- Views are now referred to as tables.
- Fields are now referred to as columns.
- The entire group of Connect Service tables are known as the Connect Schema.

## Enhanced UI for Period and Date Range Selections

Report results pages now include an enhanced UI for selecting a period or date range. This enhanced UI enables you to quickly locate period and date range selectors by using search, Quick Filters, and Favorites. For information about using selectors, see the following topics:

- [Using Quick Filters for Selectors](#)
- [Using Search for Selectors](#)
- [Using Favorites for Selectors](#)
- [New Selectors](#)

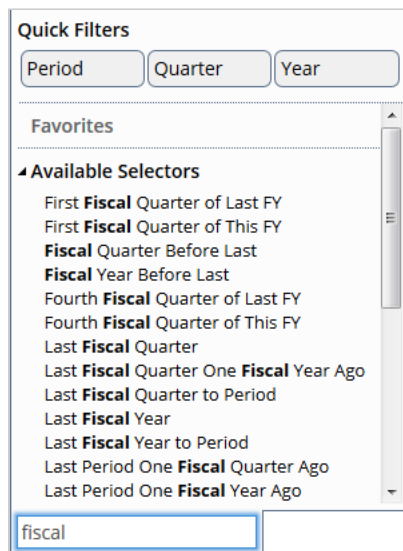
## Using Quick Filters for Selectors

You can use Quick Filters to filter selectors by Period, Quarter, or Year. For example, if you select the Quick Filter of Year, the list includes only selectors containing the word **Year**.

The screenshot shows a user interface for selecting filters. At the top, there is a section titled "Quick Filters" with three buttons: "Period", "Quarter", and "Year". The "Year" button is highlighted in blue, indicating it is the selected filter. Below this, there is a section titled "Favorites" which is currently empty. Underneath, there is a section titled "Available Selectors" with a list of seven items: "Fiscal Year Before Last", "Last Fiscal Quarter One Fiscal Year Ago", "Last Fiscal Year", "Last Fiscal Year to Period", "Last Period One Fiscal Year Ago", "This Fiscal Year", and "This Fiscal Year to Period". The word "Year" is bolded in all these items. At the bottom of the "Available Selectors" list, there are two empty input fields for search or additional filtering.

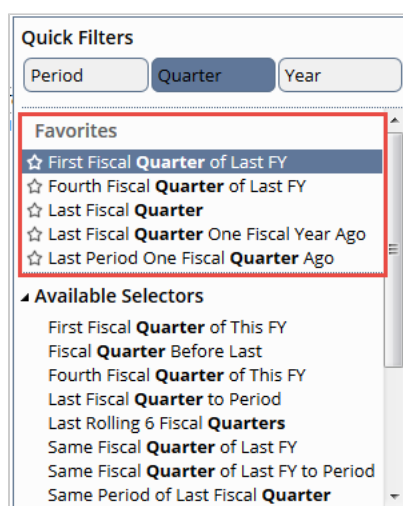
## Using Search for Selectors

You can type into the search field a selector's value and filter selectors so that only selectors that match the search will appear. In the following screenshot, the selectors are filtered by the search term **fiscal**.



## Using Favorites for Selectors

You can make a selector a favorite by putting a star next to the selector. Selectors with stars appear under Favorites, making them more accessible.



## New Selectors

Version 2014 Release 2 adds support for the following new selectors:

- This/Last Fiscal Year to Period
- This/Last Fiscal Quarter to Period
- Same Fiscal Quarter of Last Fiscal Year to Period
- Last Rolling 18 Periods
- Last Rolling 6 Fiscal Quarters

## Use Time Selectors for Fiscal Calendars





As of Version 2014 Release 2, a new **Time Selectors Use Fiscal Calendars Based on First Month** preference has been added to Setup > Company > General Preferences. This preference influences the behavior of date range selectors in reports, searches, and KPIs to reflect the definition of custom fiscal calendars. When this box is not checked, time selectors strictly reflect definitions for accounting years, quarters, and periods, as defined in the custom Fiscal Calendar (see Setup > Company > Accounting > Manage Accounting Periods). When the box is checked, date range selectors for fiscal elements (for example, **this fiscal year**) account for the First Fiscal Month setting in Setup > Company > Company Information.




For example, a company has a custom Fiscal Calendar for 2014 aligned with business weeks. The calendar starts on the first Monday of March, which falls on March 3, 2014 and ends on March 1, 2015. The First Fiscal Month is set to March. If the **Time Selectors Use Fiscal Calendars Based on First Month** preference is enabled, the **this fiscal year** selector returns a date range from March 1, 2014 to February 28, 2015. If the box is unchecked, this selector returns a date range of March 3, 2014 to March 1, 2015.

## More Flexible Aging Reports

Aging reports now support new customization options that permit aging by month, by period, or by custom intervals. This flexibility gives Accounts Payable and Accounts Receivable personnel the ability to sort through outstanding Accounts Receivable or Accounts Payable by time period. For example, in the A/P Aging report you can click the Aging Options button to view aging based on a variety of time periods of your choice.

## High Volume Data Exports

**NETSUITE**      Mark Wheel  
One World - Administrator

   **Activities** **Transactions** **Lists** **Reports** **Documents** **Setup** **Customization** **Support**

## Saved Searches

[New](#)

**FILTERS**


☐ Show All Private Searches


Use: General Type: - All - Access Level: - All - Scheduled: - All -


☐ Show Inactives Total: 1


EDIT   RESULTS	NAME ▲	ID	SEARCH FORM	TYPE	RECORD TYPE	OWNER	ACCESS	EXPORT RESULTS	PERSIST RESULTS	SCHEDULED	LAST RUN BY	LAST RUN ON
<a href="#">Edit</a>   <a href="#">Results</a>	Account Search	customsearch4	<a href="#">Search Form</a>	Account		Mark Wheel	Private	Export (CSV)	<b>Persist (CSV)</b>		Mark Wheel	06/18/2014 5:25 am


ReleaseNotes\_2014.2.0.pdf - Subject to Change 










 Help

 Mark Wheel  
One World - Administrator



Activities

Transactions

Lists

Reports

Documents

Setup

Customization

Support

# Search Results

Total: 2

SEARCH	SEARCH TYPE	OWNER	FORMAT	RESULTS	CREATED BY	CREATED ON ▲	STATUS	COMPLETED
Account Search	Account	Mark Wheel	CSV		Mark Wheel	2014-06-18 05:23:59	Pending	
Account Search	Account	Mark Wheel	CSV		Mark Wheel	2014-06-18 05:26:12	Pending	

When search execution is completed, a download link for a CSV file of the results is available on the Search Results page. You can also access this page by clicking the new Reports > Scheduled Searches > Search Results link.

## Analytics Tabs for Enable Features and Set Preferences Pages

A new Analytics tab is available on the Enable Features page. This tab includes options to enable the KPI Scorecards and SuiteAnalytics Connect features.

### Enable Features

Save Cancel Reset

Company Accounting Tax Transactions Items & Inventory Employees CRM **Analytics** Web Presence SuiteCloud

#### Dashboards

☒ KPI SCORECARDS  
CREATE KPI SCORECARDS FOR YOUR DASHBOARD CONSISTING OF MULTIPLE KPIS AND MULTIPLE DATE RANGES.

#### Connectivity

☒ SUITEANALYTICS CONNECT  
ACCESS AND QUERY YOUR NETSUITE DATA USING SQL THROUGH MAINSTREAM DATABASE STANDARDS SUCH AS ODBC, JDBC AND ADO.NET.

Save Cancel Reset

You can set preferences for the **Analytics** tab from the **Set Preferences** option on the home page.

The screenshot shows the 'Set Preferences' dialog box with the 'Analytics' tab selected. The dialog has a top navigation bar with icons for home, star, and a list of menu items: Activities, Transactions, Lists, Reports, Documents, Setup, Customization, and Support. Below the navigation bar, there are tabs for General, Appearance, Transactions, Analytics (selected), Activities, Alerts, and Restrict View. The 'Analytics' tab contains four sections: Reporting, Search, PDF, and Export. The Reporting section includes a 'Report by Period' dropdown set to 'Financials Only', checkboxes for 'Show Reports in Grid', 'Print Company Logo', 'Display Report Title on Screen', 'Display Report Description' (checked), and 'Calculate Forecasts as Weighted' (checked). The Search section includes checkboxes for 'Show List When Only One Result', 'Quick Search Uses Keywords' (checked), 'Popup Search Uses Keywords', 'Include Inactives in Global & Quick Search', 'Popup Auto Suggest' (checked), 'Global Search Auto Suggest' (checked), 'Global Search Sort by Name/ID', and 'Global Search Customer Prefix Includes Leads and Prospects'. The PDF section includes a 'PDF Page Orientation' dropdown set to 'Portrait' and a 'PDF Font Size' dropdown set to '8 pt'. The Export section includes a 'CSV Export Character Encoding' dropdown set to 'UTF-8'. At the bottom of the dialog are 'Save', 'Cancel', and 'Reset' buttons.

## New Formula Tag Displays Currency Codes in Saved Searches

As of Version 2014 Release 2, a new `usercurrency` formula tag is supported in search formulas. This formula tag returns the currency code for the consolidating base currency of each record that is included in the search results. This new formula tag permits you to determine the currency of the rendered amount columns, which enables you to view subsidiaries with different base currencies in one uniform currency.

Transaction Search: Results											
<a href="#">Edit this Search</a>											Total: 21
EDIT   VIEW	*	DATE	PERIOD	TAX PERIOD	TYPE	NUMBER	NAME	ACCOUNT	MEMO	AMOUNT	FORMULA (TEXT)
<a href="#">View</a>	*	12/1/2006	Dec 2006	Dec 2006	Journal			1000 Checking	Opening Balance	10,000.00	USD
<a href="#">View</a>	*	12/1/2006	Dec 2006	Dec 2006	Journal			1002 Savings		10,000.00	USD
<a href="#">View</a>	*	12/1/2006	Dec 2006	Dec 2006	Journal			1004 Payroll		10,000.00	USD

To include the currency code in search results, go to the Results tab of a Saved Search page, add a Formula (Text) field with a formula of either {usercurrency} or {user.currency}. Click the Set Formula icon in the Formula column for the Formula (Text) results field.

### Saved Account Search

#### Account Search

[Save & Run](#)
[Reset](#)
[Cancel](#)
[Preview](#)
[Actions](#)

Search Title \*

Public

Package

Available for Reminders

ID

Show in Menu

Criteria

Results

Highlighting

Available Filters

Audience

Roles

Email

Audit Trail

Execution Log

Search Title Translation

Use this tab to indicate columns to be included in the search results as well as sort order.

Sort By

Name

Descending

Then By

Descending

Then By

Descending

Output Type

Normal

Show Totals

Max Results

Run Unrestricted

Disallow Drill Down

My Preferred Search Results

Columns

Drill Down Fields

Remove All

Add Multiple

[Add](#)
[Cancel](#)
[Insert](#)
[Remove](#)
[Move Up](#)
[Move Down](#)
[Move](#)
[Set Formula](#)
[Move To Bottom](#)

In the box that appears, you can add a formula of either {usercurrency} or {user.currency}.



**Saved Account Search**

**Set** **Cancel**

Function

Field

Formula

Click the Set button to add the currency code to the saved search.

**NETSUITE** Search

Activities Transactions Lists Reports Documents **Setup** Customization Support

**Saved Account Search** More

**Account Search**

**Save & Run** **Reset** **Cancel** **Preview** **Actions**

Search Title \*

Package

ID

☐ Public  
☐ Available for Reminders  
☐ Show In Menu

**Criteria** **Results** Highlighting Available Filters Audience Roles Email Audit Trail Execution Log Search Title Translation

Use this tab to indicate columns to be included in the search results as well as sort order.

Sort By  
 ☐ Descending

Then By  
 ☐ Descending

Then By  
 ☐ Descending

Output Type

☐ Show Totals

Max Results  
☐ Run Unrestricted ☐ Disallow Drill Down

☐ My Preferred Search Results

**Columns** Drill Down Fields

**Remove All** **Add Multiple**

FIELD *	SUMMARY TYPE	FUNCTION	FORMULA	WHEN ORDERED BY FIELD	CUSTOM LABEL	CUSTOM LABEL TRANSLATION	SUMMARY LABEL	SUMMARY LABEL TRANSLATION
Name								
Account Type								
Description								
Balance								
Formula (Text)			{user.currency}					

## Segment Alternate Period and Date Ranges

As of Version 2014 Release 2, you can segment reports using an additional hierarchy level for the current date dimension. This segmentation enables you to customize, for example, the Balance Sheet and Trial Balance reports, to fulfill specific legal requirements. A new Range Segment dropdown list is now available on the Edit Columns page of the Financial Report Builder when you select an Alternate Date Range. When you select either Relative to report date or Relative to today's date in the Alternate Period Range Type dropdown list, the Alternate Period Range dropdown list appears. When you choose a selector, the Range Segment dropdown list appears.

**NETSUITE**

Activities Transactions Lists **Reports** Documents Setup Customization Support

### Financial Report Builder Custom Balance Sheet

☐ Edit Layout
 ☒ Edit Columns
 ☐ Filters
 ☐ Sorting (Optional)
 ☐ More Options

Name \*

SEARCH FIELDS

ADD FIELDS

- Budget
- Financial
- Budget and Financial

HELP

To add more columns to your report, select a field from the "Add Fields" pane above. You can also **drag-and-drop** them directly into your report.

#### Report Preview

Total

Financial Row	Amount
Financial Row 1	
Financial Row 2	\$40000.00
Financial Row 3	\$30000.00
Financial Row 4	\$20000.00
Financial Row 5	\$10000.00
Total	\$100000.00

#### Financial: Amount

Column Label

Drop Decimals ☐

Divided by 1000 ☐

Display Negative Numbers

Negatives in Red ☐

Summary

Add Grand Total ☒

Alternate Period Range Type

Cumulative Value ☒

Alternate Period Range

Range Segment

When you preview or save the report, it is formatted based on your selections in the Alternate Period Range and Range Segment dropdown lists.

