

NetSuite 2019.1 Release Notes

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Important: This document summarizes the changes to NetSuite between 2019.1 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 2019.1 enhancements and changes listed in this document are not available to customers until they are upgraded to NetSuite 2019.1. 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 account. 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:

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Accounting

NetSuite 2019.1 includes the following enhancements to accounting features:


- [Adjustment-Only Secondary Books](#)
- [Budgets for Secondary Accounting Books](#)
- [Employee Related Lists Enhancements](#)
- [Period End Journal Entries Enhancements](#)
- [Advanced Revenue Management Enhancements](#)
- [GL Audit Numbering Enhancement](#)
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Adjustment-Only Secondary Books

NetSuite 2019.1 offers you the ability to post book-specific adjustments to a secondary, adjustment-only book at closing.

Adjustment-only books differ from standard secondary books in that they do not duplicate the data in the primary book. Instead, adjustments to data from the primary book are made in the adjustment book. You can display financial reports on the data from both the primary book and adjustment book in reports and searches.

Adjustment-only books can be used to comply with different accounting standards across multiple jurisdictions. They are also useful when the only requirement is to post adjustments by book-specific journal entries. You can create multiple adjustment books for a single base accounting book, and adjustment-only books do not count against the accounting book limit.

 **Note:** Adjustment-only books do not support using different base currencies in different books or books with different revenue recognition rules. Use a standard secondary accounting book setup for these cases.

To use this feature, you must use NetSuite OneWorld and have the Multi-Book Accounting feature enabled. Then, when setting up a new accounting book, check the new **Adjustment Only** box on the accounting book record to make it an adjustment-only book.

When created, standard transactions post only to the primary book, and adjustments are made in the adjustment-only book using book-specific journal entries. Reports generated for the adjustment-only book automatically include data from the primary book.

For more information, see the help topic [Adjustment-Only Books Overview](#).

Budgets for Secondary Accounting Books

In NetSuite 2019.1, you can now create and report on budgets and set independent budget exchange rates for secondary books. A new list called **Accounting Book** has been added to the budget record to select the book for which the budget is to be created.

With this option you can compare your secondary book data with budget values. It is particularly useful if you create budgets in a secondary book base currency. As with budgets for primary books, you can import budget data from CSV files.

Budgets for secondary books are included in the following budget reports:

- Budget Income Statement
- Budget Income Statement Detail
- Budget vs. Actual

Secondary book budgets can be used with or without the Multiple Budget feature. In both cases, you can create secondary book budgets with global budget categories if the secondary books can be consolidated and include the parent subsidiary.

If you do not have the Multiple Budgets feature, budgets for secondary books are treated as global budgets by default. With the Multiple Budgets feature enabled, you can create budgets with local budget categories without any restrictions. Secondary budgets are also copied when you copy budgets at Transactions > Financial > Copy Budgets.

To use this feature, you must use NetSuite OneWorld and the Multi-Book Accounting feature enabled.

For more information, see the help topic [Budgets for Secondary Accounting Books Overview](#).

Employee Related Lists Enhancements

In NetSuite 2019.1, you can assign a category to an employee status and an employee type. Categories for employee status include prehire, actively employed, leave, and terminated. Categories for employee

type include contingent, contractor, non-worker, and permanent. For more information, see [Employee Status and Employee Type Categories](#).

Period End Journal Entries Enhancements

NetSuite 2019.1 includes the following enhancements to the Period End Journal Entries feature.

New and Enhanced Subsidiary Preferences

One subsidiary preference for Period End Journal Entries has been changed in 2019.1 and a new preference has been added.

- Create Period End Journals by Segment has been enhanced and renamed to **Group by These Segments**. The enhanced preference is a multi-select list that displays all the segment types available for the subsidiary. You select the classification segments for which you want to generate separate period end journals. The multi-select list for this preference displays all the segment types in the account that impact the general ledger.
- When the GL Audit Numbering feature is enabled, the new **Exclude Balance Sheet Closing Journals from GL Numbering** preference lets you skip GL numbering for balance sheet closing journals. Balance sheet closing journals are excluded from GL audit numbering when the preference box is checked. The check box is available for editing after you have saved the subsidiary record with the Create Balance Sheet Closing and Opening Journals preference checked and configured.

The screenshot shows the 'Period End Journal Entries' preference page. The 'Exclude Balance Sheet Closing Journals from GL Numbering' checkbox is checked and highlighted with a red box. The 'Group by These Segments' multi-select list is also highlighted with a red box, showing options: Class, Department, Location, and Custom Segment.

Increased Flexibility for Creating Period End Journals

Changes in the user interface and processing rules have been made to enhance period end journal creation and deletion.

- The Task: Create Period End Journals page now includes a **Create All Journals** button. When you click Create All Journals, all period end journal processes shown on the task page are started. If you have already successfully completed some processes for this period, those processes are skipped.

If the Require Memo on Period End Journals box is checked in the preferences for any subsidiary, an error is logged for the first process for that subsidiary. The processes for other subsidiaries continue to run.

The screenshot shows the 'Task: Create Period End Journals' page. The 'Create All Journals' button is highlighted with a red box. The 'Delete Journals' button is also highlighted with a red box. The page shows the period as Feb 2017, start date as 2/1/2017, and end date as 2/28/2017.

- The Actions menu has been moved from the Create Journals page to the Task: Create Period End Journals page. The Actions menu includes the Delete link that opens the Delete Period End Journals page.
- On the Create Period End Journals page, you can now check any box on any of the subtabs that have journals ready to process. If you check boxes for processes that are dependent on other processes, the required processes run automatically, even if you have not selected them. Previously completed processes are skipped.

Advanced Revenue Management Enhancements

Advanced Revenue Management includes the following enhancements in 2019.1:

- The functions available for fair value formulas have been restricted to those that are appropriate for use with fair value calculations.
- A new filter has been added to the Update Revenue Arrangement and Revenue Plans page for those who use Multi-Book Accounting with Advanced Revenue Management. When you do manual updates, the **Accounting Book** filter enables you to filter your submissions by accounting book, as well as by date range. The Accounting Book filter applies to the update processes for revenue elements, revenue arrangements, and revenue recognition plans.
- Revenue recognition and reclassification journal entries now appear on the Related Records subtab of revenue arrangements with links to the records.

GL Audit Numbering Enhancement

Beginning in 2019.1, you can choose whether to exclude posting transactions containing only zero-amount lines from general ledger audit numbering, including:

- Voided transactions
- Cancelled bills
- Item fulfillments for zero-amount items

This can be used for companies in jurisdictions which require that all transactions be numbered for audit purposes, regardless of value. To use this preference, you must have the GL Audit Numbering feature enabled.

This feature adds an **Exclude Zero Amount Transactions** box to the GL Audit Numbering Sequence form at Transactions > Management > GL Audit Numbering Sequences. When checked, transactions with only zero-amount lines are excluded from the numbering sequence. When cleared, all transactions will be included in GL audit numbering.

For more information, see the help topic [Excluding Transactions with Zero Amount Lines from GL Audit Numbering](#).

Month End Currency Revaluation Enhancement

The Month End Currency Revaluation page now has **Mark All** and **Unmark All** buttons at the top of the list of accounts to facilitate account selection. You can access this page from the menu at Transactions > Financial > Revalue Open Currency Balances or from the Revalue Open Foreign Currency Balances task on the Period Close Checklist.

<input type="button" value="Mark All"/> <input type="button" value="Unmark All"/>					
INCLUDE	ACCOUNT	ACCOUNT TYPE	CURRENCY	LAST RUN DATE	RESULT
<input checked="" type="checkbox"/>	Accounts Payable	Accounts Payable	US Dollar		
<input checked="" type="checkbox"/>	Accounts Receivable	Accounts Receivable	US Dollar		
<input checked="" type="checkbox"/>	Fees Receivable	Accounts Receivable	US Dollar		

Transaction Numbering Enhancements

Following are the 2019.1 transaction numbering enhancements:

- [Block Duplicate Document Numbers When Creating Vendor Bills, Vendor Credits, Card Charges, or Card Refunds](#)
- [Global Search by Document Number Only](#)

Block Duplicate Document Numbers When Creating Vendor Bills, Vendor Credits, Card Charges, or Card Refunds

NetSuite 2019.1 now makes it possible to block users from creating the following transaction types if saving the form will result in duplicate document numbers:

- Vendor Bills
- Vendor Credits
- Card Charges
- Card Refunds

Prior to 2019.1, if the **Duplicate Number Warnings** preference on the Items/Transactions subtab at Setup > Accounting > Preferences > Accounting Preferences (Administrator) was checked, NetSuite warned when saving a transaction would produce a duplicate document number. With 2019.1, when **Warn and Block** in the Duplicate Number Warnings list is selected, users must change the external document number when a duplicate is possible.

To use this preference, an administrator can go to Setup > Accounting > Preferences > Accounting Preferences (Administrator). On the Items/Transactions subtab, select one of three options in the Duplicate Number Warnings list:

- **No Warnings** – Users are not warned when the transaction they are saving will create a duplicate document number.
- **Warn** – Users receive a message when attempting to save a transaction record with the same document number as another record of the same type. When the warning is displayed, a user can enter a different number before attempting to save again. Prior to 2019.1, this is how the Duplicate Number Warnings preference worked.
- **Warn and Block** – Users receive a message when attempting to save a transaction record with the same number as another record of the same type. When the warning is displayed, the user must click Cancel and change the document number in the record.

Users can also set their preference for duplicate number warnings at Home > Settings > Set Preferences > Transactions > Warnings, however, this setting is overridden by the company preference at Setup > Accounting > Preferences > Accounting Preferences (Administrator).

For more information, see the help topics [Items/Transactions Accounting Preferences](#) and [Duplicate Transaction Number Warnings](#).

Global Search by Document Number Only

NetSuite 2019.1 adds a preference to search only by document numbers when running global searches.

Prior to 2019.1, entering a number in global search returned results for both that document number and transaction number. With this preference, global search excludes transaction numbers from the search, and only searches by document numbers.

To use this preference, users with the **Set Up Company** role permission can go to Setup > Company > General Preferences and clear the **Show Transaction Numbering Setup** box. This will limit global searches to document numbers. This preference also hides the transaction numbering subtab at Setup > Company > Auto-Generated Numbers. To include both document and transaction numbers in global searches, check the Show Transaction Numbering Setup box.

For more information, see the help topics [Setting General Account Preferences](#) and [Global Search by Document Number Only](#).

Currency Rounding in Custom GL Lines Plug-in

Currency precision in NetSuite is zero or two decimal places, depending on the currency. For example, USD amounts have two digits to the right of the decimal, and Japanese yen (JPY) have none. Previously, the custom lines rounding was performed together with standard lines, which could result in errors or rounding corrections that sometimes affected standard lines.

As of 2019.1, credit and debit amounts set by the Custom GL Lines Plug-in are now directly rounded to currency precision. This change ensures that custom and standard lines are rounded and balanced separately. The totals of the rounded currency amounts entered on custom lines must balance, so a check is performed when the plug-in starts to run. If the validation of the totals fails, then the plug-in run also fails.

Administration

NetSuite 2019.1 includes the following enhancements to Administration features:

- [Change to Email Size Limit](#)
- [Opt In to Release Preview](#)
- [Mandatory 2FA Now Enforced for Integration Access to NetSuite](#)
- [Issue Token Endpoint Extended to Accommodate Mandatory 2FA Requirement](#)
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- [Log of Outbound HTTPS and SFTP Requests Now Available](#)
- [Reset of Long-Abandoned Customer Center Passwords](#)

- [Account-Specific Domains in NetSuite](#)
- [Application Performance Management \(APM\) Enhancements](#)
- [Measuring the Performance of SCIS Customizations](#)

Change to Email Size Limit

As of June 2019, the maximum size for email messages has changed to 15,000,000 bytes (15 MB). This limitation applies to the size of the message body and all attachments. See the help topic [Attaching Files to Email Messages](#).

Opt In to Release Preview

NetSuite 2019.1 introduces a Release Preview opt-in model. Based on 2018.2 Release Preview usage, some customers will receive a Release Preview account by default. All other customers can request a Release Preview account using the new Release Preview page in your production account.

For details about how administrators can opt in, see the help topic [Requesting a Release Preview Account](#).

Mandatory 2FA Now Enforced for Integration Access to NetSuite

NetSuite began enforcing the mandatory two-factor authentication (2FA) requirement in all NetSuite accounts as of 2018.2. By default, the Administrator and other highly privileged roles are designated as 2FA required, and this requirement cannot be removed. Any standard or customized roles subject to the 2FA requirement are indicated in the **Mandatory 2FA** column on the **Two-Factor Authentication Roles** page.

Two-Factor Authentication Roles			
<input type="button" value="Submit"/>			
<input type="checkbox"/> SHOW INACTIVES			TOTAL
ROLE	MANDATORY 2FA	TWO FACTOR AUTHENTICATION REQUIRED	DURATION OF TRUSTED DEVICE
System Administrator		Not required	Per session
Marketing Administrator	✓	2FA authentication required	14 Days
Marketing Assistant		Not required	Per session
Marketing Manager		2FA authentication required	8 Days
PM Manager		Not required	Per session
Partner Center		2FA authentication required	7 Days
Payroll Manager		Not required	Per session
Payroll Setup		2FA authentication required	29 Days
Product Manager		Not required	Per session
Publisher - Enhanced Sales Ctr		Not required	Per session
QA Engineer		2FA authentication required	14 Days
QA Manager		Not required	Per session
Resource Manager	✓	Not required	Per session
Retail Clerk		Not required	Per session
Retail Clerk (Web Services Only)		Not required	Per session
Revenue Accountant		Not required	Per session
Revenue Manager		Not required	Per session
Sales Administrator	✓	2FA authentication required	14 Days

Integrations that employ user credentials to access NetSuite may be subject to mandatory 2FA in the following situations:

- NLAAuth for RESTlets. For more information, see the help topic [Using User Credentials for RESTlet Authentication](#).
- SOAP web services integrations that use the login operation. For more information, see the help topic [login](#).
- SOAP web services integrations that use the passport element sent as Request Level Credentials (RLC). For more information, see the help topic [Request-Level Credentials](#).
- Inbound SSO integrations that use the mapSso operation. For more information, see the help topic [mapSso](#).

