

NetSuite 2018.1 Release Notes

Revision Date: September 12, 2018
PDF File Version: v31



Important: This document summarizes the changes to NetSuite between 2018.1 and the previous release.

These release notes are subject to change every week.

Ensure you review the release notes section of the [Help Center Weekly Updates](#) for a list of the changes made in this build of the release notes.

The 2018.1 enhancements and changes listed in this document are not available to customers until they are upgraded to NetSuite 2018.1. Please check the version number at the bottom of your Home page if you are unsure which NetSuite version you are using. The features and SuiteApps described here may not be available in your NetSuite. Your access to these features and SuiteApps is subject to the terms of service in your NetSuite contract. Some features may require extra purchase.

Click links below for details about product changes:

NetSuite

NetSuite · Accounting

- [Enhanced Setup of GL Audit Numbering Sequences](#)
- [Enhanced Foreign Currency Variance Posting Rules](#)
- [Print Multiple Journal Entries Using Advanced PDF/HTML Templates](#)
- [Deferred Expense Waterfall Report](#)
- [Usability Enhancements for Advanced Revenue Management](#)
- [Custom GL Lines Plug-in Enhancements](#)
- [Add an Existing Subsidiary with Transactions to an Existing Active Accounting Book](#)
- [Group Entities in a Statistical Schedule Saved Search](#)
- [Change in Logic for Determining Whether Foreign-Currency-Denominated Invoices Are Paid in Full](#)
- [SuiteApprovals V2.0](#)
- [Fixed Assets Management Enhancements](#)
- [Financial Reports for China](#)
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- [China-Specific Fields to Support China VAT on Transactions](#)
- [Ability to Use VAT Transactions with the China Golden Tax System](#)
- [Enhancements to Japan Localization SuiteApp](#)
- [Enhancements to Japan Payment Terms and Date Validations](#)
- [New Japan Financial Statements SuiteApp](#)

NetSuite · Administration

- [Sandbox Changes in North America](#)
- [Zero Downtime When Refreshing Sandbox Accounts on the NetSuite Domain](#)
- [Release Preview Changes in North America](#)
- [Changes to Development Account Upgrades](#)
- [May 2018 Deprecation of TLS 1.0 and TSL 1.1 for NetSuite Production Accounts](#)
- [Administration Help Videos](#)
- [Two-Factor Authentication \(2FA\) Required for Administrator Role](#)
- [SAML Single Sign-on \(SSO\) Improvements](#)
- [Changes to the Role Page](#)
- [REST Roles Service Enhancement](#)

Changes to Email Preferences Domain Keys Subtab
 Help with Permission Violation Errors: Change Role Option
 Employee Restrictions Supported on Employee Permissions
 Employee Access Subtab Added to Custom Entity Field Configuration
 Application Performance Management (APM) Enhancements

NetSuite · Banking

Changes to Bank Statement Imports
 Delete Reconciled Statements
 Change to Account Reconciliation Fields and Buttons
 New Account Reconciliation Portlet
 Improvements to Intelligent Transaction Matching
 Include Accounts for Custom Transaction Matching Rules
 Deposit Record Now Supports SuiteScript 2.0

NetSuite · Customer Relationship Management (CRM)

Customer Record Shared with Multiple Subsidiaries

NetSuite · Employee Management

Executing Scripted Employee Searches from the Employee Center
 Help Center Enhancements
 News Items and the Company News Portlet
 Employee Center Dashboard Publishing Feature
 Employee Self-Service for Direct Deposit Banking Information
 Weekly Timesheet User Interface
 Copy Service Item Memo Preference
 Time Exception Report Enhancements
 Expense Item Record Customization
 Advanced Employee Permissions Enhancements
 Workforce Analytics Enhancements
 SuitePeople Effective Dating Enhancements
 Employee Directory & Org Browser Enhancements
 Onboarding Checklist SuiteApp

NetSuite · Inventory Management

Inventory Status
 Supply Chain Control Tower
 Cross-Subsidiary Fulfillment
 Support for Duplicate Bin Names Across Locations
 NetSuite WMS Enhancements
 Quality Management
 Supply Chain Management Enhancements

NetSuite · Manufacturing

Linking Routings to Legacy BOMs
 Copying Manufacturing Routing Records
 Updating BOM Revision Record Dates
 Linking Assemblies to BOM Records
 Customizing BOM Revision Component Sublists
 Web Services Enhancements
 Subsidiary Currency
 Advanced Manufacturing

NetSuite · Mobile

Mobile Access to NetSuite Sandbox
Time Entry Approvals

NetSuite · Order Management

Billing Schedule Frequency
SuiteBilling End Date Alignment
SuiteBilling Time-Based Pricing
Business Events Processing Saved Search
Customizable Fulfillment Exception Reasons
SuitePromotions Automatically Add Free Gift
Landed Cost Added to Inbound Shipment Management
Billing Operations Enhancements
Disabling the Pick, Pack, and Ship Feature
Electronic Invoicing Enhancements
Multi-Language Support for Electronic Bank Payments
Deprecation of XML-based Payment Template Generator
Recurring Billing Enhancements
Grid Order Management Enhancements

NetSuite · Projects

Advanced Project Profitability
Delete Last Version of Billing Rate Card
Project Time Approval Enhancements
Sourcing for Time-Based Project Billing Rules
Resource Allocation Chart/Grid Filters

NetSuite · Vendors, Purchasing, and Receiving

Vendor Bill Cancellation Enhancements

NetSuite · Taxation

Enhancements to Spain Online VAT Register
Spain Online VAT Register (Immediate Supply of Information "SII") v.1.1
Mexico Electronic Accounting File Version 1.3
Mexico Complementary Trial Balance
Tax Codes and VAT Return Changes in International Tax Reports

Commerce

Commerce · Commerce Applications

Aconcagua Release of SuiteCommerce
SuiteCommerce
Themes and Extensions
Extensibility API and the Extension Framework
SuiteCommerce Base Theme
SuiteCommerce Theme Customizer Support
Documentation Changes
Copy Configuration
Intercompany Cross-Subsidiary Fulfillment
Free Gift Promotion
Libraries Update
Standard Header and Footer in Checkout
SuiteCommerce Extensions
SuiteCommerce Help Videos

Commerce · Site Management Tools

Content Visibility Dates
Landing Page Visibility Dates

Commerce · Commerce Platform

Enhanced Search Experience with Search Synonyms
Enhancements to Sitemap Generator
Automatic Cache Invalidation with Major Release
Advance Notice: HTTP2 Compliant Headers
Improved Performance with Server-Side SASS Compilation
Monitor Domain Health Using Health Status Indicators
Shopping Methods for Encrypted Payload Bridging
Support for Free Gift Promotions in the Commerce API
Maximum Order Quantity on Items Purchased Online
Website Specific Customers
Website Template for Registration Confirmation Email Messages
Link to Web Site Assistant Tool Deprecated
CSV Import Supported for Commerce Categories

Commerce · SuiteCommerce InStore

Installation and Configuration Enhancements
Changes to Required Permissions for SCIS Clerk role
SCIS Support for Free Gift Promotions
Support for Multi-Subsidiary Customers
Support for Split Tender Refunds
Invoice in Advance of Fulfillment Preference Requirement is Removed
Enhancements to Advanced Cash Drawer Management in SCIS
SCIS Fallback

SuiteCloud Platform

SuiteCloud Platform · SuiteBundler

Bundle Support during Release Phasing

SuiteCloud Platform · SuiteBuilder - Customization

Advanced Template Field List Available
Enhanced Language Support Available in Advanced Templates
Support for Bill of Materials Revision Sublist Customization
Updates to Lists, Records, & Fields Submenu and Form Customization Pages
Configuration Added for Mandatory Sublist Entry
Updated BFO and FreeMarker Libraries for Advanced PDF/HTML Templates
Support for Changing Advanced Printing Custom Template Script IDs
SuiteBuilder Help Videos
Fixed Assets Management Records Supported in Custom Segments
Print Multiple Journal Entries Using Advanced PDF/HTML Templates

SuiteCloud Platform · SuiteAnalytics (Dashboards, Reporting, and Search)

Inventory Detail Search Updates
Duplicate Values No Longer Displayed in SuiteAnalytics Connect Transaction Lines Query Results
Account (Main) Field Added for Transaction Search
New File (Line) Fields Join in Transaction Saved Search
Emergency Contact Fields Added for Employee Search
Business Events Processing Saved Search
Dashboard Tiles Updates
Navigation Portlet Enhancements

SuiteCloud Platform · CSV Import

CSV Import Supported for Commerce Categories
 SuiteCloud Development Framework (SDF) Support for Saved CSV Import Maps
 Enhanced Error Reporting for afterSubmit Script Failures

SuiteCloud Platform · SuiteFlow (Workflow Manager)

Support for the Items Sublist on Transaction Records
 Enhancements to Workflow Groups
 Disable Instances and History for Workflows
 Enhancements to the Condition Builder for Date and Time Fields

SuiteCloud Platform · SuiteScript

SuiteCloud Processors Enhancements
 SuiteScript 2.0 – Map/Reduce Enhancements
 SuiteScript 2.0 – Client Scripting Supported on External Suitelets and Online Forms
 SuiteScript 2.0 – Remote Client IP Address API
 Change to Management of Bin Numbers Using SuiteScript
 Change to Results for Scripted Inventory Detail Searches
 Change to Scripted Employee Searches from Employee Center
 Change to Journal Entry Fields that Cause Revenue Element Updates
 Scripting Impact of New UI for Weekly Timesheets
 Support for Suitelet Label Translation
 SuiteScript 2.0 – Get and Set Rate Field Text with Percentages
 SuiteScript 2.0 – Return Values Updated for Hidden Checkbox Fields
 Change to Address Subrecord Scripts
 2018.1 SuiteScript Record Exposures
 2018.1 SuiteScript Records Browser
 Advance Notice: HTTP2 Compliant Headers

SuiteCloud Platform · SuiteTalk (Web Services) Integration

Unified Web Services and RESTlet Concurrency Governance
 Newly Supported Record Types for SuiteTalk
 WSDL Versions 2012.1 and Older to be Disabled
 Enhanced Error Reporting for afterSubmit Script Failures
 Change in Processing Asynchronous Web Services Requests After Server Restart
 Release Preview Version of 2018.1 WSDL Now Available
 Araxis Merge Diff File for the 2018.1 Endpoint
 2018.1 SuiteTalk Schema Browser

SuiteCloud Platform · SuiteCloud IDE

SuiteCloud IDE Support for Eclipse Mars
 SuiteCloud IDE for Eclipse Kepler Now Deprecated
 SuiteCloud IDE 2018.1 is Now Available

SuiteCloud Platform · SuiteCloud Development Framework

SDF SuiteApp Interoperability: Referencing SuiteApp Objects from External SDF SuiteApps Now Supported
 New Supported Format for Custom Object References
 Installation Preferences Supported for SuiteApp Projects
 Saved CSV Import Maps Supported in SDF
 Advanced PDF/HTML Templates Supported in SDF
 Email Templates Supported in SDF
 Ability to Set Custom Record Permissions on Custom Role Objects through SDF
 Token-based Authentication (TBA) Supported for Login to NetSuite from SuiteCloud IDE and SDF CLI

Published Dashboards and Most Standard Portlets Supported in SDF
 KPI Scorecards Supported in SDF
 Custom Transaction Types Supported in SDF
 Downloadable SDF File Now Known as SDF SDK 2018.1 is Available

SuiteApps

SuiteApps · SuiteApps (Bundles) Released by NetSuite

Accounting SuiteApps
 Administration SuiteApps
 SuitePeople SuiteApps
 Order Management SuiteApps
 Inventory Management SuiteApps
 Localization SuiteApps
 Manufacturing SuiteApps
 Projects SuiteApps
 SuiteAnalytics SuiteApps
 Taxation SuiteApps

Accounting

NetSuite 2018.1 includes the following enhancements to accounting features:

- Enhanced Setup of GL Audit Numbering Sequences
- Enhanced Foreign Currency Variance Posting Rules
- Print Multiple Journal Entries Using Advanced PDF/HTML Templates
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Enhanced Setup of GL Audit Numbering Sequences

The GL Audit Numbering feature applies gapless numbering sequences to all GL posting transactions. Gapless GL audit numbering enables companies to meet international compliance requirements. The feature enables you to set up and run unique GL audit numbering sequences for of your GL posting transactions. For more information about the GL Audit Numbering feature, see the help topic [Using GL Audit Numbering](#).

Prior to 2018.1, when you set up a numbering sequence, you defined each sequence as a line item on the GL Audit Numbering Setup page. You were limited in the definition of the sequence. In addition, if you deleted a line item, you lost the numbering history associated with the sequence run. Now, each numbering sequence is saved as a separate record and the history is maintained on the GL Audit Numbering Sequence page.

The new GL Audit Numbering Sequence page provides an enhanced setup experience with additional options to define. In addition, you can copy a GL audit numbering sequence from one accounting period to the next. You can also inactivate a numbering sequence if it is no longer useful to your organization. For more information about setting up a GL audit numbering sequence, see the help topic [Setting Up a GL Audit Numbering Sequence](#).

Now when you run a GL audit numbering sequence, you can view the details of an invalid run. And, if you have copied a sequence from one accounting period to the next, you can view the details associated with the next period. For more information on running a numbering sequence, see the help topic [Running GL Audit Numbering Sequences](#).

For information about the new GL Audit Numbering Sequences page which provides a run history of your sequences, see the help topic [Viewing GL Audit Numbering Sequences](#).

GL Impact Locking

In some countries, the general ledger impact of a transaction must be locked to the general ledger. In these countries, an administrator can check the GL Impact Locking box on the Company Information page, or on the subsidiary record in NetSuite OneWorld. For details, see the help topics [Configuring Company Information](#) and [Creating Subsidiary Records](#).

When the GL Impact Locking box is checked, changes to GL numbered impacting transactions after running a GL audit numbering sequence automatically generates copy and reversal transactions. These transactions display on the GL Impact subtab on the original GL impacted transaction. For more information, see the help topic [Using GL Impact Locking](#).

Enhanced Foreign Currency Variance Posting Rules

In 2017.1, NetSuite introduced the Foreign Currency Variance Mapping feature, which lets you create foreign currency variance posting rules to control the accounts to which foreign currency gains and losses post. In 2018.1, foreign currency variance posting rules are enhanced as follows:

- More standard fields are available to create rule criteria.
- Custom fields and custom segments are available as rule criteria.
- The rule criteria fields are multi-select lists when appropriate for the field type.
- You can now copy posting rules to create new rules with similar criteria.
- You can now assign priority to rules to ensure that higher priority rules match first.
- The Foreign Currency Variance Posting Rules page, where you create rules, has been redesigned for a better user experience.

For information, see the help topic [Foreign Currency Variance Mapping](#).

Print Multiple Journal Entries Using Advanced PDF/HTML Templates

In 2017.2, if the Advanced PDF/HTML Templates feature was enabled, you could print a single journal entry of the following journal entry types:

- Journal Entries (Book Generic and Book Specific)
- Intercompany Journal Entries (Book Generic and Book Specific)
- Advanced Intercompany Journal Entries (Book Generic and Book Specific)

In 2018.1, if you are logged in with the Administrator role, you can print multiple journal entries of all journal types from the Print Checks & Forms page at Transactions > Management > Print Checks and Forms. The Journals link provides access to the Print Journals page. You can filter the journal entries that appear on this page through customization. You can also reprint journal entries that have already been printed.

For more information about printing journal entries using the Advanced PDF/HTML Templates feature, see the help topics [Printing Journal Entries Using Advanced PDF/HTML Printing](#) and [Print a Single Journal Entry or Multiple Journal Entries](#).

Deferred Expense Waterfall Report

The new Deferred Expense Waterfall report is available in NetSuite implementations with either the Amortization or the Advanced Revenue Management feature enabled. The Deferred Expense Waterfall report consists of a summary report and a detail report. To run the summary report, go to Reports > Financial > Deferred Expense Waterfall. To run the detail report, go to Reports > Financial > Deferred Expense Waterfall > Detail.

The Deferred Expense Waterfall Detail report reconciles the deferred expense balance on the balance sheet and provides a forecast of the expected expense stream. The report displays the results of all transactions to users with permission to see it, regardless of any role restrictions on transactions. The report is accessible to those whose role includes the Deferred Expense Reports permission.

The Deferred Expense Waterfall report divides deferred expense into the following categories:

- **Prior Unrecognized** – Deferred expense planned for recognition by the end of the current period but not yet recognized. If you have **not** completed the month-revenue revenue recognition or amortization journal entries for the current period, those amounts are included. When all amounts have been recognized, this column is not displayed.
- **Short-term deferred expense** – Deferred expense planned for recognition in the short term. This category is further divided into columns for each of the months. The number of months is determined by the new accounting preference **Number of Short-Term Expense Periods**. The default is 12. This accounting preference is in the Amortization section on the General subtab of the Accounting Preferences page at Setup > Accounting > Accounting Preferences.
- **Long-term deferred expense** – Deferred expense planned for recognition after the number of months set for short-term deferred expense. This is the **Thereafter** column of the report.
- **Unplanned deferred expense** – Billed, unrecognized, and not yet in actual cost amortization plans or amortization schedules.

For more information, see the help topics [Deferred Expense Waterfall Summary Report](#) and [Deferred Expense Waterfall Detail Report](#).

Usability Enhancements for Advanced Revenue Management

In 2018.1, usability enhancements for Advanced Revenue Management are in the following areas:

- [Search Enhancements](#)
- [Create Revenue Recognition Journal Entries Page Enhancements](#)
- [Accounting Preferences Enhancements](#)

- Revenue Allocation Enhancement
- Enhancements to Aid the Transition from Classic Revenue Recognition
- Reporting Enhancements
- Performance Enhancement

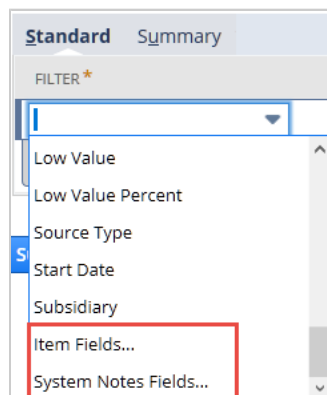
Search Enhancements

A new search type is available for customers who transition from the classic revenue recognition features to advanced revenue management. The new search type is called **Revenue Recognition Plans and Schedules**. It is available when the features Revenue Recognition and Advanced Revenue Management are both enabled. To access the search, your role must include the Revenue Recognition Plans permission. This new search type is in addition to the existing Revenue Recognition Schedules and Revenue Recognition Plan search types for classic revenue recognition and advanced revenue management respectively.

The new Revenue Recognition Plans and Schedules search includes a new field called **Revenue Recognition Type** to identify which revenue recognition type the data belongs to. The field values are **Schedule** for data from classic revenue recognition schedules and **Plan** for data from advanced revenue management revenue recognition plans.

Generates Revenue Arrangement has been added to the **Transaction** advanced search criteria filters. This hidden field is set to true when a transaction generates a revenue arrangement.

The **Fair Value Price** advanced search has been enhanced to add fields from two other records. You can now add **Item Fields** and **System Notes Fields** to your search criteria and results. These joined records appear at the ends of the Filter and Fields lists as shown in this example from the Criteria subtab.



Create Revenue Recognition Journal Entries Page Enhancements

The Create Revenue Recognition Journal Entries page has a new filter called **Revenue Recognition Source**. To see the page, go to Transactions > Financial > Schedule Revenue Recognition Journal Entries > Run Now. The filter is added for the convenience of those who are moving from the classic revenue recognition features to advanced revenue management. This filter appears when the Revenue Recognition and Advanced Revenue Management features are both enabled.

The Revenue Recognition Source filter includes the following options:

- **Revenue Recognition Schedules** – Select this option to create revenue recognition journal entries only from classic revenue recognition schedules.

- **Revenue Recognition Plans** – Select this option to create revenue recognition journal entries only from advanced revenue management revenue recognition plans.
- **All** – Select this option to ignore the source when you create revenue recognition journal entries.

The existing **Transaction Date** filter has been enhanced to support custom date ranges. Fields for **From** and **To** dates have been added. These fields are populated automatically from your selection in the Transaction Date field. If you enter or select dates directly in the From and To fields, the Transaction Date field displays (**Custom**).

Accounting Preferences Enhancements

Accounting preferences related to revenue recognition have been grouped on the General subtab of the Accounting Preferences page at Setup > Accounting > Accounting Preferences. Three groups replace the previous Revenue Recognition group:

- **Revenue Recognition** includes accounting preferences that are available when either feature, Revenue Recognition or Advanced Revenue Management, is enabled.
- **Classic Revenue Recognition Only** includes accounting preferences that are relevant only when one or more of the classic revenue recognition features is enabled. These features are Revenue Recognition, Revenue Commitments, VSOE, EITF 08-01 Revenue Recognition (a SuiteApp), and Sales Order Revenue Forecasting.
- **Advanced Revenue Management Only** includes accounting preferences that are relevant only when the Advanced Revenue Management feature is enabled.

Accounting preferences within the three groups have also been reordered.

A new accounting preference, **Require Invoice Approval When Revenue Plans Are Created on Billing**, has been added for Advanced Revenue Management only. This new preference affects revenue recognition plan creation when Create Revenue Plans On is set to Billing and invoice approval routing is in effect.

To turn the preference on, check the **Require Invoice Approval When Revenue Plans Are Created on Billing** box in the accounting preferences. By default, the new preference is off in existing NetSuite accounts and on in accounts that are new in 2018.1.

If you turn the new preference on, revenue recognition plans that were created on billing are evaluated to determine whether the source invoice is approved. After evaluation, the behavior is as follows:

- If the invoice is approved, nothing else happens.
- If the source invoice is not approved, then:
 - If no revenue has been recognized on the revenue plan, the plan is deleted.
 - If revenue has already been recognized, lines are added to the plan to reverse the revenue that has been recognized. The next time you generate revenue recognition journal entries, the reversing journals will be created.

When you save your accounting preferences after turning this new preference on or off, the evaluation and any revenue plan updates occur in the background. If you have a high number of unapproved invoices, the processing could be slow. You see the Accounting Preferences page until processing finishes.

Revenue Allocation Enhancement

Negative revenue elements included in revenue arrangements from sales transactions can now be allocated. The negative elements that are supported are the result of including lines in the sales

transaction with negative amounts. Previously, reclassification adjusted the unbilled receivable account for negative amounts from such elements. Positive revenue elements included in revenue arrangements from returns are also included in this enhancement.

Limitations on combining revenue arrangements with positive and negative revenue elements have been implemented. You cannot combine revenue elements that would cause the resulting revenue arrangement to violate the constraints of its source transaction type for positive or negative value. For example, you cannot combine revenue elements from sales order sources if the resulting revenue arrangement would have a negative Transaction Total. Sales orders cannot have negative totals.

Revenue allocation remains unsupported for combined revenue arrangements from mixed source types if the negative revenue elements are not linked to positive revenue elements. Allocation also remains unsupported for revenue elements created from journal entries.

Enhancements to Aid the Transition from Classic Revenue Recognition

The familiar **Rev. Rec. Start Date** and **Rev. Rec. End Date** fields on sales transaction lines are now included when you enable the Advanced Revenue Management feature after using the Revenue Recognition feature. These fields are not required and can be hidden on the sales transactions during implementation.

If you enter dates in the Rev. Rec. Start Date and Rev. Rec. End Date fields on the transaction before revenue elements are created, the dates are copied to the revenue element. Changes you make to these fields on the transaction after revenue elements are created do not affect the revenue elements.

When revenue recognition plans are created, the plans use the dates from the revenue element only if the item's revenue recognition rule uses revenue element dates as the start and end date sources. To ensure that dates entered on the transaction lines are used in the revenue recognition plans, use revenue rules with Rev Rec Start Date Source set to Revenue Element Start Date and Rev Rec End Date Source set to Revenue Element End Date.

Other enhancements to assist your transition are included in these areas of the release notes:

- [Search Enhancements](#)
- [Create Revenue Recognition Journal Entries Page Enhancements](#)
- [Accounting Preferences Enhancements](#)

Reporting Enhancements

The following enhancements to reporting are included in 2018.1.

- **Deferred Expense Waterfall** summary and detail reports are introduced. These reports are available when the Advanced Revenue Management feature is enabled. If the Enable Advanced Cost Amortization accounting preference is checked in your NetSuite implementation, these reports help you reconcile your deferred expense account balances with the balance sheet. For more information, see [Deferred Expense Waterfall Report](#).
- The **Deferred Revenue Reclassification** report has a new column, Element Number. To view this report, go to Reports > Revenue > Deferred Revenue Reclassification.

Performance Enhancement

Beginning in 2018.1, the Update Revenue Arrangements process uses smaller batches to enhance processing performance. In addition, the number of concurrent submissions is increased. As a result

of the smaller batches, you may see more submissions on the Update Revenue Arrangements and Revenue Plans page.

Custom GL Lines Plug-in Enhancements

NetSuite 2018.1 includes the following enhancements to the Custom GL Lines plug-in:

- [Effective Date Available for Custom GL Lines Plug-in Implementations](#)
- [System Notes Logged for Custom GL Lines Plug-in Configuration](#)
- [Custom GL Lines Can Use Same Account as Transaction Main Line](#)
- [Change to Custom GL Lines Plug-in Rounding](#)

Effective Date Available for Custom GL Lines Plug-in Implementations

New Effective Date and End Date fields are available on the Custom GL Lines Configuration page. When you are adding a new script file, specify the Effective Date when the new plug-in implementation will be used. Use the End Date field to specify when the old plug-in implementation will no longer run. Use a new script file and the Effective Date and End Date fields to edit or update a plug-in and preserve the existing GL impact.

Custom GL Lines: Configuration

Save Cancel Reset

NAME
Update Funding Accounts

ID
customscript_update_funding_accts

STATUS
Testing

LOG LEVEL
Debug

☐ ASYNCHRONOUS

EFFECTIVE DATE
[Text Field]

END DATE
[Text Field]

Execution Rules System Notes

TRANSACTION TYPE

- Bill
- Bill Credit
- Bill Payment
- Cash Refund

☒ ALL

SUBSIDIARIES

- Parent Company
- Parent Company : AU Subsid
- Parent Company : CAN Subsid
- Parent Company : Elim Subsid

☒ ALL

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

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

To edit or inactivate a plug-in implementation and preserve the existing GL impact, in the End Date field, enter an end date for the older plug-in. The plug-in implementation does not run on transactions dated after this date. This field is blank by default.

In the Effective Date field for the new plug-in implementation, enter a start date. The plug-in implementation runs on transaction dates that fall on or after this date. This field is blank by default.

Note: If the End Date of one plug-in implementation is the same as the Effective Date of another plug-in implementation, both plug-in implementations are run on transactions on that date. To ensure that plug-in implementations do not overlap, the Effective Date of the new plug-in implementation should be one day after the End Date of the older plug-in implementation.

For more information, see the help topic [Configure the Custom GL Lines Plug-in Implementation](#).

System Notes Logged for Custom GL Lines Plug-in Configuration

System notes are now logged for configuration of custom GL lines plug-in implementations.

A System Notes subtab is now available on the plug-in implementation configuration page for custom GL lines plug-in implementations. The system notes show the changes that have been made to the plug-in implementation's configuration settings.

Custom GL Lines: Configuration List More

[Save](#) [Cancel](#) [Reset](#)

NAME
Update Funding Accounts

ID
customscript_update_funding_accts

STATUS
Testing

LOG LEVEL
Debug

☐ ASYNCHRONOUS

EFFECTIVE DATE

END DATE

Execution Rules **System Notes**

FIELD
- All -

VIEW
Default

[Customize View](#)

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

Custom GL Lines Can Use Same Account as Transaction Main Line

Previously, the account selected when transaction was created could not be used on the lines created by a custom GL lines Plug-in implementation. With this change, custom GL lines can now use the same account that was used on the main line when the transaction was created.

Change to Custom GL Lines Plug-in Rounding

Each Custom GL Lines Plug-in implementation now does its own rounding for foreign currency conversions. Rounding on standard lines is completed before the custom GL line plug-in implementation runs.

There may be several corrections completed because each plug-in implementation performs rounding on its own lines. If the correction would be more than the allowed value, the following error message appears.

Rounding error of `RoundingError` in lines generated by plug-in `PluginName` in accounting book `AccountingBookName` is greater than the limit of `AcceptableLimit`.

Add an Existing Subsidiary with Transactions to an Existing Active Accounting Book

The Multi-Book Accounting feature has been enhanced to enable the implementation team to add an existing subsidiary with transactions to an existing active accounting book. This enhancement was accomplished by moving the status of an accounting book from the accounting book record to the subsidiary record.

This enhancement enables the implementation team to process a subsidiary's historical transactions in an active accounting book one subsidiary at a time. It is useful when a customer prefers to implement the Multi-Book Accounting feature in several phases to achieve an earlier go-live date. It is also useful when specific subsidiaries have a lot of data to process to the secondary accounting book.

The newly added subsidiary to the secondary accounting book is automatically set to a pending status. This status provides additional time to perform the book-specific setup for the subsidiary, and process historical transactions, as needed. When the customer is ready, the subsidiary added to the secondary accounting book can be set to an active status and use the Multi-Book Accounting feature.

Group Entities in a Statistical Schedule Saved Search

Prior to NetSuite 2018.1, when you created a saved search to run a statistical schedule you could not include search fields that grouped entities. Now, you can add saved search fields that group entities such as employee, vendor, and customer. When you run a statistical schedule based on an entity search, the Entities column on the statistical journal is mapped to the Name field on the statistical journal. For information about defining a saved search for a statistical schedule, see the help topic [Defining a Saved Search for a Statistical Schedule](#).

Change in Logic for Determining Whether Foreign-Currency-Denominated Invoices Are Paid in Full

Previously, the logic to determine whether a foreign currency invoice was paid in full used the base currency translation of the invoice balance. As a result, rounding during currency conversion could cause an underpaid invoice to appear to be paid in full.

For transactions created in 2018.1, the invoice balance in the foreign currency is considered when determining whether an invoice is paid in full. Thus, a foreign-currency-denominated invoice now remains open until the invoice balance equals zero in both the foreign currency and the base currency.

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- [Release Preview Changes in North America](#)
- [Changes to Development Account Upgrades](#)

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- [Help with Permission Violation Errors: Change Role Option](#)
- [Employee Restrictions Supported on Employee Permissions](#)
- [Employee Access Subtab Added to Custom Entity Field Configuration](#)
- [Employee Permission Updates](#)
- [Application Performance Management \(APM\) Enhancements](#)


Sandbox Changes in North America

An upgrade to sandbox architecture is now available to all sandbox accounts for customers in North American data centers. As part of the first refresh of the account after January 11th, 2018, each sandbox account on the sandbox domain is upgraded to the new architecture. The refresh shifts the sandbox to be on the NetSuite domain, instead of the sandbox domain. After a sandbox account transitions to the NetSuite domain, it is easier for users to switch between roles in production and sandbox accounts.

This change affects how users access their sandbox account. Before the transition, users log in to <https://system.sandbox.netsuite.com> to access a sandbox account on the sandbox domain (previously referred to as NA sandbox). After the sandbox transition, users log in to the sandbox account on the NetSuite domain at <https://system.netsuite.com> (previously referred to as EU sandbox). Users can choose between their production and sandbox roles on the Choose Role page or Change Roles list. Note that attempts to log in using the old sandbox URL no longer work after the transition.

In addition, when a primary sandbox transitions to the NetSuite domain, its account ID changes. Prior to the transition, a primary sandbox account has the same account ID as the related production account. After the transition, the sandbox account's ID is appended with **_SB1**. Customers that have integrations to these sandbox accounts must update these integrations to point to the right account ID, to ensure that integration requests continue to work after the transition.

For more information about these sandbox changes, see the help topic [Sandbox Pre-transition Checklist](#).

 **Note:** Sandbox access is not changing for customers in European data centers.

As of 2018.1, sandbox accounts in the NetSuite domain are accessible to mobile users. For information, see [Mobile Access to NetSuite Sandbox](#).

Zero Downtime When Refreshing Sandbox Accounts on the NetSuite Domain

Before 2018.1, a sandbox account was taken offline when an administrator requested a refresh of the account. After a sandbox account is on the NetSuite domain, accounts are no longer taken offline when a refresh is requested. Users can use the sandbox account while the new copy is being prepared.

When the new copy is ready to be activated, administrators receive an email notification to activate the sandbox. To activate the sandbox account after a refresh, go to the Sandbox Accounts page in your production account, and select the **Activate Sandbox** button. When the new copy of the sandbox account is activated, the previous version is deleted. All old data is replaced with a new copy of the production account data.



Important: Be sure to warn all active users to save their current work before you activate the new copy of the sandbox account. For details, see the help topic [Preserving Sandbox Changes](#).

For more information, see the help topic [Requesting a Refresh](#).

Release Preview Changes in North America

As of 2018.1, the URL for access to Release Preview has changed for customers in North American data centers.

Previously, users logged in to <https://system.beta.netsuite.com> to access a Release Preview account. With 2018.1, users log in to Release Preview on the NetSuite domain at <https://system.netsuite.com>, and choose their Release Preview role from the Choose Role page or Change Roles list.

For more information, see the help topic [Release Preview Test Plan](#).



Note: The URL for access to Release Preview has not changed for customers in European data centers.

As of 2018.1, Release Preview accounts in the NetSuite domain are accessible to mobile users.

Changes to Development Account Upgrades

This release includes changes to the timing of development account upgrades to the leading version of NetSuite.

Customers that purchase sandbox accounts also receive three development accounts.

For 2018.1, one development account per customer is upgraded to 2018.1 in phase 0. The other two development accounts are not upgraded until the last phase. This timing ensures that each customer with development accounts can work with both the lagging and leading versions of NetSuite until the release upgrade cycle is complete.

For information about development accounts, see the help topic [NetSuite Development Accounts](#).

May 2018 Deprecation of TLS 1.0 and TSL 1.1 for NetSuite Production Accounts



Important: The target date for the deprecation of TLS 1.0 and TLS 1.1 has been changed from April 21, 2018 to **May 21, 2018**.

NetSuite account administrators should have received previous notifications about plans to deprecate older versions of the Transport Layer Security (TLS) protocol. We are planning to deprecate TLS protocol versions 1.0 and 1.1 in all remaining NetSuite account types on **May 21, 2018**. The account

types affected by this change are accessed from the system.netsuite.com domain, and include production, development, test drives, demo, and student accounts.

The deprecation of TLS 1.0 and TLS 1.1 in Release Preview and existing sandbox accounts has already occurred. You still have time to test whether secure communications using TLS 1.2 is supported in your account. Updates may be required for operating systems, browsers, other clients, software drivers, and hardware.