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Custom Balance Sheet
[View Detail](#)

Financial Row	Amount		
	As of Jan 2013	As of Feb 2013	As of Mar 2013

☐ **ASSETS**

☐ **Current Assets**

☐ **Bank**

1000 - Checking	\$10,000.00	\$10,000.00	\$10,000.00
1002 - Savings	\$10,000.00	\$10,000.00	\$10,000.00
1004 - Payroll	\$10,000.00	\$10,000.00	\$10,000.00
1006 - Petty Cash	\$10,000.00	\$10,000.00	\$10,000.00
<b>Total Bank</b>	<b>\$40,000.00</b>	<b>\$40,000.00</b>	<b>\$40,000.00</b>

☐ **Accounts Receivable**

1100 - Accounts Receivable	\$200.00	\$200.00	\$200.00
<b>Total Accounts Receivable</b>	<b>\$200.00</b>	<b>\$200.00</b>	<b>\$200.00</b>

<b>Total Current Assets</b>	<b>\$40,200.00</b>	<b>\$40,200.00</b>	<b>\$40,200.00</b>
<b>Total ASSETS</b>	<b>\$40,200.00</b>	<b>\$40,200.00</b>	<b>\$40,200.00</b>

☐ **LIABILITIES & EQUITY**

☐ **Current Liabilities**

☐ **Accounts Payable**

2000 - Accounts Payable	\$0.87	\$0.87	\$0.87
<b>Total Accounts Payable</b>	<b>\$0.87</b>	<b>\$0.87</b>	<b>\$0.87</b>

☐ **Other Current Liability**

Deferred Revenue	\$200.00	\$200.00	\$200.00
<b>Total Other Current Liability</b>	<b>\$200.00</b>	<b>\$200.00</b>	<b>\$200.00</b>

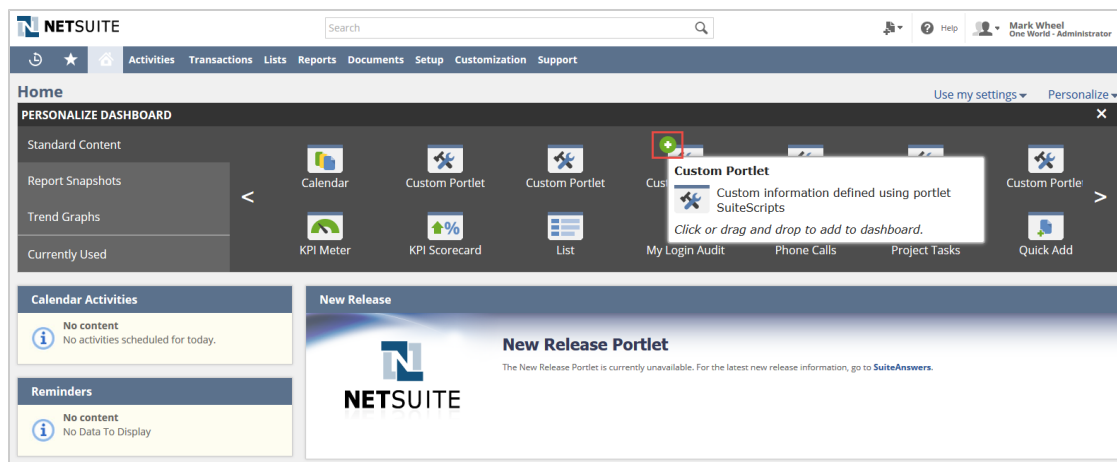
<b>Total Current Liabilities</b>	<b>\$200.87</b>	<b>\$200.87</b>	<b>\$200.87</b>
----------------------------------	-----------------	-----------------	-----------------

☐ **Equity**

3200 - Opening Balance	\$40,000.00	\$40,000.00	\$40,000.00
779 - UK Equity	\$240.91	\$240.91	\$240.91
Retained Earnings	(\$241.77)	(\$241.77)	(\$241.77)
Net Income	\$0.00	\$0.00	\$0.00
<b>Total Equity</b>	<b>\$39,999.13</b>	<b>\$39,999.13</b>	<b>\$39,999.13</b>
<b>Total LIABILITIES &amp; EQUITY</b>	<b>\$40,200.00</b>	<b>\$40,200.00</b>	<b>\$40,200.00</b>

## Support for Additional Custom Portlets on a Dashboard

As of Version 2014 Release 2, you can add up to six custom portlets to a dashboard. Previously, you could add only three custom portlets to a dashboard. The Personalize Dashboard area includes icons for all the available portlets that you can add to a dashboard. Whenever you add a custom portlet from the Personalize Dashboard area, the number of available custom portlets reduces by one. Use the Currently Used display to determine which custom portlets are currently in use. You can add custom portlets to a dashboard by either dragging the icon to the new location or clicking the plus button on the custom portlet.



## CSV Import

Version 2014 Release 2 includes the following changes to CSV Import:

- CSV Import Support for Timesheets and Time Entry
- CSV Import Enhancements to Support Multi-Book Accounting
- CSV Import Impact of Address Enhancements

### CSV Import Support for Timesheets and Time Entry

The Timesheets feature is an alternative to the Time Tracking and Time Tracking for CRM features. You can use Timesheet records to track employee time in weekly segments rather than as individual time entries. Time Entry is a subrecord of the Timesheet record. Each Timesheet record contains seven Time Entry subrecords. As of Version 2014 Release 2, Timesheet and Time Entry are newly supported Employee record types for CSV import. The support of these records enables you and your employees to track hours in a CSV-capable editor and then import the data into NetSuite.

**Important:** To use the Timesheets feature, contact NetSuite Support to display the hidden feature in your account. When that request is complete, you can enable the feature at Setup > Company > Enable Features on the Employees subtab.

If the Timesheets feature is enabled in your account, you can use the Import Assistant to import data for Timesheet records and Time Entry subrecords. In the UI, you access the Import Assistant at Setup > Import/Export > Import CSV Records. To import Timesheet CSV files, select Employees from the Import Type dropdown list, and select Timesheet from the

Record Type dropdown list. On the Import Assistant Field Mapping page, Time Entry data is represented by the Day of the Week and Duration fields of the Timesheet record. Each value for the Day of the Week field is a unique identifier for an individual Time Entry subrecord.

The Time Tracking and Time Tracking for CRM features are disabled when the Timesheets feature is enabled. If you were previously using CSV files to import data for Time records, the fields in these files must be modified when you switch to the Timesheets feature. For details, see the following:

- [Converting CSV Import Files from Time Record Data to Timesheets Data](#)
- [Example CSV Import Files for Time and Timesheet Records](#)

For an overview of the Timesheets feature, see the help topic *Timesheets*.

## **Converting CSV Import Files from Time Record Data to Timesheets Data**

Be aware of the following differences associated with the CSV import when switching from the Time Tracking feature to the Timesheets feature (from importing Time records to Timesheet records).

- Timesheet data can be imported using the Import Assistant from a single file, or from multiple files.
- Duration fields cannot be empty. A value must be entered for each day of the week.
- Day of the Week values must be in lowercase English. This is a unique field, not a part of the subrecord, but an internal identifier for an individual time entry. It facilitates field mapping.
- You can update certain information using CSV Import, subject to the limitations for non-keyed sublists. The limitations are described in the help topic *Overwrite Sublists*.
  - The Employee and Start Date body fields cannot be changed.
  - It is not possible to selectively update sublist data. That is, you cannot update a single Time Entry for a particular Timesheet record and then leave the other time entries untouched.
  - To change an existing time entry, remove the entire list and replace it with new values.
  - It is not possible to overwrite a time entry that has already been approved.

## **Example CSV Import Files for Time and Timesheet Records**

The following examples compare possible methods of formatting CSV files for Time and for Timesheets:

- Time CSV Import File Example
- Timesheet and Time Entry Single File CSV Import Example
- Timesheet and Time Entry Multiple Files CSV Import Example

### Time CSV Import File Example

For Time records, only a single CSV file could be imported using the Import Assistant. The structure of the file is not complex. The following table shows one way of formatting a CSV file for Time records. In this example, each entry in the Duration column represents a Time record:

External ID	Employee	Date	Duration
111A	Smith, John	8/14/14	8.0
112A	Carter, Susan	8/14/14	8.0
223A	Smith, John	8/15/14	8.0
224A	Carter, Susan	8/15/14	4.0

### Timesheet and Time Entry Single File CSV Import Example

You can modify the example of the Time CSV import file to update it for the Timesheets feature. The structure of the Timesheet CSV Import file can be similar to the Time CSV import file, with some important differences. You must add another column to show the days of the week for which the time is to be recorded, and change the Date column to Start Date. The week always begins on Sunday. The days of the week represent the individual Time Entry subrecords for the Timesheet record. The following example shows only a single employee for a single week. You can include multiple employees and more than one week of timesheet data in your CSV file. In this example, each entry in the Duration column represents a value for a Time Entry subrecord:

External ID	Employee	Start Date	Day of Week	Duration
111A	Smith, John	8/10/14	sunday	0.0
111A			monday	8.0
111A			tuesday	5.0
111A			wednesday	8.0
111A			thursday	8.0
111A			friday	8.0
111A			saturday	3.0
223A	Carter, Susan	8/10/14	monday	8.0
223A			tuesday	8.0
223A			wednesday	8.0
223A			thursday	8.0
223A			friday	4.0

### Timesheet and Time Entry Multiple Files CSV Import Example

You can import multiple files of Timesheet and Time Entry data using the Import Assistant. This example includes Timesheet data in a primary file, and a linked file containing Time Entry data.

#### Primary File — Timesheet

External ID	Employee	Start Date
111A	Smith, John	8/10/14
223A	Carter, Susan	8/10/14

#### Linked File (Optional) — Timesheet Time Entry

External ID	Day of Week	Duration
111A	sunday	0.0
111A	monday	8.0
111A	tuesday	5.0
111A	wednesday	8.0
111A	thursday	8.0
111A	friday	8.0
111A	saturday	3.0
223A	monday	8.0
223A	tuesday	8.0
223A	wednesday	8.0
223A	thursday	8.0
223A	friday	4.0

### CSV Import Enhancements to Support Multi-Book Accounting

Record types Journal Entry and Intercompany Journal Entry have been enhanced with two new fields: Accounting Book and Is Book Specific. These new fields are necessary for the Multi-Book Accounting feature. Only accounts with the Multi-Book Accounting feature enabled use book specific records.

The main function of the book specific Journal Entry and the book specific Intercompany Journal Entry is to make accounting adjustments for a specific accounting book. The Accounting Book field works in conjunction with the Is Book Specific field to accomplish this goal.

For simplicity, the following list outlines various combinations that can be specified in the .CSV import file for Journal Entries. The same combinations are used for Intercompany Journal Entries.



- If *Is Book Specific* is set to True, a book specific journal entry is created. If an *Accounting Book* is not specified, the book specific journal entry is entered in the primary accounting book.
- If *Is Book Specific* is set to False, a journal entry is created.
- If *Is Book Specific* is not set, and an *Accounting Book* is specified, a book specific journal entry is created.
- If *Is Book Specific* is not set, and no *Accounting Book* is specified, a journal entry is created.

These fields are documented in the help topic *Journal Entry and Intercompany Journal Entry Header Fields Table*.

If you have questions about Multi-Book Accounting, see the help topics *Multi-Book Accounting Overview* and *Using Multi-Book Accounting*.

## CSV Import Impact of Address Enhancements

Enhancements to address customization have caused changes to entity, transaction, and location imports:

- [Country Field is Now Required](#)
- [Changes to Address Field Mappings](#)

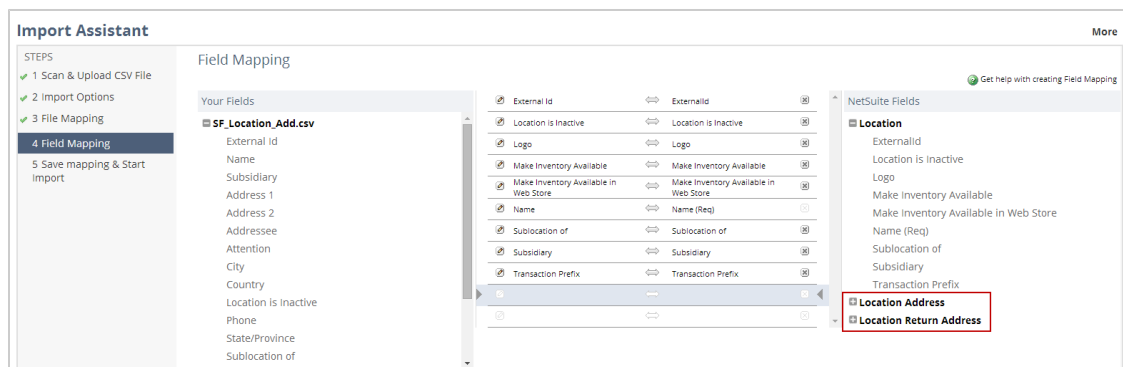
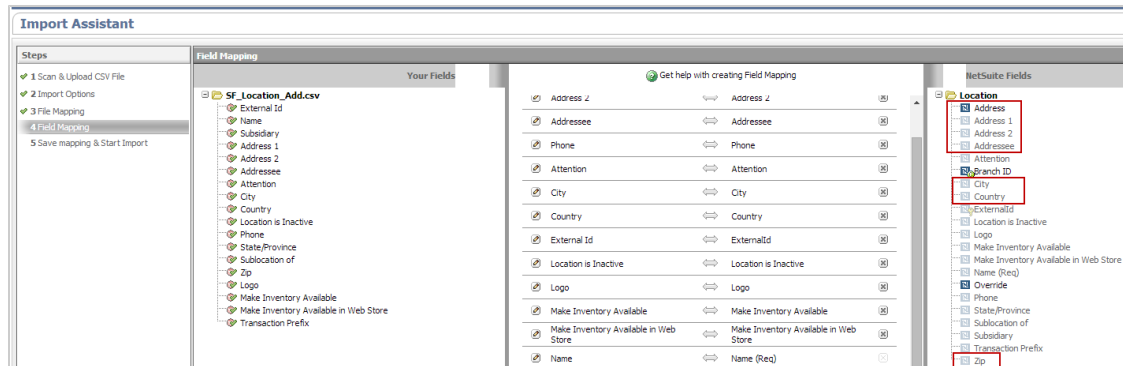
For more information about newly supported address customizations, see [Enhancements to Address Form Customization](#).

### Country Field is Now Required

Because the country determines the custom form to be used for each address, all imported entity, transaction, and location records now require values to be set for the Country field. If your CSV file does not include a column with values for the Country field, the Country field is mapped to a default value of US. You can change this default on the Import Assistant Field Mapping page.

### Changes to Address Field Mappings

The structure of address fields on the Field Mapping page has changed. However, you can continue to use your saved import maps for entities, transactions, and locations, because all saved import maps are automatically migrated when your account is upgraded to Version 2014 Release 2. The following screenshots show the differences between address field mappings for Version 2014 Release 1 and Version 2014 Release 2 location imports:



## SuiteFlow (Workflow Manager)

Version 2014 Release 2 includes the following enhancements to SuiteFlow features:

- Graphical Workflow Editor
- Workflow Impact of Address Enhancements

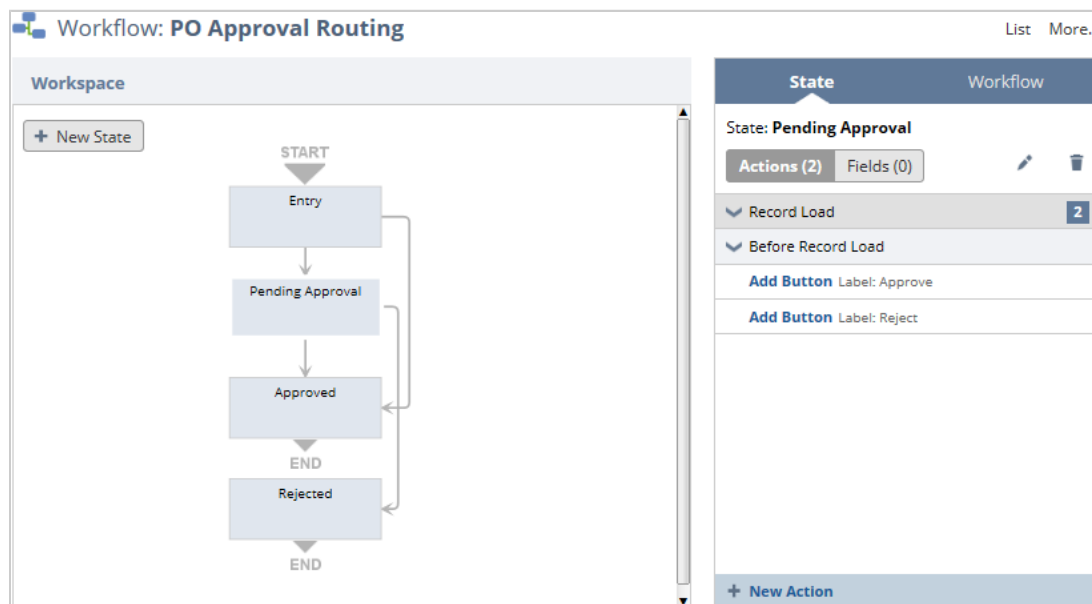
### Graphical Workflow Editor

As of NetSuite Version 2014 Release 2, SuiteFlow includes a redesigned graphical Workflow Editor. The redesign enhances productivity and ease of use. During workflow development, users can utilize the new drag and drop feature to visualize, model, and implement business processes, as well as access most properties with a few clicks.