For more information, see the help topic [Mandatory Two-Factor Authentication \(2FA\) for NetSuite Access](#).



Important: Your integrations must use certain functions that require a highly privileged role. You should transition these integrations to use token-based authentication (TBA) rather than user credentials, or specify a less-privileged role that does not require 2FA. For more information, see the help topic [Token-based Authentication \(TBA\)](#). For information about using TBA with your integrations, see the help topic [Integration Management](#).



Note: A series of test windows is planned for enforcing mandatory 2FA for integrations. These test windows will help you to determine whether your integrations are ready for mandatory 2FA. You will receive notifications concerning the dates and times the test windows will be in effect in your accounts.

Issue Token Endpoint Extended to Accommodate Mandatory 2FA Requirement

For the issue token endpoint, the NLAAuth authentication header includes an optional parameter, `nlauth_otp`. The `nlauth_otp` parameter is useful if you are going to issue a token for a highly privileged role. You can use the `nlauth_otp` parameter to include a one-time password (OTP) in the NLAAuth header. The OTP is equivalent to the 2FA verification code provided by a user logging in to the NetSuite UI. Users can generate the necessary codes using an authenticator application, such as Google Authenticator, Microsoft Authenticator, or Okta Verify. The authentication application you choose must support OATH TOTP, the IETF RFC 6238 standard. To review the standard, go to <https://tools.ietf.org/html/rfc6238>.

An authenticator app is configured for and linked to a user's email address. The verification code must be synchronized to the email address used in the NLAAuth header for the integration.



Note: An authenticator app must generate the verification code included in an NLAAuth header. Verification codes such as those supplied by an email, an SMS message, a voice call, or from a backup code are not acceptable.

The OTP is a TOTP: a time-based one-time password. Time-based means that the verification code must be generated at the time of need. In this case, the verification code must be generated when the request is sent and being authenticated. The verification code is valid for approximately a minute during authentication. The validity window may vary depending on the implementation.

For more information, see the help topic [Mandatory 2FA, the Issue Token Endpoint, and nlauth_otp](#).

When calling the Issue Token endpoint, an Integration record is created and automatically installed in your account. The **Require Approval during Auto-Installation of Integration** preference affects whether this new record is automatically enabled. You can manage the preference at Setup > Integration > Web Services Preferences.

If the box for the **Require Approval during Auto-Installation of Integration** preference is:

- Not checked (set to false) the **State** field on the new application is automatically set to **Enabled**, and all requests are permitted.
- Checked (set to true) the **State** field on the new integration record is set to **Waiting for Approval**.

In the latter case, you must manually edit the record and set the **State** to **Enabled**. Until you do, all requests sent by that application are blocked.

Note: A series of test windows is planned for enforcing mandatory 2FA for integrations using the issue token endpoint. These test windows will help you to determine whether your integrations that are using the issue token endpoint are ready for mandatory 2FA. You will receive notifications concerning the dates and times when the test windows will be in effect in your accounts.

Sandbox Domain Deprecation

The sandbox domain will no longer be accessible as of February 28, 2019. You must refresh your sandbox accounts residing on the sandbox domain (system.sandbox.netsuite.com) before this date so that they will move to the NetSuite domain (system.netsuite.com). If you do not refresh your sandbox, you will lose access to sandbox accounts on the sandbox domain on February 28th, 2019.

For more information, see [Sandbox Pre-transition Checklist](#).

Core Administration Permissions Feature

The Core Administration Permissions feature has been introduced in 2019.1 to reduce the need to use the standard administrator role. You can use the Core Administration Permissions feature to customize a role to behave like the administrator role, while also restricting access to areas of NetSuite. For example, you can create a role for an IT administrator and assign the access the role needs, but limit the role's access to sensitive employee information.

Important: When you assign the Core Administration Permissions feature to a role, the role automatically becomes a mandatory two-factor authentication (2FA) role. For more information, see the help topic [Permissions Requiring Two-Factor Authentication \(2FA\)](#).

Before you can assign Core Administration Permissions, you must enable the feature. To enable the Core Administration Permissions feature, go to Setup > Company > Setup Tasks > Enable Features. On the **Company** subtab, under **Access**, check the **Core Administration Permissions** box.

You can assign Core Administration Permissions to any role, and then configure the role to restrict access to areas of NetSuite. To grant access to other parts of NetSuite, assign the appropriate permissions to the customized role. To assign Core Administration Permissions, go to Setup > Users/Roles > User Management > Manage Roles. Next to a role, click **Customize**. Check the **Core Administration Permissions** box. To save your changes, click **Save**.

For more information, see the help topic [Core Administration Permissions](#).

Plan to Deprecate the Full Access Role

As of 2019.1, the following changes have been made to the Full Access role:

- The Full Access role has been renamed to **Full Access (deprecated)**.
- You cannot assign the Full Access role to new users.

- When users log in with the Full Access role, they see a notification indicating that the Full Access role is being deprecated.
- A new permission called Core Administration Permissions is available. This permission provides access to some of the same functions that are currently available to users with the Full Access role. You may be able to use Core Administration Permissions as an alternative to the Full Access role.

You should review the users in your account to whom the Full Access role is assigned. Determine which users need the Full Access role for their job functions and consider the following:

- If any users do not need the Full Access role, assign them another role and encourage them to start using it as soon as possible.
- For users who do require this role, analyze their needs to determine the access granted by this role that is not available through a different role. Develop a strategy to configure the desired access for these users by assigning them a different role or additional global permissions.

For more information, see the help topics [Customizing or Creating NetSuite Roles](#) and [Core Administration Permissions](#).

Enhanced Options to Configure Subsidiary Restrictions for Roles

As of 2019.1, enhancements have been added to the role record page where you configure subsidiary restrictions. These changes are designed to make it more intuitive to assign subsidiary restrictions to roles. Previously, it was not clear how to restrict access to a user's subsidiary, and granting access to all active subsidiaries was a manual process. Also, it was not possible to control access to inactive subsidiaries because they were not included in the list of active subsidiaries. To address these issues, a new Subsidiary Restrictions section has been added to the Role page.

The Subsidiary Restrictions section of the Role page now includes the following four options:

- **All** – Grants the role access to all subsidiaries, including inactive subsidiaries.
- **Active** – Grants the role access to the active subsidiaries only.
- **User Subsidiary** – Restricts the role's access to the user's subsidiary only. When users log in with this role, they can only access their own subsidiaries. A user's subsidiary is set on the employee record. For more information, see the help topic [Assigning a Subsidiary to an Employee](#). By default, this option is selected when you create a new role.
- **Selected** – When you select this option, a list of active and inactive subsidiaries is populated. You select the subsidiaries to which you want to restrict the role's access. You must select at least one subsidiary from the list.

Also, the **Allow Cross-Subsidiary Record Viewing** box has been moved from the General section to the Subsidiary Records section of the Role page.


As of the 2019.1 upgrade, the default behavior of the Subsidiary Restrictions section is as follows:

- New role – By default, Subsidiary Restrictions is set to **User Subsidiary**.

- Existing role with no subsidiary restrictions selected – By default, Subsidiary Restrictions is set to **User Subsidiary**.
- Existing role with subsidiary restrictions selected – By default, Subsidiary Restrictions is set to **Selected**. The selected subsidiaries does not change. If you want a role to be able to access all subsidiaries or all of the active subsidiaries, you need to change the Subsidiary Restrictions to **All** or **Active** for the roles.

The enhancements to subsidiary restrictions may cause some users to experience changes in access to records. Administrators will be required to adjust the impacted roles to make sure that users have the access they require. Additionally, some scripts using custom roles may require updates.

If necessary, administrators and users with the Set Up Company permission can revert the role behavior of active and inactive subsidiaries to the 2018.2 state. To revert the 2019.1 subsidiary assignment changes, on the **General Preferences** page, check the **Enable Legacy Subsidiary Restrictions** box.


 **Note:** The Enable Legacy Subsidiary Restrictions is a temporary preference that will be removed in a future release. As such, you should only use the preference as a temporary solution.

For more information about subsidiary restrictions for roles, see the help topic [Customizing or Creating NetSuite Roles](#).

New Employee Access Permission

As of 2019.1, when the Advanced Employee Permissions feature is enabled, the Employee Access permission is available to be assigned to roles. A role with this permission can give access and assign roles to employees who fall into the restriction policy defined on their role. This permission is not automatically assigned to a role when the feature is enabled and must be manually added. For more information, see the help topic [Employee Access Permission Overview](#).

Copy to Account (Beta): Copy a Custom Record Between Your Accounts

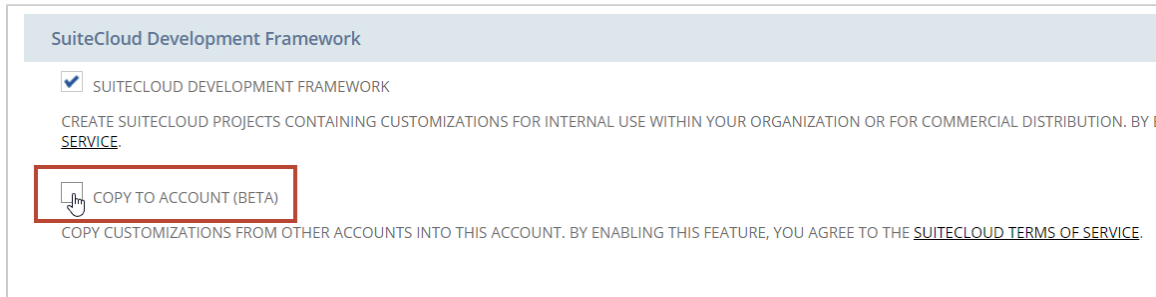
 **Warning:** Copy to Account is a beta feature. The contents of this feature are preliminary and may be changed or discontinued without prior notice. Any change may impact the feature's operation with the NetSuite application. Warranties and product service levels do not apply to this feature or the impact of the feature on other portions of the NetSuite application. We may review and monitor the performance and use of this feature. The documentation for this feature is also considered a beta version and is subject to revision.

Copy to Account is a new SuiteCloud platform tool for administrators. Users with limited programming knowledge can copy a custom record, also known as a custom object, into another account that they administer.

 **Note:** Copy to Account is powered by SuiteCloud Development Framework (SDF). For more information, see the help topic [Copy to Account Overview](#).

Prior to 2019.1, installing a customization to another account required SuiteScript or SDF experience. You could use SDF to import customizations into an account customization project and deploy them to your accounts. With Copy to Account, you can now deploy a custom record, also known as a custom object, with a point-and-click NetSuite interface. Copy to Account is for accounts to which you have administrator access, such as your production, development, and sandbox account types. It can copy one custom object (including dependencies and instances) at a time.

Copy to Account is available only to users with the account administrator role. In addition, on the target account to which you want to deploy, you must enable the **Copy to Account** feature at **Setup > Company > Enable Features**.



SuiteCloud Development Framework

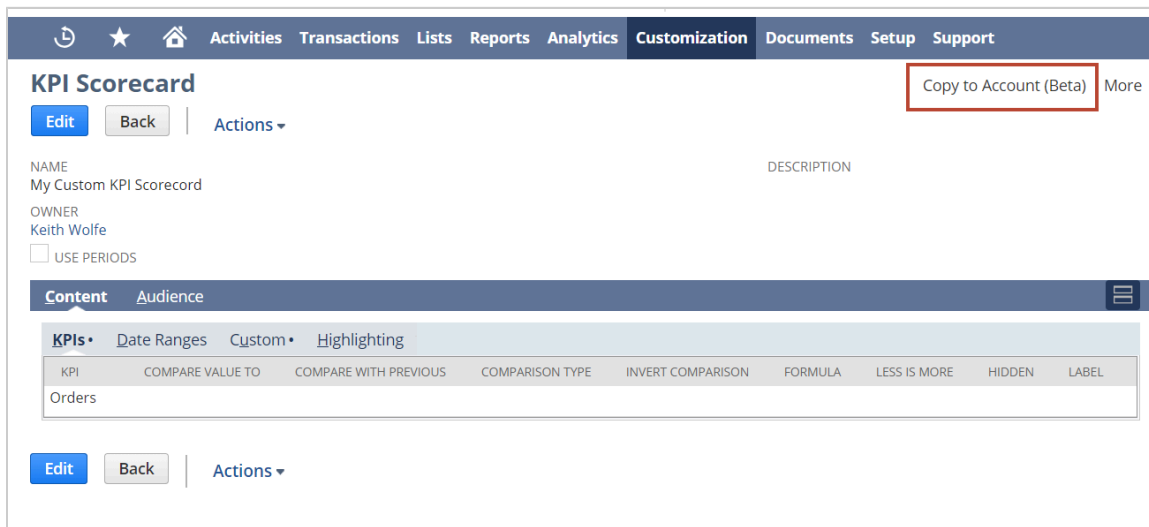
☒ SUITECLOUD DEVELOPMENT FRAMEWORK

CREATE SUITECLOUD PROJECTS CONTAINING CUSTOMIZATIONS FOR INTERNAL USE WITHIN YOUR ORGANIZATION OR FOR COMMERCIAL DISTRIBUTION. BY ENABLING THIS FEATURE, YOU AGREE TO THE [SUITECLOUD TERMS OF SERVICE](#).