The Payment Card Industry Security Standards Council (PCI SSC) requires companies to transition to TLS protocol version 1.2 before the end of June, 2018. The TLS protocol is used for secure communications over https:// interfaces.

See the help topic [FAQ: Transport Layer Security \(TLS\) Deprecations](#) for more information, such as:

- How to test which protocol version of TLS is in use from your account.
- How your business might be affected if you do not upgrade to TLS 1.2.
- Answers to technical questions.

This FAQ also provides specific information about the various methods of connecting to NetSuite. Additional notifications will be sent to account administrators before the deprecation deadline on **May 21, 2018**.

Administration Help Videos

The help center now includes a Videos section that provides direct access to Administration help videos. To access the Videos section, go to Additional Resources > Videos in the Help Center table of contents.

The following Administration videos are available under the SuiteCloud heading.

- 2FA Your Way for Administrators
- 2FA Your Way for Users
- Sandbox Transition in North America

Two-Factor Authentication (2FA) Required for Administrator Role

NetSuite 2018.1 requires two-factor authentication (2FA) for the initial login of all Administrator and Full Access roles in newly provisioned accounts. This requirement enhances security for these accounts. Newly provisioned account types can include production, sandbox, development, Release Preview, test drive, demo, and student accounts.




Important: The 2FA required feature applies only to newly provisioned accounts in 2018.1. The 2FA required for the Administrator and Full Access roles feature will be enforced for all existing accounts in 2018.2.

The free 2FA solution available in NetSuite offers both online and offline methods for receiving verification codes. See the help topic [2FA by Phone or Authenticator App](#) for more information. A link to a video, 2FA Your Way for Administrators, is also available in that topic.

With this 2FA solution, the Administrator and Full Access roles are designated as 2FA authentication required by default. The requirement that designates 2FA for these roles cannot be removed. The first

verification code is sent by email. The first time they log in, users with Administrator and Full Access roles are prompted to set up their preferred and backup methods for receiving verification codes. For more information, see the help topic [Logging in with 2FA by Phone or Authenticator App](#). A link to a video, 2FA Your Way for Users, is also available in that topic.


 **Note:** The Help Center now contains a Videos section where you can access all help videos, including the 2FA videos. The 2FA videos are listed under the SuiteCloud heading.

Certain administrator permissions mandate that a role be 2FA required by default. Any standard or customized roles that include these permissions are indicated in the new **Mandatory 2FA** column on the Two-Factor Authentication Roles page. For more information, see the following topics:

- [Permissions Requiring Two-Factor Authentication \(2FA\)](#)
- [Designating Two-Factor Authentication Roles](#)

Users can choose to have their login device trusted by NetSuite for the length of time specified by an administrator in the Duration of Trusted Device column for a role. Per session is the default setting for trusted devices. Administrators can change the trusted device setting to a longer duration. For more information, see the help topic [Designating Two-Factor Authentication Roles](#).

For general information for Administrators about 2FA in NetSuite, see the help topic [2FA by Phone or Authenticator App](#). For general information for all users, see the help topic [Using 2FA by Phone or Authenticator App](#).

 **Important:** In your integrations, you might need to use certain functions that require an Administrator role. As previously mentioned, the feature requiring 2FA for Administrator and Full Access roles will be enforced for all existing accounts in 2018.2. In past releases, you could not use Token-based Authentication (TBA) tokens for integrations that required an Administrator role. This release introduces support for TBA for Administrators. Using an Administrator role with a TBA token ensures your integrations will continue to work after the upgrade to 2018.2. We recommend you begin now to transition integrations that require an Administrator role to use TBA rather than user credentials. For more information, see the help topic [Token-based Authentication \(TBA\)](#). See also [Integration Management](#).

SAML Single Sign-on (SSO) Improvements

This release brings important changes to our SAML SSO feature. These changes enable you to build trust between a single IdP and multiple NetSuite accounts. They improve compatibility between NetSuite and third-party identity providers (IdPs). And you now can define a role for SAML login through SSO.

- **Shared IdP:** It is now possible to trust the same IdP from multiple NetSuite accounts. A unique constraint on the IdP entity ID was removed in NetSuite. Users now can log in and switch between NetSuite accounts trusting the same IdP. Also, administrators no longer require independent SP configurations on the IdP side for every NetSuite account. Only one NetSuite SP configuration is required, which removes problems that may have been encountered due to IdPs requiring unique SP entity IDs.
 - To begin using a single IdP in accounts where the SAML SSO feature is currently enabled, perform the following task. After your account is upgraded to 2018.1, go to Setup > Integration > SAML Single Sign-on. Click **Submit**. You can now use the same IdP metadata file for all your NetSuite account types. For more information, see the help topic [SAML SSO in Multiple NetSuite Account Types](#).

Note: You cannot use the Shared IdP feature in 2018.1 sandboxes that are still accessed from the `system.sandbox.netsuite.com` domain. That is, if your sandbox has not been refreshed to transition it to the `system.netsuite.com` domain, you should not change the setup of that sandbox until after that sandbox has been refreshed.

- The account ID (the SAML account attribute) is now optional. In the past, we required that you provide the NetSuite account ID to your IdP. If you want to use the Shared IdP feature, you should delete the account attribute from the IdP settings. If you specify the account attribute in 2018.1, SAML users will only be able to access that account. If you want to use SAML in your 2018.1 production, Release Preview, and sandbox accounts that are accessed from the `system.netsuite.com` domain, do not specify the account attribute.

Note: Exceptions: If you are using SAML for website access, you must specify the site ID (the SAML site attribute) and also specify the account attribute. If you specify the role attribute, you must also specify the account attribute.

- **Role parameter:** A new role parameter can be passed along with the SAML assertion as an additional attribute. The role attribute must be sent with the account attribute. The ability to define a role is particularly useful if you have a SiteBuilder or SuiteCommerce Advanced website. It is not possible for a user to switch roles when logged in to a website. With this change, you can define the SAML role to be used for login.
- **SP-Initiated Flow:** The SAML SSO implementation in NetSuite now supports an SP-initiated flow. The RelayState parameter is now transferred with the SAML Request message, which better aligns our SAML SSO feature with the SAML 2.0 protocol.

For more information, see the help topic [SAML Single Sign-on](#).

Changes to the Role Page

Fields that allow administrators to restrict roles (Web Services Only, Single Sign-on Only, Restrict this Role by IP Address, and Restrict this Role by Device ID) are grouped under the new Authentication section on the Role page. See the help topic [Customizing or Creating NetSuite Roles](#) for more information. Two additional fields are also available in the Authentication section: **Two-factor Authentication Required** and **Duration of Trusted Device**. Adding these fields to the Role page lets you configure a role as 2FA required without needing to navigate to the Two-factor Authentication Roles page.

REST Roles Service Enhancement

As of 2018.1, the REST roles service response also includes information about the account type (production, release preview, or sandbox). For information about using the REST roles service and about the type of data it returns, see the help topic [The REST roles Service](#).

Changes to Email Preferences Domain Keys Subtab

Two fields related to DMARC compliance have been removed from the Domain Keys subtab of the Email Preferences page. The two fields are **Compose DMARC-compliant Email Messages Using SPF** and **Forward Email Replies in DMARC-compliant Format**.

These fields are no longer necessary due to the capability, introduced in 2017.2, to configure multiple DKIM (DomainKeys Identified Mail) keys with different domain selectors. The configuration of multiple DKIM keys ensures that the proper domain keys are signed on all email sent from NetSuite. The signing

of proper domain keys to each email message ensures compliance with DMARC in relaxed alignment mode, and maintains full email bounce processing.

Before your account is upgraded to 2018.1, ensure that you have multiple domain keys with different domain selectors configured in NetSuite. Set up a DKIM key for each domain you control from which you send email. For more information, see the help topic [DomainKeys Identified Mail \(DKIM\)](#).

Also, verify you are following the **Five Golden Rules for Outbound Email** as outlined in [Email Best Practices](#).



Important: If you do not set up domain keys in NetSuite, or if you are using a free email domain on email sent from NetSuite, the email's **From** header is rewritten. The original email address is moved to the display string. The SMTP-related email address in the **From** header refers to netsuite.com. For example, if domain keys have not been set up in NetSuite, the email's **FROM** header would be `john.smith@mydomain.com <system@netsuite.com>`.

Help with Permission Violation Errors: Change Role Option

Many NetSuite users have more than one role in NetSuite. For example, a user might have an Employee Center role and other roles that they use to perform their tasks in NetSuite. Each role has different permissions for access to resources in NetSuite. Occasionally, users encounter a permission violation error. Permission violation errors can occur when a user is logged in, but in a role that does not have permission to access a specific resource. An example of this situation occurs when the user clicks a link in an email or selects a bookmark.

Help is now available to gracefully recover from these permission violation errors. If the current role does not have adequate permission, a list of the user's roles is displayed below the error message. The user can switch to a role with the necessary permission. After switching to a role with the relevant permission, the user is redirected to the requested resource.

ORACLE | NETSUITE

Help J. Wolfe
Wolfe Electronics - Employee Center

Permission Violation
 You need the Enable Features permission to access this page.
 Select a different role from the list below.

Change role

☐ SHOW INACTIVES TOTAL: 2

DEFAULT ROLE	ROLE	COMPANY *	ACCOUNT TYPE	LAST LOGIN
<input type="checkbox"/>	Administrator	One World	PRODUCTION	1/12/2018 6:40 am
<input type="checkbox"/>	Employee Center	One World	PRODUCTION	1/12/2018 6:41 am

Employee Restrictions Supported on Employee Permissions

If you use the SuitePeople Advanced Employee Permissions feature, permissions related to the employee record have been enhanced to provide more levels of restrictions and access to employee information.

If the Advanced Employee Permissions feature is enabled, a new **Employee Access** subtab is now available on the Role page. When you choose a permission, the restrictions are automatically selected. The employee access permissions that you can assign to a role are:

- Employees and Employee Administration – Uses the restrictions defined on the Role page.
- Employee Confidential – Restricts access to direct reports and below.
- Employee Public – Restricts access to active, non-terminated employees.
- Employee Self – Restricts access to self.

For custom permission created from a built-in permission, the restrictions from the standard permission are used. If you create a new custom permission, the restrictions are specified on the Role page.

Employee Access Subtab Added to Custom Entity Field Configuration

A new **Employee Access** subtab is now available on the Custom Entity Field page when the following conditions are met:

- The **Employee** box on the **Applies to** subtab is checked.
- The SuitePeople Advanced Employee Permissions feature is enabled.

When the preceding conditions are met, access to the custom field is defined by the configuration on the **Employee Access** subtab.

When the preceding conditions are not met, access to the field is defined by the configuration on the **Access** subtab, as it was before this change.

On the **Employee Access** subtab, select the appropriate permissions to restrict access to the custom field. Your organization may have custom permissions you can choose from, or select from one of the following standard permissions:

- Employees and Employee Administration – Uses the restrictions defined on the Role page.
- Employee Confidential – Restricts access to direct reports and below.
- Employee Public – Restricts access to active, non-terminated employees.
- Employee Self – Restricts access to self.

For more information, see [Employee Restrictions Supported on Employee Permissions](#) and [Advanced Employee Permissions](#).

Employee Permission Updates

When an account is upgraded from 2017.2 to 2018.1:

- The Employee Record permission is automatically added to standard and custom roles that have the Employee Navigation, Employee Search, or the Employees permission.
- The Employee Navigation and Employee Search permissions are automatically removed.
- The Employee Record permission explicitly controls the ability to search for employees and gives access to the navigation menus for employees, for example Lists > Employees. To maintain existing behavior, do not remove this permission.

For more information, see the help topics [NetSuite Permissions Overview](#) and [Reviewing Permissions Assigned to Roles](#).

Banking

NetSuite 2018.1 includes the following enhancement to banking features:

- Changes to Bank Statement Imports
- Delete Reconciled Statements
- Change to Account Reconciliation Fields and Buttons
- New Account Reconciliation Portlet
- Improvements to Intelligent Transaction Matching
- Include Accounts for Custom Transaction Matching Rules
- Deposit Record Now Supports SuiteScript 2.0

Changes to Bank Statement Imports

In NetSuite 2018.1, the following enhancements have been made to bank statement imports:

- You can now import a bank or credit card statement file in CSV format with UTF-8 encoding. This CSV file must adhere to the provided CSV template and constraints. Download the CSV template from Transactions > Bank > Import Online Banking Data. For details, see the help topic [Preparing CSV Files for Import](#).
- In the Account list on the Account Statement Reconciliation page, there are now visual indicators to show which accounts require reconciliation. The indicators only appear immediately after import.

Reconcile Account Statement

Close Statement

Primary Information

ACCOUNT *
1000 Checking X

• 1000 Checking
• 1002 Savings

CURRENCY
USD

STATEMENT END DATE
To 1/26/2018

ENDING STATEMENT BALANCE *
3,000.03

For details on importing statements, see the help topic [Account Statement Import](#).

Delete Reconciled Statements

In NetSuite 2018.1, you can now delete reconciled statements. You may want to delete a reconciled statement and start over if you receive more transactions that you must include for a closed statement period. When you delete a statement, the transactions become unreconciled but remain matched. You also can no longer generate the associated reconciliation reports for the deleted statement.

You can delete only the last statement.

To delete the last reconciled statement, go to Transactions > Bank > Reconcile Account Statement > List and then click **Delete**.

For details, see the help topic [Deleting Reconciled Statements](#).

Change to Account Reconciliation Fields and Buttons

In NetSuite 2018.1, the **Statement End Date** and **Ending Statement Balance** fields are now automatically populated with data from the imported statement, if available.

The memos that appear in the GL Transactions list are the Memo field values from the Journal Entry or Check headers, not the transaction line-level memos.

Go to Transactions > Bank > Reconcile Account Statement. For details, see the help topic [Matching Transactions](#).

Also, in the Reconciled Statements page, **Make Changes** is now **Edit**. You can also click **Delete** next to the last reconciled statement.

To edit or delete a reconciled statement, go to Transactions > Bank > Reconcile Account Statement > List.

For details, see the help topics [Reopening Reconciled Statements](#) and [Deleting Reconciled Statements](#).

To view and select accounts on the Reconcile Account Statement page, your user role must have the Accounts permission with an access level of View. For details, see the help topic [Setting Reconciliation Permissions](#).

New Account Reconciliation Portlet

In NetSuite 2018.1, an Account Reconciliation Summary portlet is now available on your dashboard. This portlet lists your bank and credit card accounts and displays key data for matching and reconciliation activities. The columns in the portlet include:

- Account Name
- Currency
- GL Account Balance
- Last Reconciled Balance
- Last Reconciled Date
- Bank Statement Balance
- Bank Statement Date
- Item to Match

Click the name of an account in the portlet to view the Bank Register Report for that account.

If your role has the permission to view the Reconcile Account Statement page, this portlet is on your dashboard by default and does not require setup. If you remove it, you can add it again in the Personalize Dashboard panel.

For more information, see the help topic [Portlet Types Table](#).

Improvements to Intelligent Transaction Matching

In NetSuite 2018.1, the following enhancements have been made to Intelligent Transaction Matching:

- [New Transaction Types Available for Custom Rules](#)
- [Inactivate Transaction Matching Rules](#)
- [Automatic Correction to Matches when Transactions are Deleted](#)

New Transaction Types Available for Custom Rules

When you specify rule conditions for custom matching rules, there are now more options available from the Transaction Types lists.

For NetSuite general ledger transactions, the following transaction subtypes are now available for selection:

- Credit Card Refunds
- Credit Card Charges

For the imported statement transactions, the following transaction types are now available for selection:

- ACH
- Deposits
- Fees
- Interest
- Payments
- Transfers

For details, see the help topic [Transaction Types in Matching Rules](#).

Inactivate Transaction Matching Rules

In NetSuite 2018.1, instead of deleting transaction matching rules, you can temporarily make them inactive. You may want to inactivate certain default rules because you cannot delete default rules. NetSuite stops running inactivated rules for subsequent imports, but the rule stays in the list on the page. To inactivate a rule, go to Transactions > Bank > Reconciliation Matching Rules. Under the new Active column, you can clear or check the box in the row for a rule. For details, see the help topic [Inactivating Transaction Matching Rules](#).

Automatic Correction to Matches when Transactions are Deleted

Previously, when a transaction was deleted you had to find and undo any transaction matches manually. NetSuite now reverts the match and removes the cleared status if you delete an unreconciled transaction or void a general ledger transaction.

To match the transactions again, see the help topic [Matching Transactions](#).

Include Accounts for Custom Transaction Matching Rules

For NetSuite 2018.1, you can now specify the accounts on which a custom rule should run. NetSuite only runs the custom rule against transactions from the selected accounts.

Previously, custom rules ran on all accounts. Any custom rules from 2017.2 automatically include all accounts, although you can see only those accounts for which you have permissions.

To choose the accounts a custom rule runs for, go to Transactions > Bank > Reconciliation Matching Rules, and click **New Rule**. In the Custom Matching Rule window, the Accounts subtab is open by default. To switch from a list of all accounts to only the currently included accounts, click **Show Included Only**. To filter the list of accounts further, select a type from the **Account Type** list, or use the search field. For details, see the help topic [Creating Custom Transaction Matching Rules](#).

Custom Matching Rule

Save Cancel

CUSTOM RULE NAME * Match on Memo and Date

Description:

ACCOUNTS RULE CONDITIONS

Include at least one account for the custom matching rule.

SHOW INCLUDED ONLY ☒ ACCOUNT TYPE All

Search

	ACCOUNT NAME ▲	TYPE	DESCRIPTION	CURRENCY
<input checked="" type="checkbox"/>	1000 Checking	Bank		USD
<input checked="" type="checkbox"/>	1002 Savings	Bank		USD
<input type="checkbox"/>	1004 Payroll	Bank		USD
<input checked="" type="checkbox"/>	1006 Petty Cash	Bank		USD
<input checked="" type="checkbox"/>	510510 VisaCard	Credit Card		USD
<input checked="" type="checkbox"/>	641 UK Bank GBP	Bank		GBP
<input checked="" type="checkbox"/>	642 UK Bank USD	Bank		USD
<input checked="" type="checkbox"/>	643 UK Bank Euro	Bank		EUR
<input checked="" type="checkbox"/>	644 EU Bank Euro	Bank		EUR
<input checked="" type="checkbox"/>	645 EU Bank USD	Bank		USD
<input checked="" type="checkbox"/>	646 EU Bank GBP	Bank		GBP

The list displays only the accounts your role has access to. Your user role must also have the Accounts permission with an access level of View. For details, see the help topic [Setting Reconciliation Permissions](#).

Deposit Record Now Supports SuiteScript 2.0

In NetSuite 2018.1, the deposit record and its initialization parameters are now scriptable with SuiteScript 2.0.

When you create a deposit record, you can choose to specify payment IDs. You control this behavior by using the `deposits` initialization parameter. The `deposits` parameter is not available for loading a deposit record.

For details on working with the Deposits record in SuiteScript, see the help topic [Deposit](#).

You can access this record at Transactions > Bank > Make Deposits. For more information on deposits, see the help topic [Deposits](#).

Customer Relationship Management (CRM)

NetSuite 2018.1 includes the following enhancement to CRM features:


Customer Record Shared with Multiple Subsidiaries

If you use NetSuite OneWorld, prior to 2018.1 you could assign a customer record to a single subsidiary. The Multi-Subsidiary Customer feature permits you to share a customer or sub-customer

record with multiple subsidiaries. Then you can select any of those subsidiaries on core transactions created for that customer. The primary subsidiary assigned to a customer is selected by default on any transactions involving that customer. You can also associate transactions with any secondary subsidiary assigned to the customer. The subsidiary you select on transactions is maintained throughout the transaction workflow. For example, when you select a subsidiary on a sales order, that subsidiary appears on the subsequent invoice.

The Multi-Subsidiary Customer feature enables you to save a multi-subsidiary customer as a multi-subsidiary vendor to create a single entity of multiple types. Single-entity records are useful when you want to have one entity represent both a customer and a vendor.

The Multi-Subsidiary Customer feature also enables you to view a multi-subsidiary customer's hierarchy (primary subsidiary, any assigned secondary subsidiary, and any subcustomer) at Lists > Relationships > Customers.

 **Note:** The subsidiaries you can view are based on your permissions.

The Multi-Subsidiary Customer feature also enables you to view the following:

- Customer balance information on the customer record
- Secondary subsidiary information on core reports
- Customer Statement by currency and by subsidiary



Important: You can define multiple secondary subsidiaries through the user interface and SuiteScript. To define secondary subsidiaries in SuiteScript, use the [Customer-Subsidiary Relationship](#) record type. It is not yet possible to define secondary subsidiaries through CSV import.

If you have shared multiple subsidiaries with a vendor record, you can share a customer record that is also paired with a vendor record. Such pairings display on the Relationships subtab on the customer record.

To use SuiteScript to define secondary subsidiaries on a vendor record, use the [Vendor-Subsidiary Relationship](#) record type.

For details about the Multi-Subsidiary Customer feature, see the help topic [Assigning Subsidiaries to a Customer](#).

Employee Management

NetSuite 2018.1 includes the following enhancement to Employee Management features:

- Executing Scripted Employee Searches from the Employee Center
- Help Center Enhancements
- News Items and the Company News Portlet
- Employee Center Dashboard Publishing Feature
- Employee Self-Service for Direct Deposit Banking Information
- Weekly Timesheet User Interface
- Copy Service Item Memo Preference
- Time Exception Report Enhancements
- Expense Item Record Customization

- Advanced Employee Permissions Enhancements
- Workforce Analytics Enhancements
- Time-Off Management Enhancements
- SuitePeople Effective Dating Enhancements
- Employee Directory & Org Browser Enhancements
- Onboarding Checklist SuiteApp

Executing Scripted Employee Searches from the Employee Center

As of 2018.1, employee data searches run through scripts by Employee Center users has been enhanced to protect unauthorized access to employee data. The employee data returned when Employee Center users run a search containing employee data, either as part of an employee record search, or a joined record search, is limited to employee fields that the user running the search has permission to access. This limitation is the intended behavior of employee searches. For more information, see the help topics [NetSuite Permissions Overview](#) and [Permissions for Searches](#). See also [Change to Scripted Employee Searches from Employee Center](#).

Help Center Enhancements

The Help Center now includes a [Videos](#) section that gives you direct access to SuitePeople Core HR help videos. To access the Videos section, click Additional Resources > Videos in the Help Center table of contents.

The following SuitePeople Core HR help videos are available:

-  [Using the Compensation Tracking Feature](#)
-  [Creating Time-Off Types](#)
-  [Creating Time-Off Plans](#)
-  [Creating Time-Off Rules](#)
-  [Assigning a Time-Off Plan](#)
-  [Reviewing Time-Off Requests](#)
-  [Requesting Time-Off](#)

News Items and the Company News Portlet

The news items record and the Company News portlet are new in NetSuite 2018.1. The portlet appears on the Employee Center home page if the Employee Center Dashboard Publishing feature is enabled (see [Employee Center Dashboard Publishing Feature](#)). The Company News portlet displays the five most recent news items, which are created by users who have the News Items permission. By default, the CPO – Chief People Officer and the Human Resources Generalist roles are assigned the News Items permission.

News items can be location-specific. For example, you can specify that a news item appears only for employees who are located in the United States.

You can also specify that a news item appears only for managers. In this case, managers can find manager-only news items on the Manager view of their Employee Center home page.

For more information, see the help topic [News Items](#).

Employee Center Dashboard Publishing Feature

If you use SuitePeople, you now have access to the Employee Center Dashboard Publishing feature. When enabled, this feature includes the following:

- **Employee Publishing global permission** – Users who are assigned this global permission can publish a standard Employee Center dashboard for all Employee Center users in their organization. All Employee Center users see the same layout and the same portlets when they log in to NetSuite with their Employee Center role. More information about publishing a standard Employee Center dashboard is available in the Employee Center help.
- **News Items permission** – News items appear on the Company News portlet on the Employee Center dashboard. Users who are assigned roles with the News Items permission can create News Item records. For more information, see [News Items and the Company News Portlet](#).
- **Employee and Manager dashboards in the Employee Center** – After a standard dashboard is published, Employee Center users who are supervisors or managers see two views in the Employee Center:
 - The Employee dashboard is used to book time off for yourself, enter your own expense reports, and keep track of your contacts, for example.
 - The Manager dashboard presents information about your employees and enables you to approve requests from your employees.

More information about employee and manager views is available in the Employee Center help.

For more information, see the help topic [Employee Center Dashboard Publishing](#).

Employee Self-Service for Direct Deposit Banking Information

If you are using NetSuite Payroll to pay employees in the United States, a new preference permits your employees to update their net bank account for direct deposit in the Employee Center. If an employee has more than one bank account for direct deposit (for example, \$100 from each paycheck is deposited into a savings account), the net account is the account into which the balance of the paycheck is deposited.

You can set this preference by going to Setup > Payroll > Set Up Payroll and checking the **Employees Can Edit Banking Information** box. Employees can then update their banking information on the Edit Profile page in the Employee Center.

After employees update their banking information, both the employee and the payroll administrator receive email notifications from NetSuite. To ensure changes take effect, payroll administrators must update payroll information.



Important: The email address for the payroll administrator is the address specified in the Payroll Issues Alert Email Address field on the Payroll Setup page (Setup > Payroll > Setup Payroll). Before using this feature, make sure that this email address is accurate and that messages from NetSuite are not filtered or blocked.

For more information, see the help topic [Allowing Employees to Set Up and Edit Their Banking Information for Direct Deposit](#).

Weekly Timesheet User Interface

In 2018.1, the Weekly Timesheet page has been updated to include several enhancements to the user interface. The top of each column will display the total hours for each day.

- Column headers are now fixed at the top of the line items so that they are visible at all times and they display the total hours for each day.
- Time entries are also now fixed on the screen. You can side scroll to see other information about each line but the time entries will remain visible.
- You can now add a memo to a single time entry with a customizable popup window that is saved automatically when you click away from the window. For saved time, the popup window also includes a Time Details link that opens the individual time entry in a new window. A memo icon appears in the corner of each time entry that has a memo.
- Approvers can now approve or reject single time entries from the popup window on the weekly timesheet.
- The Copy From Week and Import Planned Time buttons have been relocated to the Enter Time subtab.
- The Time Details subtab has been replaced by a Planned Time subtab. The Planned Time subtab shows any upcoming planned project time entries.
- You can now scroll through timesheets more easily by clicking the arrows on either side of the Week Of field.

To enable the new interface for Weekly Timesheets, go to Setup > Company > Enable Features > Employees. Check the New Weekly Timesheets Interface box, and click Save. After the feature is enabled, all users with timesheet permissions will use the new user interface.

For more information, see the help topic [Weekly Timesheets Interface](#).

Copy Service Item Memo Preference

A new preference is available to turn off automatically copying service item descriptions to the memo field when tracking time. Previously, service item descriptions were always copied to the memo field when tracking time. This could sometimes result in custom memos being overwritten if a service item was changed on an existing time transaction. You can set this preference at Setup > Accounting > Accounting Preferences on the Time & Expenses subtab. Under Time Tracking, check the **Copy Service Item Description to Time Memo** box to automatically copy service item descriptions when entering time. Clear the box to remove the link between service item descriptions and time memo fields.

For more information, see the help topic [Weekly Timesheets Interface](#).

Time Exception Report Enhancements

The Time Entry Exception Report now accounts for the hire and release dates when computing work calendar hours. Any standard or custom reports displaying available hours now use the same values as the Time Entry Exception Report so available hours are reported consistently.

For more information see, [Time Entry Exceptions Report](#).

Expense Item Record Customization

In 2018.1, you can add custom fields and custom child records to expense item records. For more information, see the help topics [Expense Reporting](#), [Custom Fields](#), and [Parent-Child Record Relationships](#).

Advanced Employee Permissions Enhancements

The Employee Self permission has been added so that employees can see relevant information about themselves in the Employee Center. To access this information from Employee Center, click **My Information > My Profile** from the Home Links portlet. For more information, see the help topic [Employee Self Permission Overview](#).

The self restriction on the Employee Confidential permission has been removed and is now included with the Employee Self permission. The hard-coded restriction for the Employee Confidential permission still includes subordinates and below only. For more information, see the help topic [Employee Confidential Permission Overview](#).

Adding custom fields and sublists is now supported when creating custom employee permissions. For more information, see the help topics [Creating Custom Fields for Custom Advanced Employee Permissions](#) and [Creating Custom Sublists for Custom Advanced Employee Permissions](#).

Workforce Analytics Enhancements

In 2018.1, the SuitePeople Workforce Analytics feature introduces the headcount analysis and turnover analysis snapshot views. These snapshot views let you compare various headcount and turnover statistics between different segments, such as departments and locations. Each snapshot view is available for the current and the most recent calendar quarters.

- **Headcount Analysis Snapshot views** – There are two headcount analysis snapshot views. The Hires and Turnovers Snapshot view lets you compare the hiring and turnover numbers and percentages between the different segments in your company. The Gender Snapshot view lets you see the numbers and percentages of employee gender distribution for the selected segments. To access the headcount analysis snapshot views, go to **Reports > Employees/HR > Headcount Analysis**, and click the quarter that you want to view from the top of the page. For more information, see *Headcount Analysis Snapshot Views*.
- **Turnover Analysis Snapshot views** – There are three turnover analysis snapshot views. The Hires and Turnovers Snapshot view lets you see employee changes for the selected quarter. The Gender Snapshot lets you compare the gender distribution of employees in your company to the gender distribution of terminated employees, for different segments in your company. The Turnover Types Snapshot view breaks down the turnovers in your company by type, such as voluntary-regretted. To access the turnover analysis snapshot views, go to **Reports > Employees/HR > Turnover Analysis**, and click the quarter that you want to view from the top of the page. For more information, see *Turnover Analysis Snapshot Views*.

Time-Off Management Enhancements

If you use the SuitePeople Time-Off Management feature, you can now cancel future dated pending and approved time-off requests through the Employee Center. To cancel a pending or approved time-off request, click **Requests** from the Time-Off portlet, select the time-off request, and click **Cancel Request**. If you are using timesheets, approved time-off requests that are associated with a locked timesheet cannot be canceled. For more information, see the help topic [Canceling Time-Off Requests](#).

SuitePeople Effective Dating Enhancements

Previously, when you used the SuitePeople Effective Dating feature to make effective-dated changes that conflict with changes that had already been entered, NetSuite displayed those conflicts. After viewing them, you decided whether to accept all of the conflicts caused by your change, thereby

overriding the other changes. If you rejected your changes, the employee record was left as it was before you edited it. In NetSuite 2018.1, you can now resolve each of those individual conflicts one by one rather than accept or reject your entire change. For more information, see the help topic [Searching for Effective-Dated Changes to the Employee Record](#).

Inventory Management

NetSuite 2018.1 includes the following enhancement to Inventory Management features:

- [Inventory Status](#)
- [Supply Chain Control Tower](#)
- [Cross-Subsidiary Fulfillment](#)
- [Support for Duplicate Bin Names Across Locations](#)
- [NetSuite WMS Enhancements](#)
- [Quality Management](#)
- [Supply Chain Management Enhancements](#)

Inventory Status

The Inventory Status feature enables you to associate attributes to items for detailed tracking of inventory and to drive internal processes. By creating inventory status records, you can assign a status to quantities of an item and track that item's available inventory by status. For example, you can create an Inspection status for items that are pending quality control inspection.

You can also control the sale of specific inventory by choosing whether to make inventory associated with each status available to be allocated to orders. For example, you can create a Damaged status to associate with items that should not be sold. Clear the Make Inventory Available box on the Damaged inventory status record to prevent items with that status from being sold.



Important: The Make Inventory Available setting does not apply to items on drop shipments and special order purchases. Items with an unavailable status can be allocated to sales orders marked as drop shipments or special orders. You can also receive unavailable items on the associated purchase order created from a drop shipment or special order sales order. For more information on drop shipments and special orders, see *Drop Shipments and Special Order Purchases*.

To enable the Inventory Status feature, go to Setup > Company > Enable Features and click the Items & Inventory tab. You must first enable the Advanced Bin/Numbered Inventory Management and Multi-Location Inventory features on the same page.

For more information, see the help topic [Inventory Status](#).

New Inventory Detail Searches

The Inventory Status feature includes new associated Inventory Detail searches that add an Inventory Status column. When the Inventory Status feature is enabled, the current searches on the Inventory Detail subtab on item records are replaced with these new searches:

- [Inventory Number/Status On Hand](#)
- [Inventory Detail On Hand](#)
- [Bin/Status On Hand](#)

If you enable the Inventory Status feature, the searches on the Inventory Detail subtab on item records are updated as follows, depending on the item record type:

Item Record Type	Inventory Status Disabled	Inventory Status Enabled
Lot numbered or serialized item that uses bins	Bin/Inventory Number On Hand	Inventory Detail On Hand
Lot numbered or serialized item that does not use bins	Inventory Number On Hand	Inventory Number/Status On Hand
Inventory item that uses bins	Bin On Hand	Bin/Status On Hand

Existing searches are no longer used on the item record's Inventory Detail subtab after the Inventory Status feature is enabled. Any customizations made to those searches do not appear there.

For example, consider you have customized the Bin/Inventory Number On Hand search to add a custom column. After you enable the Inventory Status feature, that column does not appear on the Inventory Detail subtab on item records.

If you enable the Inventory Status feature, you should customize the new searches to add columns you want to appear on the Inventory Detail subtab.

Updated Quantity Column and New Item Count Column

Previously, the Quantity column on the Inventory Detail search results page showed positive or negative values. If the associated transaction added to your stocked inventory, the Quantity column showed positive values. If the associated transaction deducted from your stocked inventory, the Quantity column showed negative values. As of NetSuite 2018.1, the Quantity column shows absolute values, regardless of the positive or negative impact to your inventory.

A new Item Count column appears in the Inventory Detail search results. This new column shows positive or negative values, depending on whether the associated transaction added to or deducted from your inventory. For example, a line item associated with an item receipt will appear as a positive value. A line item associated with an item fulfillment appears as a negative value.

If you are using the values in the Quantity column, you may have to adjust your reporting to account for the new search result column values. If you want to report the absolute impact to your inventory, you can use the Quantity column values. If you want to report the positive or negative impact to your inventory, you can use the Item Count column values. If you use SuiteScript to reference the Quantity column, you may need to update your scripts to reference the new Item Count column. The field id for Item Count is `itemcount`.

Current Inventory Status Report Renamed to Current Inventory Snapshot Report

To avoid confusion with the new Inventory Status feature and its purpose, the Current Inventory Status report has been renamed. The report otherwise remains unchanged and continues to show the same information as in previous releases. For more information on the report's contents, see the help topic [Current Inventory Snapshot Report](#). The report is available at Reports > Inventory/Items > Current Inventory Snapshot.