The Workflow Editor includes the following interface elements:

- **Workflow Diagrammer.** Use the diagrammer to add states and transitions and use the drag and drop feature to visualize and model business processes.
- **Context Panel.** Use the context panel to add and edit states and transitions, add and edit custom fields, and edit workflow properties.

The following screenshot shows the diagrammer on the left and the context panel on the right:



**Note:** The new Workflow Editor is fully backward compatible with workflows created in previous versions of NetSuite.

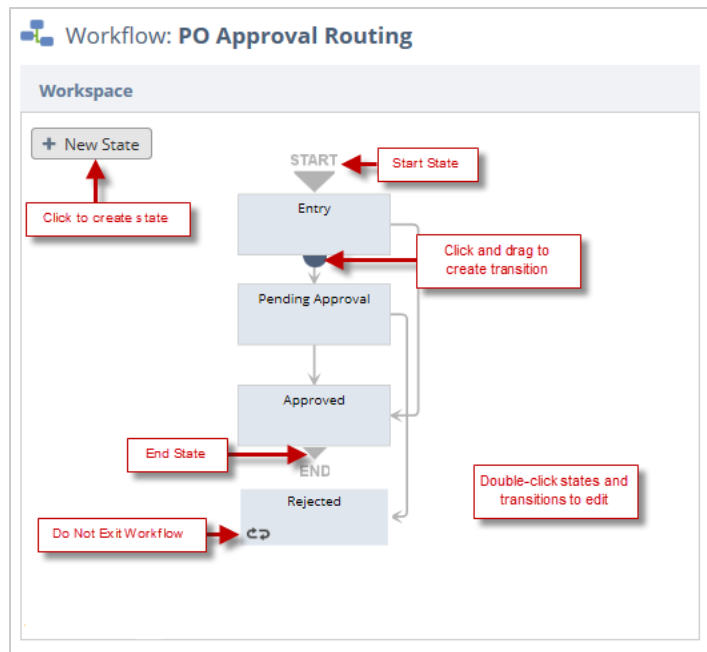
## Workflow Diagrammer

The Workflow diagrammer is a Javascript-based editor that you can use to create and edit workflow states and transitions. It includes the power of drag and drop so that you can move states and transitions to reflect the business process defined by the workflow. Any change made in the diagrammer is automatically saved in NetSuite.

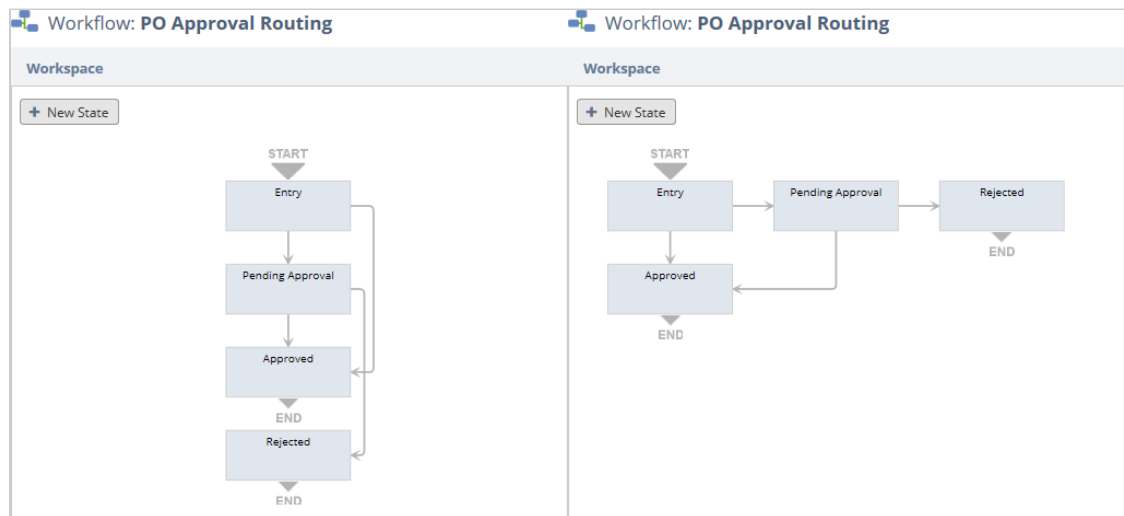
In previous versions of NetSuite, all workflow diagrams were linear and could not be graphically rearranged.

The diagrammer includes the following features:

- Indicated start and end states. The diagrammer uses the workflow logic to determine the possible end states for the workflow.
- Click and drag to create transitions. You can click the icon at the bottom of a state and drag to create a new transition to another state.
- Double-click to edit. You can double-click states and transitions to edit the properties.
- Non-exiting states icon. The diagrammer indicates states with the **Do Not Exit Workflow** option enabled.



You can also drag and drop states to new locations when you are designing a workflow. All transitions are redrawn to follow the states to their new locations:



## Context Panel

The new workflow context panel displays overview information and offers quick access to the main properties of any selected object. Use the panel to create and edit objects in the diagrammer, edit workflow properties, and create, edit, and delete workflow fields.

Depending on the object selected in the diagrammer, the context panel includes the following tabs:

- State Tab
- Transition Tab
- Workflow Tab

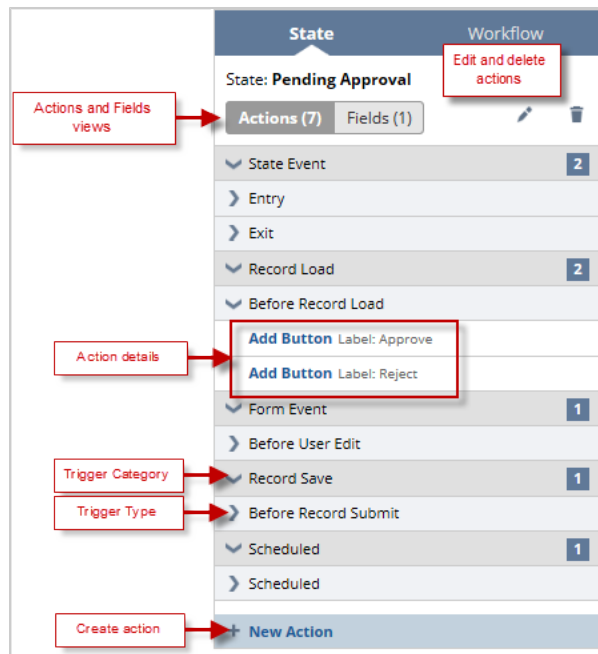
### State Tab

To access the State tab, select a state in the diagrammer. The State tab includes the following features:

- Create, edit, and delete actions and state fields. The actions and state fields depend on the state selected in the diagrammer.
- New trigger categories. All servers and client triggers are grouped into five categories:
  - State Event (when the workflow enters or exits a state)
  - Record Load
  - Form Event (any client-side user action)
  - Record Save
  - Scheduled

You can expand and collapse the categories to view the actions in each category. You can use this information to see the general order in which actions are executed within a state, depending on the workflow design.

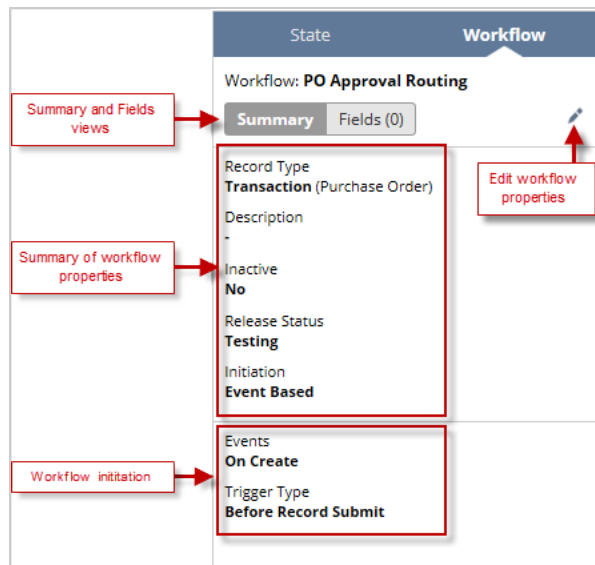
- View action details. Each action shows the action type and brief details of the action.
- Actions and Fields views. Switch between views to create, edit, and delete actions and state custom fields.



## Workflow Tab

To access the Workflow tab, click the Workflow tab in the context panel. The Workflow tab includes the following features:

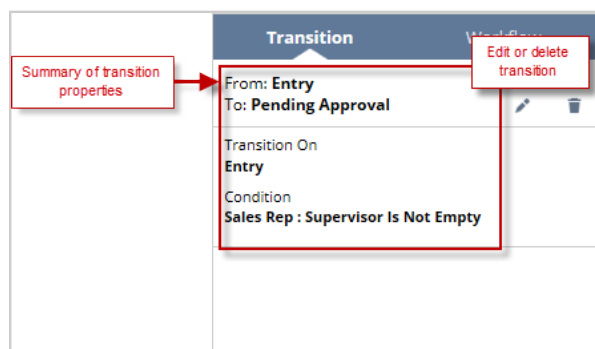
- Edit workflow properties. You can open the workflow definition page to edit workflow properties.
- Workflow initiation. Shows details for workflows set to initiate on an event or on a schedule.
- Summary and Fields views. Switch between views to view and edit workflow properties or create, edit, and delete workflow instance fields.



## Transition Tab

To access the Transition tab, select a transition in the diagrammer. The Transition tab includes the following features:

- View transition properties. View the To and From states in addition to the transition trigger and transition condition.
- Edit or delete the transition selected in the diagrammer.



## Workflow Impact of Address Enhancements

The address customization feature, to be released in Version 2014 Release 2, supports custom address fields and custom address forms and moves address fields into a new address subrecord. Although it is largely backward compatible, this feature includes changes to SuiteFlow address support that may impact a small number of existing workflows, causing unexpected results.

As a result of the changes implemented by the address customization feature, the following workflow actions are no longer supported on address fields:

- Set Field Display Label
- Set Field Display Type
- Set Field Mandatory

Note that the Set Field Value workflow action continues to be supported for address fields.

If any workflow currently includes these unsupported actions on address fields, you must delete these actions from the workflow and implement the behavior through address form customization. You can set the label of a field, set its display type, make it mandatory on a custom address form, or any combination of these settings. For more information about newly supported customizations for address forms, see [Enhancements to Address Form Customization](#).

## SuiteScript

Refer to the following sections for details on all SuiteScript updates for Version 2014 Release 2:

- [CRMSDK Templates – SuiteScript Changes](#)
- [Scheduled Script Calendar Deprecated](#)
- [SuiteScript Impact of Updated NetSuite User Interface](#)
- [SuiteScript Impact of Address Enhancements](#)
- [SuiteScript Support for Large File Sizes](#)
- [Initiate Workflow Asynchronously API](#)
- [PDF Render to Response API](#)
- [Client Side Support for Hiding and Un-hiding Fields](#)
- [Internal Only Support for nlapiSendEmail](#)
- [Ignore Recalc Support for nlobjRecord Commit, Insert, and Remove Line Item Methods](#)
- [Changes to the Revenue Recognition Schedule's Search Filters and Columns](#)
- [New APIs](#)
- [Updated APIs](#)
- [Newly Supported Record Types](#)



- [2014.2 SuiteScript Records Browser](#)
- [Script Queue Monitor \(Beta\)](#)

## CRMSDK Templates – SuiteScript Changes

As of Version 2014 Release 2, you can no longer create, edit, or copy CRMSDK templates with SuiteScript. Within SuiteScript, CRMSDK templates are accessed with the *email template* and *campaign template* records. See the SuiteScript help on these records for additional information.

Note that you can still use *nlapiMergeRecord* with CRMSDK templates to perform a mail merge. You can also use SuiteScript to read and delete CRMSDK templates.

## Scheduled Script Calendar Deprecated

The Scheduled Script Calendar page is removed with this release. In previous versions, this page was accessed from a scheduled script's script or script deployment record by clicking **Go to Calendar**.

## SuiteScript Impact of Updated NetSuite User Interface

The changes introduced with NetSuite's new user interface have the potential to affect results for existing SuiteScripts.

It is strongly recommended that you thoroughly test all of your customizations in the Release Preview environment, especially client scripts, portlet scripts, and Suitelets. If you discover problems, contact your account manager or file a support case.

In addition to these general updates, the new user interface includes the following specific changes that may impact existing scripts:

- [SuiteScripts that Directly Access the NetSuite DOM May No Longer Work](#)
- [Quirks Mode Turned Off](#)
- [Custom UI Elements Should be Reviewed](#)
- [Color Theme API Deprecated](#)
- [Change to addPageLink Method](#)
- [Offline Client No Longer Supported](#)

If you have scripts impacted by the specific changes in this list, you should test them in Release Preview and if needed, take corrective action to ensure these scripts continue to function correctly in Version 2014 Release 2.

For details about updates to the user interface, see [New Visual Design for User Interface](#).

## **SuiteScripts that Directly Access the NetSuite DOM May No Longer Work**

SuiteScript has never officially supported direct access to the DOM. If your scripts are accessing the DOM, they may no longer work as expected in Version 2014 Release 2.

## **Quirks Mode Turned Off**

As of Version 2014 Release 2, NetSuite no longer supports the Quirks document mode on any browser. Quirks mode enables browsers to support browser specific, non-standard, or legacy functionality instead of complying with W3C and IETF standards. If any of your scripts inject or manipulate browser specific, non-standard, or legacy HTML or CSS on the browser, those scripts may not behave as expected in Version 2014 Release 2.

It is recommended that you validate the compatibility of your scripts with HTML5 specifications (for example, missing units (px, em) are now required when styling elements). Information about these specifications is available at the W3C site, <http://www.w3.org/TR/html5/>.

## **Custom UI Elements Should be Reviewed**

The look of any Suitelets or custom portlets where you used your own HTML or a third party library to build the UI will not be adjusted to fit with the updated user interface. It is recommended that you review these custom UI elements, and make updates as desired. You can refer to the [NetSuite UI Style Guide](#), which provides color, font, spacing, button, popup, and other specifications.

UI elements created with SuiteScript objects automatically get updated with the new look and feel.

## **Color Theme API Deprecated**

The replacement of previous standard themes for the UI with new standard colors and themes results in the deprecation of the following related methods:

- `nlobjContext.getColorPreferences()` is deprecated as of Version 2014 Release 2.
- `nlobjConfiguration` methods are deprecated for the following preferences as of Version 2014 Release 2:
  - `COLORTHEME` (Color Theme)
  - `HUE` (Color Family)

- SAT (Color Saturation)
- LUM (Color Lightness)

It is recommended that you remove any use of these methods from your scripts.

**Note:** For backward compatibility, old color theme colors have been mapped to new colors.

Existing web store theme settings and customizations are not impacted by the changes to color themes.

### Change to addPageLink Method

If you use the `nlobjList.addPageLink(type, title, URL)` or `nlobjForm.addPageLink(type, title, url)` method to add cross links to list pages or forms, be aware that cross links have been moved to the More menu in the upper right corner of pages and forms.