☐ **COPY TO ACCOUNT (BETA)**

COPY CUSTOMIZATIONS FROM OTHER ACCOUNTS INTO THIS ACCOUNT. BY ENABLING THIS FEATURE, YOU AGREE TO THE [SUITECLOUD TERMS OF SERVICE](#).

To start Copy to Account, in the source NetSuite account, click the **Copy to Account (Beta)** link on a custom record that is supported by SDF. For more information about custom records that are supported by SDF, see the help topic [Customizations Supported by SuiteCloud Development Framework](#).



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

KPI Scorecard Copy to Account (Beta) More

Edit Back Actions

NAME: My Custom KPI Scorecard
OWNER: Keith Wolfe
☐ USE PERIODS

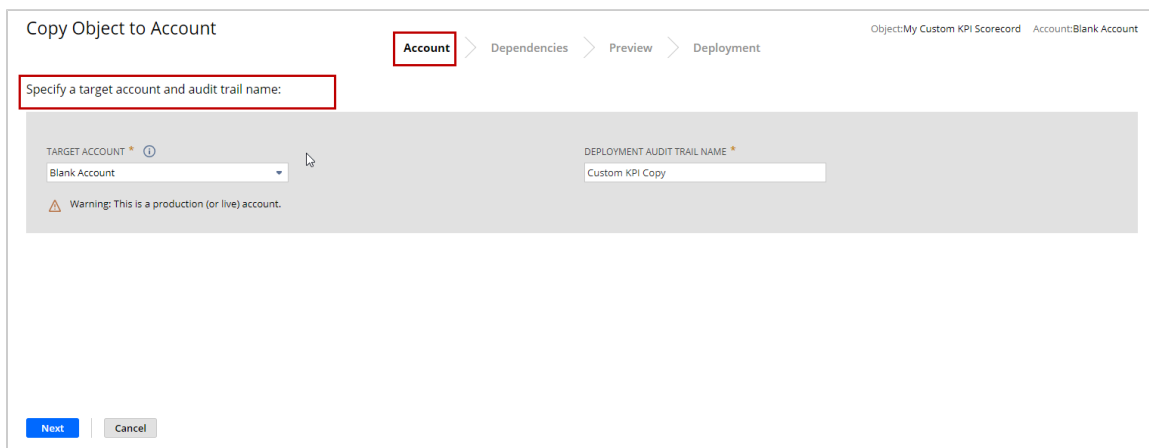
Content Audience

KPIs • Date Ranges Custom • Highlighting

KPI	COMPARE VALUE TO	COMPARE WITH PREVIOUS	COMPARISON TYPE	INVERT COMPARISON	FORMULA	LESS IS MORE	HIDDEN	LABEL
Orders								

Edit Back Actions

Specify the target account and give it a deployment name.



Copy Object to Account Account > Dependencies > Preview > Deployment Object: My Custom KPI Scorecard Account: Blank Account

Specify a target account and audit trail name:

TARGET ACCOUNT * Warning: This is a production (or live) account.

DEPLOYMENT AUDIT TRAIL NAME *

Next Cancel

Copy to Account determines any dependencies, references, and instances related to the custom record. A data grid is generated to help you select which dependencies to include in your copy. It shows the required items, parent and child components, status in the target account, and other information.

Note: You cannot copy customizations that are locked, hidden, part of an installed SuiteApp, or involved in a circular dependency. For more information, see the help topic [Handling Dependency Errors](#).

Copy Object to Account Account > **Dependencies** > Preview > Deployment Object: My Custom KPI Scorecard Account: Blank Account

Select dependencies: Learn more about dependencies

<input type="checkbox"/>	NAME	SCRIPT ID	TYPE	STATUS	INCLUDE INSTANCES
<input checked="" type="checkbox"/>	My Custom KPI Scorecard	custkpiScorecard1	KPI Scorecard	Absent from Target Account	

Back Next Cancel

After selecting your dependencies, you are prompted to preview deployment to the target account. During this step, your copy is validated against the target account.

Copy Object to Account Account > Dependencies > **Preview** > Deployment Object: My Custom KPI Scorecard Account: Blank Account

✓ Preview is complete. Ready to deploy.

Validate manifest -- Success
 Validate deploy file -- Success
 Validate configuration -- Success
 Validate objects -- Success
 Validate files -- Success
 Validate folders -- Success
 Validate preferences -- Success
 Validate flags -- Success
 Validate account settings -- Success
 Validate Custom Objects against the Account -- Success
 Validate file cabinet items against the account -- Success
 Validation COMPLETE

DEPLOYMENT PREVIEW

Create object -- custkpiScorecard1 (kpiScorecard)
 Preview COMPLETE

Back Deploy Cancel

When the preview is completed, your copy is ready to deploy. At the deploy step, you can leave the page or keep the page open to view a live log. Deployment cannot be canceled.

Copy Object to Account Account > Dependencies > Preview > **Deployment** Object: My Custom KPI Scorecard Account: Blank Account

✓ Deployment complete DEPLOYMENT AUDIT TRAIL NAME: Custom KPI Copy

2019-01-04 08:47:06 (PST) Installation started
 Info -- Account [(PRODUCTION) Blank Account]
 Info -- Account Customization Project [Custom KPI Copy]
 Info -- Framework Version [1.0]
 Validate manifest -- Success
 Validate deploy file -- Success
 Validate configuration -- Success
 Validate objects -- Success
 Validate files -- Success
 Validate folders -- Success
 Validate preferences -- Success
 Validate flags -- Success
 Validate account settings -- Success
 Validate Custom Objects against the Account -- Success
 Validate file cabinet items against the account -- Success
 Begin deployment
 Create object -- custkpiScorecard1 (kpiScorecard)
 2019-01-04 08:47:10 (PST) Installation COMPLETE (0 minutes 5 seconds)

Done

From the target account, you can download a log of the deployment at **Customization > SuiteCloud Development > Deployment Audit Trail**. The log is identified by the deployment name you specified for the copy.

PUBLISHER ID	APP ID	NAME	VERSION	ACTION	STATUS	START DATE	END DATE	USER	ERROR REFERENCE	LOG
		Custom KPI Copy		INSTALL	COMPLETE	1/4/2019 8:47 am	1/4/2019 8:47 am			Download Log

Important: In some cases, object support is only partial and only a subset of the fields can be copied. For more information, see the help topic [Copy to Account Overview](#).

For more information, see the following topics:

- [Copy to Account](#)
- [SuiteCloud Platform Introduction](#)

Multi-Language Translation Management (Beta)

Warning: Translation Collections is a beta feature. The contents of this feature are preliminary and may be changed or discontinued without prior notice. Any change may impact the feature's operation with the NetSuite application. Warranties and product service levels do not apply to this feature or the impact of the feature on other portions of the NetSuite application. We may review and monitor the performance and use of this feature. The documentation for this feature is also considered a beta version and is subject to revision.

NetSuite 2019.1 provides beta support for NetSuite Translation Collections.

A Translation Collection is a customization object that stores translation terms with their translations. A single Translation Collection can contain up to 1,000 translation terms. A translation term is a key/value pair: the key being an identifier, and its value being a translatable string. Keys contain one string that can be translated into multiple languages. You can translate a string into any language supported by NetSuite. For a list of languages supported by NetSuite, see the help topic [Configuring Multiple Languages](#).

If you are a NetSuite developer or NetSuite account administrator, you can create a collection of terms for translation. You can export the collection of terms to a translation vendor in the form of an XLIFF or XLF translation file. After the translation vendor translates the collection of terms, you can import the translation file. You can use the collection of terms to translate labels and messages in the NetSuite UI and in SuiteApps.

You can include Translation Collections in NetSuite bundles. For more information, see [Translation Collection Objects Can Be Included in Bundles](#).

SuiteScript developers can programmatically interact with Translation Collections with the SuiteScript 2.0 [N/translation Module](#). Developers can load a collection to view the terms within a collection, or get a single string to use in a translation. For more information, see [SuiteScript 2.0 – N/translation Module \(Beta\)](#).

To use Translation Collections, you must have:

- The Multi-Language feature enabled in your NetSuite account. For information, see the help topic [Enable Localization Features](#).

- The Manage Translation permission granted for your role. For information about setting permissions for a role, see the help topic [Set Permissions](#).

In the UI, you manage Translation Collections on the Manage Translations page, accessible from **Customization > Translations > Manage Translations (Beta)**.

Manage Translations (Beta)						Import...
Collections Strings Import Jobs						
New						
NAME	SCRIPT ID	FROM BUNDLE	DEFAULT LANGUAGE	DESCRIPTION	STRINGS	
*** Phrases	custcollection_phrases		German		4	+
*** Simple strings	custcollection_simplestrings		Spanish		2	
*** Special strings	custcollection_specialstrings		Spanish		4	
*** Full collection, 1000 keys	custcollection_manystings		Spanish		1001	
*** Collection to test Long values	custcollection_longvalues00000cu...		Spanish		1	

The following table lists translation management tasks and where to find information about each task:


Task	See
Create translation collections	Creating a Translation Collection
Modify translation collections	Modifying a Translation Collection
Delete translation collections	Deleting a Translation Collection
Export collection translation files to send to translation vendors for translation	Exporting a Translation Collection
Import translation files after they have been translated by vendors	Importing a Translation Collection
Manage collection strings	Working with Translation Collection Strings
View information about Translation Collections	About the Manage Translations Page Manage Translations Page Collections Subtab
View information about the strings in collections	Manage Translations Page Strings Subtab
View information about collections that have been imported	Manage Translations Page Import Jobs Subtab
Use collections with SuiteScript	Use Translation Collections with SuiteScript
Include collections in bundles	Creating a Bundle with the Bundle Builder Objects Available in Customization Bundles

Certificate Storage for Digital Signing

As of 2019.1, a new Certificates menu item is available to administrators and other users with the appropriate permission. To access the Certificates menu, go to Setup > Company > Preferences > Certificates. The Digital Certificates page offers storage for PFX and P12 files used to authenticate your identity in jurisdictions where digital signing is required or supported. Developers can now sign sections of XML documents generated from NetSuite, such as invoices, with the digital signature from a certificate they have uploaded on the Digital Certificates page. A new SuiteScript 2.0 Digital Signing API is supported for this purpose.

You can view upcoming expiration dates of certificates and upload multiple certificates for various subsidiaries. You do not need to upload public certificates.

The Server SuiteScript feature must be enabled to access the Digital Certificates page. Two new permissions are available to manage access to the Digital Certificates page. You can add the Certificate Access permission to a role to give users access to certificates through scripting. Add the Certificate Management permission to give access to the Digital Certificates page in the UI.

Digital Certificates				
<input type="text" value="Search name, description, id, subsidiaries or expiration date"/>		<input type="checkbox"/> Expiring soon only	Create New	<< < 1 of 1 > >>
NAME	DESCRIPTION	ID	SUBSIDIARIES	EXPIRATION DATE
Brazilian test certificate 1		custcertificatebraztest1	SUB BR(USD)	12/20/2018 
China test certificate 1		custcertificatechinatest1	Parent Company, SUB UK, SUB SING, SUB ...	9/12/2027

For more information on the new Digital Signing API, see [SuiteScript 2.0 – Signing API](#).

Mutual (Two-Way) Authentication for Outbound HTTPS Connections

In some countries and markets, NetSuite customers must comply with government regulations requiring mutual, or two-way, authentication of HTTPS connections. Both parties, the server and the client, can authenticate each other. The need for highly secure communications is typically a requirement for tax-related communications between business and governments or other institutions. Administrators and SuiteScript developers will appreciate the benefits that mutual authentication provides. Mutual authentication provides a more secure communication pathway that any of your applications can use.

Log of Outbound HTTPS and SFTP Requests Now Available

An Outbound Requests log is now available in NetSuite, a record of all outbound HTTPS and some SFTP requests made by an account. Previously, it was not possible to view logs for outgoing HTTPS and SFTP requests made from your NetSuite account. The ability to view logs is important for auditing account activity. An audit of a log helps to identify requests that result in errors and requests that are not as efficient as they could be.

The Outbound Requests log includes the URL, the method, the result, and other useful details. SFTP requests issued from SuiteScript are also logged. A link to the script deployment that issued a particular request is also available. By default, the log is only accessible to users with the administrator role. Administrators can assign the Outbound Request permission to other roles in an account to provide view access to the log to other users.

To access the log, go to Setup > Company > Communication > Outbound Request List. Click **Customize View** to modify how the data is displayed in the list. (See the help topic [Customizing List Views](#) if you need more information.) The order of the columns has been modified in the following example.