Supply Chain Control Tower

The Supply Chain Control Tower feature enables you to analyze and simulate inventory supply and demand across your supply chain. This helps identify when supply is not in line with demand or

planned levels. A thorough understanding of your inventory levels, supply, and demand helps you efficiently analyze and plan purchases and future inventory production.

To enable the Supply Chain Control Tower feature, go to Setup > Company > Enable Features and click the Items & Inventory subtab. The Supply Chain Control Tower feature is available only when the Inventory feature and Multi-Location Inventory feature are enabled in NetSuite OneWorld.

If item record and location restrictions apply to users in your account based on their assigned role, those restrictions will continue to apply when accessing inventory information using this feature.

When the Supply Chain Control Tower feature is enabled, snapshot forecasting simulations can be performed for Inventory items and Assembly/Bill of Materials items, including lot numbered and serial numbered items. When you view an item record, click the Supply Chain Snapshot button in the header to perform a simulation. On the Supply Chain Snapshot form, click Refresh to view the latest updates.

When using the Supply Chain Control Tower feature, the accounting preference Create Work Order in Supply Planning can use any selection except Do Not Generate.

Set inventory management preferences for the Supply Chain Past Order Horizon and Supply Chain Future Horizon to determine the time horizon range. On location records, check the Include in Control Tower box to allow the location to show in snapshots.

Cross-Subsidiary Fulfillment

The new Intercompany Cross-Subsidiary Fulfillment feature in NetSuite OneWorld enables you to fulfill a single sales order from locations across multiple subsidiaries. Orders are no longer limited to being fulfilled from locations within the originating subsidiary.

For example, you might have a central order administration in your U.S. subsidiary that manages order placement and sales for the entire company and distribution centers in many subsidiaries. Orders placed in the purchasing subsidiary might best be fulfilled using inventory from locations in other subsidiaries to reduce shipping costs. When each sales order is entered, individual lines on the order can be assigned to a specified subsidiary for fulfillment. Then, each line item on the sale can be fulfilled and shipped from individual subsidiaries. Finally, an invoice for the order is generated from the originating central order administration to send to the customer.

Using the Intercompany Cross-Subsidiary Fulfillment feature can reduce your need to enter and process drop ship orders or intercompany transfer orders to get inventory where it needs to be. You can fulfill orders using inventory from multiple subsidiaries by creating Global Inventory Relationship records that define where to source inventory.

You can also create a return material authorization (RMA) associated with one subsidiary and receive the RMA line items in one or more locations in other subsidiaries.

To enable the Intercompany Cross-Subsidiary Fulfillment feature, go to Setup > Company > Enable Features and click the Items & Inventory subtab. You must also enable the Advanced Shipping and Multi-Location Inventory features on the same page.



Important: The Intercompany Cross-Subsidiary Fulfillment feature is currently not compatible with these SuiteApps: NetSuite Warehouse Management System (WMS), NetSuite Warehouse Management System (WMS) Advanced. If you enable this feature, errors might occur when you process inventory using one of these SuiteApps. You are **strongly advised** not to enable the Intercompany Cross-Subsidiary Fulfillment feature if your account uses NetSuite Warehouse Management System (WMS) or NetSuite Warehouse Management System (WMS) Advanced as this may cause errors during inventory processing.

For more information, see the help topic [Intercompany Cross-Subsidiary Fulfillment](#).

Intercompany Cross-Subsidiary Fulfillment and Custom Scripting

If you fulfill or receive items, the Intercompany Cross-Subsidiary Fulfillment feature may impact workflows or custom scripts run in your account. The Intercompany Cross-Subsidiary Fulfillment feature uses the Inventory Location field instead of Location.

When you enable the Intercompany Cross-Subsidiary Fulfillment feature, sales and returns can be processed across more than one subsidiary. A sales order displays the Allow Cross-Subsidiary Fulfillment preference and a return materials authorization (RMA) displays the Allow Cross-Subsidiary Customer Return preference. If you enable this preference on either form, then the fulfillment or return is processed based on a new field called Inventory Location, not the Location field which was previously used.

If you do not update workflows or custom scripts to reference the new Inventory Location field instead of the old Location field, the fulfillments and receipts generated will use an incorrect location.

In order to properly generate transactions, your workflows or custom scripts should be modified to utilize the new Inventory Location field instead of the old Location field when you enable Intercompany Cross-Subsidiary Fulfillment feature. This applies to sales orders using the Allow Cross-Subsidiary Fulfillment preference and return materials authorizations (RMAs) using the Allow Cross-Subsidiary Customer Return preference.

For more information, read the help topic [Intercompany Cross-Subsidiary Fulfillment](#).

Order Fulfillment Changes Related to Cross-Subsidiary Fulfillment

Enabling the Intercompany Cross-Subsidiary Fulfillment feature in NetSuite 2018.1 introduces the following order management changes:

- With the **Automatic Location Assignment** feature enabled, you can assign fulfillment locations automatically from other subsidiaries. On the automatic location assignment rule record, check the Allow Locations From Other Subsidiaries box to assign locations from other subsidiaries. You can select individual locations from the subsidiaries as required.
- When the Intercompany Cross-Subsidiary Fulfillment feature is enabled, the following order management features rely on the inventory location field instead of the location field.
 - **Store Pickup** – Use the Inventory Location column to specify a store pickup location.
 - **Fulfillment Request** – The fulfillment request record uses the inventory location from the sales order as the fulfillment location.

Support for Duplicate Bin Names Across Locations

NetSuite 2018.1 adds support for duplicate bin numbers across locations. Prior to this release, if you used the Multi-Location Inventory feature, you could not save a bin record if a bin with the same number existed at another location.

Manufacturing


NetSuite 2018.1 includes the following enhancement to Manufacturing features:

- [Linking Routings to Legacy BOMs](#)

- Copying Manufacturing Routing Records
- Updating BOM Revision Record Dates
- Linking Assemblies to BOM Records
- Customizing BOM Revision Component Sublists
- Web Services Enhancements
- Subsidiary Currency
- Advanced Manufacturing

Linking Routings to Legacy BOMs

Enabling Advanced Bill of Materials (BOM) automatically links existing routings to corresponding legacy BOMs. NetSuite saves a copy of the link between the routing and the assembly, in case Advanced BOM is disabled. When Advanced BOM is disabled, the routing is linked to the assembly record.

 **Note:** After Advanced BOM is enabled, the “Assembly/Bill of Materials” label changes to “Assembly” on the New Item, Assembly Item, and Saved Search forms.

Copying Manufacturing Routing Records

In 2018.1, you can manually copy an existing manufacturing routing record and then reuse it with a new BOM. Reusing existing routings saves time, leverages existing processes, and avoids manual copy errors. For example, a company manufactures bicycles in their Denver location using the BOM U.S. Routing. The company is so successful that it starts manufacturing bicycles at their Ontario location. By copying the U.S. Routing and renaming it to BOM ON, the Ontario location can follow the same manufacturing process using the new BOM.

To copy a manufacturing routing, select Make Copy from the Actions menu on the existing manufacturing routing record you want to copy. To access existing manufacturing routings, go to Lists > Supply Chain > Manufacturing Routing.

Updating BOM Revision Record Dates

Advanced Bill of Materials does not allow BOM revision dates on the same BOM to overlap. A current BOM revision must end before a new BOM revision starts. If revision dates were to overlap, the system could not identify which revision to select.

Previously, you could not save a new BOM revision when the current revision did not have a defined Effective End Date. To set the current revision end date when you had started to create a new revision, you had to cancel the new revision (losing all information), update the current revision Effective End Date, and then create a new revision.

NetSuite 2018.1 enables you to update the current revision Effective End Date without losing the work done on a new revision. After you try to save a new BOM revision when the current revision Effective End Date is not defined, NetSuite displays the following message: “Effective End Date of the previous revision is not set. Do you want it to be set to the current Effective Start Date minus one day?” When you click OK, the system automatically sets the date and saves your revision.

For example, BOM Revision 1 was created without an Effective End Date. BOM Revision 2 is created with an Effective Start Date of February 25, 2018. Attempting to save BOM Revision 2 prompts NetSuite displays the message Effective End Date message. Click OK in the message box to automatically set the

Effective End Date for BOM Revision 1 to February 24, 2018 (one day sooner than February 25, 2018) and save BOM Revision 2.

Linking Assemblies to BOM Records

With NetSuite 2018.1, after you create a Bill of Materials (BOM) record, you can link it to one or more assemblies. All assemblies linked to the BOM are displayed on the Assemblies tab of the BOM record.

From the BOM record, you can then assign the same default assembly record validation (master default or location-specific default) to the BOM. For example, you can set one BOM as the master default for the assembly, and then set a second BOM as the East Coast location default. A BOM cannot be both the master and a location-specific default. They must be assigned to separate BOMs.

For more information, see the help topic [Default BOM Workflow](#).

Customizing BOM Revision Component Sublists

You can now customize the Bill Of Materials Revision sublist to add sublist fields, show or hide fields, change the field label, and rearrange the order of the columns.

A new Other Sublist Fields menu item is now available on the Lists, Records, & Fields menu for administrators and users with the Other Record Fields permission. This menu item is only available when Advanced Bill of Materials is enabled.

After you create a custom sublist field, it is displayed on the Components tab of the BOM Revision. However, the BOM Revision component sublist information is not automatically added to the work order.

After a BOM revision is selected on the Work Order, NetSuite then retrieves a list of components related to the BOM revision and displays custom field information on the work order Items subtab.

Web Services Enhancements

2018.1 exposes BOM and BOM revision records to Web Services. This integration of NetSuite and partner solutions enables customers and partners to create and update BOMs and BOM revisions from external sources. For example, Product Lifecycle Management (PLM) apps. For more information, see the help topic [SuiteTalk \(Web Services\)](#).

Subsidiary Currency

Companies operating in multiple countries can now convert item costs entered on an item record in the parent subsidiary to the transaction subsidiary foreign currency.

Prior to 2018.1, NetSuite Manufacturing did not recognize transactions posted to a company subsidiary in a currency that was different from the company base currency.

This issue occurred on transactions that used some of the following items as components:

- Service (for purchase or resale)
- Non-inventory (for purchase or resale)
- Other charges (for purchase or resale)

These transaction items have the following configuration:

- A preferred vendor is not defined

- Purchase price was set assuming that this currency is different than the company base currency
 For example, an item is setup in the European subsidiary. The Purchase Price entry assumes that the currency is Euros, but the base price is US dollars.
 Prior to 2018.1 when an item purchase price was set to 10, the Assembly Build transaction posts 10 to both subsidiaries, regardless of currency. The result is a \$10.00 USD expense to the US subsidiary and €10 Euro expense to the European subsidiary.

The following steps will help correct existing data issues:

1. To prevent incorrect item setup, currency information is included on the item form. Default currency appears in the Accounting tab. This form can be customized to move the Currency field from the Accounting tab next to Purchase Price.
 This change was made in the June 21, 2018 e-fix.
2. To correct existing items (service, non-inventory, and other charges) with no default vendor, where the purchase price was set, and the subsidiary currency differs from the company base currency, the following options are available:
 - Set the item's preferred vendor. The vendor's default currency can be different than the company base currency. This enables the Purchase Price field to display the expected currency.
 - Set the item purchase price in the company base currency.



Note: correct postings are related to values in the purchase price field. Manufacturing transactions do not work with the Multi-Currency Vendor feature.

3. To fix affected transactions (assembly build and unbuild, work order issues/completion/close), create journal entries to correct accounting imbalances.

If the recommended actions do not fix your issue, you can create a support case asking NetSuite to help you to identify problem items or affected transactions. However, this will take significant time to support every customer case.

Mobile

NetSuite for iOS 7.1 and NetSuite for Android 6.1 includes the following enhancements:

- [Mobile Access to NetSuite Sandbox](#)
- [Time Entry Approvals](#)
- [Create New Time Entries \(iOS\)](#)
- [Support for SAML Single Sign-On](#)

Mobile Access to NetSuite Sandbox

Mobile users are now able to log in to their sandbox account from the NetSuite app. Both iOS and Android platforms are supported. An administrator must first add mobile device access to the sandbox role in the desktop version of NetSuite. This support is in conjunction with the transition of sandbox accounts to the NetSuite domain used by production accounts, instead of a separate sandbox domain.

When switching between sandbox and production roles, you are prompted with a confirmation dialog. To avoid confusion between your environments, a permanent banner at the top of the screen is displayed in the app when working in the sandbox environment.

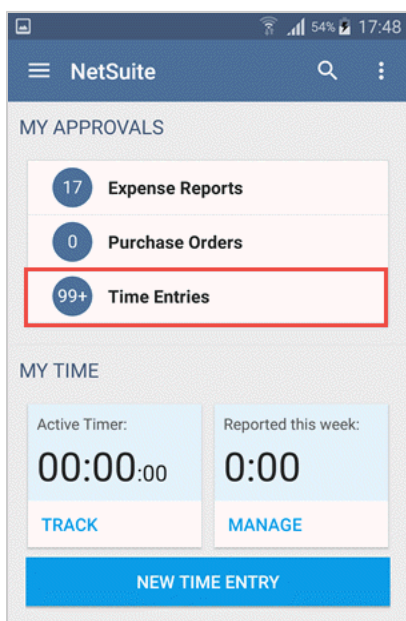
For information about this transition, see the help topic [FAQ: Sandbox Transition](#).

In addition to sandbox accounts, the app also supports release preview accounts. When selecting a role which has been assigned release preview access, the banner text will change to Release Preview.

For more information on release preview accounts, see the help topic [Accessing Your Release Preview Account](#).

Time Entry Approvals

Managers can now approve time transactions from the My Approvals portlet.



A running count of pending approvals is provided on the home screen portlet. Tapping this number opens the approvals screen from which individual or bulk approval of time entries can be managed. On Android devices, the approval of individual time entries is done by tapping the overflow menu and selecting Approve. On iOS, by swiping on an entry to reveal the Approve button.

Tapping the individual time entry opens the relevant NetSuite record allowing managers to view the details of each time entry.

For more information, see the help topics [The Approvals Portlet](#) and [The Approvals Portlet in NetSuite for Android](#).

Support for SAML Single Sign-On

Targeted for release in April 2018, NetSuite for iOS 7.2 and NetSuite for Android 7.0 adds support for the [SAML Single Sign-on](#) feature in NetSuite. Mobile users can log in to the app using the Company SSO section found on the app's login page. Before using Company SSO for the first time, users should ask an administrator to:

- Add mobile device access to any SAML role you want to access from the app. See the help topic [Mobile Device Access Permission](#)
- Forward you the NetSuite Account ID for your company. This is required the first time you use SSO.

Administrators: Go to: Setup > Company > Company Information and copy the number in the Account ID field.

- Confirm your NetSuite account has been upgraded to NetSuite 2018.1

Users will automatically be directed to the Company SSO login screen the next time they log in to the app. Switching the Remember Me switch in Company SSO redirects you to the Identity Provider's log in screen, by-passing an extra step in the login process.

Order Management

NetSuite 2018.1 includes the following enhancements to order management features:

- Billing Schedule Frequency
- SuiteBilling End Date Alignment
- SuiteBilling Time-Based Pricing
- Business Events Processing Saved Search
- Customizable Fulfillment Exception Reasons
- SuitePromotions Automatically Add Free Gift
- Landed Cost Added to Inbound Shipment Management
- Billing Operations Enhancements
- Disabling the Pick, Pack, and Ship Feature
- Electronic Invoicing Enhancements
- Multi-Language Support for Electronic Bank Payments
- Deprecation of XML-based Payment Template Generator
- Recurring Billing Enhancements
- Grid Order Management Enhancements

Billing Schedule Frequency

A new frequency of four (4) months has been added to the Repeat Every field for Billing Schedules. For more information on Billing Schedules, see the help topic [Billing Schedules](#).

SuiteBilling End Date Alignment

This feature enables you to specify subscription term boundaries at the subscription-level. This results in the alignment of end dates for all subscription lines across the subscription, regardless of when individual lines are activated. For more information, refer to [End Date Alignment](#).

SuiteBilling Time-Based Pricing

Time-based pricing, also referred to as interval pricing, supports pricing models that include planned pricing changes over time. Examples include free trials, ramp pricing, and introductory pricing. At the line level and across the subscription, time-based pricing ties intervals to time at the subscription level. For more information, see the help topic [Time-Based Pricing](#).

Business Events Processing Saved Search

A new saved search is available in NetSuite 2018.1 for business events. You can use the business events processing saved search to view reports about the number and type of events that occur in your account. Additional information, such as the status of the events and the event handlers called, can also be included in the saved search.

The business events processing saved search becomes available when you enable one of the following features in your account:

- Automatic Location Assignment (requires the Advanced Order Management add-on module)
- Fulfillment Request (requires the Advanced Order Management add-on module)
- Time-Off Management

Customizable Fulfillment Exception Reasons

In NetSuite 2018.1, you can create custom fulfillment exception reasons when entering exceptions on a fulfillment request record.

Prior to 2018.1, fulfillment exception reasons on the fulfillment request record were predefined and read-only. If you enabled the Fulfillment Request feature before 2018.1, those predefined reasons continue to appear as fulfillment exception reasons in NetSuite 2018.1.

All exception reasons in 2018.1 can be edited. Exception reasons can also be deleted, provided they are not associated with another record. For more information, see the help topic [Defining Fulfillment Exception Reasons](#).

SuitePromotions Automatically Add Free Gift

If you use SuitePromotions, the Automatically Add Free Gift feature lets you create a promotion that offers an item for free. Furthermore, when the promotion is applied to an eligible transaction, the free gift is automatically added to the order.

Previous to 2018.1 promotions that offered items for free were supported, however, those items had to be manually added to the order.

Automatically Add Free Gift ensures free gift promotions are conveniently included in any qualifying transaction. This saves the shopper and the merchant valuable time and improves the user experience.

Parent-matrix items are currently not supported with the Automatically Add Free Gift feature and cannot be offered as the free gift.

For more information, see the help topic [Creating Free Gift Promotions](#).

Landed Cost Added to Inbound Shipment Management

Customers who use the inbound shipment management feature can now associate landed costs at the shipment level. Previously, to calculate shipment level landed costs you had to calculate these values outside of NetSuite and manually update individual item receipts. ISM landed costs completely automates this task.

Key features:

- Support for multiple-currency landed cost entries
- Allocation of landed cost to a specific item or to all items on a shipment

- Greater visibility of expected landed costs prior to receipt of goods
- Supports Suitescript, allowing provision of custom calculations and rules

To assign a landed cost to an item on an inbound shipment record, go to the new Landed Costs subtab.

ITEMS	COST CATEGORY	AMOUNT	CURRENCY	EXCHANGE RATE	EFFECTIVE DATE	ALLOCATION METHOD
PO#1 Import Item 1, PO#1 Import Item 2	Freight	1,000.00	US Dollar	1.00	11/10/2017	Quantity
PO#1 Import Item 1 PO#1 Import Item 2	Duty	20.00	US Dollar	1.00	11/10/2017	Value

Billing Operations Enhancements

Following are 2018.1 billing operations enhancements:

- Time Zone Enhancements
- Next Bill Run As Of Date

Time Zone Enhancements

When scheduling billing operations, the database maintenance time zone is used, regardless of where the user is located. On the Billing Operations page, in-line text indicates when the bill run will occur in the database maintenance time zone. The user's time zone appears next to the Next/Date field to provide a clear understanding of when the bill run is being scheduled. An ad hoc bill run occurs in the user's time zone. For more information and an image of the Schedule Billing Operations page, see the help topic [Billing Operations](#).

Next Bill Run As Of Date

The Next Bill Run As Of Date field replaces the Offset field. This field indicates the date until which charges are included in the bill run. For example, you are scheduling a bill run to occur on January 15, but you want to bill charges through the end of the month. The date in the Next Bill Run As Of Date field would be 1/31/YYYY. For more information, see the help topic [Billing Operations](#).

Disabling the Pick, Pack, and Ship Feature

As of NetSuite 2018.1, you cannot disable the Pick, Pack, and Ship feature when one or more item fulfillment records exist with a Picked or Packed status. To disable the feature, you must first move item fulfillments to the Shipped status or delete them.

Projects

NetSuite 2018.1 includes the following enhancements to Projects features:

- Advanced Project Profitability
- Delete Last Version of Billing Rate Card
- Project Time Approval Enhancements
- Sourcing for Time-Based Project Billing Rules
- Resource Allocation Chart/Grid Filters

Advanced Project Profitability

In NetSuite 2018.1, the Advanced Project Profitability feature gives you access to an enhanced project profitability report based on items and accounts. Previously, the project profitability report was based on transactions associated with your project.

Advanced Project Profitability enables you to group items and accounts to populate report rows and columns respectively. You can create custom mappings to determine where both committed and actual costs and revenue appear in your report. You can see the impact of transactions sooner by including planned time, purchase orders, and sales orders. Advanced Project Profitability also updates the P&L subtab of project records. The Project Management feature is required to enable Advanced Project Profitability.

For more information, see the help topic [Advanced Project Profitability](#).

Delete Last Version of Billing Rate Card

In NetSuite 2018.1, you can delete the last version of a billing rate card from the Actions menu. Delete Last Version is available in the Actions menu on the last version in both edit and view mode when there is more than one version of a billing rate card. To delete the last version of a billing rate card, under Actions, click Delete Last Version. A window opens where you can enter a reason for deleting this version of the rate card. Click OK. The last version is deleted and details are recorded in the System Notes.

For more information on billing rate cards, see the help topic [Using Billing Rate Cards](#).

Project Time Approval Enhancements

Project time approvals are now available at the project level for Time Tracking. Previously, project level preferences were only available if you also used the Weekly Timesheets feature. On the Preferences subtab of the project record, the Time Approval preference enables you to define who can approve time entered for your project.

The following options are available:

- Approve time automatically – Project time is approved automatically when entered.
- Default Time Approver – Project time can be approved only by each employee's supervisor or time approver defined on the employee record.
- Project Time Approver – Project time can be approved only by project resources with project time approval permission defined on the project resource role.
- Project Time Approver or Default Time Approver – Both project time approvers and default time approvers can approve project time. This option is selected by default.

The Time Approval field is also now available using SuiteScript, SuiteTalk, CSV, SuiteAnalytics, mass updating, and SuiteBundler. For more information, see the help topic [Approving Time and Expenses for Projects](#).

Sourcing for Time-Based Project Billing Rules

You can now populate resources on time-based charge rules directly from project tasks. When creating a time-based charge rule, if you use Resources as the rate basis, you can click Copy Resources from Tasks to populate the resource and rate fields directly from the project task assignments or allocations.

For more information about time-based charge rules, see the help topic [Time-Based Charge Rules](#).

Vendors, Purchasing, and Receiving

NetSuite 2018.1 includes the following enhancement to the vendors, purchasing, and receiving features:

Vendor Bill Cancellation Enhancements

Using the Vendor Bills feature with 2018.1, a vendor bill can now be edited when it has a Cancelled status. Prior to 2018.1, a canceled vendor bill could not be edited, copied, nor deleted. Now, when you try to cancel a vendor bill, a popup warning asks you to verify that you want to cancel the vendor bill. After you verify the cancellation, you can edit the vendor bill, but the Cancelled status cannot be changed. Using Edit mode, new lines can be added or the bill can be deleted. Changes made are for reference only, such as adding a memo to indicate why the vendor bill was canceled.

A canceled vendor bill can also be copied and the new copy will also have a Cancelled status. Because the new copy initially appears in Edit mode, the approval status can be changed to Pending Approval or Pending Receipt before you save it for the first time. The approval status is updated when you save the form.

Note that a canceled vendor bill is not applied as being billed against the purchase order. For example, a purchase order is entered for 20 units. When 20 units are received, a vendor bill for 20 units is created, approved, and saved. Then, the purchase order status changes to fully billed. If that vendor bill is later canceled, the purchase order status changes to the appropriate status as if the vendor bill was never entered. Depending on related transactions, the new status could revert to Pending Billing.

Note: Prior to Version 2018.1, when a vendor bill was canceled, all quantities and amounts on the transaction form were cleared. Now, the quantities and amounts are no longer cleared. They are preserved to be referenced or copied.

Taxation

NetSuite 2018.1 includes the following enhancements to taxation features:

- Enhancements to Spain Online VAT Register
- Spain Online VAT Register (Immediate Supply of Information "SII") v.1.1
- Mexico Electronic Accounting File Version 1.3
- Mexico Complementary Trial Balance
- Tax Codes and VAT Return Changes in International Tax Reports

Commerce Applications

The latest version of SuiteCommerce, **Aconcagua**, includes the following enhancements.

- SuiteCommerce
- Themes and Extensions

- Extensibility API and the Extension Framework
- SuiteCommerce Base Theme
- SuiteCommerce Theme Customizer Support
- Documentation Changes
- Copy Configuration
- Intercompany Cross-Subsidiary Fulfillment
- Free Gift Promotion
- Libraries Update
- Standard Header and Footer in Checkout

Complete release notes are available here: [Aconcagua Release of SuiteCommerce](#).

SuiteCommerce Extensions

SuiteCommerce Extensions provide additional functionalities to your SuiteCommerce web store.



Important: SuiteCommerce extensions are only available if they are provisioned and set up in your account. For more information, see the help topic [NetSuite Extensions](#).

Complete release notes are found here: [Extensions Release Notes](#).

SuiteCommerce Help Videos

The help center now includes a [Videos](#) section that gives you direct access to SuiteCommerce help videos.

Available SuiteCommerce videos include:

- Add a Site Management Tools Area to a Template
- Commerce Categories in Site Management Tools
- Configure your Website Search
- Migrating to a New Release of SCA

Site Management Tools

This version of SuiteCommerce Site Management Tools includes the following enhancements:

- Content Visibility Dates
- Landing Page Visibility Dates
- Theme Customizer

Content Visibility Dates

This release introduces a significant change to the way you publish content and the visibility of content on your site. Previously with SMT you had a published and an unpublished version of your site. When you published content it was immediately visible on your site, and publishing applied all of your

unpublished changes to the site. This included edits to existing content, addition of new content, and content deletions.

This release adds content visibility dates, an important new feature to SMT. Now when you add a piece of content to your site, you can set visibility dates for that content. Visibility options include the following:

- Always Visible
- Display at a certain date and time and never expire
- Display at a certain date and time and expire at a certain date and time

Additions and changes to content must still be published, but now you have the ability to selectively publish content and changes. The content is visible based on the visibility options you specify for that content.

Other important and related features include:

- Visibility time line to see upcoming content changes based on the visibility dates
- Preview the site for future date and time
- Include or exclude unpublished content in the site preview

These changes impact users with SMT version 3 and the Kilimanjaro release of SCA. See the help topic [Content Visibility](#).

Landing Page Visibility Dates

Prior to this release of SMT, when you created a landing page, the page was accessible immediately on the site. This release of SMT gives you new options for controlling landing page visibility. Now when you create a landing page, you can specify when that page is visible. Visibility options include the following:

- Always visible
- Visible as of a specific date and time and never expires
- Visible as of a specific date and time and expire on a specific date and time.

Unlike content, landing pages do not require publishing. They display based solely on the visibility options you specify for the page. See the help topic [Landing Page](#).

Theme Customizer

This release of SMT brings you the Theme Customizer which lets you make style changes to pre-defined elements on your site. For example, you might change the size or style of heading fonts, the background color, or the color of links. The elements available for customization must be defined in the theme that is deployed to your SCA site. These customizable elements are defined by the theme developer.

Customizable elements can be defined as **skins**, which are groups of elements designed to let you quickly change the look of your site by applying the skin. A theme can have multiple skins or no skins at all. Skins are not required for defining customizable elements.

The theme customizer is available in SMT only when your site is using a supported version of SCA and when the theme deployed to your site contains customizable elements.

The theme customizer is available only in version 3 of SMT and requires the Aconcagua release of SuiteCommerce Advanced or greater. See the help topic [Theme Customizer](#) for more information.

Commerce Platform

Commerce Platform includes platform capabilities that you can use to build and deploy a more interactive and engaging shopping experience for customers. NetSuite 2018.1 includes the following enhancements:

- Enhanced Search Experience with Search Synonyms
- Enhancements to Sitemap Generator
- Automatic Cache Invalidation with Major Release
- Advance Notice: HTTP2 Compliant Headers
- Improved Performance with Server-Side SASS Compilation
- Monitor Domain Health Using Health Status Indicators
- Shopping Methods for Encrypted Payload Bridging
- Support for Free Gift Promotions in the Commerce API
- Maximum Order Quantity on Items Purchased Online
- Website Specific Customers
- Website Template for Registration Confirmation Email Messages
- Link to Web Site Assistant Tool Deprecated
- CSV Import Supported for Commerce Categories

Enhanced Search Experience with Search Synonyms

Synonyms improve the shopper search experience by enabling them to find items using their own words. Synonyms ensure the search results include the term the shopper searched for and also items associated with the synonymous terms.

For example, you define **trousers** and **pants** as synonyms. Any shopper searching for the term **pants** now gets search results for **pants** and **trousers**.

For more information, see the help topic [Search Synonyms](#).

Enhancements to Sitemap Generator

Release 2018.1, introduces Sitemap Generator enhancements that let you perform the following tasks:

- Schedule automatic sitemap generation – The Sitemap Generator Scheduler enables you to configure the Sitemap Generator to automatically update your sitemap at scheduled time intervals. Scheduling ensures you always have an up-to-date sitemap available for search engines to index.
- Add Site Management Tools (SMT) landing page URLs to the Sitemap – You can now check a box to add SMT landing page URLs to your sitemap. This is in addition to the Homepage URL, Product URLs, Commerce Category and Subcategory URLs that are added by default when you generate a sitemap.

For more information about these enhancements, see the help topic [Sitemap Generator](#).


Automatic Cache Invalidation with Major Release

After a major release, it is advisable to remove outdated data from the CDN cache. Prior to 2018.1, this had to be done manually.

The 2018.1 release introduces changes that automatically invalidate your CDN cache after every major release. This is applicable to all SuiteCommerce and SuiteCommerce Advanced websites that have domains deployed on CDN.

For more information, see the help topic [Automatic Cache Invalidation](#).

Advance Notice: HTTP2 Compliant Headers

 **Note:** The target date for migration to HTTP/2 is April 2018.

NetSuite will soon be migrating to Hypertext Transfer Protocol version 2 (HTTP/2) because it enables a more efficient use of network resources.

The 2018.1 release includes code changes to convert header field names to lowercase prior to their encoding in HTTP/2. This is necessary to support compliance with HTTP/2 because HTTP/2 supports only lowercase headers.

Depending on how you use the `nlobjRequest#getAllHeaders()` method, you may need to update your customized code to be compatible with HTTP/2.

If you use it for enumerating by keys or for any other programmatic purpose, you should do one of the following:

- Use the `getHeader()` method instead of `getAllHeaders()` in your code. The `getHeader()` method has been verified as being compatible with HTTP/2.
- Check and update your code to ensure that it is compatible with HTTP/2, particularly with the lowercase headers returned by `getAllHeaders()`.

You do not need to take any action if you use `nlobjRequest#getAllHeaders()`:

- As part of a SuiteCommerce Advanced (SCA) bundle and do not use it in your customized code.
- For logging or passing to other HTTP requests.

Improved Performance with Server-Side SASS Compilation

Prior to 2018.1, Syntactically Awesome Style Sheet (SASS) was compiled in the developer's browser, which was inefficient and incompatible with the Theme Customizer.

With the upgrade to NetSuite 2018.1, SASS is compiled on the server-side. This change enables editing of SASS variable values in the browser and previewing the changes without recompiling all the source SASS files.

Monitor Domain Health Using Health Status Indicators

The new Domain Health Status feature provides information about the compliance state and status of your configured domains. It conducts health tests to monitor, troubleshoot, and diagnose the root cause of problems related to your domain setup.

The diagnosed issues are segregated into the following three categories:

- Deployment
- DNS record setup

- Domain Certificate status

The Set Up Domains page, which lists all of your domains, now displays a status icon to report each domain's health. View the domain record to see a detailed health status message that describes the problem.

The new Domain Configuration Alert reminder notifies you whenever any of your domains has a problem. To actively monitor your domain health, add the alert reminder to your reminder portlet. For instructions on how to do this, see the help topic [Setting Up Reminders](#).

Shopping Methods for Encrypted Payload Bridging

The Commerce API has two new Shopping methods associated with encrypted payload bridging:

- `getEffectiveShoppingDomain()` — returns the name of the shopping domain associated with the current session.
- `constructDomainBridgingUrl(link)` — lets you convert the link to a domain bridging URL.



Note: Although these methods are available in the 2018.1 release, the encrypted payload bridging feature will not be available until a future release.

Support for Free Gift Promotions in the Commerce API

The new Free Gift Promotion is a SuitePromotions feature that enables you to add free items to eligible transactions. Though it is similar to the existing Buy X, Get Y Promotions, Free Gift Promotion has the advantage that it can be set up to add coupon codes to eligible transactions automatically. The ability to add coupon codes manually to apply the promotion is also available.

The Commerce API has been enhanced with the following changes to accommodate this feature:

- Added a new Order method `getEligibleFreeGiftItems()`, which returns a list of all Free Gift promotions that are currently applied. It also returns the Item IDs of all the free items.
- Added a new Order method `addFreeGiftItem()`, which adds the eligible item to the cart and marks it as a free item.
- Added a new Order method `rejectFreeGiftItem()`, which permits shoppers to reject the free item provided the item is not already in the cart.
- The existing `promocode` JSON object has been extended by adding a new field `promotion_type`. Consequently, the existing Order methods `getAppliedPromotionCode(promocode, fields)`, `getAppliedPromotionCodes(fields)`, and `getFieldValues()` return the type of promotion (if applicable) for the item along with other item attributes.
- The existing `item` JSON object has been extended by adding a new field `freegiftpromotionid`. Consequently, the existing Order method `getFieldValues()` returns the ID of free gift promotion.
- When the Free Gift Promotion is active, the number of free items in the shopping cart can be changed using the `updateItemQuantity()`, `updateItemQuantities()` or `removeItem()` methods. If this is done, the number of free items rejected is calculated. If the shopper later decides to accept more free items, the `getEligibleFreeGiftItems()` order method can be used to retrieve the number of free items rejected. The shopper can then add more free items to the cart up to the maximum number for which the transaction is eligible.

To use the Free Gift Promotion feature, you must enable the SuitePromotions feature as described in [Configuring Promotions](#). This option enables you to create a new Free Gift Promotion and use the promotion on the SuiteCommerce website by manually entering a coupon code.

To apply the promotion on the SuiteCommerce website automatically, in addition to enabling the SuitePromotions feature, you must enable the Auto-Apply Promotions feature as described in [Configuring Promotions](#). You must also enable the Auto-Apply Promotions feature under Promotions on the Shopping subtab of the Website Setup Record. Enabling these features automatically applies the coupon code to eligible transactions, but it does not add the free item to the shopping cart. The free item is added to the shopping cart when the SuiteCommerce Advanced bundle calls the `getEligibleFreeGiftItems()` and `addFreeGiftItem()` methods.