### Offline Client No Longer Supported

NetSuite no longer supports the offline client. It is recommended that you update your scripts so that they do not interact with the offline client.

## SuiteScript Impact of Address Enhancements

The address customization feature to be released in Version 2014 Release 2 supports custom address fields and custom address forms and moves address fields into a new address subrecord. Although it is largely backward compatible, this feature includes changes to SuiteScript address support that may impact a small number of existing scripts, causing unexpected results.

The SuiteScript impacts include the following:

- Validate Field, Field Changed, and Post Sourcing events on address fields will not fire in client scripts deployed to Entity or Item Fulfillment records or in custom code on forms for these record types.

This code should be moved to the Custom Code subtab of the address form for the record type.

- Setting the Country field will reset all address Fields in dynamic mode.

In scripts running in dynamic mode, code that sets address fields should always set the Country field first.

- `nlobjRecord.getFieldText`, `nlobjRecord.setFieldText`, `nlapiGetFieldText` and `nlapiSetFieldText` will not be supported for address fields that have become part of the address subrecord.

This code should be modified to use `nlobjRecord.getFieldValue`, `nlobjRecord.SetFieldValue`, `nlapiGetFieldValue`, or `nlapiSetFieldValue` instead.

**Note:** These methods and functions continue to work for address fields that are part of the parent record.

- `nlobjRecord.getLineItemField`, `nlobjRecord.getField`, and `nlapiGetField` will not be supported to get address field metadata.

This code should be modified to get address field metadata from the subrecord.

- `nlapiGetLineItemValue` and `nlapiSetLineItemValue` will not be supported for address fields in dynamic mode.

This code should be modified to use `nlapiGetCurrentLineItemValue` or `nlapiSetCurrentLineItemValue`.

**Important:** In most server-side scripts, addresses are now accessed with the subrecord APIs (see the help topic *Scripting the Address Subrecord* for more information). Scripts that access addresses on the Company Information page are an exception to this rule. Access address fields on the Company Information page in the same way you did prior to Version 2014 Release 2. See the help topic *nlapiLoadConfiguration* for additional information and an example.

If you have scripts that are affected by any of the preceding listed impacts, you must make the required changes to these scripts in your Version 2014 Release 2 Release Preview account, and fully test these scripts in this environment before the upgrade of your production account. You can then make these changes in your production account immediately after upgrade.

Please see the help topics *SuiteScript and SuiteFlow Impact of Version 2014 Release 2 Address Customization Changes* and *Using SuiteScript and Address Subrecords* for additional details. If you have any questions or problems, please contact NetSuite Customer Support for assistance with updating your scripts.

For more information about newly supported address customizations, see [Enhancements to Address Form Customization](#).

## SuiteScript Support for Large File Sizes

In previous versions, there was a 5MB file size limitation on all SuiteScript APIs that interacted with `nlobjFile` objects. Version 2014 Release 2 removes this limitation for most SuiteScript APIs that interact with files. SuiteScript developers can now write Suitelets and RESTlets that can accommodate large file uploads to the file cabinet.

**Important:** The *nlapicreateFile* function is not impacted by this feature. As in previous versions, you can create only *nlobjFile* objects up to 5MB with this API.

**Important:** The *nlobjFile.getValue* method is not impacted by this feature. As in previous versions, you can use this API with only *nlobjFile* objects up to 5MB. This method returns an *SSS\_FILE\_CONTENT\_SIZE\_EXCEEDED* error when you attempt to use it with *nlobjFile* objects that are larger than 5MB.

## Impacted SuiteScript APIs

The following APIs are impacted by this feature.

**Note:** This feature does not change file cabinet file size limitations.

API	Impact	Example
<i>nlapiloadFile</i>	The <i>nlapiloadFile</i> function can now load <i>nlobjFile</i> objects of any size permitted by the file cabinet.	Use <i>nlapiloadFile</i> to load a large CSV file and submit it for import.
<i>nlapisetRecoveryPoint</i> <i>nlapiyieldScript</i>	Scripts that contain live references to files larger than 5MB must null the references before they call <i>nlapiyieldScript</i> or <i>nlapisetRecoveryPoint</i> . If these references are not nulled, the script returns an <i>SSS_FILE_OBJECT_NOT_SERIALIZABLE</i> error.	<pre>var largeFile = nlapiloadRecord('1234'); var pdf = nlapixmlToPDF(largeFile); largeFile = null; nlapiyieldScript(); //perform additional logic after points refreshed</pre>
<i>nlapisubmitFile</i>	The <i>nlapisubmitFile</i> function can now submit <i>nlobjFile</i> objects of any size permitted by the file cabinet.	Use <i>nlapisubmitFile</i> to receive a large file upload and then save it to the file cabinet.
<i>nlobjCSVImport.setLinkedFile</i> <i>nlobjCSVImport.setPrimaryFile</i>	The <i>nlobjCSVImport</i> object can now accept larger files. Imports are subject to the existing application maximum of 25,000 records.	Accept a large CSV file upload, dynamically select the CSV mapping to use, and then submit the file for import.
<i>nlobjRequest.getFile</i>	The <i>nlobjRequest.getFile</i> method can now return an uploaded file up to, but not including, 10MB.	Receive a large file upload and save it to the file cabinet.
<i>nlobjResponse.write</i>	The <i>nlobjResponse.write</i> method now accepts <i>nlobjFile</i> objects as an argument.	Quickly generate a large PDF document and then provide it for download.

## Initiate Workflow Asynchronously API

This release introduces a new function that asynchronously initiates a workflow. When *nlapiInitiateWorkflowAsync* is called, a job is created to initiate an instance of the specified

workflow. This job is then placed in the scheduling queue. The workflow instance is initiated after the job reaches the top of the queue. An error is thrown if the record in the workflow is invalid or unsupported for that workflow.

The `nlapiInitiateWorkflowAsync` API is supported in all server-side scripts. The governance for this API is 20 units.

**Note:** `nlapiInitiateWorkflowAsync` does not successfully place a workflow job in queue if an identical instance of that workflow (with an identical `recordtype`, `id`, and `workflowid`) is currently running or already in the scheduling queue.

`nlapiInitiateWorkflowAsync` takes the following parameters:

- `recordtype` {string} [required] - The record type of the workflow base record (for example, 'customer', 'salesorder', 'lead'). In the Workflow Manager, this is the record type that is specified in the Record Type field.
- `id` {int} [required] - The internal ID of the base record (for example 55 or 124).
- `workflowid` {int | string} [required] - The internal ID (int) or script ID (string) for the workflow definition. This is the ID that appears in the ID field on the *Workflow Definition Page*.
- `initialValues` {object} [optional] — Name/value pairs representing defaults used during workflow initialization.

The return value of `nlapiInitiateWorkflowAsync` is a string representing the workflow status. This value indicates whether the workflow is successfully placed in the scheduling queue:

- If the workflow job is successfully placed in queue, the return value is `QUEUED`.
- If the workflow job is not successfully placed in queue, one of the following values is returned:
  - `INQUEUE` – Returned if the workflow is already in queue and waiting to run. If this status is returned, you must wait until the workflow job is finished before attempting to place another instance of the workflow in the queue.
  - `INPROGRESS` – Returned if the workflow is currently running.

## PDF Render to Response API

In previous releases, SuiteScript generated all PDFs as `nlobjFile` objects that referenced files uploaded to the NetSuite file cabinet. Because of this, scripts without file cabinet permissions

were unable to generate PDFs. Version 2014 Release 2 introduces a new `nlobjResponse` method, `renderPDF(xmlString)`, that generates a PDF directly to a response. SuiteScript developers can now write scripts that generate PDFs without first importing a file to the file cabinet.

The `renderPDF(xmlString)` method takes in one argument, an XML document passed as a string. The `xmlString` argument is the same as the input taken in and passed to BFO by `nlapiXMLtoPDF`. This API is supported only in server-side scripts. It has a governance of 10 usage units.

## Client Side Support for Hiding and Un-hiding Fields

The `nlobjField.setDisplayType` method is now supported in client-side scripts. The `setDisplayType` method has one string parameter, `type`. The client-side version of this method takes in the following type arguments:

- `hidden` – Hides the field on the form.
- `readonly` – Disables the field. The field is still selectable and scrollable. Supported with text area fields and rich text fields.
- `entry` – Makes a sublist field appear as a data entry input field. Supported with non-checkbox, select fields.
- `disabled` – Disables the field from users' changes.
- `normal` – Makes the field appear as a normal input field. Supported with non-sublist fields.

**Note:** The `inline` argument is not supported in client-side scripts.

## Internal Only Support for `nlapiSendEmail`

Version 2014 Release 2 adds a new parameter to `nlapiSendEmail` that sets a new message record as internal only. When a message record is set to internal only, customers do not see the message from the customer center.

The new parameter, `internalOnly`, takes a true or false Boolean value. The use of `internalOnly` is optional.

## Ignore Recalc Support for `nlobjRecord Commit, Insert, and Remove Line Item Methods`

Version 2014 Release 2 adds a new Boolean parameter, `ignoreRecalc`, to three `nlobjRecord` methods: `commitLineItem`, `insertLineItem`, and `removeLineItem`. When `ignoreRecalc` is set to

*true*, the line item total is not recalculated upon execution. This parameter is useful if you are editing, inserting, or removing multiple line items on the same sublist and you must improve performance. Note that you must not use this option on the last line item commit, insert, or removal of the sublist. If you do not recalculate the line item total before submitting the record, an error is thrown.

The new parameter takes a true or false argument and is supported only with server-side scripts. The use of `ignoreRecalc` is optional.

## Changes to the Revenue Recognition Schedule's Search Filters and Columns

Version 2014 Release 2 includes changes to the search filters and columns available for the Revenue Recognition Schedule record type. Some fields have been removed, and some have been added. If your scripts use this search, you should review the scripts and update them as appropriate.

For more details about the updated search filters and columns, please refer to the SuiteScript Records Browser. Refer to the [reference page for the Revenue Recognition Schedule record type](#).

### Changes to Search Filters

The following fields have been removed from the record's available search filters:

- defrev
- entity
- externalId
- externalIdstring
- incomeacct
- srcdoc
- srcdocdate

The following fields have been added:

- accountingbook
- amorstatus
- amortizedamount



- amortype
- currency
- deferredamount
- destacct
- initialamt
- isrecognized
- pctcomplete
- pctrecognition
- periodoffset
- scheddate
- schedulenum
- schedulenumbertext
- sourceacct
- srctrantype
- startoffset
- templatenam
- useforeignamounts

### Changes to Search Columns

The following fields have been removed from the record's available search columns:

- defrev
- entity
- externalid
- incomeacct
- postperiod
- srcdoc

The following fields have been added:

- accountingbook
- amorstatus
- amortemplate
- amortizedamount
- amortype
- currency
- deferredamount
- destacct
- initialamt
- isrecognized
- linesequencenumber
- pctcomplete
- pctrecognition
- periodoffset
- recuramount
- recurfxamount
- scheddate
- schedulenum
- sourceacct
- srctran
- srctranpostperiod
- startoffset
- useforeignamounts

## New APIs

API	Notes
<i>nlapiInitiateWorkflowAsync(recordtype, id, workflowid, initialValues)</i>	See <a href="#">Initiate Workflow Asynchronously API</a> for information.

API	Notes
<code>nlobjResponse.renderPDF(xmlString)</code>	See <a href="#">PDF Render to Response API</a> for information.

## Updated APIs

API	Notes
<ul style="list-style-type: none"> <li>• <code>nlapiLoadFile(id)</code></li> <li>• <code>nlapiSetRecoveryPoint()</code></li> <li>• <code>nlapiSubmitFile(file)</code></li> <li>• <code>nlapiYieldScript()</code></li> <li>• <code>nlapiXMLToPDF(xmlString)</code></li> <li>• <code>nlobjCSVImport.setLinkedFile(file)</code></li> <li>• <code>nlobjCSVImport.setPrimaryFile(file)</code></li> <li>• <code>nlobjRequest.getFile(id)</code></li> <li>• <code>nlobjResponse.write(output)</code></li> </ul>	See <a href="#">SuiteScript Support for Large File Sizes</a> for information.
<code>nlapiSendEmail(author, recipient, subject, body, cc, bcc, records, attachments, notifySenderOnBounce, internalOnly)</code>	See <a href="#">Internal Only Support for nlapiSendEmail</a> for information.
<code>nlobjField.setDisplayType(type)</code>	See <a href="#">Client Side Support for Hiding and Un-hiding Fields</a> for information.

## Newly Supported Record Types

Newly Supported Record Type	Category	Notes
<i>Blanket Purchase Order</i>	<i>Transactions</i>	<ul style="list-style-type: none"> <li>• With this record, you can take advantage of fixed pricing for a preset number of items that you will buy during a specific time period. This approach lets you avoid sporadic pricing negotiations with vendors.</li> <li>• This record is available only when the Blanket Purchase Order feature is enabled at Setup &gt; Company &gt; Enable Features, on the Transactions subtab.</li> <li>• This feature is new in this release and is described further in <a href="#">Blanket Purchase Orders</a>.</li> <li>• In the user interface, you can access this record at Transactions &gt; Purchases/Vendors &gt; Enter Blanket Purchase Order.</li> <li>• The internal ID for this record is <i>blanketpurchaseorder</i>.</li> </ul>
<i>Manufacturing Planned Time</i>	<i>Transactions (Search)</i>	<ul style="list-style-type: none"> <li>• For accounts that have enabled the Show Planned Capacity on Work Orders preference, this search enables you to search for the data displayed on the Planned Time subtab of work orders.</li> </ul>

Newly Supported Record Type	Category	Notes
		<ul style="list-style-type: none"> <li>The Show Planned Capacity on Work Orders preference was introduced in Version 2014 Release 1. For work orders that use the Manufacturing Routing and Work Center feature, the preference enables the system to display data about the amount of time being allocated to each work center per day for the work order. This data is derived from the associated operation task records.</li> <li>This record is a search record only. You cannot create or copy this record.</li> <li>In the user interface, you can view this search by navigating to Reports &gt; New Search and clicking Manufacturing Planned Time.</li> <li>The internal ID for this record is <i>mfgplannedtime</i>.</li> </ul>
Purchase Contract	Transactions	<ul style="list-style-type: none"> <li>With this record, you can take advantage of contracted quantity-based terms and discounts when creating purchase orders.</li> <li>This record is available only when the Purchase Contracts feature is enabled at Setup &gt; Company &gt; Enable Features, on the Transactions subtab.</li> <li>This feature is new in this release and is described further in <a href="#">Purchase Contracts</a>.</li> <li>In the user interface, you can access this record at Transactions &gt; Purchases/Vendors &gt; Enter Purchase Contracts.</li> <li>The internal ID for this record is <i>purchasecontract</i>.</li> </ul>

## 2014.2 SuiteScript Records Browser

The 2014.2 version of the [SuiteScript Records Browser](#) is now available. You can find links to the Records Browser in a few places, including the following:

- The reference page for each supported record. You can find these reference pages in the NetSuite Help Center under *SuiteScript Supported Records*. They are also part of the PDF titled *SuiteScript Developer and Reference Guide*, which you can download as a PDF from the *User Guides* topic.
- The help topic titled *Working with the SuiteScript Records Browser*.

## SuiteCloud IDE

SuiteCloud IDE is an Eclipse-based integrated development environment (IDE) that is packaged for NetSuite platform development. Version 2014 Release 2 includes the following enhancements to SuiteCloud IDE features:

- Support for SuiteScript Functions

**Note:** For more information about updating Eclipse from the SuiteCloud IDE update site, see the help topic *Installing and Setting Up the SuiteCloud IDE*.