Outbound Requests										
VIEW Example Custom Outbound Requests Edit View										
FILTERS										
STYLE Normal										
#	TIME OF COMPLETION	PROTOCOL	METHOD	HOST	PORT	HTTP STATUS CODE	ELAPSED TIME (MS)	REQUEST ID	SCRIPT ID &	URL
1	26.2.2019 12:29 pm	HTTPS	POST	netSuite.com	443	206	133	426ebbc9-6e32-4d28-867d-846a0f156a28	CUSTOMSCRIPT_2663_BATCH_PROCESSING_P	https://netSuite.com/app/site/hosting/scriptlet.nsf?script=743&deploy=1&compid=1&h=24529a8961d3b2066a2b
2	26.2.2019 12:29 pm	HTTPS	POST	netSuite.com	443	200	1,559	43ab87d8-99da-4227-8e27-35d112815460	CUSTOMSCRIPT_2663_BATCH_PROCESSING_P	https://netSuite.com/app/site/hosting/scriptlet.nsf?script=502&deploy=1&compid=1&h=8a24afa5878ba9ae2e9
3	22.2.2019 11:49 am	HTTPS	POST	netSuite.com	443	206	118	e4f0227-7ffe-4d28-8645-a4a8de34a52	CUSTOMSCRIPT_2663_BATCH_PROCESSING_P	https://netSuite.com/app/site/hosting/scriptlet.nsf?script=743&deploy=1&compid=1&h=24529a8961d3b2066a2b
4	22.2.2019 11:49 am	HTTPS	POST	netSuite.com	443	200	1,311	b066d849-27a1-4d85-9a49-8b79d960971f	CUSTOMSCRIPT_2663_BATCH_PROCESSING_P	https://netSuite.com/app/site/hosting/scriptlet.nsf?script=502&deploy=1&compid=1&h=8a24afa5878ba9ae2e9
5	21.2.2019 3:00 pm	HTTPS	POST	netSuite.com	443	206	152	8f576829-44f9-4a87-9a4a-9f51e29fbaaf	CUSTOMSCRIPT_2663_BATCH_PROCESSING_P	https://netSuite.com/app/site/hosting/scriptlet.nsf?script=743&deploy=1&compid=1&h=24529a8961d3b2066a2b
6	21.2.2019 3:00 pm	HTTPS	POST	netSuite.com	443	200	1,344	7b673697-cd93-4451-8d25-561112c95b7	CUSTOMSCRIPT_2663_BATCH_PROCESSING_P	https://netSuite.com/app/site/hosting/scriptlet.nsf?script=502&deploy=1&compid=1&h=8a24afa5878ba9ae2e9

The Outbound Requests list is also available as a Saved Search. Go to Lists > Search > Saved Searches > New. Select **Outbound Requests** from the list.

Reset of Long-Abandoned Customer Center Passwords

As announced in the 2018.2 release notes, the passwords associated with website customers who met either of the following criteria have been reset:

- The website customer had not logged in within the previous three years.
- It had been more than 90 days since the customer registered a login name and created a password, and the customer never logged in again.

The customer, lead, or prospect records associated with reset passwords still exist in your NetSuite account. Only the password was reset on the records. Users whose passwords were reset can still attempt to log in to your website. These users receive an error message that their password has expired, and that they need to set up a new password. For information on how to customize the expired password error message for your website, see [Customizing Website Text](#).

Account-Specific Domains in NetSuite

An account-specific domain is a domain that is unique for each NetSuite account, because the account ID is a part of the domain. An account-specific domain does not change, even if your account was moved to a different data center. For example, if you were using account-specific domains in your integrations, you would not need to make changes to URLs.

For the last several releases, account-specific domains have been available in production, sandbox, and Release Preview accounts for SOAP web services, RESTlets, and a shop subdomain for WSDK websites.

As of 2019.1, there are several new features available related to account-specific domains. See the following for more information about each of these new features:

- [Announcing Account-Specific Domains for the NetSuite UI](#)
- [Account-Specific Domains Listed on Company Information Page](#)
- [Account-Specific Domains for External Forms](#)
- [Account-Specific Domains Now Available for Special Purpose NetSuite Accounts](#)
- [Account-Specific Domains Reap the Benefits of CDNs](#)

- [Account-Specific Domains and File Cabinet Resources](#)
- [Suitelet External URLs Now Use Account-Specific Domains](#)

Announcing Account-Specific Domains for the NetSuite UI

A new feature, account-specific domains in the NetSuite UI, will be rolling out in the first half of 2019. This feature will be activated on an account-by-account basis, and account administrators will be notified in advance when the feature will be activated in their accounts. The feature will first become available in sandboxes and 2019.1 Release Preview accounts. Then the feature will be activated in production accounts.

The new account-specific domain is in the following format:

<accountID>.app.netsuite.com

Users will still log in to NetSuite from system.netsuite.com. As soon as authentication completes, users are automatically redirected to their account-specific domain.

Users may notice that the URL in the browser looks different and that the URL contains the account-specific domain. For example, if the account ID was 123456, the domain would be 123456.app.netsuite.com. The URL for the home page (the dashboard), for example, would be [https://123456.app.netsuite.com/app/center/card.nl?sc=-29&whence=.](https://123456.app.netsuite.com/app/center/card.nl?sc=-29&whence=)

The <accountID>.app.netsuite.com domain provides a big advantage. Because the account ID is part of the domain, users can have active sessions in different accounts on the same domain, at the same time, with the same browser. Every account (production, sandbox, Release Preview, and other special purpose NetSuite accounts) has a unique account ID. See the following procedure for instructions on how to start and maintain two active sessions in different accounts.

Start and maintain active sessions in production and sandbox accounts simultaneously:

1. Log in to the production account.
2. Select another role in a sandbox account. Right-click and select the option to open in another tab.
3. Click the original tab with your production role and click **Login**.

Account-Specific Domains Listed on Company Information Page

Administrators and other users with adequate permissions can go to **Setup > Company > Company Information** and click the **Company URL** tab to view the account-specific domains available in the NetSuite account. The URLs for account-specific domains are listed for all services where they are available in your account, including:

- Customer Center Login page
- NetSuite UI (new in this release)
- External Forms (new in this release)
- SuiteTalk (SOAP and REST web services)
- RESTlets
- Shop (for WSDK sites)

In the following example of the new Company URLs subtab, the account ID is 123456.

Addresses	Company URLs	System Notes
CUSTOMER CENTER LOGIN https://123456.app.netsuite.com/app/login/secure/privatelogin.nl?c=123456		
NETSUITE UI https://123456.app.netsuite.com		
SUITE TALK (SOAP AND REST WEB SERVICES) https://123456.suitetalk.api.netsuite.com		
RESTLETS https://123456.restlets.api.netsuite.com		
EXTERNAL FORMS https://123456.extforms.netsuite.com		
EXTERNAL CATALOG SITE (WSDK) https://123456.shop.netsuite.com		
SUITEANALYTICS CONNECT odbcserver.na0.netsuite.com:1708		

Save Cancel Reset

Account-specific domains contain the account ID as part of the domain name. The account-specific domain name is not dependent on the data center where an account is hosted. The domain does not change, even if an account is moved to a different data center.

Account-specific domains are returned when using dynamic discovery methods, such as the SOAP web services method [getDataCenterUrls](#), [The REST roles Service](#), or a method in the SuiteScript 2.0 [N/url Module](#). See the help topic [url.resolveDomain\(options\)](#).

It is possible to use an account-specific domain directly in an integration. However, you should use dynamic discovery methods unless there is a specific reason to use an account-specific domain in your integration.

Note: Account-specific domains currently are not available for SuiteAnalytics Connect (ODBC). You can find the host name you should use for your connection in the **Service Host** field on the **SuiteAnalytics Connect Driver Download** page under **Your Configuration**.

Account-Specific Domains for External Forms

The following items now link to account-specific domains:

- Links in email, such as email address verification email and success notification email for bulk merge operation
- External forms
- Campaign Subscription Center

For information about account-specific domains, see the help topic [URLs for Account-Specific Domains](#).

Account-Specific Domains Now Available for Special Purpose NetSuite Accounts

Account-specific domains are now available for special purpose NetSuite accounts. In past releases, account-specific domains were available for REST, SOAP web services, and WSDK sites, but these domains were not available in special purpose accounts. This release extends support for account-specific domains to special purpose account types, including training, sales demo, trial, SuiteCloud Developer Network, Oracle University, and education accounts.

- Account-specific domains contain the account ID as part of the domain name. The account-specific domain name is not dependent on the data center where an account is hosted. The domain does not change, even if an account is moved to a different data center.
- Account-specific domains are returned when using dynamic discovery methods, such as the SOAP web services method [getDataCenterUrls](#), [The REST roles Service](#), or a method in the SuiteScript 2.0 [N/url Module](#). For more information, see the help topic [url.resolveDomain\(options\)](#).

- An account-specific domain can also be used directly in an integration.

Administrators and other users with adequate permission can go to **Setup > Company > Company Information** and click the **Company URL** tab to view the account-specific domains.



Note: Account-specific domains are not currently available for SuiteAnalytics Connect (ODBC). You can find the host name to use for your connection in the **Service Host** field on the **SuiteAnalytics Connect Driver Download** page, under **Your Configuration**.

Account-Specific Domains Reap the Benefits of CDNs

All NetSuite users can enjoy the performance benefits provided by Content Distribution Networks, or CDNs, even when accessing the NetSuite UI using account-specific domains. CDNs cache frequently used content. The presence of CDNs in the global distribution network means faster page load times, especially for users located far from a data center.

Account-Specific Domains and File Cabinet Resources

An account-specific domain contains the account ID as part of the domain name, and it enables an account to be moved to different data centers for improved service. This feature also allows you to work on multiple accounts at the same time in one browser. Due to the implementation of account-specific domains in NetSuite, some hard-coded absolute URLs that point to file cabinet resources must be updated. Links to files posted on an intranet site, or internally in your NetSuite account on a custom tab, that you plan to share, must use the account-specific domain format.

Change in URL Formats

Prior to NetSuite 2019.1, to publish a document internally, you may have copied an absolute URL pointing to a protected file cabinet resource. The URL was likely written in datacenter-specific domain format. When your account is upgraded to use an account-specific domain, you must use a URL that is in an account-specific domain format to view the file successfully.

URLs in **account-specific domain format** include the NetSuite account number in the URL, for example:

```
https://1234567.app.netsuite.com/core/media/media.nl?id=1&c=1234567&h=9999999&_xt=.pdf
```

URLs in **datacenter-specific domain format** show the datacenter in the URL, for example:

```
https://system.na2.app.netsuite.com /core/media/media.nl?id=1&c=1234567&h=9999999&_xt=.pdf
```

A protected File Cabinet resource is a file stored in the NetSuite File Cabinet that is only available after logging in. Typically, this is a file intended for a specific audience, so it is a file that users must log in to view. If you plan to share this type of file, then you must use a URL in account-specific domain format to point to it.

Recommended Action

After your account has been upgraded to use the account-specific domains feature, any absolute URL in data-center specific format, that is pointing to a protected File Cabinet resource, must be changed to use the account-specific domain format. This change must be applied to links that point to files or documents you plan to share. Administrators or individuals with permission to access file cabinet records can make this change. Anyone who clicks on a link created with an absolute URL in data-center specific format will experience a page-not-found error.

Note: If you open a link from an email message, or any other media, and your attempt to access the file fails, you can change the URL in the browser. Note the following example where the account ID is 1234567 and the data center is na2:

This URL returns a page-not-found error: https://system.na2.netsuite.com/core/media/media.nl?id=26&c=1234567&h=9999999&_xt=.pdf. To successfully view the file, edit the URL in the browser to, https://1234567.app.netsuite.com/core/media/media.nl?id=26&c=1234567&h=9999999&_xt=.pdf

Currently, relative URLs are displayed on file records. To get the absolute URL, right click on the URL link in the file record, and then select **Copy link address** from the browser options.

The screenshot shows the NetSuite File record interface. At the top, there are buttons for 'Save', 'Cancel', and 'Reset', followed by an 'Actions' dropdown. The file details include:

- FILE NAME ***: Sales Team Newsletter.doc
- FILE TYPE**: Word File
- FILE SIZE (BYTES)**: 72,704
- FOLDER ***: Sales Tools
- DESCRIPTION**: (Empty text area)
- URL**: /core/media/media.nl?id=29134&c=3925062&h=adccc86e7afb3f1b0600&_xt=.doc
- SELECT FILE**: Choose File | No file chosen

A right-click context menu is open over the URL field, showing the following options:

- Open link in new tab
- Open link in new window
- Open link in incognito window
- Save link as...
- Copy link address** (highlighted with a red box)
- Inspect

When you paste the URL, it includes all the required components including the account-specific domain.

Employee Management

NetSuite 2019.1 includes the following enhancement to Employee Management features:

- Time-Off Management: Accruals Based on Hours Worked for Non-Payroll Customers
- Missing Weekly Timesheets
- Foreign Currency Expense Reports
- Employee Status and Employee Type Categories
- Workforce Analytics Enhancements
- Advanced Employee Permissions Enhancements
- Time-Off Expiry Notification Configuration

- [Classification for Individual Paycheck Line Items](#)
- [Associating Deductions and Earnings Payroll Items with Asset Accounts](#)
- [Corporate Card Expenses Enhancements](#)
- [Weekly Timesheets Improvements](#)
- [Kudos Enhancements.](#)
- [Enhanced Access to Employee Reports](#)
- [HR Dashboard Components](#)
- [Employee Directory and Org Browser Enhancements](#)

Time-Off Management: Accruals Based on Hours Worked for Non-Payroll Customers

If you are not a NetSuite Payroll customer, when you create time-off rules within a time-off plan, you can now set up a time-off type to accrue based on hours worked. Previously, accruals based on hours worked were available only to NetSuite Payroll customers.

Accruals based on hours worked require the Time Tracking feature. After supervisors review and approve time records, accrued time off is calculated based on hours worked and the rate indicated in the time-off rule. The accrued time off is then added to employees' time-off balances.



Important: To use accruals based on hours worked, time records must be approved by supervisors. In Accounting Preferences, on the Time & Expenses subtab, make sure the **Require Approvals on Time Records** box is checked.