Note: Although the changes are available in the 2018.1 release for use with the Commerce API, the Free Gift Promotion feature will not be available in the SuiteCommerce Advanced Web Stores until the next release of SuiteCommerce Advanced.

Maximum Order Quantity on Items Purchased Online

Prior to release 2018.1, merchants could set only a minimum quantity limit for items purchased online. Now, you can also set a maximum quantity limit on the item record in NetSuite. After you define a maximum quantity, online customers are unable to submit an order unless the quantity of that item meets the maximum quantity limit. If a customer tries to order a quantity of the item greater than the maximum limit you set, a notice is displayed on the website. The customer must change the quantity before submitting the order. This capability is available for Site Builder and SuiteCommerce websites. For more information, read the help topic [Order Quantity](#).

Website Specific Customers

This feature enables merchants who run multiple websites to restrict customer login access to one site. Retailers with multiple brands, and merchants running both a wholesale site and a retail site can restrict customer access to one website over the others. Prior to release 2018.1, customers who registered on one of your websites, had access to all of your websites.

To use customer website assignment capabilities, go to Setup > SuiteCommerce Advanced > Setup Web Site, and check the box next to **Assign New Customers to This Site**. After the box is checked, all customers that register on that website get login access on that website only.

Note: The check box only affects new customers created after your account has been upgraded to 2018.1.

Two new fields were added to the customer record:

- The **Source Web Site** field shows the website on which the customer registered.
- The **Assigned Web Site** field, on the System Information subtab, enables you to change the customer website assignment on individual customer records. You can update customer records in bulk, by performing a mass update. No value in this field means the customer can login to all sites.

Note: The new fields are available on standard customer forms. If you use custom forms, you must customize the form and add the new fields.

Managing Customers

After your NetSuite account is upgraded to release 2018.1, check the **Assign New Customers to This Site** box on the Web Site Setup page to start using this feature. Existing customers are not

automatically assigned to websites. You can assign existing customers to websites by performing a **Customer Web Site Assignment mass update**. To perform the mass update, go to Lists > Mass Update > Mass Updates. Select the website that you want to assign to customers, and then select search criteria to find the customer records you want to change.

You can assign a customer to only one website, not to a subset of your websites. When you enable this feature, customers can establish a customer account only on the website where they register. If a customer signs up on more than one website, then the customer gets access to a customer account for each website, and a separate customer record is created in your NetSuite account. For more information, read the help topic [Assign Customers to Websites](#).

Website Template for Registration Confirmation Email Messages

This feature introduces the capability to send a confirmation email message to online customers after they register on your website. This feature also provides an option for customizing the email message sent to customers. An Administrator or Store Manager can go to Setup > Company > System Email Template. You can select the template category, Web Site Other Notifications, and then customize the Standard Web Site Registration Confirmation email template as needed.

To start sending the Registration Confirmation email message, go to Setup > SuiteCommerce Advanced > Web Site Setup. Click the Email subtab, under the **Other Email** sublist, find the Registration Confirmation section, and then select the system email template you want to send.

The screenshot shows a configuration window titled "Registration Confirmation". It contains the following fields and options:

- ☒ SEND EMAIL
- EMAIL FROM ADDRESS: info@mycompany.com
- ☒ BCC REGISTRATION CONFIRMATION EMAIL
- EMAIL TO: salesmanager@mycompany.com
- SELECT A SYSTEM EMAIL TEMPLATE: Standard Web Site R...ation Confirmation (dropdown menu)

In 2018.1, the default Store Manager role has the following additional permissions and access to the following areas of NetSuite:

- Modify system email templates at Setup > Company > System Email Templates.
- Select a system email template to send as the registration confirmation email at Setup > SuiteCommerce Advanced > Web Site Setup > Email > Other Emails

Note: No changes are applied to custom Store Manager roles created prior to release 2018.1.

For more information, read the help topic [Registration Confirmation Email Messages](#).

Link to Web Site Assistant Tool Deprecated

In release 2018.1, the navigation link to the Web Site Assistant has been removed from the navigation menu under Setup > Site Builder. You can perform all the setup tasks that were performed using the Web Site Assistant in other areas of NetSuite.

When configuring a Site Builder website, go to Setup > Site Builder > Set Up Web Site to perform the following tasks:

- Configure the website domain.
- Select site templates for the appearance of your website and upload the logo.
- Select the website home page.

To set up tabs and categories for your Site Builder website, go to Lists > Web Site > Tabs, and Lists > Web Site > Categories.

CSV Import Supported for Commerce Categories

As of 2018.1, you can import CSV files to create and update commerce categories records in NetSuite.

You can import commerce categories data if the Commerce Categories feature is enabled. For more information, see the help topic [Enable Commerce Categories Feature](#).

To import commerce categories data, in the Import Assistant set the Import Type to Website, and the record type to Commerce Categories.

For more information, see the help topic [Commerce Category Import](#).

SuiteCommerce InStore



Note: SuiteCommerce InStore (SCIS) uses a phased release process. For information on availability, please contact your account representative.

The SuiteCommerce InStore managed bundle is upgraded to version 2018.1 in customer accounts over a period of two months. All customers will receive an email notification with information about when the account is scheduled for upgrade. Prior to the upgrade, you can access the new version of SCIS on your Sandbox account. This provides the opportunity for testing in advance of the upgrade, using new features with your own data and business processes.

During the time that SCIS 2018.1 is available in your Sandbox account, you can do the following:

- Continue to use your production account to run your daily business processes.
- Use your Sandbox account to learn about new features and to test the upcoming release.

After the new version has been available in Sandbox for approximately two weeks, the customer account upgrades begin in phases. Each phase consists of a different group of customers being upgraded every two weeks. Contact your NetSuite representative for more information.

The following new features are included in SuiteCommerce InStore, Bundle ID 199455 (SCIS 2018.1):

- Installation and Configuration Enhancements
- Changes to Required Permissions for SCIS Clerk role
- SCIS Support for Free Gift Promotions
- Support for Multi-Subsidiary Customers
- Support for Split Tender Refunds
- Invoice in Advance of Fulfillment Preference Requirement is Removed
- Enhancements to Advanced Cash Drawer Management in SCIS
- SCIS Fallback

Installation and Configuration Enhancements

SCIS 2018.1 includes enhancements that automate the setup process. There is no change to accounts that already have SCIS installed. However, on first installation of SCIS the following setup tasks have been eliminated:

- Creating the website
- Creating field sets
- Creating SCIS Quick Cash Denominations

In addition, first-time installation of SCIS will not be successful if required settings or features have not been enabled. A script has been implemented to verify required features and settings.

The script generates a list that is displayed on the bundle installation page. You can find the **SCIS_CheckRequiredFeatures** script at Web Site Hosting Files > Live Hosting Files > SSP Applications > NetSuite Inc. - POS > SuiteCommerce InStore > scripts. Run the script in the NetSuite Debugger to generate a list of features and settings you must enable to install SCIS successfully.

For more information, read the help topic [Verify Required Features and Settings are Enabled](#).

Changes to Required Permissions for SCIS Clerk role

In SCIS 2018.1, required permissions have changed for the SCIS Clerk role. Immediately following the upgrade to the new release, administrators must modify the SCIS Clerk role to ensure employees are able to continue performing day-to-day operations.



Important: After your account has been upgraded to SCIS 2018.1, an administrator must go to Setup > Users/Roles > Manage Roles to set permissions for the SCIS Clerk role.

The following table shows required permission settings for SCIS Clerk. Ensure that the existing permissions for each role include the following permissions for Transactions and Lists.

Permission Type	Permission	Level
Transactions		
	SCIS Closing Drawer	Edit
	SCIS Opening Drawer	Edit
Lists		
	Employee Record	Edit
	Perform Search	View
Setup		
	Fulfillment Exception Reason	Edit

For the full list of required permissions for all roles used with SCIS, read the help topic [SuiteCommerce InStore Roles](#).

Required Update to Field Sets

In SCIS 2018.1, the field sets required to operate SCIS have changed. This change was implemented to support the following:

- Improved support for serialized and lot items.
- [SCIS Fallback](#), the new offline feature included in the SuiteCommerce InStore SuiteApp.

Immediately after receiving the update to SCIS 2018.1, and prior to first login using the updated version, an administrator must Update Field Sets. Detailed instruction on how to run the script are included in the online help, *Updating Field Sets for SCIS 2018.1*.

After you run the script, you will notice additional field sets were created for use with SCIS Fallback.

SCIS Support for Free Gift Promotions

In SCIS 2018.1, sales associates have the ability to add and remove free gift promotions that are automatically applied to an order. The free gift item is added to the cart in SCIS according to the definition of the Free Gift promotion.

For example, a store promotion is set up where customers receive a free t-shirt along with the purchase of a particular item. The sales associate puts the item associated with the free gift promotion in the cart. When the sales associate selects a payment option, a popup dialog is displayed in the cart, enabling the sales associate to add the free t-shirt to the order. If the item associated with the free gift promotion is removed from the order, then SCIS prompts the sales associate to remove the t-shirt.

To use free gift promotion capabilities in SCIS, an administrator must set up the promotion correctly. For setup information, read the help topic [Creating Free Gift Promotions](#).

Note: Only inventory and non-inventory items are supported as free gifts. Matrix items and promotions for more than one free item are not supported.

For more information for sales associates, read the help topic [Adding a Free Gift Promotion to the Cart](#).

Support for Multi-Subsidiary Customers

In SCIS 2018.1, multi-subsidiary capabilities on customer records are supported in SCIS. Sales associates can use search in SCIS to find customers and transactions regardless of the subsidiary where they were originally created. Each transaction entered in SCIS shows the subsidiary where it was submitted.

For example, a sales associate in Subsidiary A can create a transaction for a customer assigned to Subsidiary B. When an administrator views the transaction in NetSuite, the transaction shows the subsidiary where the transaction occurred. The subsidiary where the transaction occurred is then added to the list of subsidiaries on the customer record.

Using the search capabilities in SCIS, sales associates can find customers from all subsidiaries that have been configured in the NetSuite account. The time line in the SCIS Customer profile shows all transactions for each customer. The subsidiary where the transaction occurred shows when clicking on the transaction to view details, and on the transaction receipt. Tax is applied according to the subsidiary where the transaction occurred.

For more information, read the help topic [Subsidiary Customers in SCIS](#). Read also, [Multi-Subsidiary Customers](#).

Support for Split Tender Refunds

In SCIS 2018.1, sales associates can split a refund amount into multiple payment types. Previously, split tender refunds were not supported in SCIS. When the sales associate is processing a return, they can

refund part of the amount in cash and apply the rest to a credit card. In SCIS, the refund transaction is not complete until the total refund amount is entered.


After the refund is submitted in SCIS, a credit memo is created in NetSuite to capture the data from the return. An Administrator can view the credit memo by clicking the link on the original sales transaction. The credit memo is linked to the original sales transaction in the new **SCIS Returns Credit Memo** field on the Related Records Subtab.

For more information, read the help topic [Split Tender Refunds](#).

SCIS Support for Fulfillment Exception Reasons

SCIS 2018.1, supports order Management Fulfillment Exception Reasons. Administrators can configure the exception reason that appears when one or more line items are rejected in a fulfillment.

To create new records, go to Setup > Order Management > Fulfillment Preferences > Fulfillment Exception Reasons. When an employee is unable to fulfill an order in SCIS, they can indicate why the order was not fulfilled by using one of the Fulfillment Exception Reasons you created.

Reason for Rejecting			
	Climber-Sutra Shirt	Qty 1	Reason Inventory mismatch
		Reason Note Tap here to add r	
REJECT		CANCEL	

For more information, read the help topic [Defining Fulfillment Exception Reasons](#).

Invoice in Advance of Fulfillment Preference Requirement is Removed

In SCIS 2018.1, the accounting preference, Invoice in Advance of Fulfillment is no longer required. This preference imposed a specific workflow for processing orders which was an impediment for some organizations. Now, when SCIS orders are shipped, partial payments are supported. Item fulfillments and item requests can be linked to cash sales or sales orders. NetSuite accounts that do not have Invoice in Advance of Fulfillment can use SCIS.

Enhancements to Advanced Cash Drawer Management in SCIS

SCIS 2018.1 includes the following enhancements to Advanced Cash Drawer Management:


- A new tab is added to the SCIS Settings record, **Cash Management**. You can use this new tab to define settings for Advanced Cash Drawer Management. Note the following additional preferences:
 - **Hide Expected Cash on Shift Close** – Available on the Cash Management subtab, this preference affects the Closing Drawer user interface. When the box is checked, sales associates cannot see the expected amount in the cash drawer when they are closing a shift.

- **Mandatory Open Shift** – Available on the Cash Management subtab, this preference affects how sales associates open a shift. When the box is checked, sales associates cannot enter an order unless they have entered the amount in the cash drawer and selected a register.

For more information, read the help topic [SCIS Advanced Cash Drawer Management Setup](#).

- **Additional SCIS role, SCIS Store Manager**

When you use Advanced Cash Management with SCIS, employees with the SCIS Store Manager role can close shifts for sales associates at the store. The SCIS Store Manager can see the list of the shifts created in their location, and close shifts that are open. This capability is useful when a sales associate is called away unexpectedly, and forgets to close a shift, or is unable to close a shift on their own.

 **Note:** Before closing a sales associate's shift, the SCIS Store Manager must ensure that the sales associate has stopped entering orders.

For more information, read the help topic [SCIS Store Manager](#).

- The following enhancements are included in the user interface for sales associates:

- **Cash Drawer Adjustment Capability for Sales Associates** – Sales associates can adjust the cash in the drawer after submitting the initial loan. This enhancement supports Petty Cash capabilities. A drawer adjustment if cash is added or removed from the drawer outside of typical sales transactions.

For more information, read the help topic [Cash Drawer Adjustment](#).


- **SCIS Cash Drawer Activity Report** – Sales associates can click a link in the User Menu to view a list of the dates of past shifts, and access the closing receipts they entered in SCIS.

For more information, read the help topic [Cash Drawer Activity](#).

- **Cash Calculator** – The SCIS application includes a calculator for sales associates to use when entering the initial loan, closing the drawer, and entering a cash drawer adjustment. The calculator displays the values configured in SCIS Quick Cash Denomination records. If an administrator has not configured Quick Cash Denominations, then the calculator does not show any cash values.

The calculator enables sales associates to accurately calculate all drawer operations. Sales associates can enter a count for each denomination in the cash drawer, and then click the calculator to sum the amount of cash in the drawer.

For more information, read the help topic [Advanced Cash Drawer Management Calculator](#).

 **Note:** The calculator overwrites any value entered manually. The sales associate must choose either to use the calculator or enter values manually.

For general information for sales associates about the cash drawer, read the help topic [SCIS Cash Drawer](#).

SCIS Fallback

Fallback enables sales associates to perform basic point-of-sale operations when SuiteCommerce InStore (SCIS) is not available. Fallback is included in the SCIS SuiteApp and runs locally on the mobile device you use for point-of-sale. To start using Fallback, an administrator must enable Fallback and perform some configuration tasks in NetSuite.

For more information, read the help topic [SCIS Fallback Overview](#).

Fallback includes the following features:

- [SCIS Fallback Settings](#)
- [SCIS Fallback Login](#)
- [Fallback Data Delivery and SCIS Fallback Transaction Records](#)

SCIS Fallback Settings

To use Fallback, an administrator must configure Fallback settings in NetSuite at Setup > SuiteCommerce Advanced > SCIS Fallback Settings. During initial setup, the following are defined:

- The locations and subsidiaries where Fallback is enabled.
- A Personal Identification Number (PIN) that sales associates must use to log in.
- A default tax rate for each location and subsidiary.

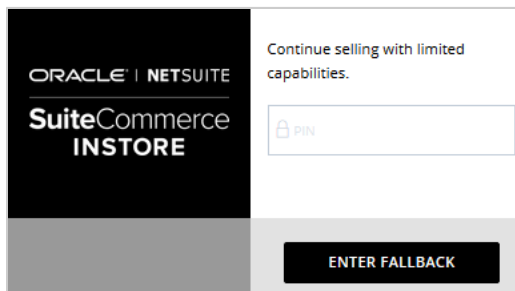
The next time the SCIS for iOS or SCIS for Windows app is launched, the product catalog and Fallback settings are downloaded and stored in the app. After initial configuration, Fallback settings can be changed as needed. The catalog and settings are downloaded periodically to stay up-to-date.

For more information, read the help topic [Setting Up SCIS Fallback](#).

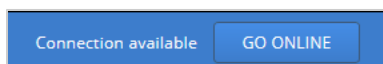
SCIS Fallback Login

After an administrator has configured SCIS Fallback, assets, settings, and the product catalog are downloaded to the point-of-sale device during the next login to SCIS. After this download has completed, a sales associate must log in to Fallback when SCIS is not available.

If the connection to NetSuite is interrupted while the sales associate is using SCIS, they are redirected to the Fallback login page.




After logging in to Fallback with the Fallback PIN number, the sales associate can continue creating orders. If the connection to NetSuite is reestablished while the sales associate is running Fallback, a banner shows in the cart with a Go Online button.



Fallback can be used during the following events when NetSuite is not available:

- NetSuite twice yearly major updates
- NetSuite scheduled maintenance
- Temporary internet outage

 **Warning:** It is recommended that sales associates complete orders in either SCIS or Fallback. Do not start an order in SCIS, and then switch to Fallback to complete the order. In Fallback, split-tender payments are not supported.

For more information, read the help topic [SCIS Fallback for Sales Associates](#).

SCIS Fallback Cart

The shopping cart in Fallback is similar to SCIS, but with limited capability. Because Fallback operates when NetSuite is not available, some SCIS operations are not accessible in Fallback, such as the ability to ship orders, and in-store pickup. Also, manager override is not supported in Fallback.

For the complete list of operations supported in Fallback, read the help topic [Operating in Fallback](#).

Fallback Data Delivery and SCIS Fallback Transaction Records

The data delivery process between SCIS Fallback and NetSuite occurs automatically, without interaction from an administrator. While operating in Fallback, orders are **not** submitted to the system in real time. A data delivery process is initiated each time a sales associate logs in to SCIS. During the data delivery process, Fallback transaction data is transferred to NetSuite.

SCIS Fallback Transaction records are custom records in NetSuite that represent each order entered in Fallback. A scheduled script runs periodically creating Fallback Transaction records and a corresponding cash sale transactions in NetSuite. When cash sale transactions are created, then general ledger accounts and inventory are impacted. If the SCIS Fallback Transaction fails to create a cash sale in NetSuite, then an administrator can edit the SCIS Fallback Transaction record to trigger the creation of a cash sale.

For more information, read the help topic [Fallback Data Delivery](#).

Fallback Saved Searches and Reconciliation

Use the **Fallback Transactions without Transaction** search results to identify Fallback transactions that require reconciliation. Go to Reports > Saved Searches > All Saved Searches. Use the Type filter to select the SCIS Fallback Transaction search. Click View to see a list of Fallback transactions that require manual reconciliation.

For more information, read the help topic [SCIS Fallback Transaction Reconciliation](#).

SuiteBundler

Bundle Support during Release Phasing

Bundle support during phasing of 2018.1 is consistent with the support provided during previous releases. During phasing of 2018.1, some accounts continue to use 2017.2 during the time that other accounts are upgraded to 2018.1. Therefore, you may be using a version different from some of the accounts where your bundles are installed.

Review the description below for a reminder of how bundles from different versions are handled during release phasing.

- Bundles developed with 2017.2 can be installed into accounts that are already using 2018.1.
- Bundles developed with 2018.1 can be installed into accounts that are still using 2017.2, but note the following limitations:
 - When a user in a 2017.2 account installs a bundle from a 2018.1 account, any object types in the bundle that are not supported in 2017.2 are not installed. Uninstalled object types may result in a potentially serious impact to bundle function.
 - A bundle with a SuiteScript that uses a new API available only in 2018.1 can be installed into a 2017.2 account, but the script may not correctly function because 2017.2 does not support the API.

SuiteBuilder - Customization

NetSuite 2018.1 includes the following enhancements to SuiteBuilder features:

- Advanced Template Field List Available
- Enhanced Language Support Available in Advanced Templates
- Support for Bill of Materials Revision Sublist Customization
- Updates to Lists, Records, & Fields Submenu and Form Customization Pages
- Configuration Added for Mandatory Sublist Entry
- Updated BFO and FreeMarker Libraries for Advanced PDF/HTML Templates
- Support for Changing Advanced Printing Custom Template Script IDs
- SuiteBuilder Help Videos
- Fixed Assets Management Records Supported in Custom Segments
- Print Multiple Journal Entries Using Advanced PDF/HTML Templates

Advanced Template Field List Available

A list of the fields and sublists available to use in each advanced PDF/HTML template is now available. For information, see the help topic [SuiteBuilder Advanced Templates Reference](#).

Enhanced Language Support Available in Advanced Templates

Advanced PDF/HTML Templates now use Google Noto fonts. Administrators can create PDF printouts in more than 500 languages, including all languages supported for the NetSuite application. The Noto fonts also support the use of additional currency symbols on advanced templates. The list of supported languages includes the following.

Font Name	Language Code	Language
NotoSans		587 languages supported
NotoSansCJKsc	zh_CN	Chinese (Simplified)
NotoSansCJKtc	zh_TW	Chinese (Traditional)
NotoSansCJKjp	ja_JP	Japanese

Font Name	Language Code	Language
NotoSansCJKkr	ko_KR	Korean
NotoSansThai	th_TH	Thai
NotoSansArabic		Arabic - 69 languages supported

For a complete list of supported languages, see the [Google website](#).

Custom forms that use advanced templates are printed in the locale of the current user, set in the Language field at Home > Set Preferences. Based on the locale, the font family is set. You also can print custom forms in the locale of the customer associated with a transaction, for transaction types that support this option at Transactions > Management > Print Checks and Forms.

Using the New Fonts

The standard templates in 2018.1 now use Noto fonts. If you use custom templates, you can either update the template source code to use the new fonts, or you can create a new custom template based on a standard template.

To update your custom templates, replace the `#if .locale` code in the `<head>` section with the following code:

```
<link name="NotoSans" type="font" subtype="truetype" src="{nsfont.NotoSans_Regular}" src-bold=
"{nsfont.NotoSans_Bold}" src-italic="{nsfont.NotoSans_Italic}" src-bolditalic="{nsfont.NotoS
ans_BoldItalic}" bytes="2" />
<#if .locale == "zh_CN">
    <link name="NotoSansCJKsc" type="font" subtype="opentype" src="{nsfont.NotoSansCJKsc_Regul
ar}" src-bold="{nsfont.NotoSansCJKsc_Bold}" bytes="2" />
<#elseif .locale == "zh_TW">
    <link name="NotoSansCJKtc" type="font" subtype="opentype" src="{nsfont.NotoSansCJKtc_Regul
ar}" src-bold="{nsfont.NotoSansCJKtc_Bold}" bytes="2" />
<#elseif .locale == "ja_JP">
    <link name="NotoSansCJKjp" type="font" subtype="opentype" src="{nsfont.NotoSansCJKjp_Regul
ar}" src-bold="{nsfont.NotoSansCJKjp_Bold}" bytes="2" />
<#elseif .locale == "ko_KR">
    <link name="NotoSansCJKkr" type="font" subtype="opentype" src="{nsfont.NotoSansCJKkr_Regul
ar}" src-bold="{nsfont.NotoSansCJKkr_Bold}" bytes="2" />
<#elseif .locale == "th_TH">
    <link name="NotoSansThai" type="font" subtype="opentype" src="{nsfont.NotoSansThai_Regular
}" src-bold="{nsfont.NotoSansThai_Bold}" bytes="2" />
</#if>
```

After the `</macrolist>` tag, add the following code to the style definitions:

```
<style type="text/css">
    * {
    <#if .locale == "zh_CN">
        font-family: NotoSans, NotoSansCJKsc, sans-serif;
    <#elseif .locale == "zh_TW">
        font-family: NotoSans, NotoSansCJKtc, sans-serif;
    <#elseif .locale == "ja_JP">
        font-family: NotoSans, NotoSansCJKjp, sans-serif;
    <#elseif .locale == "ko_KR">
        font-family: NotoSans, NotoSansCJKkr, sans-serif;
```

```

<#elseif .locale == "th_TH">
    font-family: NotoSans, NotoSansThai, sans-serif;
<#else>
    font-family: NotoSans, sans-serif;
</#if>
}
td p {
    align: left;
}
...
</style>

```

To use the other fonts available in the NotoSans font set, you use a line similar to the following as the first line in the `<head>` section:

```

<link name="NotoSansArabic" type="font" subtype="opentype" src="{nsfont.NotoSansArabic_Regular
}" src-bold="{nsfont."NotoSansArabic_Bold}" bytes="2" />

```

To use this font as the default font for all elements in the XML, edit the `<style>` definition similar to the following:

```

* { font-family: NotoSansArabic, sans-serif; }

```

Support for Bill of Materials Revision Sublist Customization

You can now customize the Bill Of Materials Revision sublist to add sublist fields, show or hide fields, change field labels, and rearrange the order of columns.

A new Other Sublist Fields menu item is now available on the Lists, Records, & Fields menu for administrators and users with the Other Record Fields permission. This menu item is available only if the Advanced Bill of Materials feature is enabled. For more information, see the help topic [Advanced Bill of Materials](#).

Current feature limitations

- Sublist customization is enabled for **one** sublist record type — Bill of Materials Revision. Support for customizing other sublists (other than the transaction Item sublist or Bill of Materials Revision components) is currently not available.
- One sublist can be customized on a form.
- Sourcing and filtering is unavailable for custom sublist fields.
- Custom sublist fields are not available in search.

Creating a New Custom Sublist Field Type

A new Other Sublists Fields submenu is available on the Customization menu. To create a new sublist field for the Bill of Materials Revision sublist, go to Customization > Lists, Records, & Fields > Other Sublist Fields > New. For more information, see the help topics [Creating a Custom Field](#) and [Other Sublist Fields](#).

Updating the Bill of Materials Revision Sublist

You can change the order of the columns in the Bill of Materials Revision sublist. For more information, see the help topic [Configuring Fields or Screens](#).

Updates to Lists, Records, & Fields Submenu and Form Customization Pages

NetSuite 2018.1 includes a reorganization of some of the Lists, Records, & Fields submenu items, and of the subtabs on form customization pages have been reorganized.

Lists, Records, & Fields Submenu Reorganization

The changes to the Lists, Records, & Fields submenu include the following.

- The Custom Segments menu item has been moved up to be below the Record Types menu item. This menu item is available when the Custom Segments feature is enabled.
- The Transaction Column Fields menu item has been renamed to Transaction Line Fields.
- The Other Custom Fields menu item has been renamed to Other Record Fields.
- A new Other Sublist Fields submenu has been added below the Other Record Fields submenu. The Other Sublist fields submenu is available when the Advanced Bill of Materials feature is enabled.

Customization	
Customization Manager	
Lists, Records, & Fields	Lists
Forms	Record Types
Scripting	Custom Segments
Workflow	Transaction Types
Plug-ins	Entity Fields
Centers and Tabs	Item Fields
SuiteBundler	CRM Fields
SuiteCloud Development	Transaction Body Fields
Performance	Transaction Line Fields
	Transaction Item Options
	Item Number Fields
	Other Record Fields
	Other Sublist Fields

Form Customization Subtab Reorganization

The following changes have been made on entry form and transaction form customization pages:

- The Lists subtab is now Sublists.

- A new Sublist Fields subtab is available beside Sublists. The Sublist Fields subtab lists the column fields of sublists that can be configured.
- The Columns subtab has been removed from the Screen Fields subtab of the Custom Transaction Form page. The functionality on the Columns subtab can now be found on the Sublist Fields subtab.

LABEL	SHOW	DESCRIPTION
Project	<input checked="" type="checkbox"/>	Job
Item	<input checked="" type="checkbox"/>	Item
Committed	<input checked="" type="checkbox"/>	Committed
Fulfilled	<input checked="" type="checkbox"/>	Total To Date
Back Ordered	<input checked="" type="checkbox"/>	Back Ordered
Available	<input type="checkbox"/>	Available

Configuration Added for Mandatory Sublist Entry

Administrators or users with the Custom PDF Layouts permission can now specify that a sublist of any record type must contain at least one row.

On the Customize Form page, you can specify that an entry is required in a sublist by checking the **Never Empty** box for that sublist.

DESCRIPTION	SHOW	NEVER EMPTY	LABEL
Earnings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Earnings
Deductions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Deductions
Federal Withholdings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Federal Withholding
Other Withholdings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Other Withholdings
Withholdings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Withholdings
State Withholdings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	State Withholdings
Contributions	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Contributions
Accrued Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Accrued Time
Jurisdictions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Jurisdictions

Notes

- The Never Empty box is not available for all sublists. Only sublists that are listed in the SuiteScript Records Browser are supported.
- The following sublists do not appear on the Lists subtab and this feature does not affect these sublists because they require at least one row by default.
 - Items
 - Lines
 - Components

- When a sublist is marked as requiring one row, the restrictions also apply to SuiteScript, CSV import, and web services. If a sublist is mandatory and a row is not provided during the import, the following errors occur.
 - SuiteScript – an error occurs
 - CSV – the line is ignored and an error is logged
 - Web Services – an error is returned in the response
- Mandatory sublist entry is available on sublists for the following [Entry Forms](#) and [Transaction Forms](#).
- Users are notified of mandatory sublists if they attempt to save the form without entering a row in the sublist. For information, see [Using Forms that Require Sublist Entry](#).

Entry Forms

Entry Form Type	Supported Lists
Campaign	Direct Mail Emails Lead Nurturing Other
Case	Escalate To Time
Customer/Lead/Prospect	Contacts Credit Cards Downloads Group Pricing Item Pricing Partners Sales Team
Employee	Accrued Time Contributions Deductions Earnings
Event	Attendee Resources Time
Group/Kit/Assembly	Components Site Category
Inventory Part	Site Category
Issue	Broken In Fixed In Issues Target
Item Supply Plan	Orders
Non-Inventory Part	Site Category
Partner	Contacts
Phone Call	Time
Project Task	Assignee Predecessor

Transaction Forms

Transaction Type	Supported Lists
Bill (Vendor Bill)	Expenses
Cash Sale	Sales Team
Invoice <ul style="list-style-type: none"> Progress Invoice Service Invoice Product Invoice Professional Invoice 	Sales Team
Opportunity	Competitors
Return Authorization <ul style="list-style-type: none"> Cash Credit 	Sales Team Partners
Sales Order <ul style="list-style-type: none"> Cash Sale Invoice Progress Billing 	Sales Team Partners
Sales Order (External) <ul style="list-style-type: none"> Online Order - Cash Sale Online Order - Invoice 	Sales Team

Using Forms that Require Sublist Entry

When a custom form has sublists with the Never Empty box checked, NetSuite verifies that the sublist is not empty.

If the user submits a custom form with an empty sublist, and a sublist entry is required, a warning message appears. The warning message includes the name of the sublist that requires an entry.

For more information about configuring custom forms, see the help topic [Creating Custom Entry and Transaction Forms](#).

Updated BFO and FreeMarker Libraries for Advanced PDF/HTML Templates

Advanced PDF/HTML templates now use updated BFO and FreeMarker libraries. These new libraries provide enhancements over previously supported libraries.

BFO version 1.1.61 extends graph support and improves error message handling.

FreeMarker version 2.3.26 has improved error handling and new built-in functions. For example, you can use the following built-ins that act on:

- loop variables: counter, has_next, index, is_first, is_last, item_cycle, item_parity
- string variables: esc to escape characters inside the string


- boolean variables: then
- other: switch

The `else`, `items`, and `sep` directives can now be used for lists in Advanced PDF/HTML Templates. For more information, see the [list directive in the FreeMarker reference](#).

Support for Changing Advanced Printing Custom Template Script IDs

A new Change ID button is available on the advanced PDF/HTML templates configuration page for custom templates. To change the script ID of a custom advanced PDF/HTML template, click **Change ID**.

In the **New ID** field, enter the new script ID for the template. Script IDs for custom templates begin with **custtmpl**.

 **Note:** You cannot change the script IDs of standard templates.

SuiteBuilder Help Videos

The Help Center now includes a Videos section that gives you direct access to SuiteBuilder help videos. To access the Videos section, go to Additional Resources > Videos in the Help Center table of contents.

The following SuiteBuilder videos are available under the SuiteCloud heading:

- Adding Fields and Sublists to Advanced PDF/HTML Templates
- Using the Advanced Template Editor

Fixed Assets Management Records Supported in Custom Segments

Fixed Assets Management records are now supported in custom segments. For information, see [Custom Segment Support for Fixed Assets Management](#).

SuiteAnalytics (Dashboards, Reporting, and Search)

NetSuite 2018.1 includes the following enhancements to SuiteAnalytics:

- Inventory Detail Search Updates
- Duplicate Values No Longer Displayed in SuiteAnalytics Connect Transaction Lines Query Results
- Account (Main) Field Added for Transaction Search
- Business Events Processing Saved Search
- New File (Line) Fields Join in Transaction Saved Search
- Emergency Contact Fields Added for Employee Search
- Business Events Processing Saved Search
- Dashboard Tiles Updates

■ Navigation Portlet Enhancements

Inventory Detail Search Updates

NetSuite 2018.1 includes the Inventory Status feature and new associated Inventory Detail searches that add an Inventory Status column. When the Inventory Status feature is enabled, the current searches on the Inventory Detail subtab on item records is replaced with the following new searches:

- Inventory Number/ Status On Hand
- Inventory Detail On Hand
- Bin/ Status On Hand

For more information, see [New Inventory Detail Searches](#).

Duplicate Values No Longer Displayed in SuiteAnalytics Connect Transaction Lines Query Results

Prior to 2018.1, if the Multi-Book Accounting feature was enabled in an account, running a query against the Transaction_Lines table using the Connect service could produce duplicated results. This functionality has been corrected for 2018.1 so that only unique values from the primary accounting book are displayed in the results.

Account (Main) Field Added for Transaction Search

Account (Main) is a new field for search criteria and results. This field represents the account that is shown in the results when the criteria include Main Line is true. For more information, see the help topic [Main Line in Transaction Search Criteria](#).

For example, Account (Main) for an invoice is an accounts receivable account, but the Account for lines on the invoice are specific to the item, billable expense, or billable time.

New File (Line) Fields Join in Transaction Saved Search

NetSuite 2018.1 provides a new Join field for the Transaction Saved Search. The File (Line) Fields joiner enables a customer to view lines with files without duplicated rows.