## Support for SuiteScript Functions

As of Version 2014 Release 2, the SuiteCloud IDE includes support for the following SuiteScript functions:

- `nlapiInitiateWorkflowAsync(recordType, id, workflowId, initialValues)`
- `nlobjResponse.renderPDF(xmlString)`

**Note:** These functions are only supported in SuiteCloud IDE version 2014.2.0.e4.

For more information, see the SuiteScript documentation in the Help Center.

## SuiteTalk (Web Services) Integration

Refer to the following sections for details on all SuiteTalk Web Services updates for Version 2014 Release 2:

- Improved Messaging for Partially Completed List Operations
- Enhancements to Support Multi-Book Accounting
- Web Services Impact of Address Enhancements
- New Permission Required for the getDeleted Operation
- Fields Deprecated in Revenue Recognition Schedule Search Elements
- Changes to PostingPeriodDate
- Status Detail Codes Deprecated
- 2014.2 WSDL Now Generally Available
- Araxis Merge Diff File for the 2014.2 Endpoint
- 2014.2 SuiteTalk Schema Browser

### Improved Messaging for Partially Completed List Operations

The 2014.2 WSDL enables improved response messaging for list and search requests that did not complete before the user's HTTP connection timed out. This enhancement is beneficial if you send requests that require longer than 15 minutes, which is the maximum duration for any Web services HTTP connection.

This enhancement is particularly useful for list requests. In these cases, you are informed of which records were successfully processed before the timeout. For example, suppose you are using the `addList` operation, and the connection times out. If you are using a pre-2014.2 endpoint, the system does not send any response when the operation is terminated. You are not informed about which records were processed, if any. However, if you are using the 2014.2 WSDL, the system sends a response. This response specifies which records were successfully added. It also indicates that certain records were not processed. Using this information and the original SOAP request, you can determine which data to resend.

In the case of a search interrupted by a timeout, the system returns a message stating that the search did not finish.

This enhancement affects only synchronous list and search operations. It does not affect single add, update, or delete operations. However, note that single-record operations almost always complete before the HTTP connection times out. If they do not, they are still processed. This behavior is the same regardless of which endpoint is being used.

Asynchronous operations also are not affected. For details on checking the status of an asynchronous operation, see the help topic *Checking the Status of an Asynchronous Job*.

## Enhancements to Support Multi-Book Accounting

The 2014.2 WSDL has been enhanced to provide greater support for the Multi-Book Accounting feature. That is, with the 2014.2 endpoint, you can use Web services to create book-specific journal entries. To create these types of entries, you use the journal entry and intercompany journal entry record exposures. These exposures have been enhanced to include the following two fields:

- `accountingBook` – a `RecordRef` that identifies the appropriate accounting book.
- `isBookSpecific` – a Boolean value that indicates whether the journal entry is book specific.

When working with journal entry and intercompany journal entries, use the following guidelines:

- If you want to make a journal entry book specific, use the `accountingBook` field to identify the appropriate book. Setting this value automatically sets the `isBookSpecific` field to true.
- If you want to create a journal entry that is **not** book specific, ignore the new fields.

This release also exposes the multi-book accounting transaction search. This search enables you to search for transactions using accounting book as a search filter. You can also use accounting book as a search column.

The journal entry and intercompany journal entry records are defined in the [tranGeneral XSD](#). The multi-book accounting transaction search record is defined in the [platformCommon XSD](#).

For more information about creating journal entries using Web services, see the help topics *Journal Entry* and *Intercompany Journal Entry*.

For more information about the Multi-Book Accounting feature, see the help topic *Multi-Book Accounting Overview*.

## Web Services Impact of Address Enhancements

The 2014.2 endpoint includes schema changes to support address customization enhancements. This endpoint adds a new address complex type to represent the address subrecord, and changes the address fields available in parent records to just mainAddress and returnAddress.

The following graphic shows the 2014.2 schema for a location record and address subrecord:

```
<complexType name="Location">
  ...
  <element name="mainAddress" type="platformCommon:Address" minOccurs="0"/>
  <element name="returnAddress" type="platformCommon:Address" minOccurs="0"/>
  ...
</complexType>

<complexType name="Address">
  <complexContent>
    <extension base="platformCore:Record">
      <sequence>
        <element name="internalId" type="xsd:string" minOccurs="0"/>
        <element name="country" type="platformCommonTyp:Country" minOccurs="0"/>
        <element name="attention" type="xsd:string" minOccurs="0"/>
        <element name="addressee" type="xsd:string" minOccurs="0"/>
        <element name="addrPhone" type="xsd:string" minOccurs="0"/>
        <element name="addr1" type="xsd:string" minOccurs="0"/>
        <element name="addr2" type="xsd:string" minOccurs="0"/>
        <element name="addr3" type="xsd:string" minOccurs="0"/>
        <element name="city" type="xsd:string" minOccurs="0"/>
        <element name="state" type="xsd:string" minOccurs="0"/>
        <element name="zip" type="xsd:string" minOccurs="0"/>
        <element name="addrText" type="xsd:string" minOccurs="0"/>
        <element name="override" type="xsd:boolean" minOccurs="0"/>
        <element name="customFieldList" type="platformCore:CustomFieldList" minOccurs="0"/>
      </sequence>
    </extension>
  </complexContent>
</complexType>
```

2014.1 and earlier endpoints continue to use the same schema for addresses, with address fields included in parent records. These earlier endpoints do not support address customization enhancements. The following graphic shows the 2014.1 schema for the location record:

```
<complexType name="Location">
  ...
  <element name="attention" type="xsd:string" minOccurs="0"/>
  <element name="addressee" type="xsd:string" minOccurs="0"/>
  <element name="addrPhone" type="xsd:string" minOccurs="0"/>
  <element name="addr1" type="xsd:string" minOccurs="0"/>
  <element name="addr2" type="xsd:string" minOccurs="0"/>
  <element name="addr3" type="xsd:string" minOccurs="0"/>
  <element name="city" type="xsd:string" minOccurs="0"/>
  <element name="state" type="xsd:string" minOccurs="0"/>
  <element name="zip" type="xsd:string" minOccurs="0"/>
  <element name="country" type="platformCommonTyp:Country" minOccurs="0"/>
  <element name="addrText" type="xsd:string" minOccurs="0"/>
  <element name="override" type="xsd:boolean" minOccurs="0"/>
  ...
</complexType>
```

If you are using 2014.1 or an earlier endpoint, you do not need to make any changes to Web services integrations that use addresses. When you upgrade from an earlier endpoint to the 2014.2 endpoint, you will need to modify any integrations that use addresses, to conform to the address schema changes.

For information about newly supported address customizations, see [Enhancements to Address Form Customization](#).

## New Permission Required for the getDeleted Operation

Version 2014 Release 2 adds a permission called Deleted Records. Along with the Web Services permission, the Deleted Records permission is required for any role to be able to execute the getDeleted operation. The only exception is the Administrator and Full Access roles, which have permission to perform all operations.

When your account is upgraded, NetSuite checks to see which roles in your account have the Web Services permission. To prevent disruptions to your integration, the 2014.2 upgrade process adds the Deleted Records permission to these roles.

After your account is upgraded, you may decide that additional roles must use the getDeleted operation. For example, you might want to give the permission to a role that did not have the Web Services permission prior to your account's upgrade. In these cases, you must manually give both the Web Services and the Deleted Records permission to the role. These permissions are required regardless of which endpoint you are using.



Note that roles with the Deleted Records permission also have access to the Deleted Record search type. This search type is also new in this release. For more information, see [New Search Type Reveals Details About Deleted Records](#).

#### To add the Deleted Records permission to a role:

1. Go to Setup > Users/Roles > Manage Roles.
2. Open the appropriate role for editing.
3. On the **Permissions** subtab, click **Setup**.
4. Add a line for the **Deleted Records** permission. Note that there is only one possible level for this permission, and it is **Full**. This level is automatically selected.
5. Click **Save**.

For more information about the getDeleted operation, see the help topic *getDeleted*.

## Fields Deprecated in Revenue Recognition Schedule Search Elements

Because of enhancements in Version 2014 Release 2, certain fields in RevRecScheduleSearchBasic and RevRecScheduleSearchRowBasic are no longer honored, regardless of which WSDL is being used. If you use either of these elements, you should review your integration and make sure these fields are not referenced.

A related change is that the 2014.2 WSDL includes new fields for both of these elements.

### Fields No Longer Honored

This section lists the fields that are no longer honored. In the 2014.2 WSDL, these fields no longer occur in the element definitions. Older WSDLs still list these fields, but the fields are no longer usable.

The fields no longer honored in RevRecScheduleSearchBasic include the following:

- defRev
- entity
- externalId
- externalIdString
- incomeAcct
- srcDoc
- srcDocDate

The fields no longer honored in RevRecScheduleSearchRowBasic include the following:

- defRev
- entity
- externalId
- incomeAcct
- postPeriod
- srcDoc

## Fields Added

This section describes enhancements in the 2014.2 WSDL to both RevRecScheduleSearchBasic and RevRecScheduleSearchRowBasic.

The following fields have been added to RevRecScheduleSearchBasic:

- accountingBook
- amorStatus
- amortizedAmount
- amorType
- currency
- deferredAmount
- destAcct
- initialAmt
- isRecognized
- pctComplete
- pctRecognition
- periodOffset
- schedDate
- scheduleNumber
- scheduleNumberText
- sourceAcct
- srcTranType
- startOffset
- templateName
- useForeignAmounts

The following fields have been added to RevRecScheduleSearchRowBasic:

- accountingBook
- amorStatus
- amorTemplate
- amortizedAmount
- amorType
- currency
- deferredAmount
- destAcct
- initialAmt
- isRecognized
- lineSequenceNumber
- pctComplete
- pctRecognition
- periodOffset
- recurAmount
- recurFxAmount
- schedDate
- scheduleNumber
- sourceAcct
- srcTran
- srcTranPostPeriod
- startOffset
- useForeignAmounts

For more details about these fields, refer to the 2014.2 SuiteTalk Schema Browser's reference pages for [RevRecScheduleSearchBasic](#) and [RevRecScheduleSearchRowBasic](#).

## Changes to PostingPeriodDate

In the 2014.2 WSDL, the PostingPeriodDate enumeration has changed. Some values in this enumeration have been renamed. Values have also been added. If you use this enumeration, before upgrading to the 2014.2 endpoint, you should review and update your integration as needed.

PostingPeriodDate is defined in the [commonTypes XSD](#). The enumeration is used by three search types: ChargeSearchBasic, OpportunitySearchBasic, and TransactionSearchBasic.

The renamed values are described in the following table.

Old Value	New Value
_firstQtrOfLastFy	_firstFiscalQuarterOfLastFy
_firstQtrOfThisFy	_firstFiscalQuarterOfThisFy
_fourthQtrOfLastFy	_fourthFiscalQuarterOfLastFy
_fourthQtrOfThisFy	_fourthFiscalQuarterOfThisFy
_lastPeriodOneQtrAgo	_lastPeriodOneFiscalQuarterAgo
_lastPeriodOneYearAgo	_lastPeriodOneFiscalYearAgo
_lastQtrOfOneYearAgo	_lastFiscalQuarterOneFiscalYearAgo
_lastQuarter	_lastFiscalQuarter
_quarterBeforeLast	_fiscalQuarterBeforeLast
_samePeriodOfLastQtr	_samePeriodOfLastFiscalQuarter
_sameQtrOfLastFy	_sameFiscalQuarterOfLastFy
_secondQtrOfLastFy	_secondFiscalQuarterOfLastFy
_secondQtrOfThisFy	_secondFiscalQuarterOfThisFy
_thirdQtrOfLastFy	_thirdFiscalQuarterOfLastFy
_thirdQtrOfThisFy	_thirdFiscalQuarterOfThisFy
_thisQuarter	_thisFiscalQuarter

The following values have been added:

- \_lastFiscalQuarterToPeriod
- \_lastFiscalYearToPeriod
- \_lastRolling18periods
- \_lastRolling6fiscalQuarters
- \_sameFiscalQuarterOfLastFyToPeriod
- \_thisFiscalQuarterToPeriod
- \_thisFiscalYearToPeriod

The following values are unchanged:

- \_fiscalYearBeforeLast
- \_lastFiscalYear
- \_lastPeriod
- \_periodBeforeLast

- `_samePeriodOfLastFy`
- `_thisFiscalYear`
- `_thisPeriod`

## Status Detail Codes Deprecated

Certain status detail codes are no longer used. That is, regardless of which endpoint you are using, you will no longer encounter these codes.

NetSuite recommends reviewing your integration and removing any error handling that exists for these codes, which are described in the following table.

Code	Notes
MAX_MERGE_LIMIT_EXCEEDED	These errors were related to limits on the number of records that could be processed at one time when using the Duplicate Detection & Merge feature. Previously, only 200 records could be processed at one time. As of Version 2014 Release 2, this limit and these errors have been removed.
MAX_MERGE_RCRDS_EXCEEDED	
CANT_CREATE_USER	These errors were used by an area of the product, now obsolete, that was a precursor to the current ODBC layer. These errors are no longer returned and have not been replaced with newer errors.
DUPLICATE_USER_NAME	
CLASS_NOT_FOUND	This error was previously used by the NetSuite infrastructure but has been removed.

## 2014.2 WSDL Now Generally Available

The 2014.2 WSDL is now generally available and can be viewed at the following URL:

[https://webservices.netsuite.com/wsd/v2014\\_2\\_0/netsuite.wsdl](https://webservices.netsuite.com/wsd/v2014_2_0/netsuite.wsdl).

## Araxis Merge Diff File for the 2014.2 Endpoint

The [Araxis Merge Diff file](#) highlights 2014.1 - 2014.2 schema changes.

### About the Araxis Diff File

NetSuite publishes an Araxis Diff File for every new endpoint. Depending on the scope of the release, changes described in the Araxis Diff File may include:

- New record types
- Elements (fields) that have been added, removed, or changed
- New sublists (lists)
- New joins
- New search filters and search return columns

- New platform operations

## Using the Araxis Diff File

**Important:** The figures in this section are **only** for illustrative purposes. They do not reflect changes related to any specific endpoint.

The SuiteTalk diff file is generated using Araxis Merge. When you click the diff file link (when it is available), a page will appear that offers an overview of all schema changes.

The following illustration shows how this summary page will look. In this example, the rows highlighted in purple indicate that an XSD has been modified. The integers at the center indicate the number of changed lines in the file. To see the exact differences, click the Report link in the column at the right (or click the name of the file, in either column).