Missing Weekly Timesheets

The following new fields have been added to the Weekly Timesheet:

- Submitted hours – Sum of pending and approved hours.
- Rejected hours – Sum of hours with rejected status.
- Planned hours – Sum of planned hours. This field is only available when Project Management and Show Planned Time in Time Entry preference are enabled.
- Allocated hours – Sum of allocated hours. This field is only available when Resource Allocations is enabled.
- Work Calendar hours – Sum of expected hours based on the employee work calendar.

All of these new fields are automatically calculated and hidden by default. You must customize your weekly timesheet entry form to show these fields in the user interface.

You can use these fields to create saved searches and add dashboard reminders to track incomplete timesheets. Missing timesheets are now automatically created for the current week and the previous five weeks on the first day of the week for active employees and project resources.


Foreign Currency Expense Reports

In NetSuite 2019.1, employees can now create expense reports in currencies other than your default currency. The Multiple Currencies feature is required to create foreign currency expense reports.

You can define employee currencies for expense reports on the employee record under Human Resources > Expense Report Currencies. Only currencies available for your company can be added to an employee's expense report currencies.

Currency and Exchange Rate fields have also been added to the expense report form. An employee's default currency is automatically selected. You can select a different currency based on the currencies defined on the employee's record. If you change the currency on a new expense report after entering expense lines, the existing lines are not automatically updated.

When creating a bill payment for an expense report, in the currency field, you can select a currency from the employee's list of defined currencies.

 **Note:** Expenses can be paid through NetSuite Payroll only if the reimbursement currency is set to United States Dollars.

Employee Status and Employee Type Categories

In NetSuite 2019.1, you can assign a category to an employee status and an employee type. Employee status categories enable Human Resources to classify and track the stages of employment that employees move through in your company. Employee status categories include prehire, actively employed, leave, and terminated. Employee type categories are used to represent the legal relationship between the company and the employee. Employee type categories include contingent, contractor, non-worker, and permanent.

Each category ships with pre-defined employee statuses and types. By default, these statuses and types are marked inactive. To assign them to employees these statuses and types will need to be made active. When a category is assigned to a status or a type it is permanent and cannot be changed. For more information, see the help topic [Setting Up Employee Related Lists](#).

Workforce Analytics Enhancements

In NetSuite 2019.1, headcount, hire, and turnover trends can be filtered by employee type categories. Employee type categories include contingent, contractor, non-worker, and permanent. For more information about the Workforce Analytics feature, see the help topic [Workforce Analytics Overview](#). For more information about employee type categories, see the help topic [Setting Up Employee Related Lists](#).

Advanced Employee Permissions Enhancements

In 2019.1, when the Advanced Employee Permissions feature is enabled it now includes the Employee Access permission. A role with this permission can give access and assign roles to employees who fall into the restriction policy defined on their role. This permission is not automatically assigned to any role when the feature is enabled and must be manually added. For more information, see the help topic [Employee Access Permission Overview](#).

Time-Off Expiry Notification Configuration

In NetSuite 2019.1, you can now specify whether expiry notifications appear for a specific time-off type within a time-off plan. Previously, expiry notifications appeared for all time-off types. When you create a time-off rule, to turn on expiry notifications, you can check the Show Balance Expiry box. Notifications appear in the Employee Center when employees have time off that expires within the current or the next calendar month.

In existing time-off rules that were created before your account is updated to 2019.1, the Show Balance Expiry box is checked by default. To turn off expiry notifications, clear the Show Balance Expiry box.

Classification for Individual Paycheck Line Items

With NetSuite Payroll, on individual paycheck line items, you can now classify earnings, deductions, taxes, or company contributions by department, location, or class. The Departments, Locations, or Classes features must be enabled in your NetSuite account. Previously, you could classify an entire paycheck, but not individual line items.

To classify individual paycheck line items, you can check the Classify Individual Paycheck Lines box on paycheck records, or you can set a payroll preference so that the box is checked by default.

Also, department, location, and class values from time entries now automatically appear as read-only fields on paycheck records.

Associating Deductions and Earnings Payroll Items with Asset Accounts

In NetSuite 2019.1, the Expand Account List for Payroll Items preference, which was introduced in 2018.2, has additional functionality. You can now choose to associate deduction and earning payroll items with asset accounts. When deductions are posted to asset accounts, the asset account is credited in the general ledger. When earnings are posted to asset accounts, the asset account is debited in the general ledger.

Corporate Card Expenses Enhancements

Employees whose companies pay corporate credit card bills directly now have the ability to differentiate personal expenses charged to a corporate card using expense categories.


To use personal corporate card expenses, check the Personal Corporate Card Expense box on expense category records. When employees enter expense reports, they can select any personal corporate card expense category to indicate that the line item is not a company expense. Only one personal expense category may be used on a single expense report.

Note: Corporate card expense categories can only use other asset accounts. If your company does not use expanded account lists, the corporate card field on expense categories is disabled. Any expense category attached to an other asset account is automatically designated a corporate card expense. To enable the expanded account list preference, go to Setup > Accounting > Preferences > Accounting Preferences > General Ledger.

Weekly Timesheets Improvements

In NetSuite 2019.1, the following improvements have been made to Weekly Timesheets:

- When entering time on a weekly timesheet, you can now edit empty or open time entries in rows with locked entries. Time entries with a status of approved or pending approval are locked for editing.
- The Approve Time page now remembers the last view (Timesheet or Time Entry) used to approve time. Previously, the Approve Time page always loaded in the Timesheet view..

 **Note:** The Approve Time page has a new URL. Any bookmarks you may have to the previous Approve Time page should be updated.

- The Post Time page now includes a date range filter. Job Costing and Project Budgeting is required for posting time.
- You can now sort time entries on weekly timesheets in view mode only.
- Weekly timesheets are now available in the Recent records menu.

Kudos Enhancements

In NetSuite 2019.1, you can now rename Kudos in the Employee Center to better reflect your company culture. For more information, see the help topic [Kudos](#).

Item Record Management

NetSuite 2019.1 includes the following enhancement to Item Record Management features:

- [Commerce Categories on the Item Record](#)
- [CSV Import of Item Location Configuration](#)
- [Fulfill and Receive Service Items](#)
- [Allergen Statements](#)
- [Effective Date Pricing Now Available](#)

Commerce Categories on the Item Record

This release brings important Commerce Category information and reporting to item records. You can now see a list of all the Commerce Categories an item is assigned to on the Item Record. This information is located on the Web Store subtab of the Commerce Categories subtab. The following information is listed for each category:

- Site
- Commerce Catalog
- Commerce Category
- Primary Category Assignment Yes/No
- Inactive Category Yes/No
- Category Start Date and Time
- Category End Date and Time

The Item Record search now also lets you include Commerce Category information in the item list and filter the list based on Commerce Categories. You can also create item saved searches with Commerce Category information results and criteria. Fields available for search include the following:

- Commerce Catalog
- Commerce Category
- Commerce Category End Date
- Commerce Category Is Inactive Yes/No
- Commerce Category is Primary Yes/No

- Commerce Category Name
- Commerce Category Start Date

See the help topic [View Commerce Category Assignments for Items](#) for more information.

CSV Import of Item Location Configuration

Previously, when using the Advanced Item Location Configuration feature, item location attributes had to be set or updated individually and manually for each location. Now, item location attributes can be set or updated using the CSV import process.

Item location attributes may need to be added when a new location is added. If an item has a new vendor lead time, that update may need to be made across locations. Now, you can make these changes more easily by mass updates using CSV Import.

To import CSV records for Item Location Configuration, use the CSV import assistant at Setup > Import/Export > Import CSV Records.

You can still manually update individual items and location attributes, if needed.

Fulfill and Receive Service Items

As of NetSuite 2019.1, when you use the Projects feature, the following is now true:

- You can create a non-inventory item regardless of whether the Can Be Fulfilled/Received box is checked.
- You can create a service item regardless of whether the Can Be Fulfilled/Received box is cleared.
- You can edit non-inventory and service items and clear the Can Be Fulfilled/Received box, if checked.
- You can edit service items, but you cannot check the Can Be Fulfilled/Received box, if cleared.
- You can edit non-inventory items, and you can check the Can Be Fulfilled/Received box, if cleared.

Inventory Management

NetSuite 2019.1 includes the following enhancements to Inventory Management features:

- [Inventory Costing Enhancements](#)
- [Control Tower Snapshot Enhancements](#)
- [Quality Management](#)

Inventory Costing Enhancements

When using the Inventory feature, the following enhancements have been made for managing inventory costing.

- **Allow Inventory Transactions Dated Outside the Posting Period**
To ensure your employees adhere to required accounting practices, set the preference that prevents setting a transaction date that is outside the correct posting period. Set the Allow Inventory Transactions Dated Outside the Posting Period preference at Setup > Accounting > Accounting Preferences.
- **Deleting a Standard Cost Item**

When you use the Standard Costing feature, administrators now receive a warning message when deleting an item that has a standard cost, either active or historical. This is done to help preserve the integrity of the data used to evaluate items' inventory costs. For example, this happens when the unit cost of an item is found in inventory revaluation transactions and not on item records.

Before you can delete such an item, you must first delete the standard cost on the inventory revaluation transaction. The warning message displays a link to the revaluation transaction that includes the standard cost.

Control Tower Snapshot Enhancements

Now, when you use the Supply Chain Control Tower feature, you can better analyze inventory supply and demand and more efficiently plan future purchases and product line production.

To use the new fields below on Supply Chain Snapshots, you must use Advanced Inventory Management with these features enabled: Inventory, Multi-Location Inventory, Supply Chain Control Tower. Inventory must be enabled for Supply Chain Control Tower.

Customize your Supply Chain Snapshot page to use the following new fields:

- Entity – Add the Entity field to the show information about the vendor or customer in the Supply Chain Snapshot.
- Original Transaction Date – Add the Original Transaction Date field to show the Original Transaction Date in the Supply Chain Snapshot.
- Past Due Date – Add the Past Due Date field to show the number of days past due in the Supply Chain Snapshot.
- Status – Add the Status field to show the transaction status in the Supply Chain Snapshot. When your custom snapshot form shows the Status field, you can additionally choose to filter the list by transaction status using the Filters field on the Available Filters subtab.

To create custom Supply Chain Snapshot forms that show these fields, click Customize View. In the Field list, select the appropriate field value and click Add. Then, click Save.

Manufacturing

NetSuite 2019.1 includes the following enhancements to Manufacturing features:

- [Editing Legacy Bills of Material \(BOMs\)](#)
- [Decimal \(non-integer\) Resource Values in Work Center](#)
- [Buildable Quantity Field in Saved Searches](#)
- [New Item Record Communications Subtab](#)
- [CSV Import for BOM and BOM Revisions](#)
- [Advanced Manufacturing](#)

Editing Legacy Bills of Material (BOMs)

After you enable the Advanced BOM feature, existing Bills of Materials (BOM) are automatically converted to read-only legacy BOM records. A legacy BOM is a snapshot of an assembly and its components at the time of conversion.

You might want to use Advanced BOM, but do not want to copy legacy BOMs. As of NetSuite 2019.1, you can now edit legacy BOMs.

After you enable legacy BOM editing, you cannot disable the Advanced BOM feature. You should test this feature in your sandbox account before turning it on in your production account.

To learn more, see the help topic [Migrating to Advanced BOM](#).

Decimal (non-integer) Resource Values in Work Center

Manufacturing resources, such as labor and machines, often work in more than one work center during a shift.

NetSuite 2019.1 enables you to enter decimal amounts to better represent resource allocation to multiple work centers, which in turn more accurately defines costs and work centers.

For example, Wolfe Manufacturing builds bicycles. Assemblers spend half the day welding steel frames and the other half of the day building bicycles. When entering labor resources, the planner can now allocate 0.5 labor resources to the Welding Work Center and 0.5 to the Bicycle Assembly Work Center.

Static Employee Group
Welding center (CZE)

Edit Back Mass Update Actions

NAME: Welding center (CZE) EMAIL:
TYPE: Employee COMMENTS:
OWNER: PRIVATE
RESTRICT TO:
RESTRICT GROUP EDITING TO OWNER

Members Events Files Notes Bulk Merge **Manufacturing Work Center Settings**

SUBSIDIARY: CZE subsidiary
MACHINE RESOURCES: 1
LABOR RESOURCES: 0.5
WORK CALENDAR: 9:00 am, 8 hrs: Mo,Tu,We,Th,Fr

Edit Back Mass Update Actions

To learn more, see the help topic [Creating Manufacturing Work Centers or Groups](#).

Buildable Quantity Field in Saved Searches

With NetSuite 2019.1, you can now use the Buildable Quantity field in saved searches to improve visibility into manufacturing analytics. For example, you can search for Work Order Quantity and Buildable Quantity (number of components available) to learn which work orders are ready to be built or can be partially built by.

This feature is available for both Manufacturing Routing Work Orders and Conventional, or non-routing, Work Orders.

The following changes have been made to the user interface:

- A Buildable field now appears on work orders that displays the number of components available for the work order.
- The Buildable field is now an available filter in a transaction search.
- In a transaction search, the Buildable field is now available to select to appear in search results.

New Item Record Communications Subtab

A Communications subtab has been added to the 2019.1 Manufacturing item record. This subtab includes Activities and Files subtabs that enable you to share knowledge interdepartmentally, reduce paper, and create daily activity reminders.

For example, you could create one activity to set up the assembly work center. A second activity could remind you to attach the assembly instructions, and a third to start assembling green bicycles.