Emergency Contact Fields Added for Employee Search

Emergency Contact Address, Emergency Contact Name, Emergency Contact Phone, and Emergency Contact Relationship are new fields for search criteria and results.

CSV Import

NetSuite 2018.1 includes the following enhancements to CSV Import:

- CSV Import Supported for Commerce Categories
- SuiteCloud Development Framework (SDF) Support for Saved CSV Import Maps
- Enhanced Error Reporting for afterSubmit Script Failures

CSV Import Supported for Commerce Categories

As of 2018.1, you can import CSV files to create and update commerce categories records in NetSuite.

You can import commerce categories data if the Commerce Categories feature is enabled. For more information, see the help topic [Enable Commerce Categories Feature](#).

To import commerce categories data, in the Import Assistant set the Import Type to Website, and the record type to Commerce Categories.

For more information, see the help topic [Commerce Category Import](#).

SuiteCloud Development Framework (SDF) Support for Saved CSV Import Maps

As of 2018.1, SDF adds support for saved CSV import maps. You can create, modify, import, and export saved CSV import maps, and move your saved CSV import maps between accounts.

For more information, see [Saved CSV Import Maps Supported in SDF](#).

Enhanced Error Reporting for afterSubmit Script Failures

When an afterSubmit script runs after a CSV import, and the script fails, the records are still created or updated in NetSuite. As of 2018.1, the CSV response indicates that the record has been created or updated even if an afterSubmit script that runs after the CSV import fails.

Using the information in the CSV response, you can avoid creating duplicate records. If the CSV response indicates that the records have been saved, you need to retry only the user event script. You should not run the CSV import again.

For information about working with afterSubmit scripts, see the help topics [afterSubmit\(scriptContext\)](#) and [SuiteScript 2.0 User Event Script Type](#).

For information about the status of CSV import jobs and CSV error reporting, see the help topics [Checking CSV Import Status](#) and [General Import Errors](#).

SuiteFlow (Workflow Manager)

NetSuite 2018.1 includes the following enhancements to SuiteFlow features:

- Support for the Items Sublist on Transaction Records
- Enhancements to Workflow Groups
- Disable Instances and History for Workflows
- Enhancements to the Condition Builder for Date and Time Fields

Support for the Items Sublist on Transaction Records

As of 2018.1, you can execute actions on Items sublist lines, as part of workflows for transaction records with Sublist Action Groups. A Sublist Action Group is a group of actions assigned to a workflow state that are to be executed on each line of the Items sublist. Whether the actions execute during a workflow state is contingent on the group's and group actions' conditions. There are two types of conditions for the Sublist Action Group: the group's condition, and the conditions for each action in the

group. For the group to execute, the group's condition must evaluate to true. If the group's condition evaluates to true, the conditions of the actions within the group are evaluated for each line of the Items sublist. If a group action's condition evaluates to true for an Items sublist line, the action executes on the sublist line. All actions are evaluated for the possibility of execution on a sublist line before the group moves to the next sublist line.

You can include two types of actions in Sublist Action Groups in 2018.1: Set Field Value and Create Record. The Set Field Value action lets you set the value for Item's sublist fields. The Create Record action lets you create a new record, depending on the value of an Items sublist line. For example, when a training item is ordered on a sales order record, you can create a task record for the training supplies for that order.

Sublist Action Groups can be executed on all server triggers. They cannot be executed on client triggers. For information about workflow triggers, see the help topic [Triggers Reference](#).

Sublist Action Groups become available for a workflow after a workflow is created on a transaction record. You create Sublist Action Groups for a state with the Workflow State window's **New Sublist Group** button.

The screenshot shows the 'Workflow State' window for 'Sales Order Basic Approval'. The 'NAME' field is 'Pending Approval' and the 'ID' is 'workflowstate2'. The 'DESCRIPTION' field is empty. Below the fields, there are tabs for 'Actions', 'Transitions', and 'Fields'. Under the 'Actions' tab, there are buttons: 'Move To Top', 'Move To Bottom', 'New Action', 'New Group', and 'New Sublist Group' (highlighted with a red box). Below these buttons is a table with columns: NAME, PARAMETERS, TRIGGER ON, EVENT TYPES, CONTEXTS, CONDITION, FORMULA, SAVED SEARCH CONDITION, DELAY, RECURRENCE, UNIT, and ACTIVE. The table contains two rows of actions, both with green checkmarks in the 'ACTIVE' column.

NAME	PARAMETERS	TRIGGER ON	EVENT TYPES	CONTEXTS	CONDITION	FORMULA	SAVED SEARCH CONDITION	DELAY	RECURRENCE	UNIT	ACTIVE
Set Field Value	Workflow : Approver=User : Supervisor	Entry			Workflow : Approver Is Empty						✓
Set Field Value	Memo=SYSDATE ' Pending Approval ... ' (memo)	Entry									✓

In the Sublist Action Group window, the Items sublist is automatically selected as a parameter.

The screenshot shows the 'Parameters' window. The 'SUBLIST' dropdown menu is set to 'Items'. Below the dropdown, there is a note: 'Note: You will be able to add actions to this group upon saving it.'

After you create and save the group, you can create the individual actions for the group from either the Sublist Action Group window or from the [Workflow Context Panel](#). In the Sublist Action Group window, click the **New Action** button to create a new group action.

The screenshot shows the 'Parameters' window with 'SUBLIST' set to 'Items'. Below the dropdown, there are three buttons: 'Move To Top', 'Move To Bottom', and 'New Action' (highlighted with a red box).

To view a Sublist Action Group in the Context Panel, click the state for which you created the group in the [Workflow Diagrammer](#).

In the Context Panel, point to the group name to view the add, edit, and delete icons. Click the + icon to create a new action for the group.

The screenshot shows the 'Context Panel' with two items: 'Sublist Action Group Items' and 'Record Load'. The 'Sublist Action Group Items' item has three icons to its right: a plus sign (+), a pencil (edit), and a trash can (delete). A mouse cursor is pointing at the plus sign icon. The 'Record Load' item has a blue square icon with the number '6' to its right.

Be aware as you select parameters for sublist group actions that Items sublist line fields have the suffix (Line).



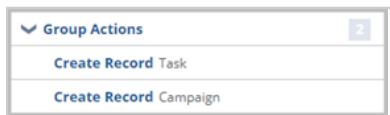
For more information, see the help topic [Using Sublist Action Groups](#).

For information about transaction records, see the help topic [Working with Transactions](#).

Enhancements to Workflow Groups

In previous releases, actions in workflow groups were created and modified from the [Workflow States](#) window. Additionally, you could view the actions in an action group only from the Workflow State window. Beginning in 2018.1, you can view the actions in workflow action groups from the [Workflow Context Panel](#). You can also modify the actions within the workflow action group from the Workflow Context Panel.

The following image shows an action group expanded in the context panel.



To view an action group for a state, click the state in the [Workflow Diagrammer](#). Action groups for the state are shown in the Workflow Context Panel. Action groups can be expanded to show the individual actions in the group. If the workflow is in Edit Mode, you can point to the action group name to view icons for modifying the action group. A new icon, +, lets you add actions to the group.

The following image shows the icons that appear when you point to an action group name in the context panel.



For more information about modifying action groups in the Workflow Context Panel, see the help topic [Workflow Context Panel](#). For details about View and Edit modes, see the help topic [Workflow Manager Interface View and Edit Modes](#).

For more information about workflow action groups, see the help topic [Using Action Groups](#).

You can also view and modify 2018.1's new Sublist Action Groups from the Workflow Context Panel. For more information, see [Support for the Items Sublist on Transaction Records](#).

Disable Instances and History for Workflows

Workflow history records, in the form of execution and error log records, are saved for workflows as they run and after they complete. Beginning in 2018.1, you have the option to disable workflow history for workflows.

A new box, **Keep Instance and History**, has been added to the following locations in the SuiteFlow UI:

- The [Workflow Definition Page](#) page

■ The Editing a Locked Workflow dialog

The following image shows the Keep Instance and History option on the Workflow Definition page.

The screenshot shows the 'Workflow' dialog box with the 'Basic Information' tab selected. The 'NAME' field contains 'Sales Order Basic Approval' and the 'ID' field contains 'customworkflow1'. The 'RECORD TYPE' is 'Transaction' and the 'SUB TYPES' list includes 'Advanced Intercompany Journal Entry', 'Cash Refund', 'Cash Sale', and 'Check'. The 'DESCRIPTION' field contains the text: 'With this process, a sales order is automatically approved if one of the following is true:'. The 'OWNER' is 'S Wolfe'. The 'EXECUTE AS ADMIN' checkbox is checked. The 'RELEASE STATUS' is 'Not Running'. The 'KEEP INSTANCE AND HISTORY' checkbox is checked and highlighted with a red box. The 'ENABLE LOGGING' checkbox is also checked, and the 'INACTIVE' checkbox is unchecked.

The Keep Instance and History box is checked by default for all existing and newly created workflows. Be aware that history records created prior to 2018.1 are saved for existing workflows. If you want to delete these records, you can do so using the [Workflow Instance and History Record Purges](#) feature.

When the Keep Instance and History box is cleared for a workflow, workflow instance and history records are viewable on the record's [Active Workflows Subtab](#) and [Workflow History Subtab](#) subtabs while the workflow runs. After the workflow finishes or is canceled, the history records related to the workflow instance's execution are deleted from the database. When the Keep Instance and History box is checked, history records related to the workflow instance's execution are saved in the database. Be aware that history records are never deleted for workflows that transition to a state with the Do Not Exit Workflow box checked. For details, see the help topic [Exit States](#).

One of the benefits of not saving history records for workflows that process many records can be improved system performance. Workflows that process many records produce a large amount of history records that can slow system performance. Additionally, a large amount of database space can be freed when you delete workflow history records.

For more information, see the help topic [Disabling History for a Workflow](#).

Enhancements to the Condition Builder for Date and Time Fields

In 2018.1, the workflow condition builder user interface has been updated for record date and time field types. The following updates have been made:

- If you select the Date, Datetime, or Time of Day field types for your condition's record **Field** column: you must enter a valid date in the **Value** column when the **Compare Type** column selection is neither empty nor not empty. If a valid value is not specified, an alert appears, and the row is not added.

- If you open an existing condition with an invalid or missing date for the Date, Datetime, or Time of Day record fields: you must enter a valid date in the **Value** column before saving the condition.
- The format of the dates you enter for date field types must match your Date Format preference.

The 2018.1 condition builder enhancements have significantly improved the execution of workflow conditions that include dates.

For information about workflow conditions, see [Workflow Conditions](#). For information about the workflow condition builder, see [Using the Condition Builder](#). For information about setting your account preferences, see the help topic [Setting General Preferences](#).

SuiteScript

Refer to the following sections for details on all SuiteScript updates for NetSuite 2018.1:

- SuiteCloud Processors Enhancements
- SuiteScript 2.0 – Map/Reduce Enhancements
- SuiteScript 2.0 – Client Scripting Supported on External Suitelets and Online Forms
- SuiteScript 2.0 – Remote Client IP Address API
- Change to Management of Bin Numbers Using SuiteScript
- Change to Results for Scripted Inventory Detail Searches
- Change to Scripted Employee Searches from Employee Center
- Change to Journal Entry Fields that Cause Revenue Element Updates
- Scripting Impact of New UI for Weekly Timesheets
- Support for Suitelet Label Translation
- SuiteScript 2.0 – Get and Set Rate Field Text with Percentages
- SuiteScript 2.0 – Return Values Updated for Hidden Checkbox Fields
- Change to Address Subrecord Scripts
- 2018.1 SuiteScript Record Exposures
- 2018.1 SuiteScript Records Browser
- Advance Notice: HTTP2 Compliant Headers

SuiteCloud Processors Enhancements

2018.1 includes the following enhancements related to [SuiteCloud Processors](#):

- Complimentary Additional Processors
- Scheduled Script Instance Search Enhancements
- New Processor Count APIs

Complimentary Additional Processors

As of 2018.1, some accounts that use [SuiteCloud Processors](#) now have access to additional complimentary processors. The following accounts are impacted by this enhancement:

- Accounts Without a SuiteCloud Plus License
- Accounts with More than Five SuiteCloud Plus Licenses

For more information on SuiteCloud Plus licenses, see the help topic [SuiteCloud Plus Settings](#).



Important: SuiteCloud Processors is used to execute (process) all scheduled script and map/reduce script instances. However, this enhancement does not impact scheduled script deployments that continue to use queues. Those deployments have access to the same number of queues available before this release.

Accounts Without a SuiteCloud Plus License

Accounts without a SuiteCloud Plus license now have access to one additional complimentary processor. Previously, these accounts had access to one processor. With 2018.1, they have access to two processors. The extra processor doubles the processing bandwidth for scheduled scripts and map/reduce scripts.

You may be required to update your existing scripts for this enhancement. When an account has access to only one processor, all jobs are processed one at a time. If all jobs have the same priority, the order of processing is always first in, first out. Some scripts may depend on this behavior. With the addition of an extra processor, these scripts may no longer process in the correct order.

For example, if you have a script that pre-processes data for a second script, the first script must complete execution before the second script begins. With one processor, you can submit the scripts in the appropriate order and know that the order of processing is as expected. With two processors, there is a possibility that the second script submitted starts execution before the first script completes.

For information about reviewing and updating your scripts, see [Recommended Actions](#).

Accounts with More than Five SuiteCloud Plus Licenses

As of 2018.1, the maximum number of available processors has increased to 50. Accounts with more than five SuiteCloud Plus licenses have access to five extra processors for each SuiteCloud Plus license above five, up to the maximum of 50.

- Accounts with 6 SuiteCloud Plus licenses now have access to 30 processors.
- Accounts with 8 SuiteCloud Plus licenses now have access to 40 processors.
- Accounts with 10 or more SuiteCloud Plus licenses now have access to 50 processors.

Recommended Actions

Perform the following actions before your account is upgraded to 2018.1:

1. Audit your scheduled scripts and map/reduce scripts. Look for scripts that depend on a specific order of execution.
2. Use the following SuiteScript APIs within the first script to programmatically submit the dependent script. This action ensures that the scripts are always executed in the correct order.

Script Type	SuiteScript 1.0 API	SuiteScript 2.0 API	Notes
Scheduled Script	<code>nlapiScheduleScript(scriptId, deployId, params)</code>	<code>task.ScheduledScriptTask</code>	Place the code at the end of the script.
Map/Reduce Script	Not Applicable	<code>task.MapReduceScriptTask</code>	Place the code at the end of the summarize stage.

Scheduled Script Instance Search Enhancements


You can use the scheduled script instance (`scheduledscriptinstance`) search to return information about individual scheduled script jobs and map/reduce script jobs. A subset of this information is displayed on the following pages in the NetSuite UI:

- **Scheduled Scripts:** Each entry on the Scheduled Script Status page contains information about a single scheduled script instance. Each scheduled script instance is handled by one scheduled script job. To access the Scheduled Script Status page in the UI, go to .
- **Map/Reduce Scripts:** Each entry on the Map/Reduce Script Status page contains information about a single map/reduce script instance. Each map/reduce script instance is handled by multiple map/reduce script jobs. To access the Map/Reduce Script Status page in the UI, go to . You can access information about the individual map/reduce jobs for a particular map/reduce script instance from the map/reduce script details page. To access this page from the Map/Reduce Script Status page, click the Details link for the appropriate script instance.

For more information on the Scheduled Script Status page, see the help topic [Monitoring a Scheduled Script's Runtime Status](#) or [SuiteScript 2.0 Scheduled Script Status Page](#). For more information on the Map/Reduce Script Status page, see the help topic [SuiteScript 2.0 Map/Reduce Script Status Page](#).

For 2018.1, SuiteScript introduces the following enhancements to the scheduled script instance search:

- [Task ID Results Grouping](#)
- [New Search Fields](#)

 **Note:** These enhancements apply to the scheduled script instance search in both the UI and SuiteScript. Filter IDs for SuiteScript are displayed in parentheses after their respective UI field labels. For more information on creating searches in the UI (including searches of scheduled script instances), see the help topic [Running Searches](#). For more information on searching scheduled script instance with SuiteScript, see the help topic [Scheduled Script Instance](#).

Task ID Results Grouping

As of 2018.1, you can group scheduled script instance search results by task ID (`taskid`). Each scheduled script instance and map/reduce script instance has a unique task ID. Because each scheduled script instance is handled by one job, this enhancement is primarily intended for map/reduce scripts. For example, you can group your results by task ID to determine the number of jobs that processed a particular map/reduce script instance.

For information on grouping and sorting search results in the UI, see the help topic [Defining Order and Overall Formatting for Search Results](#). For information on grouping search results columns with SuiteScript 1.0, see the help topic [nlobjSearchColumn\(name, join, summary\)](#). For information on grouping search results columns with SuiteScript 2.0, see the help topics [search.Column](#) and [search.Summary](#).

New Search Fields

As of 2018.1, the following search fields are added to the scheduled script instance (`scheduledscriptinstance`) search. You can use these fields as both filters and search results columns.

Original Priority (`originalpriority`)

This field holds the original priority setting (low, standard, or high) for the scheduled script job or map/reduce job. The priority setting is the value set when the scheduled script job or map/reduce job is initially created.

- If a job is created when a deployment is submitted for processing, the original priority is the priority set on the deployment record at the time it was submitted for processing.
- If a job is created during script processing, the original priority is the current priority of the job that created the new job.

For more information on deployment record priority settings, see the help topic [SuiteCloud Processors – Priority Levels](#).

Note: For SuiteScript 1.0 and 2.0 scheduled scripts, one scheduled script job is created when a script deployment is submitted for processing. In addition, a SuiteScript 1.0 scheduled script can yield. When yielding occurs, an additional scheduled script job is created during script processing.

For map/reduce scripts, the initial map/reduce jobs are created when the script deployment is submitted for processing. In addition, more map/reduce jobs can be created during script processing.

Original Priority Number (`originalprioritynumber`)

This field holds a numeric value that corresponds to the original priority value:

- High priority: 1
- Standard priority: 2
- Low priority: 3

You cannot group your search results by the original priority field because it holds a text value. The original priority number field is provided as an alternative.

Priority Timestamp (`prioritytimestamp`)

This field holds the time that the current priority is set for the scheduled script job or map/reduce job. This field can reflect the timestamp of a user-defined priority setting change or a system-defined priority setting change. User-defined priority changes do not impact the value of this field for existing jobs. However, system-defined priority changes may impact this value for existing jobs.

For example, if you create a scheduled script deployment and immediately submit the deployment for processing, the priority timestamp for that job reflects the deployment submission time. If you then change the priority on the deployment record, neither the priority nor the priority timestamp for the existing job is changed. However, if you enable priority elevation, and the priority for the existing job is changed by the system, the priority timestamp value is changed accordingly. For more information on priority elevation, see the help topic [SuiteCloud Processors – Priority Elevation and Processor Reservation \(Advanced Settings\)](#).

New Processor Count APIs

With the introduction of [Complimentary Additional Processors](#), the number of processors available to an account now can differ from the number of queues available. For 2018.1, the following SuiteScript APIs are added so that users can determine the processor count for the currently logged in account:

- **SuiteScript 2.0:** The new `runtime.processorCount` property holds a number. This property is a member of the `N/runtime` Module.
- **SuiteScript 1.0:** The new `nlobjContext.getProcessorCount` method returns a number.

SuiteScript 2.0 – Map/Reduce Enhancements

NetSuite 2018.1 includes the following enhancements to the map/reduce script type:

- [Retry Mechanism for Map and Reduce Functions that Fail](#)
- [Increase in Data Limit](#)
- [Ordering of Keys and Values](#)

Retry Mechanism for Map and Reduce Functions that Fail

Certain errors can interrupt a map or reduce function invocation and cause it to end prematurely. In these cases, a job's work on the current key/value pair might be left incomplete. In 2017.2 and previous releases, your options in this situation were limited. The system offered no built-in mechanism for handling errors. The default behavior was that the job moved on to process other key/value pairs, leaving the original key/value pair in an uncertain state.

To better handle this type of situation, NetSuite 2018.1 introduces a new [retryCount](#) option. With this option, the job tries again to process the key/value pair it was processing when the error occurred. You can configure the script so that, in the event of multiple failures, the job retries processing of the same key/value pair up to three times. You control this behavior with the new [retryCount](#) config option. If you do not set a value for this option, the script behaves as it did in previous releases.

If your map or reduce function currently uses a try-catch block, you may want to consider updating your script to use the native retry option instead. When you use the retry option, the system automatically logs information about failed attempts. For example:

- Both the [mapContext](#) and [reduceContext](#) objects now include:
 - An errors iterator, which provides data about any errors encountered during previous attempts to process the current key/value pair.
 - A new `executionNo` property, which indicates whether the current function invocation is the first, second, third, or fourth attempt to process the current key/value pair.
- Both the [summaryContext.mapSummary](#) and [summaryContext.reduceSummary](#) objects have been enhanced as follows:
 - Each keys iterator includes two new parameters. The `executionCount` parameter tells you how many times the function was invoked for the specified key. The `completionState` parameter indicates whether processing for that key was completed successfully.
 - Each errors iterator includes a new `executionNo` parameter, which tells you which iteration of the function resulted in the error.

Before you use the retry option, make sure your map and reduce functions are designed to handle retries. Your script should already include this logic, because even in previous releases, retries were possible in certain cases. (Retries did not occur after an error, but they did occur if the script was interrupted by an application server restart.)

In general, each function should check the `context.isRestarted` property to see whether the function has been invoked previously for the data currently being handled. If the context indicates that a previous attempt occurred, the function should take the necessary action to ensure that no key/value pairs are processed twice.

To enable the retry feature, add the [retryCount](#) config option to the script's return statement.

```
// Add additional code.
...
return {

    config:{
        retryCount: 3
    },

```

```

    getInputData: getInputData,
    map: map,
    reduce: reduce,
    summarize: summarize

  };
  ...
  // Add additional code.

```

Your script may also be using the [exitOnError](#) config option. If you are using the `exitOnError` option in addition to `retryCount`, be aware that the script uses the `exitOnError` setting after it uses `retryCount`. So if you have `exitOnError` set to `true`, the script does not exit until after all retries have been exhausted and an additional error has occurred.

Additionally, note that the `retryCount` option also affects the script's behavior following an application server disruption. So, if you set `retryCount` to 0, the script does not retry key/value pairs that were left in an uncertain state after an application server restart. However, if you do not add the `retryCount` option to the script, the system uses its legacy behavior, which is to retry processing of these pairs.

For more details about how map/reduce scripts respond to interruptions, see the help topic [SuiteScript 2.0 Map/Reduce Script Error Handling](#).



Note: The `retryCount` option does not affect the script's response to the `STORAGE_SIZE_EXCEEDED` error. When the script encounters this error, it ends its current function invocation, exits the stage, and goes immediately to the `summarize` stage.

Increase in Data Limit

The limit on total persisted data that can be used by a map/reduce script has increased. This limit is now 200MB. For more details about map/reduce governance, see the help topic [SuiteScript 2.0 Map/Reduce Governance](#).

Ordering of Keys and Values

In a map/reduce script, the context objects provided to certain entry points let you retrieve data. This data includes the keys and values used at various points during the script's execution. NetSuite 2018.1 includes an enhancement that improves the way these keys and values are ordered when you retrieve them from a context object.

Lexicographical Sorting

Many of the values available from context objects are now sorted in lexicographical order.

With lexicographical ordering, all values are treated as strings. The ordering is based on the sequence of the individual characters within each string. Characters are ordered based on their Unicode value. For more details on this style of ordering, see [lexicographical order](#).

This sequence now applies to each of the following:

- Within the **reduce** stage, the sequence of the individual values within the `reduceContext.values` array. These are the values passed to the reduce stage from the map stage.
- Within the **summarize** stage, the sequence of the keys available through the `summaryContext.output` iterator. This iterator cycles through the key/value pairs saved at the end of the reduce stage.

The values available through the [reduceSummary.keys](#) iterator were already sorted in this order. This iterator provides access to the keys made available to the reduce stage by the map stage.

Numeric Sorting

A similar enhancement has been made to the keys available through the [mapSummary.keys](#) iterator. This iterator cycles through the keys that are made available to the map stage by the get input data stage. The change in this case is as follows: If all of the values are numeric, the values are listed in ascending numeric order. If any value is a string, then the sequence used is the same as in [Lexicographical Sorting](#).

SuiteScript 2.0 – Client Scripting Supported on External Suitelets and Online Forms

As of 2018.1, both SuiteScript 1.0 and SuiteScript 2.0 client scripts are supported on externally available Suitelets and online forms. Suitelets that are externally available have the Available Without Login option enabled.

To successfully attach a client script to an external Suitelet's form, the Suitelet must run under a role that has file cabinet permission. This permission is required so that the client script can be uploaded to the file cabinet.

SuiteScript 2.0 – Remote Client IP Address API

SuiteScript 2.0 now lets you access remote client IP addresses with the [N/http Module](#). A new member, `ServerRequest.clientIpAddress`, has been added to the [http.ServerRequest](#). You can include this read-only property in http requests using the N/http Module. For more information about this optional property, see *ServerRequest.clientIpAddress*.

Change to Management of Bin Numbers Using SuiteScript

As of 2018.1, it is possible to create bin records with the same name across different locations, if the Advanced Bin / Numbered Inventory feature is enabled. To support this change, it is now mandatory to set a value for location when you create a bin record. This requirement ensures that each bin can be uniquely identified by a combination of name and location.

To avoid errors after your upgrade to 2018.1, you may need to update some of your scripts.

- You must update scripts that create bin records, so that they add a location value to each new bin record.
- You must update scripts that set preferred bins on item records, so that they check for a location value on each bin and add a value as needed.

See also [Support for Duplicate Bin Names Across Locations](#).

Change to Results for Scripted Inventory Detail Searches

Results for inventory detail searches have changed as of 2018.1. These changes apply to scripted searches and searches in the NetSuite UI.

- The Quantity column now shows absolute values, regardless of the positive or negative impact to your inventory. Previously this column's values could be positive or negative.
- A new Item Count column shows positive or negative values, depending on the impact of the associated transaction on inventory.

If any of your current scripts include inventory detail searches that reference the Quantity column, you may need to update them to reference the new Item Count column. The field id for Item Count is `itemcount`.

For more information about these changes, see [Updated Quantity Column and New Item Count Column](#).

Change to Scripted Employee Searches from Employee Center

As of 2018.1, when an Employee Center user runs a search containing employee data, search results include employee fields to which the user has access permission. The employee data search can be either as part of an employee record search or a joined record search. This search result limitation did not apply prior to this release.

Before your account is upgraded to 2018.1, we recommend that you test scripts on the employee record in your 2018.1 Release Preview account. This testing is required to determine the impact of the upcoming change to your existing scripts. Edit scripts as necessary to make sure they continue to work after your upgrade to 2018.1. To make sure your employee scripted searches continue to work, run your scripts using a role that has permission to access the relevant employee fields. For information, see the help topic [Executing Scripts Using a Specific Role](#).

Change to Journal Entry Fields that Cause Revenue Element Updates

The journal entry fields that cause revenue element updates have changed. This new behavior for journal entries aligns with the behavior for other transactions.

You should review any scripts that impact these journal entry fields to determine whether this change in behavior requires changes to these scripts.

After a revenue element has been created, changes to the following journal entry fields no longer update the corresponding revenue element fields:

- Revenue Recognition Rule
- Income Account
- Start Date
- End Date

Changes to journal entry amount fields continue to cause updates to the associated revenue elements.

Scripting Impact of New UI for Weekly Timesheets

NetSuite 2018.1 supports an optional new user interface for weekly timesheets. For details, see [Weekly Timesheet User Interface](#).

If this new UI is enabled in your account, you may need to update your scripts on timesheets and time records, to ensure that they continue to work properly. The following changes in the new UI impact scripts on timesheet or time records:

- [New IDs for Popup Window Fields](#)
- [Change to User Event Context Types](#)
- [Enforcement of Defined Time Limits](#)
- [Limitations on Client Script Support of SuiteScript 1.0 APIs](#)

New IDs for Popup Window Fields

The new UI allows some fields to be moved to a popup window for each day. Fields that are moved to the popup window have new field IDs for each day. By default, setting the value of a popup window field updates the field's values for all days of the week, in other words all timebills in a weekly timesheet. You can make it possible to update a field's value for a single day by appending a number 0-6 to the end of the existing field ID. For example, memo0 represents the memo field for the first day of the week.

Client scripts on fields may need to be adjusted. Any scripts intended to change a field located in a popup window should be adjusted to accommodate new field IDs for single days of the week.

In addition, any scripts that are set to run on multiple forms that may or may not have the required fields in the expected locations are likely to fail. If you have client scripts that are set to run on multiple custom forms, you must ensure that the fields are located in the expected place on all forms. The preferred method is to instead use user event scripts to update single timebills on a weekly timesheet.

Change to User Event Context Types

When the new UI is not enabled, there are 3 separate user event execution contexts (context.UserEventType) for approving, rejecting, or submitting a timesheet. With the new UI enabled, all of these actions use the EDIT user event type, so you must update your user event scripts for timesheets and time records. Instead of checking for a specific execution context type, these scripts should check the Approval Status field to determine whether it has been changed.

Enforcement of Defined Time Limits

When the new UI is not enabled, time limits are only validated when time transactions are submitted through the UI. With the new UI enabled, time limits are validated when an individual time transaction is added using SuiteScript. You must ensure that time transactions submitted using SuiteScript meet defined time limits.

Limitations on Client Script Support of SuiteScript 1.0 APIs

The new UI supports all SuiteScript 2.0 client script APIs. Many of the documented SuiteScript 1.0 APIs are also supported. However, the following SuiteScript 1.0 APIs currently are not yet supported in the new UI:

- `nlapiCreateSearch(type, filters, columns)`
- `nlapiExchangeRate(sourceCurrency, targetCurrency, effectiveDate)`
- `nlapiLoadSearch(type, id)`
- `nlapiRefreshLineItems(type)`

- `nlapiSearchDuplicate(type, fields, id)`
- `nlapiSearchGlobal(keywords)`
- `nlapiSearchRecord(type, id, filters, columns)`
- `nlapiSendFax(author, recipient, subject, body, records, attachments)`

If, in your client scripts, you have to use any of these SuiteScript 1.0 APIs that are not yet supported in the new UI, your client scripts must call a RESTlet or Suitelet to perform the same functionality on the server side.

Note: These currently unsupported SuiteScript 1.0 APIs are targeted to be supported for client scripts as of 2018.2.

Custom scripts using unofficially supported SuiteScript variables and APIs are not likely to work in the new UI. Custom scripts using DOM manipulation are not likely to work in the new UI.

Support for Suitelet Label Translation

Prior to 2018.1, it was not possible to translate Suitelet labels. This limitation caused a mismatch between Suitelet labels and the language of the NetSuite user interface for non-English users. As of 2018.1, if your account has the Multi-Language feature enabled, you can translate Suitelet labels so that they match the language of the NetSuite user interface.

You can define translations for a Suitelet label on the Script Deployment record's Links subtab.

SuiteScript 2.0 – Get and Set Rate Field Text with Percentages

In 2018.1 SuiteScript 2.0 server-side scripts, you can set and get rate field values with percentage signs (%) using the following N/record module methods:

- `Record.setText(options)`
- `Record.getText(options)`
- `Record.setSublistText(options)`
- `Record.getSublistText(options)`
- `Record.setCurrentSublistText(options)`
- `Record.getCurrentSublistText(options)`

Example for Setting Record Field Text

The following code snippet shows how you can set text for a record rate field with a percentage sign:

```
recordObj.setText({fieldId: 'discountrate', text: '-30.0%'});
```

Example for Getting Record Field Text

The following code snippet shows how you can get text for a record rate field that includes a percentage sign:

```
discountRateText = recordObj.getText({fieldId: 'discountrate'}); // "-30.00%"
```

Examples for Setting Sublist Field Text

The following code snippets show how you can set text for sublist rate fields with a percentage sign:

Example 1

```
recordObj.setSublistText({sublistId: 'item', fieldId: 'rate', text: '10%'});
```

Example 2

```
objRecord.setCurrentSublistText({
    sublistId: 'item',
    fieldId: 'discountrate',
    text: '-30%',
    ignoreFieldChange: true
});
```

Examples for Getting Sublist Field Text

The following code snippets show how you can get text for sublist rate fields that include a percentage sign:

Example 1

```
var sublistFieldText = objRecord.getSublistText({sublistId: 'item', fieldId: 'rate', line: 3});
// "10%"
```

Example 2

```
var fieldText = objRecord.getCurrentSublistText({sublistId: 'item', fieldId: 'rate'}); // "10%"
```

SuiteScript 2.0 – Return Values Updated for Hidden Checkbox Fields

Previously, values for hidden checkbox fields were returned as T or F. Beginning in 2018.1, hidden checkbox field values are returned as JavaScript booleans, `true` or `false`.

Change to Address Subrecord Scripts

Due to changes to the address subrecord in 2018.1, client scripts attached to address subrecords on transaction records are executing on the server side in addition to the client side. Be aware that this is expected behavior. For logic in a client script attached to an address subrecord to execute only once, wrap the logic in an `if` statement that immediately exits the script on the server side. For example:

```
if (typeof document!=='undefined') {
  // client script logic
}
```

If a client script attached to an address subrecord loads the [N/currentRecord Module](#), the script fails. Although you cannot load the `N/currentRecord` module in a client script that is attached to the address subrecord, you can obtain `currentRecord` from `context.currentRecord`:

```
define([],
  function() {
    function saveRecord(context) {
      var currentRecord = context.currentRecord;
      return true;
    }
    return {
      saveRecord: saveRecord
    }
  }
);
```

See the help topic [currentRecord.CurrentRecord](#).

You can attach client scripts to custom entry forms, custom transaction forms, or custom address forms. See the help topic [Attaching a Client Script to a Form](#).

For more information about scripting with the address subrecord in SuiteScript, see:

- SuiteScript 2.0 — [Understanding the Address Subrecord](#)
- SuiteScript 1.0 — [Scripting the Address Subrecord](#)

2018.1 SuiteScript Record Exposures

Record Type	Newly Exposed/ Update	Notes
Customer-Subsidiary Relationship	Newly Exposed	Available in OneWorld accounts when the Multi-Subsidiary Customer feature is enabled.
Deposit	Update	Support for scripting with SuiteScript 2.0 has been added for this release. See Deposit Record Now Supports SuiteScript 2.0 .
Global Inventory Relationship	Newly Exposed	Available in OneWorld accounts when the Intercompany Cross-Subsidiary Fulfillment feature is enabled. For information about this record type, see the help topic Creating a Global Inventory Relationship Record .
Inventory Status Inventory Status Change	Newly Exposed	Available in NetSuite and NetSuite OneWorld accounts when the Inventory Status feature is enabled.