<a href="#">activities.scheduling.xsd</a>	3	<a href="#">activities.scheduling.xsd</a>	<a href="#">Report 1</a>
<a href="#">activities.schedulingTypes.xsd</a>	1	<a href="#">activities.schedulingTypes.xsd</a>	<a href="#">Report 2</a>
<a href="#">documents.fileCabinet.xsd</a>	0	<a href="#">documents.fileCabinet.xsd</a>	<a href="#">Report 3</a>
<a href="#">documents.fileCabinetTypes.xsd</a>	2	<a href="#">documents.fileCabinetTypes.xsd</a>	<a href="#">Report 4</a>
<a href="#">general.communication.xsd</a>	3	<a href="#">general.communication.xsd</a>	<a href="#">Report 5</a>
<a href="#">general.communicationTypes.xsd</a>	0	<a href="#">general.communicationTypes.xsd</a>	<a href="#">Report 6</a>
<a href="#">lists.accounting.xsd</a>	32	<a href="#">lists.accounting.xsd</a>	<a href="#">Report 7</a>
<a href="#">lists.accountingTypes.xsd</a>	5	<a href="#">lists.accountingTypes.xsd</a>	<a href="#">Report 8</a>
<a href="#">lists.employees.xsd</a>	0	<a href="#">lists.employees.xsd</a>	<a href="#">Report 9</a>
<a href="#">lists.employeeTypes.xsd</a>	0	<a href="#">lists.employeeTypes.xsd</a>	<a href="#">Report 10</a>
<a href="#">lists.marketing.xsd</a>	0	<a href="#">lists.marketing.xsd</a>	<a href="#">Report 11</a>
<a href="#">lists.marketingTypes.xsd</a>	0	<a href="#">lists.marketingTypes.xsd</a>	<a href="#">Report 12</a>
<a href="#">lists.relationships.xsd</a>	10	<a href="#">lists.relationships.xsd</a>	<a href="#">Report 13</a>
<a href="#">lists.relationshipTypes.xsd</a>	1	<a href="#">lists.relationshipTypes.xsd</a>	<a href="#">Report 14</a>
<a href="#">lists.supplyChain.xsd</a>	0	<a href="#">lists.supplyChain.xsd</a>	<a href="#">Report 15</a>
<a href="#">lists.supplyChainTypes.xsd</a>	0	<a href="#">lists.supplyChainTypes.xsd</a>	<a href="#">Report 16</a>
<a href="#">lists.support.xsd</a>	2	<a href="#">lists.support.xsd</a>	<a href="#">Report 17</a>
<a href="#">lists.supportTypes.xsd</a>	0	<a href="#">lists.supportTypes.xsd</a>	<a href="#">Report 18</a>

When you click any of these links, the diff file shows a page with two columns. The old version of the file is shown at the left, and the new version at the right. Changed elements are highlighted.

For example, the following graphic shows an excerpt from the report on platform.commonTypes.xsd. Note the addition of two values to the PermissionCode enumeration: `_accessPaymentAuditLog` and `_advancedPDFHTMLTemplates`.

500	<!-- PermissionCode/start -->	500	<!-- PermissionCode/start -->
501	<simpleType name="PermissionCode">	501	<simpleType name="PermissionCode">
502	<restriction base="xsd:string">	502	<restriction base="xsd:string">
503	<enumeration value="_accountDetail"/>	503	<enumeration value="_accountDetail"/>
504	<enumeration value="_accountingBook"/>	504	<enumeration value="_accountingBook"/>
505	<enumeration value="_accountingLists"/>	505	<enumeration value="_accountingLists"/>
506	<enumeration value="_accounts"/>	506	<enumeration value="_accounts"/>
507	<enumeration value="_accountsPayable"/>	507	<enumeration value="_accountsPayable"/>
508	<enumeration value="_accountsPayableGraphing"/>	508	<enumeration value="_accountsPayableGraphing"/>
509	<enumeration value="_accountsPayableRegister"/>	509	<enumeration value="_accountsPayableRegister"/>
510	<enumeration value="_accountsReceivable"/>	510	<enumeration value="_accountsReceivable"/>
511	<enumeration value="_accountsReceivableGraphing"/>	511	<enumeration value="_accountsReceivableGraphing"/>
512	<enumeration value="_accountsReceivableRegister"/>	512	<enumeration value="_accountsReceivableRegister"/>
513	<enumeration value="_accountsReceivableUnbilled"/>	513	<enumeration value="_accountsReceivableUnbilled"/>
514	<enumeration value="_adjustInventory"/>	514	<enumeration value="_adjustInventory"/>
515	<enumeration value="_adjustInventoryWorksheet"/>	515	<enumeration value="_adjustInventoryWorksheet"/>
516	<enumeration value="_adminDocs"/>	516	<enumeration value="_adminDocs"/>
517	<enumeration value="_adpImportData"/>	517	<enumeration value="_adpImportData"/>
518	<enumeration value="_adpSetup"/>	518	<enumeration value="_adpSetup"/>
519	<enumeration value="_advancedAnalytics"/>	519	<enumeration value="_advancedAnalytics"/>
520	<enumeration value="_allocationSchedules"/>	520	<enumeration value="_allocationSchedules"/>
521	<enumeration value="_allowNonGLChanges"/>	521	<enumeration value="_allowNonGLChanges"/>
		522	<enumeration value="_accessPaymentAuditLog"/>
		523	<enumeration value="_advancedPDFHTMLTemplates"/>

The diff file also shows changes to data types. The following graphic is a snapshot of transactions.sales.xsd. Note that the chargeType element changed from an enumeration to a RecordRef.

1054	<element name="voiceDelivered" type="xsd:boolean" minOccurs="0"/>	1055	<element name="voiceDelivered" type="xsd:boolean" minOccurs="0"/>
1055	<element name="chargeType" type="platformCommonType:ChargeType" minOccurs="0"/>	1056	<element name="chargeType" type="platformCore:RecordRef" minOccurs="0"/>
1056	<element name="chargesList" type="platformCore:RecordRefList" minOccurs="0"/>	1057	<element name="chargesList" type="platformCore:RecordRefList" minOccurs="0"/>
1057	<element name="customFieldList" type="platformCore:CustomFieldList" minOccurs="0"/>	1058	<element name="customFieldList" type="platformCore:CustomFieldList" minOccurs="0"/>

## 2014.2 SuiteTalk Schema Browser

The 2014.2 version of the [SuiteTalk Schema Browser](#) is now available. You can find links to the Schema Browser in a few places, including the following:

- The reference page for each supported record in the SuiteTalk (Web Services) Records Guide. The *SuiteTalk (Web Services) Records Guide* is available in the NetSuite Help Center and can be downloaded as a PDF from the *User Guides* topic.
- The help topic titled *Working with the SuiteTalk Schema Browser*.

## SuiteApps (Bundles) Released by NetSuite

Version 2014 Release 2 includes the following enhancements to SuiteApps released by NetSuite:

- Resource Allocation Chart Enhancements
- Manufacturing Task Scheduler
- Daily Shipment Detail Report
- Campaign Assistant
- Fixed Assets Management Enhancements
- NetSuite Records Timeline (Beta)
- File Drag and Drop Enhancements
- SuiteSocial Enhancements
- Recurring Billing Enhancements
- France Standard Audit File for Tax Purposes (SAF-T)
- Statutory Chart of Accounts
- Online Filing of Withholding Tax Reports for Philippines
- Multi-Book Accounting for International Tax Reports
- Electronic Payments Enhancements

- Requisition Approval Workflow
- 3 Way Match Vendor Bill Approval
- Dunning
- Script Queue Monitor (Beta)
- Country-Specific Address Forms

## Resource Allocation Chart Enhancements

With Version 2014 Release 2 several updates are available to the Resource Allocation Chart. Generic resources now appear in the resource allocation chart. When you allocate a generic resource as a placeholder to a project template, that allocation appears in the chart as an allocated resource.

**Note:** You cannot create or edit generic resources assigned to project templates from the Resource Allocation Chart.

You can now print and export the Resource Allocation Chart, permitting the information to be shared as a report of upcoming commitments and allocations. Exporting is available to Excel, PDF, and CSV. To print the chart, click the printer icon at the top of the chart to open your browser printing dialog. To export the chart, click the icon at the top of the chart that corresponds to how you want the information exported.

The Resource Allocation Chart has also been updated with the new look and feel introduced for NetSuite in Release 2014 Version 2.

## Manufacturing Task Scheduler

The Manufacturing Task Scheduler is a new feature added to the Supply Chain Management SuiteApp. It helps improve manufacturing operations by providing a graphical view of tasks per work center. On the chart, each task is displayed along with its current color-coded status. You can view the details of a task, which include the start and end date, work order status, and estimated hours.

With its drag and drop feature, you can adjust the start date and transfer a task from one work center to another. Any change you make prompts the system to automatically recalculate the dates and move any affected tasks. You can also change the chart view from hourly to daily, weekly, or monthly view. Select a specific date range, week, or month to display all tasks assigned within the period covered. Use these features to facilitate your operation planning and scheduling tasks.

To access and use the task scheduler you must enable the following Inventory features:



- Manufacturing Work in Process
- Manufacturing Routing and Work Center

For more information, see the help topic *Manufacturing Task Scheduler*.

## Daily Shipment Detail Report

The Daily Shipment Detail Report is the latest report added to the Supply Chain Management SuiteApp. It provides a list of all items released from the warehouse on a daily basis. It helps you keep track of these items by showing both pickup and shipment details on the generated report.

This report provides daily information on new shipments per status. If multiple shippers is used to process shipments, the shipment information is grouped by Shipping Method, and the report information for each Shipping Method starts on a new page.

To access and use the Daily Shipment Detail Report, users are required to enable the Transactions feature, Advanced Shipping. For more information, see the help topic *Supply Chain Management*.

## Campaign Assistant

The Campaign Assistant guides you through each step in creating marketing email campaigns in NetSuite. Email campaigns require several key steps such as setting up an email template, creating a target market group, and scheduling the date and time the campaign should be transmitted. Campaign Assistant ensures that you have set up the information necessary for your campaign.

For more information, see the help topic *Creating Email Campaigns Using Campaign Assistant*.

## Fixed Assets Management Enhancements

- [Multi-Book Accounting in Fixed Assets Management](#)
- [Improved Depreciation Performance](#)
- [Transfer Multiple Assets Using CSV Import](#)

### Multi-Book Accounting in Fixed Assets Management

The Multi-Book Accounting add-on to the Fixed Assets Management SuiteApp provides the following features:

- **Parallel Currencies** - The Multi-Book Accounting feature lets you use parallel currencies to maintain general ledger accounts in different currencies. Parallel currencies can be used for subsidiaries in different countries to update the foreign business transactions in

different foreign currencies. Each book in a specified subsidiary will have its own specific base currency.

- **Record Assets in Multiple Books** - Multi-Book Accounting lets you assign an asset to multiple depreciation books that generate journal entries for different general ledger set of books or to the same set of books. Multi-Book Accounting can support up to five books in one account: one Primary Book and four Secondary Books. Each book can have an unlimited number of depreciation methods per asset record.

For more information, see the help topic *Multi-Book Accounting in Fixed Assets Management*.

## Improved Depreciation Performance

To optimize the depreciation run, a new preference to **Bypass Custom Record UE Scripts During Depreciation** is introduced in the FAM — System Setup page. When enabled, custom user event scripts and workflows on FAM custom records will not be triggered.

Users that do not follow calendar months for their accounting period, can enable the **Use Accounting Period Dates for Depreciation** preference to set the depreciation journal entries to follow the end of the accounting period.

## Transfer Multiple Assets Using CSV Import

A CSV Import functionality is introduced in the Asset Transfer page to process transfers of multiple assets to another Subsidiary, Department, Class, Location, or Asset Type.

For more information on transferring multiple assets, see the help topic *Asset Transfer*.

## NetSuite Records Timeline (Beta)

NetSuite Records Timeline (formerly Transaction Timeline) introduces the following enhancements in the latest release:

- **Support for additional record types** – Support for a wider range of record types offers you more flexibility to customize your timeline definition however you want. You can now use custom records and other standard records to create a timeline that is relevant to you.
- **Timeline Setup Assistant** – Timeline configuration and setup pages have been consolidated into a setup assistant, making it less cumbersome for administrators to set up timelines and modify settings without having to navigate to different pages in NetSuite.
- **Multiple timeline** – You can now configure multiple timeline definitions and assign priorities to each timeline to determine which one is displayed by default. You can quickly switch between timeline views from the timeline bar.
- **Timeline threshold** – You can define limits for each timeline type to stabilize its performance. Set a Maximum Processing Time to prevent the timeline bar from loading

indefinitely. Specify an End Point to speed up the timeline loading time by eliminating unnecessary background processes.

## File Drag and Drop Enhancements

The latest release of File Drag and Drop includes the following enhancements:

- Drag and drop files to File Cabinet – The SuiteApp comes with a dedicated File Cabinet page that features a Dropzone where you can drop the files you want to upload to the File Cabinet.
- Drag and drop files to new record pages and to line items – You can now attach files to line items and to a record page that you are creating. While the record page is not yet saved, files attached to it will be stored in a temporary folder.
- Specify default destination folders using folder patterns – Folder patterns give you better flexibility in defining save locations for files you upload in NetSuite. You can customize a folder pattern so that it automatically accounts for the end user's Subsidiary, Department, or Role.
- Setup File Drag and Drop using the admin setup assistant — The admin setup assistant helps simplify the setup process for administrators by consolidating relevant configuration pages in one place.
- Various performance improvements — Increased upload size limit allows users to upload files of up to 10 MB in size. Loading record pages is noticeably faster compared to previous versions of the SuiteApp.

For more information, see the help topics *Adding Files to Records Using File Drag and Drop* and *Adding Files to the File Cabinet Using File Drag and Drop*.

## SuiteSocial Enhancements

The latest release of SuiteSocial includes the following significant performance improvements to the SuiteSocial news feed:

- Loading posts and scrolling through the news feed is now faster compared to previous versions because several pages in the news feed have been preloaded.
- News feed posts and comments are published more quickly.
- The SuiteSocial news feed can now be accessed by clicking the SuiteSocial menu tab.

**Note:** This requires additional administrator configuration. For more information, see the help topic *Linking the News Feed to the SuiteSocial Menu Tab*.

For more information, see the help topic *SuiteSocial*.

## Recurring Billing Enhancements

NetSuite Version 2014 Release 2 includes the following enhancements to the Recurring Billing SuiteApp:

**Important:** Recurring Billing version 14.2 features are targeted to be available in the third quarter of 2014.

- Recurring Billing Integration
- Support for Standard Sales Order
- Custom Term
- Support for Inventory Items
- Support for Product Lines
- Subscription Plan and Rate Plan Management Enhancements
- Subscription Change Order Enhancements

### Recurring Billing Integration

**Important:** This feature is available only in beta version.

Recurring Billing Integration provides an API-based architecture that you can use to build integrations and extensions to the Recurring Billing SuiteApp.

The SuiteApp includes a script file that you can use to set up Recurring Billing Integration. You can use this script file to create a RESTlet or you can attach it as a library file to a script record (for script types other than a RESTlet).

Recurring Billing Integration enables you to do the following:

- General Discovery – retrieves available items, subscription plan details, rate plan details, subscription details, or customer transactions
- Subscription Creation – creates a rate plan, subscription plan, usage data record, or subscription from a sales order
- Subscription Management – updates subscriptions using the change order mechanism, evaluates the revenue impact if a specified change order is to be executed for a specific subscription, or cancels a pending change order

### Support for Standard Sales Order

Recurring Billing version 14.2 supports the use of the standard sales order form in creating subscriptions.

This feature enables you to use the standard sales order form to create a subscription and sell other items on the same sales order. The Recurring Billing feature is available through a popup

configurator. When you add a line item on a sales order, check the box in the Configure column to specify values for the subscription and line item fields on the Configurator Suitelet.

In previous versions, a custom subscription sales order form is used when creating subscriptions. You can still use the custom Subscription Billing – Sales Order form but it will no longer support the features and enhancements that are released in Recurring Billing version 14.2 and later versions.

For more information, see the help topic *Entering a Subscription Sales Order*.

### Custom Term

Recurring Billing version 14.2 supports custom term. This feature enables you to specify a subscription item end date in the standard sales order form through the Configurator Suitelet.

The default value of the End Date field in the Configurator Suitelet is based on the specified start date and on the subscription plan's term. You can change this value to any date if it satisfies the following conditions:

- End date is not less than one rating period from the start date
- End date is not more than 120 months from the start date

The Term field takes the value of the selected subscription plan's term by default. The value of this field automatically changes when you modify the end date.