EDIT	TITLE	DATE	TIME	OWNER
Edit	Assemble Green Bicycles	12/10/2018	9:00 am	Dan Boylan
Edit	Setup Bicycle Assembly Work Center	12/10/2018	8:00 am	Dan Boylan
Edit	Attach Assembly Instructions	12/10/2018	8:00 am	Dan Boylan

Then, on the Files subtab tab, attach the Bicycle Assembly instructions.

ATTACHED FILES	FOLDER	SIZE (KB)	LAST MODIFIED	DOCUMENT TYPE
Bike Assembly.docx	Attachments Received	44	12/5/2018 6:23 am	Word File

The Item Record Communications subtab is available in the following items and records:

- Inventory Items
- Service Items
- Non-inventory Items
- Other Charge Items
- Kit/Package Items
- Group Items
- Gift Certificates
- Bills of Materials
- Bill of Materials Revisions
- Manufacturing Routing

CSV Import for BOM and BOM Revisions

NetSuite 2019.1 enables customers to use CSV import to update or upload BOM and BOM Revisions.

This enhancement helps improve and accelerate your initial data loads, mass updates, or mass loads of BOMs or BOM Revisions.

To learn more, see the help topic [Importing CSV Files with the Import Assistant](#).

Order Management

NetSuite 2019.1 includes the following enhancements to order management features:

- [Adding Items to an Existing Subscription](#)
- [Installment Billing](#)
- [Off-Cycle Invoicing with Modify Pricing Change Orders](#)
- [Recurring Amount on SuiteBilling Subscription Lines](#)
- [SuiteBilling Joins for Search and Advanced Search](#)
- [Electronic Bank Payments Enhancements](#)
- [Inbound Shipment Management](#)
- [Time-Based Pricing SuiteApp Rename and Subscription UI Enhancements](#)
- [Electronic Invoicing Enhancements](#)
- [Enhancements to Japanese Invoicing and Localization Features](#)
- [Support for Singapore and Malaysia Electronic Payment File Formats](#)
- [New SuiteApp for Mexico Localization](#)
- [VeriTrans and PayU Payment Gateway Temporary Retirement](#)
- [Malaysia Invoice and Credit Note Templates](#)
- [More Electronic Payment File Formats for Singapore and Malaysia](#)
- [Order Guides](#)
- [Enhanced Validations and Defaulting Now Available](#)
- [Grid Order Management Enhancements](#)

Adding Items to an Existing Subscription

The Add-On Items feature lets you add subscription items to any subscription, either at the time-of-sale, or during the subscription term. After the Add-On Items feature is enabled, you can create customized subscriptions without modifying the subscription plan. You set the price for each add-on item as you add it. The Add-On Items feature eliminates the need to create a new subscription plan and subsequent subscription to add items during the subscription term. For details, refer to [Adding Items to an Existing Subscription](#).

Installments

The installments feature allows your customers to pay for goods or services over installment terms. Installment payments can be split evenly or have different payment amounts for each installment. The first installment payment includes all taxes associated with the purchase.

Installment Billing

Installments are created on the term record. Check the Installment box on the term record to create the installment terms. When the Installment box is checked, you can only edit the fields associated with installments. All other fields are unavailable.

Installments are added to sales orders from the Billing subtab. When items are billed and fulfilled, an invoice is generated. For information on creating and billing installments, see the help topic [Creating Installments](#).

Installment Payments

The Installment Payments release note is located in the Vendors, Purchasing, and Receiving section. To view the Installment Payments release note, see [Installment Payments](#).

Off-Cycle Invoicing with Modify Pricing Change Orders

There is a new SuiteBilling change order. The off-cycle modify pricing change order is similar to the existing modify pricing change order. The difference is that you can now modify prices off-cycle. When you modify pricing off-cycle, you must process billing operations to process charges or a credit memo. For more information, see the help topic [Off-Cycle Invoicing with Modify Pricing Change Orders](#).

Recurring Amount on SuiteBilling Subscription Lines

You can now view recurring amount data for existing subscription price interval lines and subscription change order lines. On a subscription pricing line, the recurring amount is calculated from your set values for the Quantity, Price Plan, and Discount fields. The dynamically calculated recurring amount appears in the Pricing subtab and in modify pricing change orders. You can find a recurring amount by entering the subscription line name in a search.

SuiteBilling Joins for Search and Advanced Search

New joins have been added to help SuiteBilling customers expand their advanced search and saved search capabilities. For example, Price Plan is available as a join from the Price Book record.

The following list indicates the record and new joins:

- Price Book and Price Plan
- Price Book and Subscription Plan
- Subscription and Subscription Line
- Subscription and Subscription Change Order
- Charge and Usage
- Price Plan and Pricing Interval

Joins have an ellipsis (...) after the name of the record. Price Plan... is an example.

The following columns have been added to the Price Plan search:

- Start Date
- Interval Status
- Quantity
- Discount
- Charge Frequency
- Repeat Every

For more information about searches, see the help topic [Defining an Advanced Search](#).

Projects

NetSuite 2019.1 includes the following enhancements to Projects features:

- [Resource Groups](#)
- [Charge Based Billing Support for Purchases](#)
- [Default Configurations for Advanced Project Profitability](#)
- [Advanced Project Profitability Improvements](#)
- [Project Management Improvements](#)

Resource Groups

In NetSuite 2019.1, you can now assign a group of resources to a project task at the same time. Resource groups enables you to create a group of resources to be assigned together to a single project task. For example, if you have a group of engineers that typically work on tasks together, you can create a resource group for those engineers. Then, when creating project tasks, you can assign the group to the task instead of each individual engineer.

When assigning groups to a project task, you can choose to divide the estimated work evenly across the members of the resource group or you can assign each member the estimated work entered for the task.

For more information, see the help topic [Creating Resource Groups](#).

Charge Based Billing Support for Purchases

Using Charge Based Billing, you can now create purchase charge rules to automatically generate charges for items and services purchased for your projects from purchase orders and vendor bills. Previously, Charge Based Billing did not support purchase transactions.

Project charge rules enable you to add a markup to your generated charges. Adding a markup increases the total charge by the selected amount. You can also define filters to limit which purchase transactions should be included.

Default Configurations for Advanced Project Profitability

In NetSuite 2019.1, you can now edit and save the standard configuration for Advanced Project Profitability and your default reports are automatically updated. Previously, you could not edit the standard configuration or standard reports. Any custom configurations generated reports in the Saved Reports menu.

When creating a new configuration, the standard configuration is automatically populated eliminating the need to create a configuration from scratch.

Advanced Project Profitability Improvements

Advanced Project Profitability now supports the addition of any expense category. Previously, expense categories without an item were grouped together and could not be added individually. When defining rows for custom configurations, Expenses without Items has been replaced with Uncategorized Expenses. You can also choose to add all expense categories or individual expense categories.

You can now customize your project profitability reports to include the entity associated with the listed transaction. For example, for time transactions showing on your profitability report, the project resource tracking time would appear in the report.

Improvements have been made to the speed which the project profitability reports appear by preloading and caching the last accessed data. Now, when you open a project profitability report, the last loaded date automatically appears without requiring you to wait for the report to be calculated. All profitability data is automatically calculated once per day. At the bottom of the report, you can see the date and time of the last data calculation. You can also click the Recalculate button to manually trigger a recalculation.

Project Management Improvements

In NetSuite 2019.1, you can now use the bulk task reassignment functionality without using the Resource Allocations feature. You can also pick the tasks for reassignment directly in the pop up window.

You can now change the customer on an existing project if the project does not have any associated transactions. In View mode, click the Customer Change button. You can select a new customer in the popup window and decide to recalculate rates based on the new customer's defined rates. When changing a project's customer, you can only choose customers that support the same currency and subsidiary as the original customer.

When creating projects from sales transactions, opportunities and estimates are now available to generate projects.



Important: A new permission, Create Projects from Sales Transactions, is required to create projects from sales transactions. Roles with this new permission can create projects from sales transactions using templates without requiring the individual permissions for each project element.

Previously, no specific permission was available for generating projects from sales transactions. The individual permissions for each project element were required.

You must review any standard and custom roles that need the ability to create projects from sales transactions. Add the Create Projects from Sales Transactions permission to any role you want to be able to create projects in bulk.

Vendors, Purchasing, and Receiving

NetSuite 2019.1 includes the following enhancements to the vendors, purchasing, and receiving features:

- [Installment Payments](#)
- [Vendor Payment Approvals](#)

Installment Payments

Previously, each vendor bill identified a transaction date, a single amount, and a single due date. As of NetSuite 2019.1, using the Installments feature, the total amount for a vendor bill can be divided into several parts to be paid in installments. Each individual installment payment can have a distinct due date.

For example, a vendor bill total is \$120. This total can be broken into three installments of \$40 each, as follows:

- Installment 1 – Total due = \$40, Due Date is October 30
- Installment 2 – Total due = \$40, Due Date is November 30
- Installment 3 – Total due = \$40, Due Date is December 30

Previously, the due date was used only for calculating how much of the balance was overdue and for calculating finance charges on late payments. Now, aging is based on the due date, not the transaction date. Single or multiple payments can be made either before or after the due date.

The vendor bill posts to the Accounts Payable account on the payment transaction date, but, now you can pay amounts on different due dates as determined by the defined installment terms.

Enable the Installments feature at Setup > Accounting > Accounting Preferences. Click the Accounting subtab, check the Installments box, and then click Save.

For information about Installment billing, see [Installment Billing](#).

Vendor Payment Approvals

Previously, SuiteFlow workflows could not be used for vendor payments. Now, SuiteFlow workflows can be used for vendor payments to provide additional flexibility to review and evaluate vendor payments before approving or rejecting them.

When you enable approval routing for use with vendor payments, you can create an approval rule to define approval preferences to prompt approval routing. You can specify a specific vendor payment approver on the employee record and set approval limits on employee records.

Taxation

NetSuite 2019.1 includes the following enhancements to taxation features:

- [Tax Point Date for SuiteTax](#)
- [Making Tax Digital Support for UK VAT](#)
- [Enhancements to Making Tax Digital for UK VAT](#)
- [New China Golden Tax System API](#)
- [New China Golden Tax System API](#)
- [New Country Tax Reports for SuiteTax](#)
- [Malaysia Sales and Service Tax \(SST-02\) Return](#)
- [Malaysia Sales and Service Tax \(SST-02\) Return Updates](#)
- [India Localization SuiteTax Engine GST Enhancements](#)
- [India Localization SuiteTax Reports Enhancements](#)
- [Germany Monthly/Quarterly VAT Return Update](#)
- [Germany Annual VAT Return Updates](#)
- [Belgium Intrastat Report Update](#)
- [Mexico Reduced VAT Rate](#)
- [Mexico Tax Audit Files Field Mapping Update](#)
- [France Fichier d'Ecritures Comptables \(FEC\) Enhancement](#)
- [Mexico Declaración Informativa de Operaciones con Terceros \(DIOT\) Enhancement](#)

Tax Point Date for SuiteTax

In NetSuite 2019.1, SuiteTax introduces a new **Tax Point Date** field on transactions. The date selected as tax point date determines the rules and reporting date for VAT (sales tax) and may vary for individual countries. The tax point date may differ from the transaction date. The transaction date determines the GL impact for accounting purposes.

For more information, see the help topic [Tax Point Date](#).

User Interface

NetSuite 2019.1 includes the following enhancements to the NetSuite User Interface:

- [User Interface Enhancements to Dashboards](#)
- [Account-Specific Domains Listed on Company Information Page](#)
- [Enhancement to NetSuite Customer Support Case Submission Form](#)
- [NetSuite User Group Moved to Oracle Communities](#)

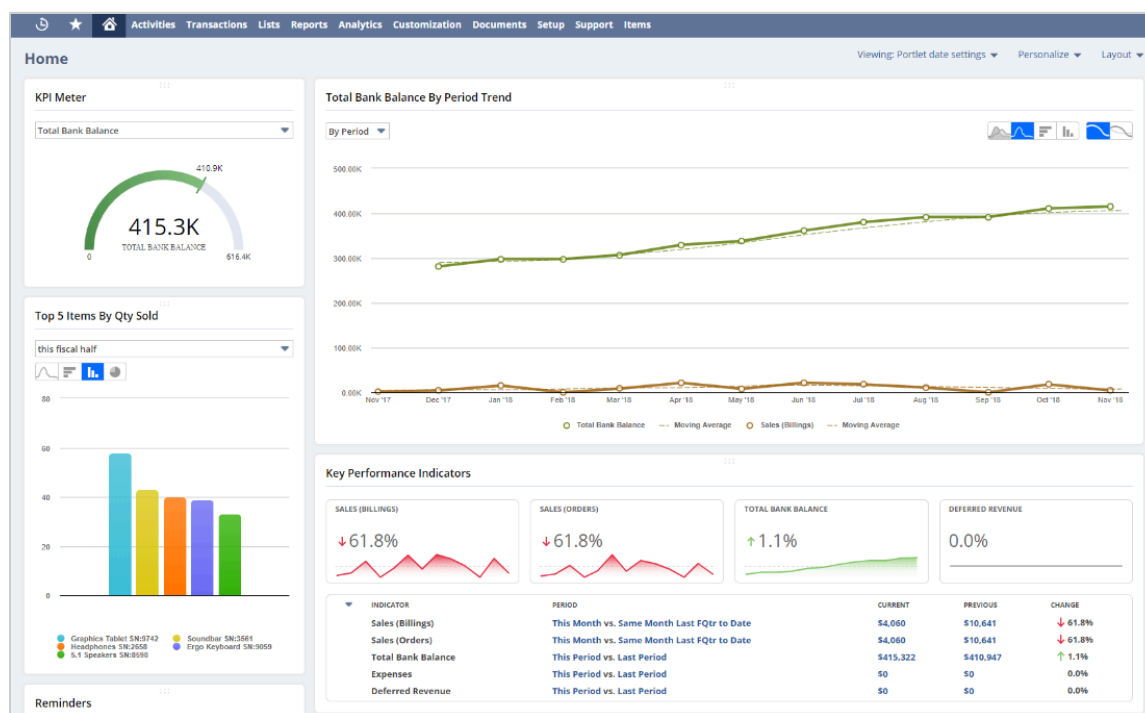
User Interface Enhancements to Dashboards