Issue Product Issue Product Version	Newly Exposed	For information about these record types, see the help topic Products and Modules .
Supply Chain Snapshot	Newly Exposed	Available when the Supply Chain Control Tower feature is enabled. For information about this feature, see Supply Chain Control Tower .
Vendor-Subsidiary Relationship	Newly Exposed	Available in OneWorld accounts.
Weekly Timesheet	Newly Exposed	Available when the Time Tracking and Weekly Timesheet features are enabled. For more information, see the help topic Using Weekly Timesheets . This record has an optional new user interface. See the help topic Scripting Impact of New Weekly Timesheets Interface

2018.1 SuiteScript Records Browser

The 2018.1 version of the [SuiteScript Records Browser](#) is now available. You can find links to the Records Browser in several places, including the following:

- The help topic titled [Using the SuiteScript Records Browser](#).
- The reference page for each supported record. In the NetSuite Help Center, you can find an index of these pages in the [SuiteScript Supported Records](#) help topic. Each reference page is also included in SuiteScript Developer and Reference Guide, which can be downloaded from the [User Guides](#) topic.

SuiteTalk (Web Services) Integration

NetSuite 2018.1 includes the following enhancements to SuiteTalk features:

- Unified Web Services and RESTlet Concurrency Governance
- Newly Supported Record Types for SuiteTalk
- WSDL Versions 2012.1 and Older to be Disabled
- Enhanced Error Reporting for afterSubmit Script Failures
- Change in Processing Asynchronous Web Services Requests After Server Restart
- Release Preview Version of 2018.1 WSDL Now Available
- Araxis Merge Diff File for the 2018.1 Endpoint
- 2018.1 SuiteTalk Schema Browser

Unified Web Services and RESTlet Concurrency Governance

In NetSuite releases prior to 2017.2, concurrency for web services and RESTlets was governed separately per user and authentication method. NetSuite 2017.2 included changes to concurrency governance. As of 2017.2, web services and RESTlet concurrency is additionally governed per user account. The new concurrency governance limit applies to the combined total of web services and RESTlet requests. Enforcement of uniformed concurrency governance was implemented in 2017.2, in all Release Preview and development account types, and in most production and sandbox account types.

As of 2018.1, the Integration Governance page, available at Setup > Integration > Integration Management > Integration Governance, displays the concurrency limit and information on whether the limit is enforced. The Integration Governance page also contains information about peak concurrency and the number of total and rejected requests.



Important: In 2018.2, the unified concurrency governance is scheduled to be enforced in any remaining environments where it has not yet been enforced.

For more information about unified concurrency governance and the related actions you should take, see the help topic [Web Services and RESTlet Concurrency Governance](#).

Newly Supported Record Types for SuiteTalk

Record Type	Category	Notes
Bill of Materials (BOM)	Lists	Available when the Advanced Bill of Materials feature is enabled at Setup > Company > Setup Tasks > Enable Features (Administrator), on the Items & Inventory tab. Using the BOM record, you can list the quantities of raw materials, assemblies, subcomponents, and parts needed to manufacture a product. A BOM can be used to communicate between manufacturing partners, multiple facilities within the organization, or with a single manufacturing plant. For more information, see the help topic Bill of Materials (BOM) .
BOM Revision	Lists	Available when the Advanced Bill of Materials feature is enabled at Setup > Company > Setup Tasks > Enable Features (Administrator), on the Items & Inventory tab. Using a BOM revision, you can update a BOM's details throughout the product lifecycle. A BOM revision also provides an accessible revision history. Use revisions to compare and track cost savings when many BOM revisions are used in production. For more information, see the help topic BOM Revision .

WSDL Versions 2012.1 and Older to be Disabled

NetSuite WSDL versions 2011.2 and older will be disabled when version 2019.1 becomes available. NetSuite WSDL version 2012.1 will be disabled when version 2019.2 becomes available.

Integrations that use the 2011.2 or older endpoints will cease to operate when your account is upgraded to 2019.1. Integrations that use the 2012.1 endpoint will cease to operate when your account is upgraded to 2019.2.

Access to URLs with retired WSDL versions will be disabled. Any SOAP operation that uses a retired WSDL version will return a response of "INVALID_VERSION." This will affect web services integrations, as well as single sign-on (inbound SSO) and SuiteSignOn (outbound SSO) integrations that use web services APIs.

Upgrade your client applications to use the latest generally available WSDL version before your upgrade to the 2019.1 release.

For more information about the availability of earlier endpoints, see the help topic [Support for Existing WSDL Versions](#).

Enhanced Error Reporting for afterSubmit Script Failures

When an afterSubmit script runs after a web services add or update request, and the script fails, the records are still created or updated in NetSuite.

Using the internal ID of the record, available in the SOAP response, you can avoid creating duplicate records. If the SOAP response indicates that the records have been saved, you need to retry only the user event script. You should not send the web services request again.

For information about working with `afterSubmit` scripts, see the help topics [afterSubmit\(scriptContext\)](#) and [SuiteScript 2.0 User Event Script Type](#).

For information about web services error reporting, see the help topic [Web Services Warnings, Errors, and Faults](#).

Change in Processing Asynchronous Web Services Requests After Server Restart


As of 2018.1, if a server restart occurs while an asynchronous web services request is being processed, the request processing is automatically resumed when the server is running again. This automatic resumption means that you do not need to resend the asynchronous request after a server restart. Both asynchronous read and write operations are restored. If a request cannot be restored after five attempts, it fails. In this case, you can retry sending the request.

For information about asynchronous web services operations, see the help topics [Synchronous Versus Asynchronous Request Processing](#) and [Web Services Asynchronous Operations](#).

Release Preview Version of 2018.1 WSDL Now Available

When your implementation is upgraded to 2018.1, the 2018.1 WSDL becomes available in your production account type. However, this version is considered a beta released product. During the time that the WSDL is in beta, changes may be made that are backward incompatible. It is recommended that you use the beta version for testing and development purposes only. After the WSDL becomes generally available, you can upgrade your other client applications.

You are able to access the new WSDL during your Release Preview period. Click [here](#) to view the 2018.1 Release Preview (beta) WSDL.

 **Note:** Previously you accessed the Release Preview WSDL in the beta domain. As of 2018.1, you must access it on the NetSuite domain. This change results from the transition of Release Preview accounts from the beta domain to the NetSuite domain this release. The NetSuite domain is the domain used by production accounts. For more information, see [Release Preview Changes in North America](#).

Araxis Merge Diff File for the 2018.1 Endpoint

The [Araxis Merge Diff file](#) highlights 2017.2 - 2018.1 schema changes.

- [About the Araxis Diff File](#)
- [Using the Araxis Diff File](#)

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 for illustrative purposes **only**. 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 appears that offers an overview of all schema changes.

The following screenshot shows how this summary page looks. 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).

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

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 screenshot shows an excerpt from the report on platform.commonTypes.xsd. Notice 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 screenshot is a snapshot of transactions.sales.xsd. Notice that the chargeType element changed from an enumeration to a RecordRef.

1054	<element name="vaccDelivered" type="xsd:boolean" minOccurs="0"/>	1065	<element name="vaccDelivered" type="xsd:boolean" minOccurs="0"/>
1055	<element name="chargeType" type="platformCommonType:ChargeRuleType" minOccurs="0"/>	1066	<element name="chargeType" type="platformCore:RecordRef" minOccurs="0"/>
1056	<element name="chargeList" type="platformCore:RecordRefList" minOccurs="0"/>	1067	<element name="chargeList" type="platformCore:RecordRefList" minOccurs="0"/>
1057	<element name="customFieldList" type="platformCore:CustomFieldList" minOccurs="0"/>	1068	<element name="customFieldList" type="platformCore:CustomFieldList" minOccurs="0"/>

2018.1 SuiteTalk Schema Browser

The 2018.1 version of the [SuiteTalk Schema Browser](#) is now available. You can find links to the Schema Browser in several places, including the following:

- The help topic titled [SuiteTalk Schema Browser](#).
- 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.

SuiteCloud IDE

SuiteCloud IDE is an integrated development environment (IDE) that is packaged for NetSuite platform development.

SuiteCloud IDE 2018.1 includes the following features and behavior changes:

- [SuiteCloud IDE Support for Eclipse Mars](#)
- [SuiteCloud IDE for Eclipse Kepler Now Deprecated](#)
- [SuiteCloud IDE 2018.1 is Now Available](#)

Generally, SuiteCloud IDE 2018.1 behavior changes are designed to support the SuiteCloud Development Framework. In addition, SuiteCloud IDE versions 2017.1 and later have compatibility requirements. The version of your SuiteCloud IDE must match the version of your NetSuite account before you can use SuiteCloud IDE to create SuiteCloud Development Framework (SDF) projects. For information about additional features that impact SuiteCloud IDE, see the release note for [SuiteCloud Development Framework](#).

SuiteCloud IDE Support for Eclipse Mars

As of 2018.1, SuiteCloud IDE supports Eclipse Mars. Upgrading from Eclipse Kepler to Eclipse Mars is supported but not required. For information about upgrading Eclipse, see the help topic [Upgrading SuiteCloud IDE for Eclipse from Kepler to Mars](#).

Note: SuiteCloud IDE for Eclipse Mars requires Java 1.8 or later. For additional requirements, see the help topic [SuiteCloud IDE Installation Prerequisites](#).

For information about downloading and unpacking Eclipse, see the help topic [Downloading Eclipse for Use with SuiteCloud IDE](#).

SuiteCloud IDE for Eclipse Kepler Now Deprecated

SuiteCloud IDE for Eclipse 2018.1 is compatible with Eclipse Kepler but no longer certified. To use the latest version of SuiteCloud IDE with NetSuite 2018.1, Oracle recommends upgrading your Eclipse Kepler clients to Eclipse Mars.

For more information, see [SuiteCloud IDE 2018.1 is Now Available](#).

For information about upgrading SuiteCloud IDE, see the help topic [Upgrading SuiteCloud IDE for Eclipse from Kepler to Mars](#).

SuiteCloud IDE 2018.1 is Now Available

SuiteCloud IDE 2018.1 is now available for download.



Important: When your account is upgraded to 2018.1, your instance of SuiteCloud IDE is not updated automatically to SuiteCloud IDE 2018.1. After your account upgrade, you must manually upgrade SuiteCloud IDE. For more information, see the help topic [Updating Eclipse for Use with SuiteCloud IDE](#).

SuiteCloud Development Framework

SuiteCloud Development Framework (SDF) is a development framework and deployment mechanism. Customers and partners can use SDF to create customization projects for internal use within their organizations or for commercial distribution. For more information about SDF, see the help topic [SuiteCloud Development Framework Overview](#).

For a complete list of custom records and customizations that are supported by SDF, see the help topic [Supported Custom NetSuite Objects](#).

With the release of SuiteCloud Development Framework, we have also updated the SuiteCloud Terms of Service in September 2016 to specifically include SuiteCloud Development Framework as one of the listed SuiteCloud Technologies and to make other clarifying changes. You can review the complete updated terms at <http://www.netsuite.com/termsofservice>.

NetSuite 2018.1 includes the following enhancements to SuiteCloud Development Framework features:

- [SDF SuiteApp Interoperability: Referencing SuiteApp Objects from External SDF SuiteApps Now Supported](#)
- [New Supported Format for Custom Object References](#)
- [Installation Preferences Supported for SuiteApp Projects](#)
- [Saved CSV Import Maps Supported in SDF](#)
- [Advanced PDF/HTML Templates Supported in SDF](#)
- [Email Templates Supported in SDF](#)
- [Ability to Set Custom Record Permissions on Custom Role Objects through SDF](#)
- [Token-based Authentication \(TBA\) Supported for Login to NetSuite from SuiteCloud IDE and SDF CLI](#)
- [Published Dashboards and Most Standard Portlets Supported in SDF](#)
- [KPI Scorecards Supported in SDF](#)
- [Custom Transaction Types Supported in SDF](#)
- [Downloadable SDF File Now Known as SDF SDK 2018.1 is Available](#)

Generally, SDF features are supported by SuiteCloud IDE. SuiteCloud IDE for Eclipse is targeted to be released in March 2018. In addition, SuiteCloud IDE versions 2017.1 and later have compatibility requirements. The version of your SuiteCloud IDE must match the version of your NetSuite account before you can use SuiteCloud IDE to create SuiteCloud Development Framework (SDF) projects. For information about additional features that may impact SDF, see the release notes for [SuiteCloud IDE](#).

SDF SuiteApp Interoperability: Referencing SuiteApp Objects from External SDF SuiteApps Now Supported

In previous releases, SDF projects were unable to reference other SuiteApp objects. A SuiteApp project was able to reference only objects sourced within that same project.

As of 2018.1, you can define dependencies on SuiteApp objects that are external to your SDF project. This capability provides better SuiteApp interoperability and greater possibilities for reuse across applications.

SDF supports a new <applications> element for the manifest file, and a new custom object reference format so that you can specify an object's application ID value.

To make a reference to an external SuiteApp object, complete the steps in any order:

- From an object's XML file, insert the reference within square brackets. For example:

```
<objectref>[appid=com.samples.mysuiteapp, scriptid=customrecord_sample]</objectref>
```

- Automatically or manually add the reference to the manifest. For example:

```
<applications>
  <application id="com.samples.mysuiteapp">
    <objects>
      <object>customrecord_sample</object>
    </objects>
  </application>
</applications>
```



Note: You can reference only the objects in an SDF SuiteApp. You cannot reference the entire SuiteApp, its files, or its scripts.



Warning: Your NetSuite account and SuiteCloud IDE must both be upgraded to Release 2018.1 to use external SuiteApp object references.

For more information, see the help topic [SDF SuiteApp Object Dependencies](#).

New Supported Format for Custom Object References

SDF supports a new notation format for custom object references made in SDF projects.

In previous releases, custom references were referenced by their script ID value. For example:

```
[custobject_sample]
```



Note: SDF supports the legacy format for compatibility, such as the example above.

As of 2018.1, SDF supports a new custom object reference format that consists of attribute=value pairs. For example, the following is a custom object reference to an object with a script ID of custobject_sample:

```
[scriptid=custobject_sample]
```

This new format enhances the clarity of your custom object references by denoting attribute values with a descriptor. The new format is automatically applied when objects are imported from your NetSuite account into an SDF project.

In addition to the scriptid descriptor, custom object references support an appid descriptor. For more information about this descriptor, see [SDF SuiteApp Interoperability: Referencing SuiteApp Objects from External SDF SuiteApps Now Supported](#).



Warning: Your NetSuite account and SuiteCloud IDE must both be upgraded to Release 2018.1 to use external SuiteApp object references.

For more information, see the help topic [Account Component Dependencies](#).

Installation Preferences Supported for SuiteApp Projects

As of 2018.1, you can define and control versions of installation preferences for your SuiteApp projects from SuiteCloud IDE or SDF CLI. With these new preferences, you have more explicit control over the deployment behavior of SuiteApp projects.

When you create a new SuiteApp project, it always comes with an installation folder. You can populate it with locking.xml and hiding.xml files so that you can:

- [Lock Most Custom Objects Using Installation Preferences](#)
- [Hide Files Using Installation Preferences](#)

There is a new check box, called Apply Content Protection, that appears as an option each time you deploy your SuiteApp project. You must enable this option to lock the objects or hide the files deployed to the account. If you do not want apply a locking or hiding configuration to a deployment instance, such as for testing purposes, you can stop using your installation preferences by clearing the Apply Content Protection box when you deploy the project.

When you deploy a project, installation preferences are validated.

For more information, see the help topic [Installation Preferences in a SuiteApp Project](#).

Lock Most Custom Objects Using Installation Preferences

SDF now supports the ability to lock most custom objects in a SuiteApp project. Previously, you had to use SuiteBundler to have the ability to lock a custom object.

You can use this new locking preference to help protect an object's fields. When an object is successfully locked, the object's fields cannot be modified by anyone except the author. The locking capability is designed to prevent changes to the object's fields by users in target accounts where the SuiteApp is installed. Locking an object does not prevent target account users from seeing the object, only from editing it.

To use the locking preference, create a locking.xml file in the InstallationPreferences Folder of a SuiteApp project.

From the locking.xml file, specify preference type, default action, and object. For example, to hide the myobject12 object, set the preference type to LOCKING, set the apply action to LOCK, and add the script ID in the locking.xml file:

```
<preference type="LOCKING" defaultAction="UNLOCK">
  <apply action="LOCK">
```

```
<object>myobject12</object> <!-- lock an object -->
</apply></preference>
```

When you deploy the project, you must select the Apply Content Protection check box to enable the specifications in the locking.xml file.

Note that setting a value for default action can reduce the steps in applying a preference to many objects at a time. Supported values for default action are "LOCK" or "UNLOCK". The default action applies to custom objects in your project that are not in the apply list of your locking.xml file. In the example above, the installation locking preference for lockable custom objects in the SuiteApp project is UNLOCK, so all SuiteApp objects other than myobject12 are not locked.

Note: Locking is not supported for files or folders.

For more information, see the help topic [Locking Preferences for Custom Objects](#).

Hide Files Using Installation Preferences

SDF now supports hiding files in a SuiteApp project.

When a file is hidden, it cannot be viewed or downloaded. Hidden files cannot be overwritten in the NetSuite account through the Add File, Advanced Add, Copy Files, or Move Files actions in the file cabinet.

Note: In previous releases, the Hide in SuiteBundle property was required to hide files and it was only possible to hide files using SuiteBundler.

To use the hiding preference, create a hiding.xml file in the InstallationPreferences Folder of a SuiteApp project.

From the hiding.xml file, specify the preference type, default action, and object. For example, to hide the a.js file, set the preference type to HIDING, set the apply action to HIDE, and add the file paths to the hiding.xml file:

```
<preference type="HIDING" defaultAction="UNHIDE">
  <apply action="HIDE">
    <path>~/FileCabinet/SuiteApps/com.netsuite.myFile/a.js</path> <!-- hide a file -->
    <path appliesTo="FILES">~/FileCabinet/SuiteApps/com.netsuite.myFiles/*</path> <!-- hide
all the files in my application -->
  </apply>
</preference>
```

When you deploy the project, you must check the Apply Content Protection box to enable the specifications in the hiding.xml file.

Setting a value for default action can reduce the steps in applying a preference to many files at one time. Supported values for default action are "HIDE" or "UNHIDE". The default action applies to custom objects in your project that are not in the apply list of your hiding.xml file. In the example above, the installation locking preference for files in the SuiteApp project is UNHIDE, so all objects other than the a.js file are not hidden.

Note: You cannot hide client SuiteScripts.

For more information, see the help topic [Hiding Preferences for Files](#).

Saved CSV Import Maps Supported in SDF

As of 2018.1, SDF supports saved CSV import maps. A saved CSV import map is a way to transfer data sets from external applications into NetSuite using comma separated value (CSV) files. You can create saved CSV import maps using SuiteCloud IDE or SDF CLI.

The <savedcsvimport> custom object contains the saved CSV import map and includes field mappings from CSV data to fields in objects in NetSuite. The <savedcsvimport> object does not contain CSV file data, and the CSV file can be included in the SDF project only as a file cabinet file. The CSV file contents cannot be deployed to an account as record instance data. The CSV file is provided by your users when they make use of the CSV saved import.

The following is an example of a <savedcsvimport> custom object that maps phone number fields in a CSV file to fields on the Sales Order record type:

```
<savedcsvimport scriptid='custimport_salesorder'>
  <recordtype>SALESORDER</recordtype>
  <importname>Sales Order Import</importname>
  <datahandling>ADDUPDATE</datahandling>
  <columndelimiter>PIPE</columndelimiter>
  <transactionform>[custform_csv_import]</transactionform>
  <description>Sales Order Import</description>
  <decimaldelimiter>COMMA</decimaldelimiter>
  <filemappings>
    <filemapping>
      <file>SALESORDER</file>
    </filemapping>
  </filemappings>
  <recordmappings>
    <recordmapping>
      <record>SALESORDER</record>
      <fieldmappings>
        <fieldmapping>
          <field>STDPHONE</field>
          <columnreference>
            <file>SALESORDER</file>
            <column>Phone Number</column>
          </columnreference>
        </fieldmapping>
      </fieldmappings>
    </recordmapping>
  </recordmappings>
</savedcsvimport>
```

For information about saved CSV imports, see the following:

- [Working with Saved CSV Imports](#)
- [savedcsvimport](#)

Advanced PDF/HTML Templates Supported in SDF

As of 2018.1, SDF supports advanced PDF/HTML templates that can be associated with transaction forms. The <advancedpdftemplate> custom object can be used to develop advanced PDF/HTML

templates in an SDF project. You can create new custom objects, or import existing objects into your SDF project using SuiteCloud IDE or SDF CLI.

There are two components to advanced PDF/HTML templates in an SDF project:

- The <advancedpdftemplate> custom object file, which contains the XML representation of the template record.

The following is an example of a <advancedpdftemplate> custom object that customizes a payment voucher PDF/HTML template:

```
<advancedpdftemplate scriptid="custtmpl_100_1326288_617" standard="STDTPMLPAYMENTVOUCHER">
  <description>This template is used for payment vouchers.</description>
  <displaysourcecode>F</displaysourcecode>
  <isinactive>F</isinactive>
  <preferred>T</preferred>
  <title>Custom Payment Voucher PDF/HTML Template</title>
</advancedpdftemplate>
```

- The template definition file, which contains the HTML code that defines the template. There are existing template definitions that you can customize for your business needs. The template definition file is automatically created when you create an <advancedpdftemplate> custom object file in SuiteCloud IDE. The template definition is also included when you import the <advancedpdftemplate> custom object into your SDF project.

For information on templates, see the help topics [Reviewing Available Advanced Templates](#) and [Customizing Advanced Templates in the Template Editor](#).

To deploy advanced PDF/HTML templates to your NetSuite account, enable the Advanced PDF/HTML Templates feature. For more information, see the help topic [Enabling the Advanced PDF/HTML Templates Feature](#).

For more information about advanced PDF/HTML templates, see the help topic [Advanced PDF/HTML Templates](#).

Email Templates Supported in SDF

As of 2018.1, SDF supports email templates that generate personalized email messages to send to business contacts. The <emailtemplate> custom object can be used to develop custom email templates in an SDF project. You can create new email templates, or import existing email templates from your NetSuite account into an SDF project using SuiteCloud IDE or SDF CLI.

There are two components to email templates in an SDF project:

- The <emailtemplate> custom object file, that contains the XML representation of the template record.

For the list of available fields, see the help topic [emailtemplate](#).

The following is an example of an <emailtemplate> custom object that defines an email template for messages confirming that a quote request was received:

```
<emailtemplate scriptid="custemailtpl_quoterequest">
  <name>Reply to quote request</name>
  <recordtype>ENTITY</recordtype>
  <subject>We have received your request</subject>
  <usesmedia>F</usesmedia>
```

```
</emailtemplate>
```

- The template definition file, which contains the HTML and Freemarker code that defines the email template. The template definition file is automatically created when you create an `<emailtemplate>` custom object file in SuiteCloud IDE. The template definition file is also included when you import the `<emailtemplate>` custom object into your SDF project.

The template definition file can be located in either the SDF project or the file cabinet in the target account. When you include a template definition file in the SDF project, the `usesmedia` field must be set to F in the `<emailtemplate>` custom object. Existing template definition files can be referenced from the file cabinet in the target account by setting the `usesmedia` field to T and specifying the path in the `mediaitem` field of the custom object. For account customization projects, the referenced files must be located in the `Templates/E-mail Templates` or `Templates/Marketing Templates` directories of the file cabinet in the SDF project or target account. For SuiteApp projects, the referenced files must be located in the `SuiteApps/appID` directory in the SDF project, where `appID` is the application ID for the SuiteApp.

For information on customizing email templates, see the help topics [Customizing Templates for System-Automated Email](#) and [Scriptable Templates](#).

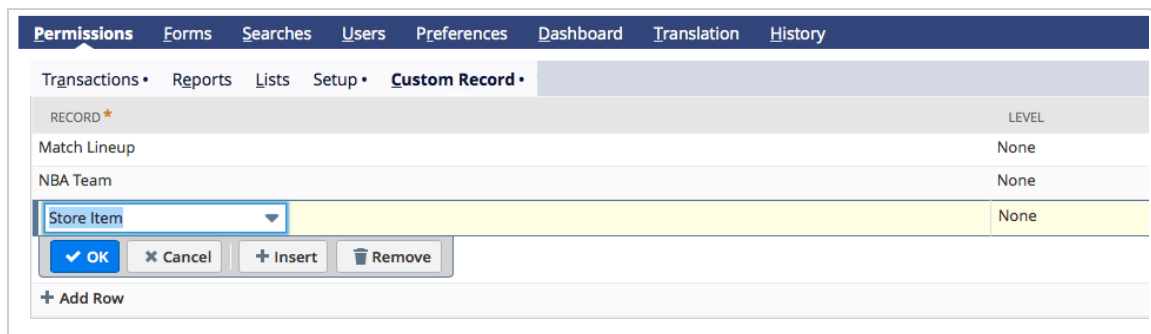
To deploy email templates to your NetSuite account, enable the Customer Relationship Management feature.

Ability to Set Custom Record Permissions on Custom Role Objects through SDF

In previous releases of SDF, a custom role object could only assign permissions to standard records.

As of 2018.1, you can specify permissions on custom record types from a custom role object in an SDF project. This enhancement complements the existing functionality where you can specify permissions on custom roles from a custom record type object in an SDF project.

The custom role object enhancement is the SDF equivalent of specifying a custom record list entry under the Permissions tab of a Role record in NetSuite, as shown in the following image:



In a custom role object, the `<permkey>` child element of `<permission>` elements now supports custom record type references. The following example shows a custom role object that sets the permission level of a `customrecord_sample` custom record type to **View**. It sets the restriction level to **View and Edit**.

```
<role scriptid="customrole_sample">
  <centertype>ACCOUNTCENTER</centertype>
  <issalesrole>F</issalesrole>
```

```

<issupportrole>F</issupportrole>
<iswebserviceonlyrole>F</iswebserviceonlyrole>
<name>Sample Role</name>
<permissions>
  <permission>
    <permkey>[customrecord_sample]</permkey>
    <permlevel>VIEW</permlevel>
    <restriction>VIEWANDEDIT</restriction>
  </permission>
</permissions>
</role>

```

In a custom record type object, the `<permittedrole>` child element of `<permission>` elements now supports custom role references. The following example shows a custom record type object that permits users with the `customrole_sample` role to view the record. It sets the restriction level to **View and Edit**.

```

<customrecordtype scriptid="customrecord_sample">
  ...
  <permissions>
    <permission>
      <permittedlevel>VIEW</permittedlevel>
      <permittedrole>[customrole_sample]</permittedrole>
      <restriction>VIEWANDEDIT</restriction>
    </permission>
  </permissions>
</customrecordtype>

```

Note: The `<restriction>` element in both custom object types is applicable only to permissions that reference custom objects.

Note: If an SDF project contains a custom record type and a custom role that reference each other, the levels of permission and restriction must match in both objects. For example, if the custom record type sets the custom role with the VIEW permission level, that custom role must set the custom record type permission level to VIEW. Projects that contain a level mismatch cannot be deployed to your NetSuite account.

For more information, see the help topic [Roles and Permissions as an XML Definition](#).

Token-based Authentication (TBA) Supported for Login to NetSuite from SuiteCloud IDE and SDF CLI

As of 2018.1, token-based authentication (TBA) can be used with custom roles to log in to NetSuite Production accounts from SuiteCloud IDE and SDF CLI. TBA tokens provide you the following advantages:

- Increased development environment security
- A simplified login procedure that eliminates the need for login credentials
- Fewer session terminations when using a single login to develop SDF projects and navigate in the NetSuite application

To use TBA with a custom role for SDF development, you must grant the **User Access Tokens** permission to the custom role. Additionally, the account must have the **Token-based Authentication** feature enabled. For more information, see the help topic [Enabling SDF in Your NetSuite Account \(Admin Only\)](#).

In SuiteCloud IDE, you can issue and revoke TBA tokens for your NetSuite Production accounts. SuiteCloud IDE now includes an enhancement to the **Manage Accounts** menu. For more information about managing TBA tokens in SuiteCloud IDE, see the help topic [Managing Token-based Authentication in an Account using SuiteCloud IDE](#).

In SDF CLI, you can use two new commands to issue and revoke TBA tokens for your NetSuite Production accounts. For more information, see:

- [Token-based Authentication in CLI](#)
- [issuetoken](#)
- [revoketoken](#)

Published Dashboards and Most Standard Portlets Supported in SDF

As of 2018.1, SDF supports published dashboards and most standard portlets that are supported by published dashboards, including custom portlets.

The following portlets are supported by the published dashboard object in SDF:

- [Calendar Portlets](#)
- [Custom Portlets](#)
- [Custom Search Portlets](#)
- [Key Performance Indicator \(KPI\) Portlets](#)
- [KPI Meter Portlets](#)
- [List Portlets](#)
- [Quick Search Portlets](#)
- [Search Form Portlets](#)
- [Trend Graph Portlets](#)

A **published dashboard** object in SDF stores settings for a collection of dashboards in your NetSuite account. These objects are associated with a single Center and can be applied to multiple roles in that Center. Each **dashboard** in the published dashboard object controls the layout of portlets in any single Center Tab that is available in the specified Center, such as Home, Activities, Transactions, Lists, or Reports.

You can customize dashboards for multiple Center Tabs in a single published dashboard object. Publishing settings, such as applicable roles and locking, are also specified in the published dashboard object.

Customizing and deploying a published dashboard object from your SDF project to your NetSuite account is the equivalent of going to the **Settings** portlet in NetSuite, clicking **Publish Dashboard**, and editing the record. All fields in this NetSuite record are supported in SDF except for the **Override Existing User's Settings** column in the **Apply to Roles** list. The following image shows some of the fields in the record that are supported by the published dashboard object:

Publish Dashboard

List More

Save
Cancel

NAME *

CENTER TYPE
Classic Center

NOTES

☐ LOCK SHORTCUTS

☐ LOCK NEW BAR

- The Name and Notes fields are for your reference. They will not be exposed to users.
- To edit a dashboard, you must log in to the center where the dashboard is published.
- If you check the **Override existing user's settings** box, the personal settings of existing users assigned to the role will be replaced with the published dashboard. If this box is cleared, only users newly assigned to the role will view the published dashboard.
- To make changes to published dashboards, update the content you display and then click List next to Publish Dashboards. Click Edit next to the dashboard you want to change. Choose to apply your changes to both existing and new users assigned to the role, or to only those newly assigned to the role. Then click **Save and Update Content**.
- If you lock Shortcuts or New Bar links, users will not be able to remove them, however they will be able to add their own, and re-order.

Apply To Roles Apply To Tabs *

Please select tabs you would like to publish for this dashboard.

- Unlocked - Users can add/remove/modify dashboard content without restriction
- Locked - Users can not make any changes to their dashboard content
- Add/Move content - Users can add or move dashboard content but can not remove published content

Mark All
Unmark All

APPLY	MODE	TAB
<input type="checkbox"/>	Unlocked ▼	Publisher Dashboard
<input type="checkbox"/>	Unlocked ▼	Home
<input type="checkbox"/>	Unlocked ▼	Project Dashboard
<input type="checkbox"/>	Unlocked ▼	Vendor Dashboard
<input type="checkbox"/>	Unlocked ▼	Customer Dashboard
<input type="checkbox"/>	Unlocked ▼	Activities

Published dashboard objects are represented by a new custom object in SDF named `<publisheddashboard>`. The following is an example of a published dashboard object for the Classic Center, known as the BASIC Center in SDF. It specifies a three-column dashboard for the Classic Center Home tab and a single-column dashboard for a Classic Center custom tab named `custcentertab_basic_tab`. In each dashboard, portlet definitions, such as `<calendar>` or `<trendgraph>`, can be specified in the `<leftcolumn>`, `<centercolumn>`, or `<rightcolumn>` elements, depending on the dashboard layout that you specified. When deployed to NetSuite, the dashboards are applied to any new employees that have either a full access role or the `customrole_my_basic_role` custom role assigned to them.

```
<publisheddashboard scriptid="custpubdashboard_basic">
  <center>BASIC</center>
  <name>Classic Center Published DB</name>
  <dashboards>
    <dashboard>
      <centertab>BASICCENTERHOMEHOME</centertab>
      <layout>THREE_COLUMN</layout>
      <mode>UNLOCKED</mode>
      <leftcolumn>
        <!-- Insert left column portlet definitions here. -->
      </leftcolumn>
      <centercolumn>
        <!-- Insert center column portlet definitions here. -->
      </centercolumn>
      <rightcolumn>
        <!-- Insert right column portlet definitions here. -->
      </rightcolumn>
    </dashboard>
  </dashboards>
</publisheddashboard>
```

```

<dashboard>
  <centertab>[custcentertab_basic_tab]</centertab>
  <layout>SINGLE_COLUMN</layout>
  <mode>LOCKED</mode>
  <centercolumn>
    <!-- Insert center column portlet definitions here. -->
  </centercolumn>
</dashboard>
</dashboards>
<roles>
  <role>
    <role>FULL_ACCESS</role>
  </role>
  <role>
    <role>[customrole_my_basic_role]</role>
  </role>
</roles>
</publisheddeashboard>

```



Important: You cannot use SDF to override dashboards or dashboard settings for existing users. You can apply the settings of a <publisheddeashboard> object to existing users in an account after the object is deployed to that account. Create a new employee in that account, and assign this new user a role that is associated with the published dashboard and that has the Publish Dashboard permission. This user can then log in to NetSuite and edit the published dashboard to publish the dashboard to existing users with the **Override Existing User's Settings** box checked.

For more information, see the help topics [Publishing Dashboards Overview](#) and [publisheddeashboard](#).

Calendar Portlets

Calendar portlets list your activities, ordered by date and time, with links to activity records.

Calendar portlets in SDF are represented with the <calendar> element. You can specify this element in a dashboard of a published dashboard object.

The following example shows a calendar portlet definition that sets the number of records to display in the agenda view to fifteen:

```

<calendar>
  <numberofrecordsinagenda>15</numberofrecordsinagenda>
  <isminimized>T</isminimized>
  <showevents>F</showevents>
</calendar>

```

For more information about calendar portlets, see the help topics [Calendar Portlets](#) and [calendar](#).

Custom Portlets

Custom portlets run portlet scripts on a dashboard. For more information about portlet scripts, see the help topic [SuiteScript 2.0 Portlet Script Type](#).

Custom portlets in SDF are represented with the <customportlet> element. You can specify this element in a dashboard of a published dashboard object.

Custom portlet objects consist of a <source> element that refers to a deployment of a custom portlet script. The following example shows a custom portlet definition that runs a deployed portlet SuiteScript named customscript_myportlet:

```
<customportlet>
  <source>[customscript_myportlet.customdeploy_deployment]</source>
</customportlet>
```

For more information about custom portlets, see the help topics [Custom Portlets](#) and [customportlet](#).