**Note:** In Recurring Billing version 14.2, custom term is not yet supported in the Add Subscription Item change order. Support for this capability will be added in a later version.

For more information, see the help topic *Entering a Subscription Sales Order*.

### Support for Inventory Items

Recurring Billing version 14.2 supports subscriptions on inventory items. This feature enables you to add an inventory item as a lead item in a subscription plan.

You must enable the Inventory feature to use inventory items in subscriptions. Lot numbered and serialized inventory items are not supported.

For more information, see the help topic *Setting Up Subscription Items*.

### Support for Product Lines

Recurring Billing version 14.2 includes product line support. This feature enables you to do the following:

- Create product line records
- In the item record, specify to which product line an item belongs

- Associate subscription plans to a specific product line and choose which subscription plan items belongs to that product line

When you create a subscription sales order and select a line item, the Subscription Plan field shows subscription plans where the line item is the lead item and subscription plans with the same product line as the line item.

**Note:** In Recurring Billing version 14.2, product line is not yet supported in the Add Subscription Item change order. Support for this capability will be added in a later version.

For more information, see the help topic *Setting Up Product Lines*.

## Subscription Plan and Rate Plan Management Enhancements

The following enhancements to subscription plans and rate plans are supported in Recurring Billing version 14.2:

- **Editing unused rate plans** – This enhancement enables you to edit rate plans that are not used by a subscription plan. The Supervisor Approval box is also added to the rate plan form. Checking this box enables you to skip the rate plan approval process.

For more information, see the help topic *Editing a Rate Plan*.

- **Editing unused subscription plans** – This enhancement enables you to edit subscription plans that are not used in a transaction, subscription, or plan migration. The Supervisor Approval box is also added to the subscription plan form. Checking this box enables you to skip the subscription plan approval process.

For more information, see the help topic *Editing a Subscription Plan*.

- **Merged price and rate plans** – This enhancement combines and simplifies the pricing mechanism of Tiered Pricing and Volume Pricing rating models. In previous versions, there are five rating models available in a rate plan. Recurring Billing version 14.2 combines the rate and price plans for Tiered Pricing and Volume Pricing rating models, consolidating the options into three: Flat Rate Pricing, Tiered Pricing, and Volume Pricing. This enhancement also enables you to define a minimum price and maximum price for each tier.

For more information, see the help topic *Creating a Rate Plan*.

## Subscription Change Order Enhancements

The following enhancements to subscription change order are supported in Recurring Billing version 14.2:

- **Extending subscription item end date** – This change order action enables you to specify a new subscription item end date. The new end date must be later than the original end date.

This change order action is effective immediately and is applicable only to non-perpetual items with a status of Pending, Open, or Suspended.

For more information, see the help topic *Extending the End Date of a Subscription Item*.

- **Modifying the start date for anniversary subscriptions** – This enhancement extends the modify subscription start date change order capability to support anniversary subscriptions. In previous versions, this change order action is only supported in fixed date subscriptions.

For more information, see the help topic *Modifying the Start Date of a Subscription*.

## France Standard Audit File for Tax Purposes (SAF-T)

In France, tax paying companies using a computerized accounting system are mandated to remit their accounts to the tax auditors by submitting a Standard Audit File for Tax Purposes (SAF-T). The tax audit file must be in flat file format and must include chart of account names and numbers in the formats that comply with the French GAAP.

Using the NetSuite Tax Audit Files SuiteApp, you can generate a France SAF-T report that complies with the requirements of the French tax authority.

This feature is available to NetSuite accounts with the France nexus. For more information, see [France Standard Audit File for Tax Purposes \(SAF-T\)](#).

## Statutory Chart of Accounts

Some countries require companies to submit a tax audit file that includes chart of account names and number in the formats that comply with statutory requirements.

Use the Statutory Chart of Accounts if your standard Chart of Accounts does not comply with regulatory requirements. For example, if the standard chart of accounts is shared with other subsidiaries, or if the parent company requires a subsidiary to use account names and numbers that are not in the formats required for statutory compliance in the subsidiary's country.

The Statutory Chart of Accounts is included in the Tax Audit Files SuiteApp. You can set up or update the statutory chart of accounts using CSV import or by going to Setup > Accounting > Statutory Chart of Accounts.

This feature is available only for France and Portugal Standard Audit File for Tax Purposes (SAF-T). For more information, see [Statutory Chart of Accounts](#).

## Online Filing of Withholding Tax Reports for Philippines

The Philippine tax agency, Bureau of Internal Revenue, requires the electronic submission of the alphabetical list of payees of income payments as attachments to tax returns filed online.

Using the Withholding Tax SuiteApp, you can generate the Monthly Alphalist of Payees (MAP) and Summary Alphalist of Withholding Taxes (SAWT) reports in DAT format as prescribed by the BIR.

For more information, see the help topic *Withholding Tax Reports - Philippines*.

## Multi-Book Accounting for International Tax Reports

If you have the International Tax Reports SuiteApp and the Multi-Book Accounting feature is enabled in your account, you can generate localized VAT/GST reports in secondary accounting books.

This feature is currently available for only country VAT/GST reports with electronic filing capability, namely:

- Austria
- Belgium
- Czech Republic
- Denmark
- Germany
- Ireland
- Philippines
- United Kingdom

On the Tax Reports (International) page, you can select which accounting book will be used in generating the report. The Accounting Book field shows all active accounting books associated with the selected subsidiary.

For more information, see the help topic *Multi-Book Accounting for International Tax Reports*.

## Electronic Payments Enhancements

- Ability to Display Entity Names in Transaction Lists for Electronic Payments
- Ability to Add Field Validations to Custom Payment File Templates
- Ability to Assign Multiple Deployments for Payment Batch Processing and Run them in Parallel Queues
- Payment File Templates in FreeMarker Syntax to Replace XML
- Electronic Payments API



- Support for Bill Credit/Credit Memo
- Support for Term or Early Settlement Discounts

## Ability to Display Entity Names in Transaction Lists for Electronic Payments

Previously, when processing electronic payments, transaction lists display only the entity ID associated with each transaction. Now, if you want to see the company name in addition to the entity ID, check the Include Name in Transaction List box on the Electronic Payments Preference page. Enabling this option displays the Name column in transaction lists for bills and expenses, customer refunds, customer payments, and Positive Pay check transactions.

## Ability to Add Field Validations to Custom Payment File Templates

This feature enables you to add common field validations to your custom payment file templates. The following validations are supported:

- **modulo97** – Validates the check digit in IBAN and account numbers.
- **modulo11check1** – Validates the account number. Also commonly called the Modulus 11 Self-Check.
- **iban** – Validates the International Bank Account Number (IBAN) using Modulus 97 and ISO validations.
- **bic** – Validates the SWIFT code, a standard format for Business Identifier Codes (BIC) used to identify banks.
- **routingNumber** – Validates the routing number used to identify banks for processing wire transfers and ACH transfers.
- **bban** – Validates the Base Bank Account Number (BBAN), a national bank account number typically used for domestic payments. Currently, only the bban validation for the HU country code is supported by NetSuite Electronic Payments.
- **validContent** – Validates the values entered by the user in text fields.

For more information, see the help topic *Adding Field Validations to Custom Payment File Templates*.

## Ability to Assign Multiple Deployments for Payment Batch Processing and Run them in Parallel Queues

This enhancement enables multiple on demand deployments of the payment batch processing script to run concurrently. This enables batches for multiple bank accounts and subsidiaries to be created at one time.

Go to Customization > Scripting > Scripts (Administrator) and create multiple script deployments for the new script named On Demand Batch Processing. After creating the deployments, go to Payments > Setup > Electronic Payments Preferences to set up multiple queues. On the Queue Management subtab, enter the script deployment ID for On Demand Batch Processing in the new column named Batch Processing Deployment.

For more information, see the following help topics:

- *Defining a New Deployment for the Electronic Payments Processing Scripts*
- *Setting Up Multiple Queues for Payment Processing in the Electronic Payments Preferences*

## Payment File Templates in FreeMarker Syntax to Replace XML

This feature enhances the templates used to generate payment files from the current XML format to a format that uses FreeMarker syntax. The enhanced template format using FreeMarker syntax provides greater flexibility and increased capability. You can extract values from NetSuite records and search results, and modify the fields to be included in payment files. The update also includes a FreeMarker template library that you can use to call built-in functions and data.

The Advanced PDF/HTML Templates feature must be enabled in your account to continue to use standard payment file templates, create new custom payment file templates, create payment files, and submit payment batches.

For more information, see the following help topics:

- *Creating a New Custom Payment File Template*
- *Changing an Existing XML Payment File Template to an Advanced Template*
- *Working with Advanced Templates*

Knowledge of FreeMarker is required. To learn about FreeMarker, visit the [FreeMarker.org](http://FreeMarker.org) website.

**Important:** Support for the XML payment file format will be discontinued in April 2015, and you will no longer be able to generate payment files using your custom XML templates. If you need assistance in transitioning your XML templates to the new FreeMarker templates, contact Customer Support or your account manager.

## Electronic Payments API

With NetSuite Version 2014 Release 2, you can now modify the Electronic Payments Suitelet to accommodate your specific transaction needs and requirements. The exposed methods via the

Electronic Payments API feature enable you to create a custom Bill Payment Processing page. Use the methods to do the following:

- Remove certain fields
- Add columns to a list
- Add custom filters and remove standard filters
- Add field groups to new filters

Write the script for your custom Bill Payment Processing page and load the file by going to Customization > Scripting > Scripts > New. This enables you to create a script record for the file and define the deployment settings. You can also choose the pages on which to add a link to the suitelet.

For more information, see the help topic *Electronic Payments API*.

### **Support for Bill Credit/Credit Memo**

You can now choose to apply vendor credits or credit memos to open bills or outstanding invoices when submitting a payment batch. The selected credits are automatically processed to ensure that they are already deducted from the payment amount. The generated payment file will specify payments net of any applied credits.

For more information, see the help topic *Processing Bills and Expenses*.

### **Support for Term or Early Settlement Discounts**

To support the effort of suppliers who offer early payment incentives, the NetSuite Electronic Payments SuiteApp is enhanced with the ability to process early settlement and term discounts. This feature enables you to do the following:

- Pay bills early at a discounted price.
- Receive payments net of term discount.

The SuiteApp checks the discount date on the bill or invoice to determine if the discount can be applied. Payments made and received within the discount date are automatically adjusted to reflect the discounted amount. The generated payment file and record will show only the amount net of discount taken.

For more information, see the help topic *Processing Bills and Expenses*.

### **Requisition Approval Workflow**

The ability to customize the approval routing of a purchase requisition is provided in NetSuite Version 2014 Release 2, through the Advanced Procurement Approvals SuiteApp. You can

designate the initial and succeeding approvers of a pending requisition request. Approvers are notified via email if a request has been submitted to them for review and action.

After a requisition request is submitted, it is routed up the chain hierarchically. The status of the request is also automatically updated, depending on the action of the approver. You may designate an alternate approver to accommodate the absence or unavailability of the regular approver. This promotes a seamless approval process and an easy way of tracking the status of each request.

For more information, see the help topic *Requisition Approval Workflow*.

### 3 Way Match Vendor Bill Approval

The 3-Way Match Vendor Bill Approval feature is included in the NetSuite Approvals Workflow SuiteApp. It matches the vendor bill details to its corresponding purchase order and item receipt. If any discrepancies are identified, the bill is submitted to a designated supervisor for approval. Otherwise, the vendor bill is automatically approved.

This new feature checks for any discrepancies or missing items based on the details below.

Between the Purchase Order and Vendor Bill:

- Difference in Terms and Location
- Discrepancy in Quantity
- Tolerance in Quantity and Amount

Between Item Receipt and Vendor Bill:

- Corresponding Item Receipt for a Vendor Bill
- Discrepancy in Quantity
- Tolerance in Quantity and Amount

Discrepancies on these details are noted on the bill, which can be reviewed by the approver. After the bill is approved, it can be processed for payment. Accounts payable departments can now release payments more accurately and also reconcile their balances more quickly on a regular basis, rather than wait until the end of the month to investigate differences between records.

For more information, see the help topic *3 Way Match Vendor Bill Approval Workflow*.

### Dunning

The Dunning Letters SuiteApp enables you to set up an automated dunning process to help manage the collection of your accounts receivable.

Dunning is a systematic method of tracking overdue invoices and persistently sending letters to customers to demand payment. With this feature, you can also send reminder letters before payment is due.

You can create dunning procedures and assign them to customers or invoices. Dunning procedures define the escalation points or dunning levels, and the time that must elapse before a dunning letter is sent to a customer. Dunning levels define the thresholds for overdue amounts and days overdue, as well as the letter templates to use for each level. You can upload dunning letter templates in different languages.

Dunning procedures can be assigned to a single customer or invoice record or to multiple records at one time. A dunning procedure can also be defined as available for automatic assignment so that when a new customer or invoice record is created, the system can automatically assign it a dunning procedure. You can define selection criteria to filter the customers and invoices to which a dunning procedure can be assigned.

The Dunning feature comes with predefined dunning evaluation workflows that you can set up to run on a schedule. When the system runs the dunning evaluation workflow, it determines which customers and invoices need to be dunned, and automatically sends dunning letters by email.

Dunning managers can keep track of the current dunning status of all accounts by using the Dunning Dashboard. You can also use the Dunning Queue Suitelets to manage letters that need to be printed or to manually email letters to a particular customer.

The Dunning feature also enables you to perform manual controls. You can pause dunning while you address a customer's queries regarding an invoice, or permit additional time for payment to be received before sending another letter. You can resume dunning to enable the system to run the dunning evaluation workflow. All automated and manual actions concerning the dunning process are tracked in the system notes.

**Note:** Dunning letters sent by email do not affect your company's contracted email volume.

For more information, see the help topic *Dunning*.

To purchase the Dunning Letters SuiteApp, contact your account representative.

## Script Queue Monitor (Beta)

The Script Queue Monitor SuiteApp is intended for use in accounts with one or more SuiteCloud Plus licenses. SuiteCloud Plus permits larger accounts to divide their scheduled script work so that scripts can be processed more efficiently. Generally, companies that run NetSuite are provided a single queue for running their scheduled scripts. Companies can upgrade their number of scheduled script queues from one to five with the purchase of a

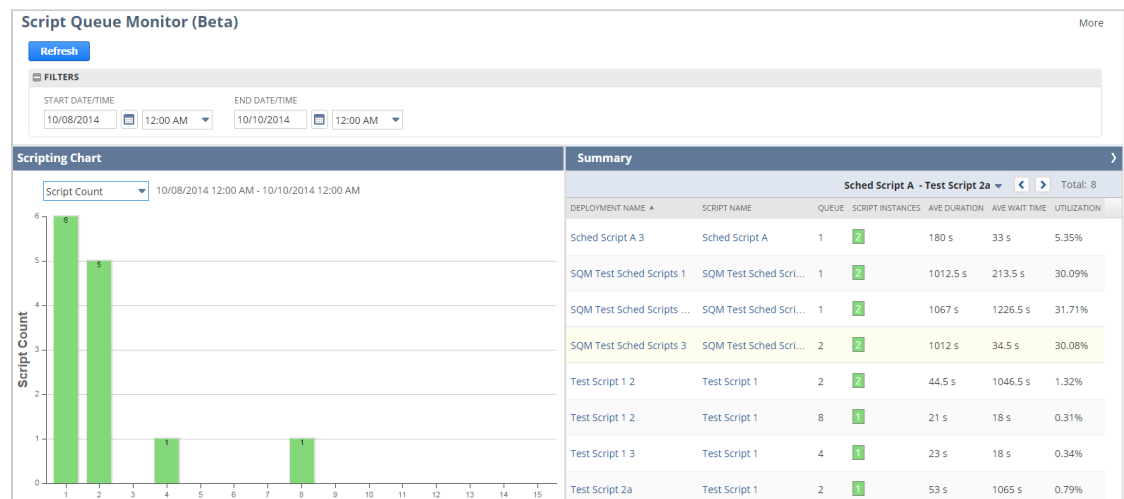
SuiteCloud Plus license. The purchase of two SuiteCloud Plus licenses provides 10 queues and the purchase of three licenses provides 15 queues.