As of 2019.1, a number of visual and functional enhancements have been made to NetSuite dashboards. The main changes are the following:

- [New Dashboard Look and Feel](#)
- [New Analytics Portlet](#)
- [Feature Enhancements to Specific Portlets](#)
- [Enhancement to Personalize Dashboard Palette Navigation](#)
- [Visual Enhancements to Portlets](#)

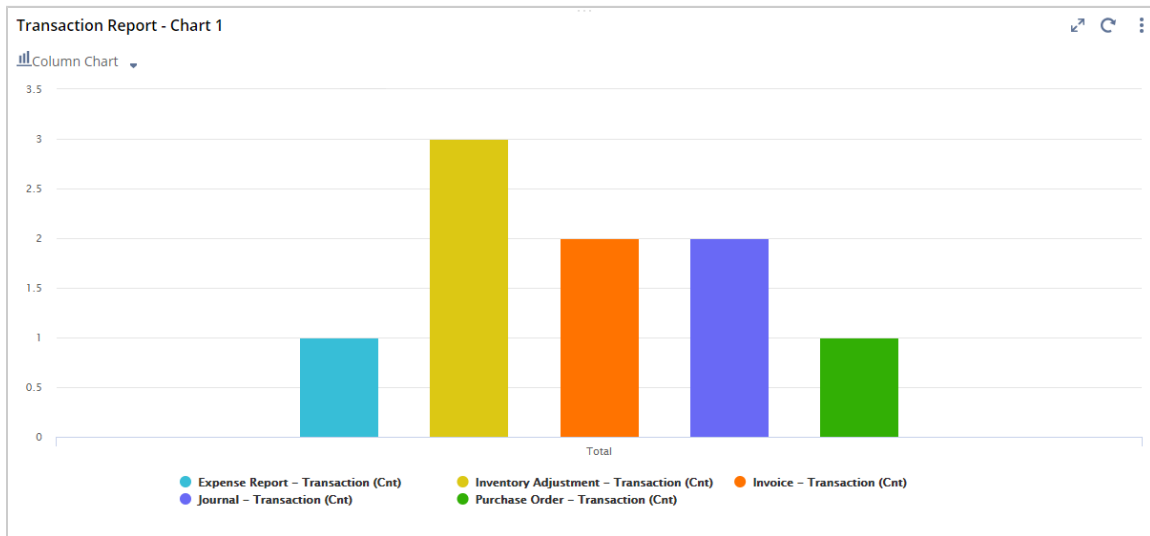
New Dashboard Look and Feel

The design of the user interface has been refreshed to be more modern. The new design improves readability and enables you to have a visual overview of the data on your dashboard.



New Analytics Portlet

A new Analytics Portlet enables you to view your chart-based workbook data at a glance on your home dashboard.

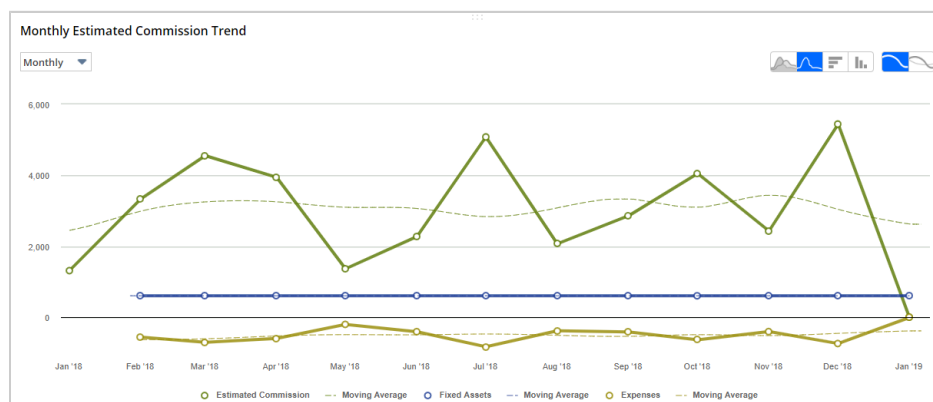


For more information about setting up this portlet, see [New Analytics Portlet for SuiteAnalytics Workbook](#).

Feature Enhancements to Specific Portlets

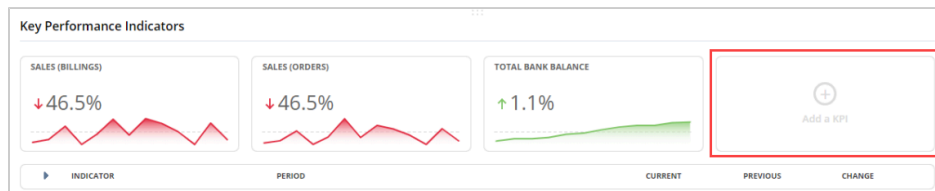
The following portlets include functional enhancements as of 2019.1:

- Trend Graph portlet
 - Add up to three KPIs – The comparison capabilities of the portlet have been improved. Prior to this version, the portlet showed the differences in data over time for one Key Performance Indicator (KPI). You can now compare up to three KPIs in a single chart.

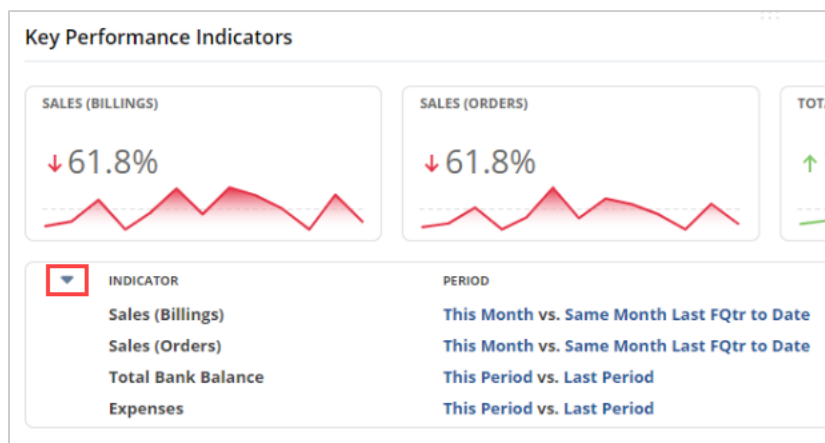


For more information about adding multiple KPIs to the Trend Graph portlet, see the help topic [Trend Graph Portlets](#).

- Key Performance Indicators portlet
 - Quickly add KPIs – Prior to 2019.1, you could only add KPIs to the portlet using the **Set Up** option. Now you have the possibility to add up to four KPIs by clicking the **Add a KPI** icon.



- Trend graphs for all KPIs displayed as headlines – Up to four KPIs can be displayed as headlines to see the data you consider the most relevant. In previous versions, headlines appeared in bold with a red or green arrow. Now, a trend graph is included for each KPI headline.
- Compact format for the list of KPIs – Prior to 2019.1, a horizontal scroll bar was needed to see the hidden data in the portlet rows. This scroll bar is no longer needed as the new condensed format enables you to see all data at a glance.
- Expand/collapse settings – You can now collapse and expand the list of KPIs as needed. Before this release, the complete list of KPIs was displayed with no expand/collapse setting available.



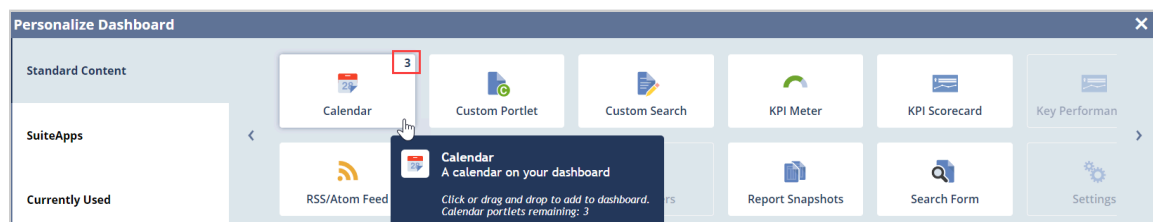
For more information about setting up this type of portlet, see the help topic [Setting Up the Key Performance Indicators Portlet](#).

Enhancement to Personalize Dashboard Palette Navigation

The number of icons in the Personalize Dashboard palette has been significantly reduced, enabling you to quickly find the portlet that you want to add.

Prior to 2019.1, the palette displayed all of the available portlet icons. For example, if you still had three available Calendar portlets, the palette would display three Calendar portlet icons.

As of 2019.1, there is a single icon for each portlet type, which includes a badge count. Therefore, the Personalize Dashboard palette displays one icon with the number three to indicate the number of portlets that you can add to your home dashboard.





This new design also optimizes the palette structure by reducing the maximum number of tabs on the left from five to three. The number of tabs on the left depends on the assigned role, permissions, and dashboard setup. By default, all users can see the following tabs:

- Standard Content – Includes all available portlets except for the SuiteApps portlets.
- Currently Used – Includes the portlets that are currently used on the dashboard. This tab enables you to remove the currently used portlets quickly.

Visual Enhancements to Portlets

The following changes align the appearance of portlets with the new look and feel of the dashboard:

- The menu icon for portlets has changed. The three-line menu icon  is now replaced by the three-dot menu icon .
- Prior to NetSuite 2019.1, titles were duplicated in both the portlet and the chart header. The title is now displayed in the portlet header only.
- The semicircular meter of the Key Performance Indicator (KPI) Meter portlet has been enhanced with light colors and a refined design.
- The background color of portlet headers has been removed.
- The portlet borders have been rounded.

Enhancement to NetSuite Customer Support Case Submission Form

A new field labeled Timezone has been added to the Case Submission Form of NetSuite Customer Support (SuiteAnswers). The Timezone field is located right below the Phone field and will allow users to specify the time zone they are located in, improving the users' experience with NetSuite Customer Support. The Timezone field behaves differently, depending on whether the user submitting the case is an Authorized Contact or not.

- For Authorized Contacts the Timezone field defaults to the value set on the Authorized Contact record, but can be changed from the time zones dropdown list.
- For Non-Authorized Contacts the Timezone field stays blank and the user can select the time zone from the time zones dropdown list.

NetSuite User Group Moved to Oracle Communities


As of April 2019, the NetSuite User Group has migrated to the Oracle Technology Network (OTN). As part of this migration, users are required to have an Oracle account to log in and create content on the updated Oracle NetSuite community.

Oracle accounts have been created for previously registered users of the NetSuite User Group. These users should have received email notification about this change. These users can go to [Oracle NetSuite Community Registration FAQ](#) to complete the registration process. New users also follow the instructions on this page to create a new Oracle account and register for the Oracle NetSuite community.

After registration, users can go directly to the Oracle NetSuite community site at <https://community.oracle.com/community/netsuite>. This site includes a banner at the top that links to tips for getting started with Oracle communities, as well as an introductory video.

Commerce Applications

The latest version of SuiteCommerce, **2019.1**, includes the following enhancements:


 **Important:** SuiteCommerce Advanced releases are available as unmanaged bundles. Accounts are not automatically upgraded to the latest version during the standard NetSuite phased release process. For existing implementations, taking advantage of enhancements in a given SuiteCommerce Advanced release requires you to migrate changes into your existing code base. For details, see the help topic [Update SuiteCommerce Advanced](#).

- [SuiteCommerce Extension Management Updates](#)
- [My Account Columns Management](#)
- [Order Visibility for Business Customer Contacts](#)
- [Default Product Images](#)
- [SuiteCommerce Configuration Changes](#)
- [Payment Instruments Support](#)
- [SuiteCommerce SuiteTax Support](#)
- [Changes to Shipping and Payment Interfaces](#)
- [HTTP/2 Compliant SuiteCommerce Site Headers](#)
- [SuiteCommerce Extension Management Updates](#)
- [Page Type and Layout Extensions](#)
- [Node.js Requirement Change](#)
- [Extensibility API Components](#)
- [Secure Shopping Support for Site Builder](#)

Complete release notes are available here: [2019.1 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 SuiteCommerce Extensions](#).

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

Site Management Tools

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

- [Page Layout Selector](#)
- [Published Assets](#)

Page Layout Selector

The Site Management Tools Layout Selector requires SuiteCommerce or the 2019.1 release of SuiteCommerce Advanced or greater. The Layout Selector lets you select and apply different layouts to the landing and enhanced pages on your site. Available layouts are dependent upon the page type and

the layouts that have been defined for the page type. With the initial release, the core page types of home page, product detail page, and facet search page include only the default layout.

Developers can create extensions to provide additional layouts for different page types.

You can access the layout selector by selecting the Layouts tab on a page's settings in the side panel. When you select a layout, the page preview automatically updates to the selected layout. For more information on the Layout Selector see [Page Layout Selector](#). For information on creating page types and layouts, see the help topic [Create Page Types](#). The page settings now includes a Layout subtab where you can select a layout from available layouts. When you select a layout, the page preview automatically updates to the selected layout.