Custom Search Portlets

Custom search portlets can be configured to display saved search results on a dashboard.

Custom search portlets in SDF are represented with the <customsearch> element. You can specify this element in a dashboard of a published dashboard object.

The following example shows a custom search portlet definition that displays up to ten results from a custom saved search. The portlet redirects users to a new page that displays the results of the drilldown.

```
<customsearch>
  <savedsearch>[savedsearch_customsearch]</savedsearch>
  <resultssize>10</resultssize>
  <drilldown>NEW_PAGE</drilldown>
  <charttheme>GLOBAL_THEME</charttheme>
  <backgroundtype>GLOBAL_BACKGROUND</backgroundtype>
  <title>My Custom Saved Search Portlet</title>
  <allowinlineediting>T</allowinlineediting>
</customsearch>
```

For more information about custom search portlets, see the help topics [Custom Search Portlets](#) and [customsearch](#).

Key Performance Indicator (KPI) Portlets

KPIs provide summaries of your forecast, pipeline, orders, cases, and financial data on a dashboard. Each KPI compares data based on reports over different time ranges. You can reference standard KPIs or create custom KPIs based on saved searches.

KPI portlets in SDF are represented with the <keyperformanceindicators> element. You can specify this element in a dashboard of a published dashboard object.

The following example shows a KPI portlet definition that sets up three distinct KPIs, Bank Balance, Closed Cases, Utilization. Each KPI contains child elements to represent the included data, such as date or period ranges and comparisons.

```
<keyperformanceindicators>
  <cachedata>F</cachedata>
  <kpis>
    <kpi>
      <compare>T</compare>
      <comparedaterange>LAST_MONTH_TO_DATE</comparedaterange>
      <compareperiodrange>LAST_PERIOD</compareperiodrange>
      <daterange>TODAY</daterange>
      <headline>F</headline>
```

```

    <kpi>BANKBAL</kpi>
    <periodrange>THIS_PERIOD</periodrange>
  </kpi>
  <kpi>
    <compare>T</compare>
    <comparedaterange>LAST_WEEK</comparedaterange>
    <daterange>THIS_WEEK</daterange>
    <headline>F</headline>
    <highlightif>ALWAYS</highlightif>
    <kpi>CLOSEDCASES</kpi>
  </kpi>
  <kpi>
    <daterange>LAST_MONTH</daterange>
    <headline>F</headline>
    <kpi>UTILIZATION</kpi>
    <periodrange>THIS_PERIOD</periodrange>
  </kpi>
</kpis>
</keyperformanceindicators>

```

The <kpi> element supports several child elements to configure KPIs but some of these child elements are not supported by all KPI types. In addition, some child elements function differently depending on whether the Accounting Periods feature is enabled in your account. Due to these caveats and the varied configurations for each portlet, SDF performs extensive validation on KPI portlets when they are deployed to your NetSuite account. This validation ensures that the child elements used for any KPI type is supported.

Note: Some KPI fields may contain or require account-specific values. These values cannot be specified or imported into an SDF project. These values can be specified in the portlet using the NetSuite UI only after the published dashboard is deployed to your account.

For more information about KPI portlets, see the help topics [Key Performance Indicators Portlet](#) and [keyperformanceindicators](#).

KPI Meter Portlets

KPI meter portlets display data for one of the KPIs included in a KPI portlet on the same dashboard.

KPI meter portlets in SDF are represented with the <kpimeter> element. You can specify this element in a dashboard of a published dashboard object.

The following example shows a KPI meter portlet definition that illustrates the Bank Balance KPI data in a meter:

```

<kpimeter>
  <kpi>BANKBAL</kpi>
</kpimeter>

```

For more information about KPI meter portlets, see the help topics [KPI Meter Portlets](#) and [kpimeter](#).

List Portlets

List portlets display records of a specific record type. You can choose a standard record type, such as employees, activities, transactions, or a custom record type. Additionally, you can use this portlet to display saved search results related to the record type.

List portlets in SDF are represented with the `<list>` element. You can specify this element in a dashboard of a published dashboard object.

The following example shows a list portlet definition that displays a list of up to 25 customer records:

```
<list>
  <type>CUSTOMER</type>
  <size>25</size>
  <allowinlineediting>F</allowinlineediting>
</list>
```

For more information about list portlets, see the help topics [List Portlets](#) and [list](#).

Quick Search Portlets

Quick Search portlets search for general records or transaction records from a dashboard.

Quick search portlets in SDF are represented with the `<quicksearch>` element. You can specify this element in a dashboard of a published dashboard object.

The following example shows a quick search portlet definition that searches over general records, such as customers, campaigns, and vendors. The default search type is set to campaign records, and cash refund transaction types are searched.

```
<quicksearch>
  <searchtype>GENERIC</searchtype>
  <defaultgeneraltype>CAMPAIGN</defaultgeneraltype>
  <defaulttransactiontype>CASH_REFUND</defaulttransactiontype>
</quicksearch>
```



Important: Quick search portlet objects in SDF cannot search custom transactions.

For more information about quick search portlets, see the help topics [Quick Search Portlet](#) and [quicksearch](#).

Search Form Portlets

When you use a saved search as your preferred search form, you can reference the saved search in a search form portlet on a dashboard.

Search form portlets in SDF are represented with the `<searchform>` element. You can specify this element in a dashboard of a published dashboard object.

The following example shows a search form portlet definition that references a custom saved search that was set as a preferred search in NetSuite:

```
<searchform>
  <savedsearch>[savedsearch_customsearch]</savedsearch>
</searchform>
```

For more information about search form portlets and preferred search forms, see the following:

- [Defining a Saved Search as a Preferred Search Form](#)
- [Search Form Portlet](#)
- [searchform](#)

Trend Graph Portlets

Trend graph portlets show the differences in KPIs data over time. Up to five trend graph portlets can be added to a dashboard.

Trend graph portlets in SDF are represented with the `<trendgraph>` element. You can specify this element in a dashboard of a published dashboard object.

The following example shows a trend graph portlet definition that displays monthly ESTIMATES KPI data in an area chart:

```
<trendgraph>
  <defaultcharttype>AREA</defaultcharttype>
  <kpi>ESTIMATES</kpi>
  <trendtype>MONTHLY</trendtype>
  <showmovingaverage>T</showmovingaverage>
  <movingaverageperiod>2</movingaverageperiod>
  <showlastdatapoint>T</showlastdatapoint>
  <includezeroonyaxis>F</includezeroonyaxis>
  <charttheme>GLOBAL_THEME</charttheme>
  <backgroundtype>GLOBAL_BACKGROUND</backgroundtype>
  <customseriescolor>#ABCDEF</customseriescolor>
</trendgraph>
```

For more information about trend graph portlets, see the help topics [Trend Graph Portlets](#) and [trendgraph](#).

KPI Scorecards Supported in SDF

As of 2018.1, SDF supports KPI Scorecards, which provide complex comparisons among multiple KPIs over multiple date ranges or accounting periods. You can create or import KPI scorecard objects in an SDF project to store your selection of performance indicators, mathematical formulas, time periods, and date ranges. Each KPI scorecard object supports several standard KPIs and up to ten custom KPIs that are based on saved searches. For more information about KPI Scorecards, see the help topic [KPI Scorecards Overview](#).

KPI scorecards are referenced by the `<kpiscorecard>` root element in SDF. The following is an example of a KPI scorecard object. This scorecard creates a matrix involving two key performance indicators, COGS vs Bank Balance and Activities vs Previous, and two ranges, THIS FISCAL HALF and LAST YEAR VS. THIS FISCAL YEAR.

```
<kpiscorecard scriptid="custkpiscorecard_sample">
  <name>Sample KPI</name>
  <useperiods>F</useperiods>
  <kpis>
    <kpi>
      <comparevalueto>BANKBAL</comparevalueto>
      <comparewithprevious>F</comparewithprevious>
      <hidden>F</hidden>
      <invertcomparison>F</invertcomparison>
      <kpi>COGS</kpi>
    </kpi>
    <kpi>
      <comparewithprevious>T</comparewithprevious>
      <comparisontype>RATIO_PERCENT</comparisontype>
    </kpi>
  </kpis>
</kpiscorecard>
```

```

        <hidden>F</hidden>
        <invertcomparison>T</invertcomparison>
        <kpi>CUSTOM</kpi>
    </kpi>
</kpis>
<ranges>
    <range>
        <comparewithprevious>F</comparewithprevious>
        <invertcomparison>T</invertcomparison>
        <range>THIS_FISCAL_HALF</range>
    </range>
    <range>
        <comparevalueto>THIS_FISCAL_YEAR</comparevalueto>
        <comparewithprevious>F</comparewithprevious>
        <comparisontype>SUM</comparisontype>
        <invertcomparison>F</invertcomparison>
        <range>LAST_YEAR</range>
    </range>
</ranges>
<custom>
    <kpi1>ACTIVITIES</kpi1> <!-- Saved Search associated with the first CUSTOM KPI -->
</custom>
<highlightings>
    <highlighting>
        <backgroundcolor>000000</backgroundcolor>
        <bold>T</bold>
        <condition>ALWAYS</condition>
        <foregroundcolor>FF0000</foregroundcolor>
        <headline>T</headline>
        <icon>DOLLAR_SIGN_3</icon>
        <kpiindex>1</kpiindex>
        <rangeindex>1</rangeindex>
    </highlighting>
</highlightings>
<audience>
    <allemployees>F</allemployees>
    <allpartners>F</allpartners>
    <allroles>T</allroles>
</audience>
</kpiscorecard>

```

After deploying a KPI scorecard object from an SDF project to your NetSuite account, you can reference it from a published dashboard through NetSuite.



Note: KPI Scorecard objects cannot be referenced or configured for use in any published dashboard objects that are managed through an SDF project. For information, see [Published Dashboards and Most Standard Portlets Supported in SDF](#).

For more information about KPI Scorecard objects, see the help topic [kpiscorecard](#).

Custom Transaction Types Supported in SDF

As of 2018.1, SDF supports custom transaction types that are tailored to your business needs. The `<customtransactiontype>` custom object can be used to develop custom transaction types in an SDF

project. You can create new custom transactions, or import existing custom transactions into your SDF project using SuiteCloud IDE or SDF CLI.

At this time, SDF only supports the text fields and status of a custom transaction type. Custom transaction instances are not supported. For the list of fields, see the help topic [customtransactiontype](#).

The following is an example of a <customtransactiontype> custom object that defines a group purchase custom transaction:

```
<customtransactiontype scriptid="customtransaction_grouppurchase">
  <iscredit>F</iscredit>
  <isposting>F</isposting>
  <isvoidable>F</isvoidable>
  <name>Group Purchase</name>
  <showstatus>F</showstatus>
  <subliststyle>BASIC</subliststyle>
  <segments>
    <classposition>NONE</classposition>
    <departmentposition>NONE</departmentposition>
    <locationposition>NONE</locationposition>
  </segments>
</customtransactiontype>
```

The following custom objects can contain references to custom transaction types:

- <centercategory>
- <sublist>
- <transactionbodycustomfield>
- <transactioncolumncustomfield>
- <workflow>

In addition to those custom objects, all custom fields can reference custom transaction types.

To deploy custom transaction objects to your NetSuite account, enable the Custom Transactions feature. For more information, see the help topic [Enabling the Custom Transactions Feature](#).

For information about custom transactions, see the following:

- [Custom Transactions](#)
- [customtransactiontype](#)

Downloadable SDF File Now Known as SDF SDK 2018.1 is Available

SDF SDK 2018.1 is now available for download.

SDF SDK is supported on Windows, Linux, and Mac OS X. For more information, see the help topic [SDF SDK Installation Prerequisites](#).

You can use this downloadable file to install SDF SDK and execute SDF Command Line Interface (CLI). For information about installation, see the help topic [Installing SDF SDK](#).

You can also use SDF SDK with your own integrated development environment (IDE) to create SDF projects, including SDF SuiteApps. You can also create batch and shell scripts that use CLI commands

to automate your project validation and deployment processes. When used with your own IDE, this SDK acts as an alternative to SuiteCloud IDE. For more information about SuiteCloud SDK, see the help topic [Command Line Interface Guide](#).

SuiteApps (Bundles) Released by NetSuite

NetSuite 2018.1 includes the following enhancements to SuiteApps released by NetSuite:

- Accounting SuiteApps
- Administration SuiteApps
- SuitePeople SuiteApps
- Order Management SuiteApps
- Inventory Management SuiteApps
- Localization SuiteApps
- Manufacturing SuiteApps
- Projects SuiteApps
- SuiteAnalytics SuiteApps
- Taxation SuiteApps

Accounting SuiteApps

Following are the 2018.1 accounting enhancements to SuiteApps:

- SuiteApprovals V2.0
- Fixed Assets Management Enhancements

SuiteApprovals V2.0

The following enhancements are available in SuiteApprovals Version 2.0:

- **Addition of Priority Field on the Approval Rule** – You can set the priority of any approval rule. The field enables you to define the hierarchy of approval rules for journal entry and engineering change order records. Approval rules with no priority are validated first by default.
- **Uniqueness Validation of Approval Rules** – SuiteApprovals now validates the uniqueness of approval rules based on the combination of the following fields: Subsidiary, Start Date, End Date, Priority, and Saved Search Condition.
- **Mandatory Reject Reason** – SuiteApprovals now requires approvers to enter a reason for rejecting records.
- **Manual Approval** – When no approval rule is found for a record, the record exits the approval workflow. Users should manually approve the record.
- **Support for Auto-Generated Journal Entries** – SuiteApprovals now processes auto-generated regular journal entries that utilize custom approval.
- **SuiteApprovals Support for Engineering Change Order (ECO) Feature** – The ECO feature leverages the robust capabilities of the SuiteApprovals workflow for the management of engineering change order approvals. For more information, see [Engineering Change Order](#).

For more information about the SuiteApp, see the help topic [SuiteApprovals V2.0](#).

Fixed Assets Management Enhancements

The following enhancements are available in Fixed Assets Management version 18.1:

- [Custom Segment Support for Fixed Assets Management](#)
- [Japan Depreciation](#)
- [Change in Generating Depreciation Schedule Values](#)
- [Tax Methods in the Asset Revaluation Page](#)


Custom Segment Support for Fixed Assets Management

Customers that use the Custom Segments feature will now be able to extend the functionality to their fixed assets. This feature will make your custom segments available in the following Fixed Assets Management records:

- Asset Proposal Record
- Asset Record
- Acquisition Depreciation History Record
- Depreciation History Record and associated journal entries
- Transfer Depreciation History Record and associated journal entries
- Revaluation History Record and associated journal entries
- Disposal History Record and associated journal entries

To take advantage of this feature, you must enable the Custom Segments feature (see the help topic [Enabling the Custom Segments Feature](#)). You must also apply the custom segment to the FAM record where you want it to appear. For more information, see the help topic [Applying a Custom Segment to Record Types](#).


In FAM journals, the custom segment is shown on the main body or the line item, depending on how you mapped the fields. You can also choose to show the custom segments in fixed assets reports by customizing the XML report template. For more information, see the help topic [Customizing the Asset Report Template](#).

 **Note:** The ability to filter FAM reports by custom segments is currently not available.

Japan Depreciation


In Fixed Assets Management version 18.1, the 250 Declining Balance depreciation method will now be available to customers in Japan. In compliance with the requirements of Japan's National Tax Bureau, Japan customers can now use 250DB depreciation method for assets purchased before April 2012.

Change in Generating Depreciation Schedule Values

 **Note:** This update is targeted to be available in March 2018.

In the previous version, if a change in the asset affects its depreciation values, the system will delete the existing depreciation schedule and create a new one.

Starting with Fixed Assets Management version 18.1, changes to assets that affect its depreciation amount will no longer trigger an automatic reset of depreciation schedule values. Existing depreciation schedule values will still be deleted. New depreciation schedule values, however, will be generated every Sunday, 12 AM PST, or when the scheduled script is triggered manually. For more information, see the help topic [Changing the Depreciation Scheduled Script Runtime](#).

 **Note:** Generation of depreciation schedule values can be interrupted by other FAM processes.

Tax Methods in the Asset Revaluation Page

In Fixed Assets Management version 18.1, asset and tax records are now linked to an accounting book. For non multi-book accounts, all records will be tagged to the primary accounting book. With this change, the tax methods will now show in the Asset Revaluation page. Records are arranged by accounting book, GL posting tax methods, and then non GL posting tax methods.

Administration SuiteApps

Following is the 2018.1 administration enhancement to SuiteApps:

Application Performance Management (APM) Enhancements

The 2018.1 release of Application Performance Management version 1.08 includes the following enhancements:

- [New SuiteCloud Processors Monitor Tool for Map/Reduce and Scheduled Jobs](#)
- [New Concurrency Monitor Tool for Web Services and RESTlets](#)
- [Client Script Support on APM Tools](#)
- [Improved Auto-Complete Search on the Performance Dashboard](#)

New SuiteCloud Processors Monitor Tool for Map/Reduce and Scheduled Jobs

Prior to this release, you can monitor the performance of scheduled and map/reduce jobs only by using the Script Queue Monitor (SQM) tool in APM. The SQM dashboard provides ample support for jobs handled by scheduling queues, but it offers limited support for jobs handled by SuiteCloud Processors. Its monitoring of map/reduce job types is also limited.

In 2018.1, APM version 1.08 introduces the new SuiteCloud Processors Monitor (SCPM) tool. SCPM is a visual and informative tool that lets you monitor the performance of jobs handled by SuiteCloud Processors, scheduling queues, or both better than SQM. SCPM lets you track the performance of both scheduled and map/reduce jobs. It displays average wait time, processor utilization, processor concurrency, processor settings, and other statistics in detailed lists and charts.

SCPM consists of the following dashboards:

- **SuiteCloud Processors Monitor** – Shows vital processor settings and statistics in several portlets, so you can compare data and improve your performance.
- **SuiteCloud Processors Job Details** – Provides in-depth information about specific deployments based on your selected filters.

To start using the SuiteCloud Processors Monitor dashboard, go to Customization > Performance > SuiteCloud Processors Monitor.

Note: Administrators who are already using the Application Performance Management (APM) SuiteApp need to save access again for other roles and employees so they can use the new features in version 1.08. For more information, see the help topic [Setting Up APM Access for Roles and Employees](#).

For more information about SuiteCloud Processor Monitor, read the help topic [Monitoring SuiteCloud Processors Performance](#).

New Concurrency Monitor Tool for Web Services and RESTlets

APM version 1.08 introduces the Concurrency Monitor tool that lets you monitor web services and RESTlet integrations and shows you instances when you exceeded your account concurrency limit. Concurrency Monitor helps you optimize your schedule for running web services and RESTlet integrations. It helps you avoid errors because of requests that exceed your account limit. By showing your exceeded concurrency data over time, Concurrency Monitor helps you decide if you need to add SuiteCloud Plus licenses to enhance your performance.

Concurrency Monitor consists of the following dashboards:

- **Concurrency Monitor** – Shows concurrency statistics and concurrency counts by hour for requests within the limit and requests exceeding the limit.
- **Concurrency Details** – Shows concurrency counts by minute for requests within the limit and requests exceeding the limit.

To start using the Concurrency Monitor dashboard, go to Customization > Performance > Concurrency Monitor.

For more information about Concurrency Monitor, read the help topic [Monitoring Web Services and RESTlet Concurrency](#).

Client Script Support on APM Tools

Prior to this release, you can use APM to monitor the performance of scripts that were run only on servers. With APM 1.08, you can also track performance data for client-side scripts by using the SuiteScript Analysis and Page Time Details pages.

Client script instances in APM pages are denoted as follows:

APM Page	Section/Portlet	Client Script Instances
Page Time Summary	Script/Workflow Time Breakdown	Client scripts are included in the computation.
Page Time Details	Timeline	Client scripts are listed and indented under the Client : Init line.
	SuiteScript and Workflow Details	Client script values for usage, record operations, URL requests, and searches columns are not available. These are denoted with an en dash (–).
SuiteScript Analysis	SuiteScript Details	Client script values for usage, record operations, URL requests, and searches columns are not available. These are denoted with an en dash (–).

For more information about client script support on Page Time Summary, read the following topics:

- [Monitoring Performance with the Page Time Summary](#)

- [Script and Workflow Time Breakdown Chart](#)

For more information about client script support on Page Time Details, read the following topics:

- [Using Page Time Details](#)
- [About SuiteScript and Workflow Details](#)

For more information about client script support on SuiteScript Analysis, read the help topic [Using SuiteScript Details](#).

Improved Auto-Complete Search on the Performance Dashboard

With APM 1.08, the dropdown list on the Setup Record pages popup window of the Performance Dashboard includes an auto-complete or type-ahead function. Prior to this release, the auto-complete function of this list is inconsistent. With this enhancement, you can quickly narrow searches for record page operations that you need to add on your watch list.

To try the improved search, go to Customization > Performance > Dashboard.

For more information about adding record page operations on your watch list, read the help topic [Changing the Record Page Operations That You Watch](#).

SuitePeople SuiteApps

Following is the 2018.1 SuitePeople enhancement to SuiteApps:

- [Employee Directory & Org Browser Enhancements](#)
- [Onboarding Checklist SuiteApp](#)

Employee Directory & Org Browser Enhancements

In 2018.1, Employee Directory & Org Browser includes the following enhancements:

- [Mobile Access to Employee Directory](#)
- [Improved Search Results Label](#)
- [New Configurable Fields Added](#)

Mobile Access to Employee Directory

With Employee Directory & Org Browser version 1.05, you can now access the Employee Directory on the NetSuite mobile app for iOS and Android. Employees can search for their coworkers and reach them right from the directory. The Employee Directory for mobile displays an employee's profile picture, name, and job title. Action buttons enable you to call, send SMS, or email coworkers through your device's default apps.

Improved Search Results Label

Also, with Employee Directory & Org Browser version 1.05, search results will only return matches for employee names for both desktop and mobile searches. To narrow your search, you can enter the employee name in the search then tweak the existing filters. For example, you can enter **Jeff** in the

search box, select **Accounting** under the department filter, and select **Boston** under the location filter to find desired matches.

New Configurable Fields Added

With Employee Directory and Org Browser version 1.06, you can display more configurable fields on the employee directory and org browser listings. With this, you can be more flexible when you choose which details to display or highlight on the directory listings. The changes to each directory listing are as follows:

- **Employee Directory** – Prior to this version, you can configure three fields on the employee directory listing, and the **Job Title** field always appears on the listing. With version 1.06, you can now configure four fields. The **Job Title** field is also removed from the list of fields that always appear on the employee directory listing. You can still select **Job Title** among the standard field selections for **Configurable Field 1**.

Your field selections for **Configurable Field 1** and **Configurable Field 2** will appear below the employee name on the directory listing. Meanwhile, field selections for **Configurable Field 3** and **Configurable Field 4** will appear on the upper right corner of the directory listing.

- **Org Browser** – You can now configure a total of three fields on this listing. **Configurable Field 1** also appears on its own line above **Configurable Field 2** and **Configurable Field 3**.

For more information, see the help topic [Configuring the Employee Directory and Org Browser](#).

Onboarding Checklist SuiteApp

The Onboarding Checklist SuiteApp is a comprehensive tool designed to orchestrate tasks related to the start of a newly hired or internally transferred employee. The SuiteApp simplifies the onboarding process for HR professionals, managers, and new employees. It uses templates, checklists, and reminders.

With the Onboarding Checklist SuiteApp, HR professionals can coordinate onboarding tasks among the various people involved in the onboarding process.

The Onboarding Checklist SuiteApp is a fully customizable tool. Roles with full access to the SuiteApp can create templates and checklists that reflect the organization's onboarding process. Administrators can also control which roles can coordinate onboarding activities.

With the Onboarding Checklist SuiteApp, you can:

- Save time by creating checklist templates that you can reuse for different new hire scenarios.
- Promote a positive onboarding and first-day experience for newly hired and internally transferred employees by linking each task to the employees who can help.
- Ensure that newly hired and internally transferred employees can complete their tasks with the help of a customizable and simple interface.
- Keep track of the status of tasks that are required to comply with labor standards, such as the completion of government forms.
- Identify common roadblocks when completing tasks to help refine the onboarding process.

By default, standard Chief People Officer (CPO) and HR Generalist (HRG) roles are updated with the complete permissions to use the Onboarding Checklist SuiteApp. Employees who are assigned as Coordinators and Assignees can also access checklists assigned to them. Administrators can customize the list of roles which can create and coordinate onboarding checklists and templates.

The following table shows tasks that each role can do with the SuiteApp:

Coordinator and HR Roles	Assignees
<ul style="list-style-type: none"> Create and edit onboarding checklist templates Create and edit onboarding checklists Designate employees as Coordinators Assign onboarding tasks to employees Receive reminders about the status of tasks 	<ul style="list-style-type: none"> View onboarding tasks assigned to them Update the status of their tasks Receive reminders about changes on their onboarding tasks

The Onboarding Checklist SuiteApp is available to accounts that have SuitePeople installed. For more information about SuitePeople, see the help topic [SuitePeople Overview](#).

For more information, read the help topic [Employee Onboarding](#).

Order Management SuiteApps

Following are the 2018.1 order management enhancement to SuiteApps:

- Electronic Invoicing Enhancements
- Multi-Language Support for Electronic Bank Payments
- Deprecation of XML-based Payment Template Generator
- Recurring Billing Enhancements
- Grid Order Management Enhancements

Electronic Invoicing Enhancements

Using Electronic Invoicing SuiteApp version 3.02, you can now generate the XML e-documents of item fulfillment and vendor bill records, and then send them through the outbound process. For more information, see the help topic [Transactions and Processes Supported by the Electronic Invoicing SuiteApp](#).

A **View XML** button is available on transaction records with generated outbound e-documents. Clicking **View XML** on a transaction record displays the XML content of the generated outbound e-document from that record. For more information, see the help topic [Viewing the XML Content of Generated Outbound e-Documents](#).

By default, roles with access to transaction records supported by Electronic Invoicing have the permission to manually generate and send outbound e-documents. The administrator can now customize standard and custom roles to restrict this permission. By editing a role and clearing the **Allow Manual Generation of E-Document** box or **Allow Manual Sending of E-Document** box, the Generate E-Document button or Send E-Document button will no longer be available on transaction records viewed by a role. For more information, see the help topic [Customizing Roles to Restrict E-Document Generation or Sending](#).

Multi-Language Support for Electronic Bank Payments

The 2018.1 release of the Electronic Bank Payments SuiteApp now supports language translation to enhance user experience. You will now be able to see links, labels, field level help, titles, error, and warning messages in your preferred language. Translation covers suitelets, payment file administration, searches, company bank details, entity bank details, and custom records.


For more information, see the help topic [Multi-Language Support for the Electronic Bank Payments SuiteApp](#).

Deprecation of XML-based Payment Template Generator

Electronic Bank Payments version 4.0, which was included in NetSuite 2014.2, updated all standard payment file formats to use the Advanced PDF/HTML template instead of the previously supported XML-based formatting. Payment templates using XML formatting will no longer be able to create or generate payment files. File Fields will no longer be visible when you view the Payment File Template.

For more information, see *Payment File Template Changes in NetSuite Electronic Payments 4.0*.

Recurring Billing Enhancements

 **Note:** Recurring Billing version 18.1 is available in accounts running NetSuite 2018.1.

Recurring Billing version 18.1 includes the following features:

- Custom End Date in Recurring Billing Custom Form
- Execution Date for Suspend Subscription Item and Reactivate Subscription Item Change Orders
- Adjust Base Amount for Uplift
- Display Negative Charge on Subscription Invoice

Custom End Date in Recurring Billing Custom Form

In previous versions, you can set a custom end date when creating a new subscription only through the Recurring Billing configurator on the standard sales order form.

In Recurring Billing version 18.1, you can specify a custom end date for subscription items using the Subscription Billing – Sales Order custom form. Custom end date is supported when creating new subscriptions through the Recurring Billing UI or Recurring Billing Integration.

- In the UI, you can specify a custom end date in the **End** column on the **Items** subtab of the custom sales order form.
- Using Recurring Billing Integration, you can set a custom end date for subscription items using the `rbSubscriptionEndAt` request parameter in the `rbCreateSalesOrder` or `rbCreateSubscriptionFromOrder` method.

If you did not specify an end date, the default value is based on the line item start date and selected subscription plan's term. If you specify a custom end date, the term of the subscription item is set to Custom Term. If you set the end date value to blank, the term of the subscription item is set to Perpetual.

Custom end date must not be less than one rating period (based on the selected subscription plan's rating frequency) and not more than 120 months from the start date.

For more information, see Using the Subscription Billing – Sales Order Custom Form and Recurring Billing Integration in [Recurring Billing Guide](#).

Execution Date for Suspend Subscription Item and Reactivate Subscription Item Change Orders

In Recurring Billing version 18.1, you can specify an execution date for Suspend Subscription Item and Reactivate Subscription Item change orders. On the Suspend Subscription Item or Reactivate Subscription Item change order window, you can set when you want the change order to be processed by specifying a value in the **Execution Date** field.

In previous versions, these change orders were processed on the same day as the effective date (that is, **Suspension Date** or **Reactivation Date** field value) specified on the change order.

You can apply the Suspend Subscription Item or Reactivate Subscription Item change orders from the subscription or primary subscription item record. When a suspend change order is processed, the status of the subscription item changes to Suspended. When a reactivate change order is processed, the status of the subscription item changes to Open.

For more information, see Suspending a Subscription Item and Reactivating a Suspended Subscription Item in [Recurring Billing Guide](#).

Adjust Base Amount for Uplift

In Recurring Billing version 18.1, when you apply an uplift on a subscription item, you have the option to adjust the rate for the next period based on the actual total amount for the previous period.

On the Modify Subscription Item Rate change order window, you can check the **Adjust Rate Based on Previous Total Amount** box to adjust the rate for the next period when you specify an uplift.


- If this box is checked, two Modify Subscription Item Rate change orders are created: first for the uplift and a second change order to adjust the rate for the next billing period. The second change order is created when the status of the uplift change order is Completed. The rate for succeeding periods is based on the actual total amount for the previous period, including prorated amounts for mid-period price changes.
- If this box is cleared, only the Modify Subscription Item Rate change order for uplift is created. When the uplift is applied to succeeding periods, the original rate is used as the base amount for the uplift.

For more information, see Modifying Subscription Item Rate in [Recurring Billing Guide](#).

Display Negative Charge on Subscription Invoice

In Recurring Billing version 18.1, you can include negative charges as separate line items on a subscription invoice instead of creating a credit memo.

This feature adds a new preference, **Create Credit Memo for Negative Charge**, on the **General Preferences** subtab of the Subscription Billing Preferences page. This preference is enabled by default, so credit memos are automatically created during bill runs when there are negative charges for the subscription. If you clear the **Create Credit Memo for Negative Charge** box, negative amounts are included as separate line items on subscription invoices during bill runs.

 **Note:** Subscription invoices with a negative charge must still have a positive net total amount. Otherwise, you will get an error.

For more information, see Setting Up Recurring Billing Preferences in [Recurring Billing Guide](#).

Grid Order Management Enhancements

Following are the two Grid Order Management SuiteApps for 2018.1.

Grid Order Management SuiteApp 6.00.1

Changes in UI and Rate Behavior on Grid Order Entry Form for Purchase Orders and Sales Orders

The Grid Order Management SuiteApp 6.00.1 changes in the UI and rate behavior on the Grid Order Entry form for purchase orders and sales orders.

Previously, the Grid Order Entry form behaves this way:

- The **Rate** field on Grid Order Entry form for purchase orders shows the value that was saved in the **Purchase Price** field of the item record.
- The value in the **Rate** field is used to populate the **Rate** column of the item list.

In the latest version of Grid Order Management, the NetSuite pricing hierarchy is used by default, unless you edit the estimated rate shown in the Grid Order Entry form.

- In the Grid Order Entry form for purchase orders:
 - **Edit Rate** check box was added to the Grid Order Entry form for purchase orders.
 - **Rate** field was renamed to **Estimated Rate**.
 - If the **Edit Rate** box is checked, the **Estimated Rate** field becomes editable. The system then populates the Rate column of the item list using the value in the **Estimated Rate** field.
 - If the **Edit Rate** box is not checked, the system uses the NetSuite item pricing hierarchy. The values in the Rate column could be different from the value in the **Estimated Rate** field. For example, if the vendor has a preferred purchase price on the item record, the system uses that price to populate the **Rate** column.
- In the Grid Order Entry form for sales orders:
 - **Edit Rate and Price Level** check box will be added to the Grid Order Entry form for sales orders in accounts that have the Multiple Pricing feature enabled.
 - **Edit Rate** check box will be added to the Grid Order Entry form for sales orders in accounts without Multiple Pricing.
 - **Rate** field was renamed to **Estimated Rate**.
 - If the **Edit Rate and Price Level** box is checked, the system will populate the **Rate** column of the item list with the value you entered in the **Estimated Rate** field.
 - If the **Edit Rate** box or **Edit Rate and Price Level** box is **not** checked, the system will use the NetSuite item pricing hierarchy.

Grid Order Management SuiteApp 6.00.2

Column Attribute Field in Bulk Create Grid Matrix Templates Page

In previous versions, you can only select and submit parent matrix items when you create a grid matrix template in bulk. The system selects which attributes of the parent matrix items would be column attributes and which would be row attributes in the template.

In Grid Order Management SuiteApp 6.00.2, you can now specify the column attribute to use in the grid matrix template. The Column Attribute field is added as a required field in the Bulk Create Grid Matrix Templates page. After you select the column attribute, the other attributes become row attributes in the grid template.

For more information, see the help topic [Creating Grid Matrix Templates in Bulk](#).

Inventory Management SuiteApps

Following are the 2018.1 inventory management enhancements to SuiteApps:

- [NetSuite WMS Enhancements](#)
- [Quality Management](#)
- [Supply Chain Management Enhancements](#)

NetSuite WMS Enhancements

NetSuite Warehouse Management System (WMS) 2018.1.0 includes the following change and enhancements:

- [NetSuite WMS Lite Renamed to NetSuite WMS](#)
- [Support for Inventory Status](#)



Important: This SuiteApp is targeted to be available in February 2018.

NetSuite WMS Lite Renamed to NetSuite WMS

This SuiteApp has been renamed from NetSuite WMS Lite to NetSuite WMS.

Support for Inventory Status

NetSuite WMS 2018.1 includes support for the new Inventory Status feature. With inventory status, you can associate attributes to items for detailed tracking of inventory. You can also choose whether to make inventory associated with each status available or unavailable to be allocated to orders.