This SuiteApp provides charts and a summary of status information for scheduled script instances running on multiple queues. Account administrators can use the visualizations provided by the Script Queue Monitor to review and manage script queue usage. This information can inform the retargeting of scheduled script deployments to different queues, in order to maximize the benefit obtained from SuiteCloud Plus.

**Note:** The Script Queue Monitor is currently considered a beta feature.

The Script Queue Monitor currently is not supported if you are running NetSuite in Internet Explorer 11.

After this SuiteApp has been installed, the Script Queue Monitor is available at Customization > Script Performance > Script Queue Monitor. The UI for this SuiteApp includes two panes: on the left, a [Scripting Chart](#) pane that illustrates script instances for each queue, and on the right, a [Summary Status Information](#) pane that lists relevant information about each script instance. In a Filters section at the top, you can select the time period for scripts to be included in the chart and list. Note that you can collapse and expand the Filters section as needed by clicking on its header bar. In the Scripting Chart pane, you can select the type of chart to display. You click the **Refresh** button to implement these selections in the Script Queue Monitor display.



## Summary Status Information

The grid in the right pane of the Script Queue Monitor includes the following details, aggregated by the combination of deployment name, script name, and queue number:

- Instances of that script deployment, on that queue, for the selected time period

The color of a value in the Script Instances column indicates status, as shown in a key available from a hover over this value.

- Average duration, in seconds, of script execution time
- Average wait time, in seconds, before script execution
- Queue utilization percentage — the percentage of the total duration for all scripts running on that particular date and time

Summary						
Sched Script A - Test Script 2a						
DEPLOYMENT NAME	SCRIPT NAME	QUEUE	SCRIPT INSTANCES	AVE DURATION	AVE WAIT TIME	UTILIZATION
Sched Script A 3	Sched Script A	1	2	180 s	33 s	5.35%
SQM Test Sched Scripts 1	SQM Test Sched Scri...	1	2	1012.5 s	213.5 s	30.09%
SQM Test Sched Scripts ...	SQM Test Sched Scri...	1	2	7 s	1226.5 s	31.71%
SQM Test Sched Scripts 3	SQM Test Sched Scri...	2	2	2 s	34.5 s	30.08%
Test Script 1 2	Test Script 1	2	2	s	1046.5 s	1.32%
Test Script 1 2	Test Script 1	8	1	21 s	18 s	0.31%
Test Script 1 3	Test Script 1	4	1	23 s	18 s	0.34%
Test Script 2a	Test Script 1	2	1	53 s	1065 s	0.79%

Scheduled Script Status

Complete

Processing

Pending

Retry

Failed

Total

You can click on a column header to sort the summary by that column's values. Click two times to switch the sort from ascending to descending. Summary results are paginated for usability. Use the < and > buttons, or the dropdown arrow, to shift to a different page.

Summary						
Sched Script A - Test Script 2a						

The Summary grid includes links you can click to drill down into more details:

- Click a link in the Deployment Name column to see the script deployment record.
- Click a link in the Script Name column to see the script record.

- Click on a value in the Script Instances column to display a popup window listing details about each script instance:

Scheduled Script Instance

QUEUE

1

DEPLOYMENT NAME

SQM Test Sched Scripts 1

SCRIPT NAME

SQM Test Sched Scripts

10/8/2014 11:19 - 10/9/2014 12:03

Total: 2

DATE CREATED ▲	START	END	STATUS	% COMPLETE	DURATION	WAIT TIME
10/8/2014 11:19 ...	10/8/2014 11:23 ...	10/8/2014 11:39 ...	Compl...	100%	1010 s	191 s
10/9/2014 12:03 ...	10/9/2014 12:07 ...	10/9/2014 12:23 ...	Compl...	100%	1015 s	236 s

Click a link in the Deployment Name column to see the script deployment record.

Click a link in the Script Name column to see the script record.

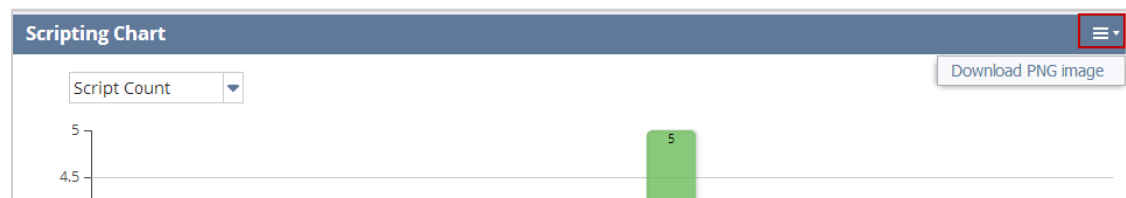
Click on a value in the Script Instances column to display a popup window listing details about each script instance:

## Scripting Chart

The Script Queue Monitor supports three types of charts:

- Script Count Chart
- Utilization Chart
- Timeline Chart

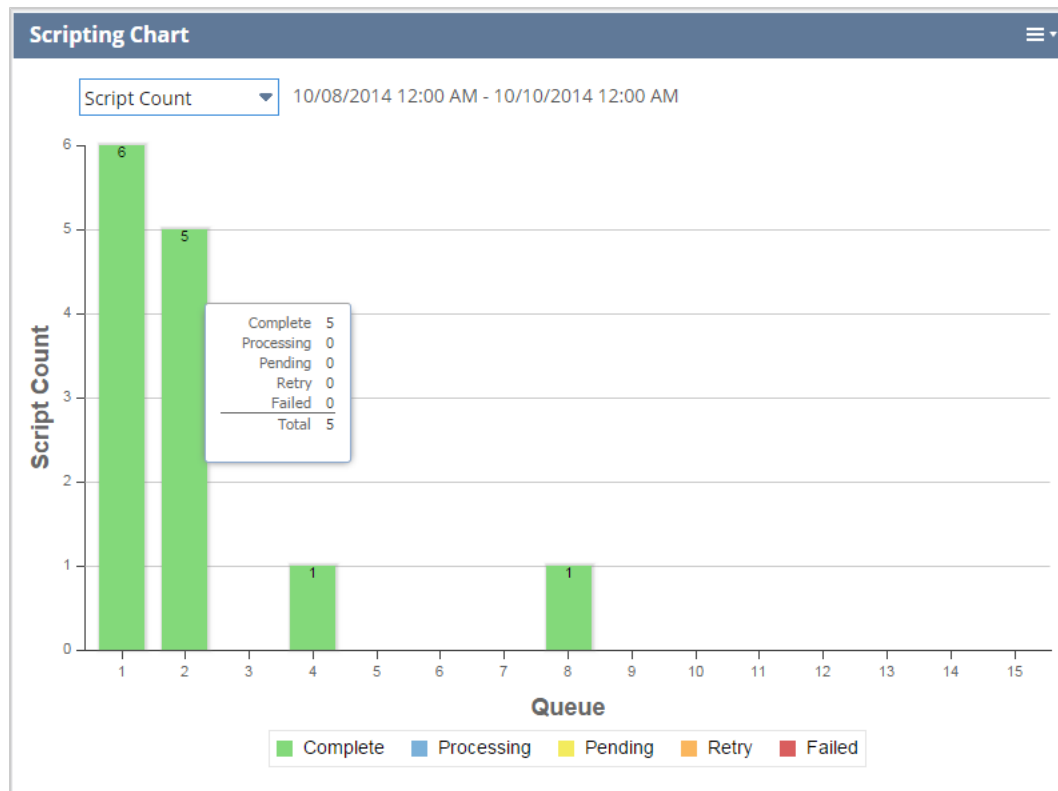
Note that you can click the button available in the chart pane to download the currently displayed chart as a file named chart(<#>).png. (The # variable starts at 1 and is increased each time a chart is downloaded to avoid overwriting previously downloaded charts.)



### Script Count Chart

The Script Count chart displays vertical bars representing the number of scripts running on each queue during the selected time period. A hover over the bar for a queue displays a popup listing the number of scripts for each script status.

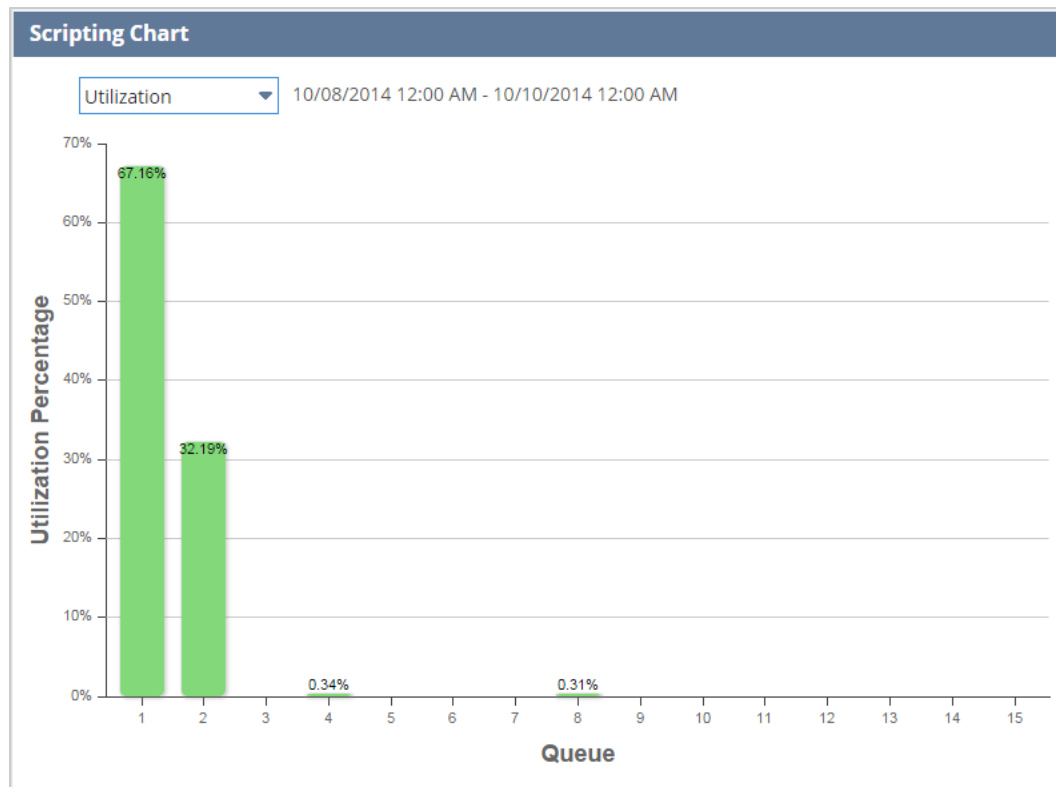




For each chart, bar color indicates script status, as explained by a legend at the bottom of the pane. You can click on a color in the legend to remove scripts with that status from the chart, and click on the color again to add scripts of that status back in.

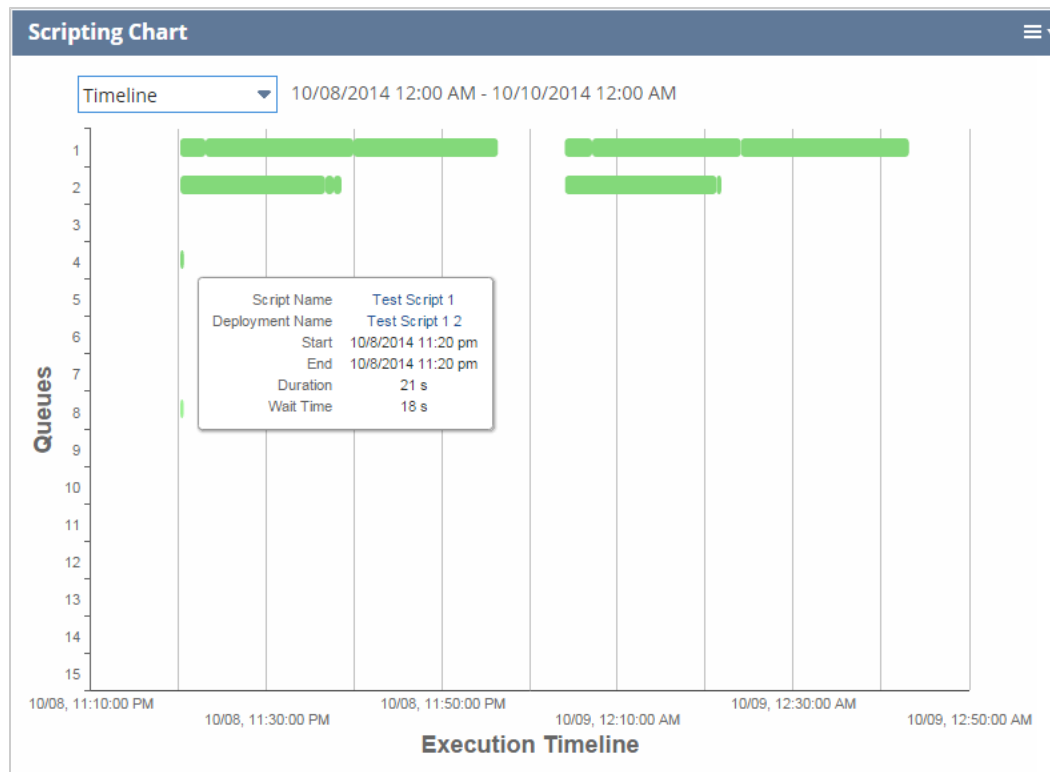
### Utilization Chart

The Utilization chart displays vertical bars representing the percentage of capacity used for each queue during the selected time period. A hover over the bar for a queue displays a popup listing this percentage, the count of scripts run in the queue, and the total runtime of these scripts in seconds.



## Timeline Chart

The Timeline chart displays horizontal bars representing the times during which scheduled scripts were running on each queue during the selected time period. A hover over the bar for a script displays a popup listing this script name, deployment name, start and end times, and total runtime in seconds.



You can grab and highlight a vertical slice of the timeline to zoom in and get a better view of script executions during the highlighted time period. To return to the higher level view, click the Reset Zoom button that is available in the lower right corner of the chart after a zoom.

**Important:** The timeline chart cannot display a time period longer than 3 days. If the selected date range is longer, the timeline chart includes only the first 3 days.

## Country-Specific Address Forms

Address forms formatted for certain countries are provided by the Country-Specific Address Forms SuiteApp. When you use a country-specific address form, the system applies the address template to both the user interface and printed forms. Currently, the SuiteApp provides address forms for Australia, Canada, New Zealand, United Kingdom, and USA. When you view or edit addresses on records, the custom address form assigned to the selected country is displayed in the popup address window. The country-specific address forms apply to entities, transactions, locations, and workplaces.

When you first install the Country-Specific Address Forms SuiteApp, you must assign each form to the appropriate country so that the system can get the correct address template. Whenever the SuiteApp is updated, all country-specific custom address forms revert to the

default address template. You must reassign your custom forms to their respective countries when an update occurs.

For more information, see the help topic *Country-Specific Address Forms*.