When you enter inventory status values when completing warehouse processes, item quantities are tracked and updated according to that process' impact and the item's status. For example, consider you transfer five cases of an item with the Good status from Bin A to Bin B. The inventory of items with the Good status in Bin A is decremented by five cases. The inventory of items with the Good status in Bin B is incremented by five cases.

Inventory Status fields are now available on mobile device screens for the following processes:

- Receiving
 - Purchase Orders
 - Transfer Orders
 - Returns
 - Putaway
- Picking
 - Single-Order Picking
 - Single-Order With Picklist
 - Multi-Order Picking
 - Pick Reversal
- Inventory
 - Bin Transfer
 - Replenishment
 - Cycle Count
 - Search Inventory
 - Inventory Transfer
 - Stage Bin Transfer
 - Create Inventory
- Work Orders
 - Picking

- Build Assembly

Inventory Status fields are now available on the following NetSuite WMS user interface screens:

- Inbound Reversal
- Inventory Report
- Pick Reversal
- Post Item Fulfillment: Partially-Picked Orders



Important: Before you enable the Inventory Status feature, you must close any open pick task records. For more information on closing open task records, see Open and Closed Task Records in the [NetSuite WMS User Guide](#).

For more information, see [Inventory Status](#).

Quality Management

NetSuite Quality Management 2018.1.0 includes the following enhancements:

- [In Process Inspections](#)
- [Tablet Photo Capture](#)
- [Supported Browsers](#)
- [Notices and Limitations](#)

In Process Inspections

The NetSuite Quality Management 2018.1 SuiteApp enables you to launch inspections to include the following manufacturing related transactions:

- Assembly Builds
- Work Order Builds
- Work Order Completions

Customers can now identify which Quality Specification should be invoked based upon location, item, transaction type, and optionally, work center (for routing work orders).

Specification Context Setup

Quality Specification Context records have been expanded to trigger in-process related inspections. Your Quality Administrator can create a new context record from the Assembly Item subtab to provide a convenient way to review all inspection triggers for an item.

	SPECIFICATION	TRANSACTION TYPE	VENDOR	CUSTOMER	WORK CENTER	LOCATION	DEFAULT	TRANSACTION FREQUENCY	CURRENT TRANSACTION COUNT	ACTION
Edit	Vendor Specification	Receipt From Purchase Order	Tax Agency AL			Indianapolis Facility	No	0	0	
Edit	Beam Inspection	Receipt From Purchase Order				Indianapolis Facility	Yes	0	0	

To create a new context record, in the Quality Specification Context window, click the **New Quality Specification Context** button.

In the **Quality Specification Context** form, enter the information required to associate in-process transactions to a specification. This form is similar to the Item Receipt inspections form, but only specific fields need to be completed.

The following table describes the required fields Quality Specification Context form fields:

Field	Description	Notes
Item	Select the assembly item which, when built/completed, should be inspected.	Mandatory field
Location	Select the location where the build/ completion is to take place to trigger inspections.	This list must contain at least one selection.
Transaction Type	Select the type of in-process transaction that will trigger inspection for the item.	<ul style="list-style-type: none"> Assembly/Work Order Build Work Order Completion
Specification	Select the quality specification that should be triggered.	All defined specifications are listed.
Action	Optionally select a pre-inspection action that is available to any workflows that are attached to the Quality Inspection Queue record (to learn more, see the Customization Guide).	Can be left blank if no pre-inspection workflow is needed.
Work Center	Optionally select the work center where the Work Order Completion must be reported to trigger inspections.	Only applicable if Work Order Completion has been selected as the transaction type. If left blank, inspections will be triggered for the last operation of the Work Order, regardless of work center.
Transaction Frequency	Enter an integer value to trigger inspections on some interval related to the transaction type.	For example, enter a value of 2 to trigger an inspection on every other reported completion.

Tablet Photo Capture

Quality Management 18.1 introduces a new Image data type for inspection fields. Adding this field to an inspection enables you to use the Quality Management tablet interface to capture digital images. This includes files already saved to a tablet.

File Storage Setup

Images captured during inspection will be stored in the NetSuite File Cabinet. Quality Administrators use the new Settings page to control the folder where images are stored.

When a Quality Administrator clicks Quality > Data Collection > Settings, the list of File Cabinet folders is displayed. The selected image storage folder is listed in the upper left corner of the folder selector.

Quality Settings

Save | **Cancel**

NAME: IMAGES FOLDER ID: -4

- [+] App Packages
- [+] Attachments Received
- [+] Attachments to Send
- [+] Images
- [+] SuiteApps
- [+] SuiteBundles
- [+] SuiteScripts
- [+] Templates

To expand a folder to display subfolders, click the + icon next to the file name. When a Quality Administrator selects a folder name, it is set as the new storage location.

File Storage Details

Quality Management Administration creates any additional folders needed to organize image content. Image files are linked to inspection data directly.

Images are grouped according to the following:

- The **Triggering Transaction and Specification** folder. These two IDs are concatenated by an underscore(_).
- Since an **Inspection** can contain multiple image fields, it is represented as a subfolder.
- The **Data Field** is captured within the file name to segregate images.

Folder and File Naming Example

The following specification is triggered when an Item Receipt [ID = 120] is processed in the system:

- **Specification:** Inspect for Receipt [ID = 32]
- **Inspection:** Check for Visual Damage [ID=71]
- **Image Field:** Photo of Damage [ID=108]

Capturing the image creates the following structure:

Folder 120_32

Subfolder 71

File qm_120_32_71_108

Data Field Setup

To enable the tablet to capture images, you must add an Image Data Field Data Type. All other elements of the Data Field setup (Sequence, Data Field Name, and Instruction Text) behave identically as with other field types.

Image capture does not support standard image fields or rules because image capture is meant to supplement the pass/failure status of the inspection.

Multiple images can be included within an inspection however, each field can retrieve and store only a single image.

Capturing Images Using a Tablet

When using the tablet to enter an inspection, Quality Management displays icons to help capture images.

To link an image already stored on the tablet, tap the image icon (🖼️).

To take a photo and then link it to the inspection data, tap the camera (📷) icon.

After selecting an image, it is displayed in the tablet interface.

The screenshot shows a tablet interface for a 'System Pressure' inspection. At the top, there's a red header with a back arrow and the title 'System Pressure', and a 'Failed' status button. Below the header, a text instruction reads: 'Measure the pressure in the AC system to confirm proper compressor operation.' There are two input fields: 'Low End Pressure' with the value '10' and 'High End Pressure' with the value '280'. To the right of these fields is a 'Gauge Photo' section displaying a photograph of two pressure gauges. At the bottom left, there is a blue 'Record' button and a help icon (question mark).

To delete the image, tap the garbage can icon (🗑️).

To transfer the image to the NetSuite File Cabinet folder, tap **Record**.

Supported Browsers

Quality Management and NetSuite support the same browsers: Internet Explorer 11, Google Chrome 58, Microsoft Edge, Mozilla Firefox 52, and Safari 10. However, Internet Explorer 11 is not compatible with the Quality Management tablet screens. If you are using Quality Management on a tablet, you should use the Microsoft Edge browser.

Notices and Limitations

Recurring Work Centers: If a work center is designated for inspection and has multiple operation steps within a manufacturing routing, the quality system will generate an inspection for each operation.

To resolve this issue, eliminate any duplicate work center references. In a future release, the Quality Management SuiteApp will enable you to control which work center occurrences will trigger an inspection.

Tablet Browsers: Quality Management and NetSuite support the same browsers: Google Chrome 58, Microsoft Edge, Mozilla Firefox 52, and Safari 10. The Quality Management tablet interface works best on Google Chrome. However, Internet Explorer 11 is not compatible with the Quality Management tablet interface.

Supply Chain Management Enhancements

Supply Chain Management V4.0 includes the following new features:

- [Item Substitution on Sales Orders](#)
- [Engineering Change Order](#)

Item Substitution on Sales Orders

With the Item Substitution feature, you can add substitute items for supported item types directly on the item record. During the sales order entry process, you can then review available substitute items on the sales order record. This capability allows you to address situations of inventory shortage of items during the sales process.

For more information, see the help topic [Item Substitution on Sales Orders](#).

Engineering Change Order

Using the Engineering Change Order feature, you can generate engineering change order (ECO) records to document changes to Bills of Materials. Leveraging the SuiteApprovals workflow, you can approve and authorize the implementation of those changes.

For more information, see [Engineering Change Order](#).

Localization SuiteApps

Following are the 2018.1 localization enhancements to SuiteApps:

- [Southeast Asia Localization SuiteApp](#)
- [China Cash Flow Statement Field Filtering Refinements](#)
- [New Supported Transactions for China Cash Flow Statement Report](#)
- [Automatic Tagging Of China Cash Flow Item For Line Items In Transactions](#)
- [Added Single Currency Template For China Voucher Printing Report](#)
- [Added Ability to Merge Transactions When Generating China VAT Transactions](#)
- [Financial Reports for China](#)
- [Accounting Vouchers for China](#)
- [China-Specific Fields to Support China VAT on Transactions](#)
- [Ability to Use VAT Transactions with the China Golden Tax System](#)
- [Enhancements to Japan Localization SuiteApp](#)
- [Enhancements to Japan Payment Terms and Date Validations](#)
- [New Japan Financial Statements SuiteApp](#)

Southeast Asia Localization SuiteApp

The new Southeast Asia Localization SuiteApp provides invoicing features for Singapore and Thailand.

The SuiteApp includes invoice and credit memo templates that enable compliance with local requirements. The templates contain minimum information that tax authorities require and local business practices prescribe. When the templates are used for transactions in foreign currency and with multiple tax codes, required information is included in distinct sections on the printed tax invoice or credit memo. The templates can be customized to suit your specific business requirements.

For Singapore, the SuiteApp enables compliance with invoice and credit memo requirements for customer accounting transactions.

For Thailand, the SuiteApp indicates the print status on printed tax invoices and credit memos if the templates are used. The following custom fields are also added when the SuiteApp is installed:

- **Branch ID** — This field is added on customer and vendor records if your company or any subsidiary has a Thailand nexus. This field is also added on sale and purchase transactions.
- **Transaction Amount in Words** — This field is added on sale transactions if the nexus country of the transaction is Thailand.

For more information, see the help topics [Singapore Invoicing Features](#) and [Thailand Invoicing Features](#).

China Cash Flow Statement Field Filtering Refinements

When selecting a China Cash Flow Statement Item in editing your transactions or inventory items, the Cash Flow Statement Item dropdown field will only show classifications related to the transaction:

- For Accounts Payable transactions, only cash outflow classification items will be shown in the list.
- For Accounts Receivable transactions, only cash inflow classification items will be shown in the list.
- For Journal Transactions:
 - Positive Credit, Negative Debit: cash inflow classification items will be shown.
 - Negative credit, Positive Debit: cash outflow classification items will be shown.

For more information, see the help topics [China Cash Flow Item Classification](#) and [Override China Cash Flow Item](#).

New Supported Transactions for China Cash Flow Statement Report

The following transactions are now supported by the China Cash Flow Statement Report:

- Checks
- Statement Charge
- Voiding Journal

For more information, see the help topic [China Cash Flow Statement Report](#).

Automatic Tagging Of China Cash Flow Item For Line Items In Transactions

When making a transaction, lines without **China Cash Flow Item** entered will now be automatically completed with the value in the **China Cash Flow Item** field in the Classification section in the transaction details.

For more information, see the help topic [Override China Cash Flow Item](#).

Added Single Currency Template For China Voucher Printing Report

The Single Currency template is added in generating China accounting vouchers. This template removes the columns for foreign currencies in the report.

Note that for NetSuite accounts with the feature Multiple Currencies enabled, the default template selected will be **Multiple Currencies**. If the feature is not enabled, **Single Currency** is the default template.

For more information, see the help topic [Generating China Voucher Printing Report](#).

Added Ability to Merge Transactions When Generating China VAT Transactions

Transactions can now be merged while generating China VAT Transactions. These transactions will be combined into consolidated invoices.

Merged transactions can also be un-merged if these transactions are not exported yet.

For more information, see the help topic [Merging China VAT Transactions](#).

Financial Reports for China

Using the China Localization SuiteApp, you can generate financial reports in Chinese, and in the layout and format specific to China. You can also export the reports in PDF or Microsoft Excel format.

The following reports are available:

- China Balance Sheet Report
- China Cash Flow Statement Report
- China Income Statement Report

Before you generate the reports, you must first set up your China-specific chart of accounts, and the China Cash Flow Item for sales transactions and journal entries.

For more information, see the help topic [Financial Reports for China](#).

Accounting Vouchers for China

Using the China Localization SuiteApp, you can generate and print accounting vouchers in the format required by the Chinese government for auditing purposes. The vouchers include information on who created, approved, and posted each transaction.

For more information, see the help topic [Generate China Voucher Printing Report](#).

China-Specific Fields to Support China VAT on Transactions

The China Localization SuiteApp provides China-specific fields so that value added tax (VAT) transactions can be processed in the China Golden Tax System.

The **China Max VAT Invoice Amount** field on the Subsidiary page enables NetSuite to determine the maximum number of invoices that can be generated.

The **China VAT Item Model** field is an optional field on item records that enables you to store the item model name for use in when creating VAT Invoices.

The **VAT Split Rule field** is available on invoices, cash sales, refund cash sales, and credit memos. When creating a sales transaction, you must select either Split Rate or Split Quantity in the VAT Split Rule field. Then, the system splits the transactions so that you can use them with the China Golden Tax System.

The **VAT Invoice Type** field is available on invoices, cash sales, refund cash sales, and credit memos. The VAT Invoice Type field is used when exporting VAT transactions from NetSuite into a file that you can import to the China Golden Tax System.

The **Information Sheet Number** field is where you enter the government-issued red letter information sheet number. This field is under the **China VAT** subtab on credit memos and refund cash sales. When entering a refund cash sale, the **China VAT Created From** field is where you enter the invoice code from your blue letter invoice.

For more information, see the help topic [Setting Up China Localization](#).

Ability to Use VAT Transactions with the China Golden Tax System

Using the China Localization SuiteApp, you can generate an export file of your VAT transactions from NetSuite. You can import the file directly to the China Golden Tax System. Then, after processing your VAT invoices using the China Golden Tax System, you can import the processed VAT transactions back to NetSuite.

Before generating the export file from NetSuite, you must select the VAT invoice type (special VAT invoice or common VAT invoice) on the China VAT Transactions page.

Optionally, you can select a specific customer, or a specific set of document numbers.

You can also choose to enable or disable the sales list display. The Enable Sales List option is useful if you want to control the number of transaction lines.

For more information, see the help topics [Generating China VAT Transactions](#), [Processing Red-Letter Invoices](#), and [Setting China VAT Taxpayer Types](#)

Enhancements to Japan Localization SuiteApp

The Item Detail Statement (IDS), the core feature of the Japan Localization SuiteApp, is renamed to Invoice Summary, in languages other than Japanese. The Japanese name, #####, will be retained because both old and new English names have the same translation in Japanese. Other labels such as field names in the customer record have changed. **Closing Day** is renamed to Closing Date and **Payment Due Day** is renamed to Payment Due Date.

A new **Due Date Adjustment** field is available under the **Payment Terms** subtab in the customer record. This enables you to set automatic adjustment of the default payment due date on an invoice or credit memo, if it falls on a weekend or holiday. You can choose to adjust the due date on the next business day, previous business day, or retain the due date. For more information, see the help topic [Setting Up Automatic Adjustment of Payment Due Date that Falls on a Holiday or Weekend](#).

Automatic calculation and validation of Closing Date and Payment Due Date is now performed on an invoice and credit memo if the **Include in Invoice Summary** box is checked in the transaction record. This enhancement applies to all invoices and credit memos including standalone, those linked to other transactions, or those created or updated through the user interface, CSV import, SuiteScript, or web services. For more information, see the help topic [Specifying Transactions for Inclusion in an Invoice Summary](#).

Advance payments from customers that are recorded as Customer Deposits are now included in the Invoice Summary, under Payments Received This Period.

Changes to the Generate Invoice Summary page include two new columns, **Balance from Previous Billing** and **Payments Received This Period**. The View Transactions link and Transaction Count column are removed. The transaction amounts are links that can be clicked to open transaction details. Column header names are also simplified.

Prior to 2018.1, you could not generate an invoice summary if no invoices or transactions were created in the current billing period. Now, you can create an invoice summary when there are no invoices or transactions by checking the **Include Customers With No Current Invoices and Credit Memos** box on the Generate Invoice Summary page. Generating an invoice summary even if there are no transactions in the current billing period is useful when you want to inform a customer about any of the following:

- an unpaid balance from previous a billing period,
- payments received in the current billing period (full payment or overpayment), or
- no recent transactions (no unpaid balance from previous billing or payments received in the current billing period).

The layout and some labels of the Invoice Summary template have changed. The details in the header of the template have been relocated and some labels renamed. **Statement Date** is renamed to Invoice Date, and **Period** is renamed to Billing Period. The Summary table has a new **Net Invoice This Period** column, and some labels are also renamed. The Transaction Details table has a new **Due Date** column, and **SO#** is renamed Transaction No. For more information, see the help topic [Generating a Japanese Invoice Summary](#).

Enhancements to Japan Payment Terms and Date Validations

In Japan Localization SuiteApp version 2018.2, you can now define Japanese payment terms on vendor and employee records, which have the **Payment Terms** subtab available. On the subtab, the **Due Date Adjustment** field is also available if there is a Japan subsidiary. A **Closing Date** field is added to Bills or Expense Reports if the transaction subsidiary is Japan. Both Closing Date and Due Date in Bills and Expense Reports are automatically calculated based on the vendor or employee payment terms.

On credit memos, you can now manually change the Invoice Summary Due Date field, provided that the date is on or after the transaction date. On invoices, you can also set the due date on the same date as the transaction date, and on or before the closing date. Previously, these were not allowed.

For more information, see the help topic [Japanese Billing Cycle and Payment Terms](#).

New Japan Financial Statements SuiteApp

New implementations of the Japanese Balance Sheet, Income Statement, and Cash Flow Statement are included in the Japan Financial Statements SuiteApp. The Japanese financial statements included in the new SuiteApp are different from the Japan-specific reports included in the Japan edition of NetSuite.

The new Japanese financial statements included in the SuiteApp provide the following features:

- The Japan Financial Statement SuiteApp provides two templates for the Balance Sheet, Income Statement, and Cash Flow Statement. One template in Japanese and another in English. After installing the SuiteApp, the templates can be accessed from Reports > Saved Reports. Using the templates, you can define new financial statements or customize them using the Financial Report Builder in NetSuite.
- The Japanese Balance Sheet, Income Statement, and Cash Flow Statement can be generated in Excel by clicking a new button, Export to Excel.
- A new Include Account Rows box is available on the Japanese Balance Sheet and Income Statement. Checking the box includes accounts in rows under major headings in a statement.
- You can access the new Japanese financial statements from Reports > Financial and then select the Japanese financial statements with "(New)" appended. Select either Japanese Balance Sheet(New), Japanese Income Statement(New) or Japanese Cash Flow Statement(New).

For more information, see the help topic [Japan Financial Statements](#).

Manufacturing SuiteApps

Following is the 2018.1 manufacturing enhancement to SuiteApps:

- [Advanced Manufacturing](#)

Advanced Manufacturing

Internationalization

The NetSuite 2018.1 Advanced Manufacturing SuiteApp has been translated to the same 22 languages supported by NetSuite.

Language localization will be applied to the following:

- Menus and sub-menus
- Record and Field labels and Help text
- Advanced Manufacturing form labels
- Saved searches associated with Advanced Manufacturing data
- User interfaces including:
 - Capacity Planning
 - Finite Scheduling
 - Traveler generation
 - Scanners
 - Tablets in both Normal and Real Time modes

To learn more, in SuiteAnswers see [Choosing a Language for your NetSuite User Interface](#).

Inventory Status Support

In NetSuite Advanced Manufacturing 2018.1, the Inventory Status feature enables you to categorize inventory and control item allocation. The areas of Advanced Manufacturing that interact with inventory are now compatible with NetSuite Inventory Status. Inventory Status defaults to "Good" in NetSuite and Advanced Manufacturing:

- Assemblies built from one of the reporting tools will be created in Default status
- Issuing material from a mobile device will report and select inventory that is in Default status
- Material that is issued automatically selects only inventory that is in Default status to use with the work order

A future release of Advanced Manufacturing will provide improved status control, specifically in material issuance and consumption.

Known Limitations

NetSuite 2018.1 enables you to use the same bin across multiple locations. The following temporary limitations apply to Advanced Manufacturing 2018.1:

- All bins must be unique across all locations when used for Advanced Manufacturing processes. For example, auto-issue or tablet/scanner searches.
- Introducing duplicate bin can result in data processing errors.

A future release of Advanced Manufacturing will enable you to reuse bin names across locations.

Projects SuiteApps

Following is the 2018.1 projects enhancement to SuiteApps:

Resource Allocation Chart/Grid Filters

Resource Allocation Chart/Grid filters let you limit the data on the chart or grid so that only information that matches the specified conditions are shown. In version 3.0 of the SuiteApp, you can now customize the filters that appear on the filter panel. To create a filter, you can set a combination of the following fields from the Resource and the Allocation records:

Resource Record	Allocation Record
Resource Name	Project
Department	Customer
Class	Allocation Type
Location	Start Date
Billing Class	Allocation Level
Subsidiary	
Vendor Type	
Vendor Category	
Resource Type	

Two additional preferences to view the Resource Allocation Chart are also available on the settings page. You can choose to view allocation by customer or by project. Each preference comes with preconfigured default filters that determine how the information on the chart is sorted.

- **View Allocations by Customer** – When this preference is selected, users can view the allocations of each resource, per customer. The chart or grid displays the customer, the project for that customer, and the resources on the project.
- **View Allocations by Project** – When this preference is selected, users can view the allocations of each resource, per project. The chart or grid displays the project name, the resources for the project, and their corresponding allocation.

For more information, see the help topic [Resource Allocation Chart/Grid SuiteApp](#).

SuiteAnalytics SuiteApps

Following are the 2018.1 SuiteAnalytics enhancements to SuiteApps:

- [Dashboard Tiles Updates](#)
- [Navigation Portlet Enhancements](#)

Dashboard Tiles Updates

The following updates are available in Dashboard Tiles version 18.1:

- [Dashboard Tiles SuiteApp Now Generally Available](#)
- [Scorecard Tile as New Tile Type for Dashboard Tiles](#)
- [Added Validation for Non-SuiteScript Supported Saved Searches in Reminder Tiles](#)
- [Multi-Language Support for Dashboard Tiles](#)

Dashboard Tiles SuiteApp Now Generally Available

In the previous version, the Dashboard Tiles SuiteApp was available only in SuiteSuccess accounts. In 2018.1, Dashboard Tiles is now generally available in all NetSuite implementations.

This is a managed SuiteApp that is automatically updated whenever enhancements or new features are added.

The Dashboard Tiles SuiteApp displays your business critical KPIs in a bold and visual layout with images and blinking alerts. The blinking images are enabled when the threshold that you set for conditional alerts are met. You can also change the layout of your dashboard tiles based on your preferences.

For more information on this SuiteApp, see the help topic [Dashboard Tiles](#).



Scorecard Tile as New Tile Type for Dashboard Tiles


Prior to this release, you could only select Reminder or Static as tile types when you created a new dashboard tile. In Dashboard Tiles 1.03, you can now select **Scorecard** in the **Tile Type** field.

The Scorecard Tile displays the sum of the first available numeric column of the specific saved search. For example, the tile can display the sum of all rows in the Average of Quantity column if that is the first numeric column in the saved search.

You can also use the Scorecard Tile for comparison of values to get the variance percentage, difference, or absolute ratio. For example, you can use the Scorecard Tile to compare sales of the current month versus sales from the previous month. You can use the results of the specific saved search and compare it to a static value or another saved search result. The tile can display the comparison results along with the current and previous values used in the computation.

For more information, see the help topic [Scorecard Tiles](#).

Added Validation for Non-SuiteScript Supported Saved Searches in Reminder Tiles

 **Important:** This new validation capability is targeted for release on September 18, 2018.

Prior to this release, you can select saved searches that are not SuiteScript-supported when you create Reminder Tiles. Non-SuiteScript saved searches are not validated by the system and therefore displayed incorrectly in the reminder tile.

In Dashboard Tiles 1.04, you can no longer select saved searches that are not SuiteScript-supported. Validations are added when you save a reminder tile that contains a non-SuiteScript saved search.

For more information about creating a reminder tile, see the help topic [Creating Reminder Tiles](#).

Multi-Language Support for Dashboard Tiles



Important: This enhancement is targeted for release on September 2018.

Dashboard Tiles 1.04 now supports language translation to enhance user experience. You can now see labels, field level help, titles, links, and error and warning messages in your preferred language.

The Dashboard Tiles SuiteApp currently supports the following languages:

- English
- Chinese (Simplified)
- German
- French
- Latin American Spanish
- Japanese
- Portuguese (Brazil)

For more information about supported languages, see [Multi-Language Support for Dashboard Tiles](#).

Navigation Portlet Enhancements

The following enhancements are now available for Navigation Portlet:

- [Navigation Portlet SuiteApp Now Generally Available](#)
- [Multi-Language Support for Navigation Portlet](#)

Navigation Portlet SuiteApp Now Generally Available

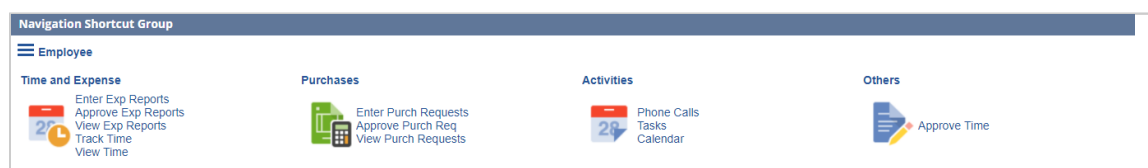
Previously, the Navigation Portlet SuiteApp was available only in SuiteSuccess accounts. In 2018.1, Navigation Portlet is now generally available in all NetSuite implementations.

This is a managed SuiteApp that is automatically updated whenever enhancements or new features are added.

The Navigation Portlet SuiteApp enables you to simplify your navigation to commonly used menus in NetSuite. You can create navigation categories to sort the shortcut groups and links that are relevant to a role in your account.

You can group the shortcuts or links that you commonly use for each navigation category. The links are displayed in the Custom Portlet and can also be configured using custom record. You can add multiple navigation portlets in your dashboard.

For more information on this SuiteApp, see the help topic [Navigation Portlet](#).



Multi-Language Support for Navigation Portlet

Navigation Portlet 1.03 now supports language translation to enhance user experience. You can now see labels, field level help, titles, links, and error and warning message in your preferred language.

The Navigation Portlet SuiteApp currently supports the following languages:

- English
- Chinese (Simplified)
- French
- German
- Japanese
- Latin American Spanish
- Portuguese (Brazil)

For more information about supported languages, see the help topic [Multi-Language Support for Navigation Portlet](#).

Taxation SuiteApps

Following are the 2018.1 taxation enhancements to SuiteApps:

- [Enhancements to Spain Online VAT Register](#)
- [Spain Online VAT Register \(Immediate Supply of Information "SII"\) v.1.1](#)
- [Mexico Electronic Accounting File Version 1.3](#)
- [Mexico Complementary Trial Balance](#)
- [Tax Codes and VAT Return Changes in International Tax Reports](#)

Enhancements to Spain Online VAT Register

The December 2017 release of the Tax Audit Files SuiteApp adds support for Spain Online VAT Register.

Using the Tax Audit Files SuiteApp, you can generate the following reports in the XML format, as specified by the Spanish tax agency:

- **Spain Cash Collections** – This report contains cash collections received by the taxpayer that have exceeded 6,000 Euros from the same customer on an annual basis. Transactions will include customer payments, cash refunds, cash sales, customer deposits, and customer refunds. This report is to be submitted annually.
- **Spain Investment Goods Register** – This report contains the fixed assets transactions subject to a pro rata and for which the taxpayer will not have full entitlement to recover VAT. Transactions will include vendor bills, cheques, and credit card charges that are reported in Invoices Received with CG-ES, IG-ES, and EIG-ES tax codes. This report is to be submitted annually.
- **Retroactive Reporting of Invoice Transactions** – You will be able to submit issued invoices and received invoices with transaction dates from January 1, 2017 through June 30, 2017. All registered invoice transactions from these dates must be submitted to the Spanish Tax Authority before December 31, 2017.

Other Spain Online VAT Register enhancements include support for recording of the **Non-deductible Input Tax**, excluding transactions where the tax codes have the **Exclude from VAT Reports** property, and the addition of new date fields on supported sales and purchase transactions.

For more information, see the help topic [Spain Online VAT Register](#).

Spain Online VAT Register (Immediate Supply of Information “SII”) v.1.1

The Tax Audit Files SuiteApp released on July 10, 2018 includes version 1.1 of the Immediate Supply of Information (SII) in the Spain Online VAT Register.



Important: Spain SII version 1.1 takes effect on July 1, 2018. However, the Agencia Tributaria (Spain tax authority) will accept both version 1.0 and version 1.1 until July 20, 2019. Starting on July 21, 2018, only version 1.1 will be accepted.

Spain SII version 1.1 includes the following changes:

- **Changes in XML Layout**

- Version ID is updated to 1.1
- PeriodoImpositivo tag is renamed **PeriodoLiquidacion**
- EmitidaPorTerceros tag is renamed **EmitidaPorTercerosODestinatario**
- **DetalleExenta** tag has been added

These XML changes comply with the updated requirements for SII version 1.1 when you generate the following reports:

- Issued Invoices
- Received Invoices
- Specific Intra-Community Transactions Ledger
- Investment Goods Register
- Cash Collections Register

- **New SII Transaction Fields**

You can use the following new fields in Spain transactions:

- External Reference
- Simplified Invoice Article 7.2 7.3
- Invoice with no Counterpart
- Billing record cannot be submitted on time
- Details of Subject and Exempt Transactions

- **Two new reports**

You can generate the following reports:

- Spain Issued Invoices – Corrected Amending Transactions
- Spain Received Invoices – Corrected Amending Transactions

- **Additional enhancements**

- **Customs – Additional Settlement** – You can select this invoice type for Received Invoices transactions.
- **First Semester 2017 and other invoices prior to inclusion in the SII** – You can select an updated option to identify transactions before SII.
- **Macrodata** – Transactions with ImporteTotal value greater than or equal to 100M Euros are automatically set with 'S' in the Macrodata tag in the XML.

For more information, see the help topics [Spain Online VAT Register](#), [List of XML Fields for Spain Online VAT Reports](#), and [Transaction Records for Spain](#).

Mexico Electronic Accounting File Version 1.3

The Tax Audit Files SuiteApp now supports the Mexico Electronic Accounting File Version 1.3. This version complies with the updated Mexico Tax Administration Service (SAT) requirements, using the updated XML layout for Mexico Tax Audit Files.

New Account Group Codes for Mexico Chart of Accounts are also included in Mexico Electronic Accounting File Version 1.3. You can map these new accounts assigned to your Mexico subsidiary to SAT-defined group codes using CSV import.

Mexico Complementary Trial Balance

The Tax Audit Files SuiteApp released on July 10, 2018 provides the ability to generate the Mexico Complementary Trial Balance in XML format. This is an updated trial balance that includes the following:

- Opening balances
- Movements during the period
- Final balances of each of the accounts corresponding to assets, liabilities, capital and reserves, and results (revenue, costs, expenses)

For more information, see the help topic [Generating Mexico Electronic Accounting File](#).

Tax Codes and VAT Return Changes in International Tax Reports

- [International Tax Reports SuiteApp version 3.95.0](#)
- [International Tax Reports SuiteApp version 3.100.0](#)
- [International Tax Reports SuiteApp version 3.101.0](#)

International Tax Reports SuiteApp version 3.95.0

The International Tax Reports SuiteApp version 3.95.0 includes the tax codes and VAT return updates for the following countries:

- [For Belgium](#)
- [For Malaysia](#)
- [For Serbia](#)
- [For Switzerland](#)

For Belgium

The following tax codes are now included in the calculation of taxes for credit notes and will show in Belgium VAT Return:

- RCFA-BE (Reverse Charge – Investment)
- IS-BE (Purchase of Services from Outside of EU)
- ECFA-BE (EU Purchases – Investments)
- ISND-BE (Reverse Charge – Services (Nondeductible))
- I-BE (Purchase of Goods from Outside of EU)

For Malaysia

The new version of the International Tax Reports SuiteApp includes new and renamed Malaysia GST tax codes for purchase and supply. The Malaysia GST-03 Return is also updated to include these new tax codes and Reverse Charge tax code.

For Serbia

The new version of International Tax Reports SuiteApp now includes Reverse Charge tax code in Serbia VAT Return.

For Switzerland

Effective January 2018, new VAT rates for Standard Rate (S-CH), Special Reduced Rate (SR-CH), and Reverse Charge in Country (RC-CH) will be used. The International Tax Reports SuiteApp now includes the 2018 version of the Switzerland VAT Return.

International Tax Reports SuiteApp version 3.100.0

The International Tax Reports SuiteApp version 3.100.0 includes the following tax codes and VAT return updates:

- [Malaysia Tax Rate Updates](#)
- [Romania Tax Rate Update](#)
- [UAE VAT Return Adjustment](#)

Malaysia Tax Rate Updates

Provisioning of Malaysia tax codes includes GST tax codes with updated tax rate of 0%.

For more information, see *Malaysia Tax Codes*.

Romania Tax Rate Update

Provisioning of Romania tax codes includes the standard tax code with tax rate of 19%.

For more information, see [Romania Tax Rate Update](#).

UAE VAT Return Adjustment

You can adjust tax amounts on UAE VAT returns and select the emirate to which the adjustment applies.

For more information, see the help topic [Making Adjustments on a VAT Return for UAE](#).

International Tax Reports SuiteApp version 3.101.0

The International Tax Reports SuiteApp version 3.101.0 includes the following tax codes and VAT return updates:

- [Malaysia Tax Codes and GST-03 Return Updates](#)

- [Norway VAT Report Update](#)

Malaysia Tax Codes and GST-03 Return Updates

Malaysia GST-03 Return has report version Malaysia 06/2018 for both English and Bahasa Malaysia, and includes the following:

- Updated Box 15 to show the total value of other supplies
- Updated Boxes 5a, 5b, 6a, and 6b to report appropriate tax codes applying the GST rate of 0%
- Updated box labels according to the Accounting Software guide published on March 8, 2018

For more information, see the help topics [Malaysia GST Tax Codes](#) and [What goes into each box - Malaysia GST-03 Return](#).

Norway VAT Report Update

Provisioning of Norway tax codes includes the Special Reduced Rate tax code with tax rate of 12%.

For more information, see the help topic [Norway Tax Codes](#).