Published Assets

The Published Assets view gives you more ways to manage your existing content. This new view shows all your currently published assets and lets you edit multiple pieces of content and pages at one time. The Published Assets view is available in Overview mode. Your content is grouped together by URL. For example, all content items listed on the /about-us page are grouped together and content items on the /back-to-school page are grouped together.

You can filter the view of your assets the following ways:

- **Visibility** – This lets you filter for content that is currently visible or content with a future start date.
- **Content Type** – This lets you filter your content by type such as HTML, image, text, or page.
- **Location** – This lets you filter by the URL of your content.

Click **Edit Tags** to make changes to your tags and save them. Click **Edit Visibility** to make changes to your visibility dates and save them. Similar to most other content on your site, you must publish the changes before the edits are applied to your content.

See the help topic [Published Assets](#).

Commerce Merchandising

NetSuite 2019.1 includes the following enhancements to commerce merchandising features:

- [Assigning or Removing Items in a Merchandise Hierarchy With the Hierarchy Manager](#)
- [Customer Specific SuitePromotions](#)
- [Enhanced Search Experience with Commerce Search Synonyms](#)

Assigning or Removing Items in a Merchandise Hierarchy With the Hierarchy Manager

Prior to NetSuite 19.1, users were only able to assign or remove items in a merchandise hierarchy from the item record or via CSV import. This feature enhances the Hierarchy Manager interface allowing users to assign or remove items to a hierarchy node directly from the Hierarchy Manager.

For more information, see the help topic [Assigning Items to a Hierarchy Node](#).

Customer Specific SuitePromotions

Prior to NetSuite 2019.1, you could create promotions targeted at specific customer categories. Customer Specific Promotions now lets you create a promotion destined for one or more customers, or a customer group.

Customer groups can be either static or dynamic. For dynamic customer groups, to optimize the performance when applying the promotion to transactions, you can choose to use a cached version of the results, or you can run the dynamic customer group every time the promotion is applied.

For more information, see the help topic [Setting Customer Eligibility on SuitePromotions](#).

Enhanced Search Experience with Commerce Search Synonyms

The Search Synonyms feature is now available to all SuiteCommerce and SuiteCommerce Advanced customers. You can define synonyms in NetSuite to ensure that when a shopper searches for a specific word, the search results also include synonyms for that word.

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](#).

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 2019.1 includes the following enhancements:


- [Ability to Preview System Email Templates for Web Stores](#)
- [Separate Shopping Cart for Each Business Customer Contact](#)
- [Image Compression for Web Store Images](#)
- [Ability to Track Subscription Email sent to an Entity](#)
- [Shopping Domains in System Email Templates](#)
- [Frequency of Updates to Dynamic Groups used as Audiences](#)
- [Out of Stock Items in Web Store Email](#)
- [Support for Site Builder Secure Shopping Domains](#)
- [Support for SuiteTax in the Commerce API](#)
- [API Support for Payment Card Tokens](#)
- [CNAME Flattening is now supported in SuiteCommerce](#)
- [Application Publisher Name when using SDF for SSP Applications](#)
- [Use of SuiteScript Version 2.x in SSP Application Scripts](#)
- [Permanent Security Improvements to External URLs](#)
- [CMS Page Types](#)

Ability to Preview System Email Templates for Web Stores

In 2018.2, if you used system email templates for web store email, the only way to identify how the email looked to your web store customers was to sign up as a web store customer and trigger each email to be sent to your email address. To eliminate the need for this lengthy and tedious process, 2019.1 introduces the ability to preview any web store email that uses a System Email Template. Email can be previewed quickly and easily within NetSuite and you can switch between email sent by different websites.

Email can be previewed from the Email tab of the Web Site record. If a system email template is selected in the Select a System Email Template menu, clicking the Preview icon next to it opens the email preview selection window. In this window, you can choose the details of the email you want to see in the email preview. For all email types, you can choose the website from which the email is sent and the language of the email. The other options available depend on the email type. For example, you can select a sales order number to include in an order confirmation email preview. After you have selected all the options, you can preview the email.

For instructions on previewing email from the Web Site record, see the help topic [Preview System Email Templates](#) or the video [Preview System Email Templates](#).

 **Note:** Email preview is available only for system email templates for web stores. It is not available for web store email templates or customized text groups because these features will be phased out soon.

Separate Shopping Cart for Each Business Customer Contact

Website administrators can now choose between two shopping cart options for their business customers:

- **Separate shopping carts for each customer contact** – this option, available from 2019.1, enables each contact defined for a business customer to shop and check out using their own shopping cart. One contact's cart is not visible to any other customer contact. This prevents situations where one contact removes items that another contact has added, or where one contact checks out an order before other contacts have added all the items they need.
- **Shared shopping cart** – this option provides each business customer with a single shopping cart that is shared by all contacts who place orders for that customer. This pre-2019.1 option remains available in 2019.1.

The shopping cart option that is most appropriate depends upon the type of web store. For example, if a web store caters to large corporations that have many contacts placing orders, separate carts enable contacts to order the items they need without affecting each others orders. Shared carts may be more appropriate for other situations, such as small business customers where two or three contacts work together to place orders.

Website administrators can choose which shopping cart option (shared or separate) to use for each website.

Until 2018.2, order-related email were sent only to the contact who placed the order. In 2019.1, if the separate cart option is selected, a new email preference is available, which sends a copy of all order-related email to the main customer email address. This gives business customers greater visibility into orders placed by their contacts. Even if this email preference is not selected, business customers can easily identify who placed a sales order by checking the Relationships tab of the sales order form. The responsible contact is listed there with the new Order Creator role.

For more information, see the help topic [Shopping Cart Options for Business Customers](#).

Image Compression for Web Store Images

Website administrators can use the new image compression feature to reduce the file size of images used in SuiteCommerce. Compressed images load faster resulting in better web site performance and improved shopper experience. The higher the compression level, the smaller the file size, and the quicker it is to load. Higher compression levels also lower the quality of the image. However, the reduction in quality typically is unnoticeable. The available levels of compressed image quality in SuiteCommerce are:

- Very High (minimum compression)
- Optimum (recommended)
- Standard
- Low (maximum compression)

If image compression settings have been defined for an image, a compressed copy of the image is created the first time it is accessed. The original image is not affected. The compressed copy of the image is cached, either internally or on the CDN, if CDN is enabled for the website.

Image compression settings can be defined at the website level and apply to all images displayed on website domains. Compression settings can also be defined in the File Cabinet for any subfolder of the Web Site Hosting Files folder. Defining compression settings at the folder level, means that images in the folder are compressed regardless of where they are accessed from. For example, images used in SCIS are compressed if they are stored in a folder which has image compression settings defined.

Image compression settings are applied only to images that are:

- JPEG or PNG format
- Between 500KB and 5 MB
- Stored in the NetSuite file cabinet (images stored outside of NetSuite and linked to from the web site are not compressed)
- Not already resized. Resized images are automatically compressed using the 'Optimum' image compression setting regardless of the setting chosen at the site or folder level. See the help topic [Setting Up Image Resizing for SuiteCommerce](#) for information about resizing images.

For more information about image compression settings and how to define them, see the help topic [Setting up Image Compression for SuiteCommerce](#).

Ability to Track Subscription Email sent to an Entity

The existing Subscription Email feature enables you to send email to customers inviting them to subscribe to marketing email or confirm their existing subscription preferences. The new **Subscription Message History** subtab lists all subscription messages that have been sent to an entity in the past. If you review the information on this subtab before sending opt-in invitation or opt-in confirmation email, you can avoid spamming the entity with repeated or frequent email. The information can also help you to adhere to any local regulations that restrict the quantity of unsolicited email sent to entities.

Campaigns

Subscriptions •

Keywords

Click-Streams

Page Hits

Hosted Page Hits

Referrer

Cart Contents 0.00

GLOBAL SUBSCRIPTION STATUS


Soft Opt-In

Send Subscription Email

Subscription Message History

DATE ▼	SENDER	RECIPIENT	RECIPIENT EMAIL	MESSAGE TYPE	MEMO
11/14/2018 04:13 am	R Wolfe	CAN Cust	cancust@sicstest.com	Invitation	Subscription message based on system email template: Standard Opt-In Invitation Message
11/14/2018 04:14 am	R Wolfe	CAN Cust	cancust@sicstest.com	Confirmation	Subscription message based on system email template: Standard Opt-In Confirmation Message

The **Subscription Message History** subtab is located under the Marketing tab on all entity records. For each opt-in email sent to an entity, the subtab lists the type of subscription email (invitation or confirmation), date and time it was sent, name of the person who sent it, recipient name, recipient email address, and email template used. For more information, see the help topic [Viewing List of Subscription Messages Sent to a Recipient](#).

 **Note:** Subscription message history is available starting from June 20, 2018.

Shopping Domains in System Email Templates

System email templates can now reliably identify the shopping domain on which an order was placed even if the domain is not marked as the primary domain. The domain name is available in the synthetic field **domain**, which is now included in the default system email templates for web stores. See the help topic [System Email Templates for Web Stores](#) for more information about default email templates.

You can also include the **domain** field in custom scriptable templates. Templates for web store email in the Order and Digital Delivery categories would benefit from having the domain included. See the help topic [Synthetic Fields for Scriptable Templates](#) for more information on creating custom scriptable templates.

Frequency of Updates to Dynamic Groups used as Audiences

In some cases, dynamic groups are used by NetSuite to determine whether or not a particular entity can access a specific asset. For example, you can restrict a folder in the File Cabinet to a dynamic group. You can also publish a tab or category to a dynamic group using the Audience subtab of the tab or category record. The audience that can see such a folder, tab, or category is updated whenever the folder, tab, or category record is saved.

Until 2018.2, the audience that could see the folder, tab, or category was also updated every 24 hours. From 2019.1, the audience that can see the folder, tab, or category is updated approximately 12 hours from the time it was last updated. Therefore, the list of people who have access to the folder, tab, or category is updated:

- whenever the dynamic group record is saved, and
- 12 hours after the dynamic group record was last updated.

Out of Stock Items in Web Store Email

The new **itemAvailabilities** synthetic field returns the number of items available for sale, taking into consideration items in warehouses minus items already committed to other orders. You can use this field in system email templates to calculate whether or not an item is out of stock. The exact calculation to obtain this information depends on how you have set up the ordering workflow in NetSuite. You can use the result of the calculation in the template to display whether the item is out of stock or not. For more information about the **itemAvailabilities** synthetic field, see the help topic [Records and Fields Available in Website System Email Templates](#).

Support for Site Builder Secure Shopping Domains


If you have any of the following releases of Site Builder, you can use SSL certificates to secure the shopping portion of your Site Builder web store. See the help topic [Secure Web Store](#) for details.

- Site Builder (without Extensions)
- Site Builder Extensions or Site Builder Extensions Premium (Elbrus)
- Site Builder Extensions or Site Builder Extensions Premium (Kilimanjaro)


If you have a different release of Site Builder, secure shopping domains may be available with a patch.

Support for SuiteTax in the Commerce API

SuiteTax provides greater flexibility to support country-specific needs and legislation changes regarding tax calculation and reporting. In 2019.1, to support SuiteTax on SuiteCommerce websites, the Commerce API has been enhanced as follows:

 **Note:** Tax calculations using SuiteTax are available in SuiteCommerce web stores for calculating US and Canadian taxes only. Future releases will include support for other countries.


- **New Order Methods:** These methods can only be used if SuiteTax is enabled.
 - [getTaxDetails\(\)](#), [getTaxDetails\(fields\)](#)
 - [recalculateTaxes\(\)](#)
 - [getSummaryTaxTotals\(\)](#)
- **New Fields:** taxdetailsreference and taxamount
 These new fields are added to objects returned by the following methods:
 - [getItems\(fields\)](#)
 - [getItems\(bConsolidated\)](#), [getItems\(fields, bConsolidated\)](#)
 - [getItem\(orderitemid, fields\)](#)
 - [getFieldValues\(fields\)](#)
- **Fields Not Compatible with SuiteTax:** These fields cannot be used if SuiteTax is enabled.
 - taxtype1
 - taxrate1
 - taxtype2
 - taxrate2
 - tax1amt
 - tax2total
 - tax2total_formatted

 **Important:** SuiteTax is not supported for tax calculation on SiteBuilder websites.

For general information on SuiteTax, see the help topic [SuiteTax](#).

API Support for Payment Card Tokens

The Payment Instruments feature in NetSuite makes using various payment methods more straightforward and, in the case of payment cards, more secure. The feature uses tokenization to substitute sensitive credit card data with secure Payment Card Tokens. To enable payment tokenization on web stores, you must upgrade to SuiteCommerce 2019.1. For information on using Payment Card Tokens in SuiteCommerce, see the help topic [SuiteCommerce Payment Instruments Integration](#).

 **Note:** Payment Card Tokens are not supported for Site Builder websites or websites using SuiteCommerce versions earlier than 2019.1.

Commerce API methods have been updated to support the use of Payment Card Tokens in SuiteCommerce websites. The updated methods are:

- **Shopping session methods:**

- `getPaymentMethod(paymentMethodId, fields)`
- `getPaymentMethods(fields)`
- **Order methods:**
 - `getPayment(fields)`
 - `removePayment()`
 - `setPayment(payment)`

The following methods must not be used if the Payment Instruments feature is enabled:

- **Customer methods:** `addCreditCard`, `getCreditCard`, `getCreditCards`, `removeCreditCard`, and `updateCreditCard`

For payment cards to be tokenized automatically when they are used to place an order on the web store, **Require Authorization for Credit Card Transactions** must be checked on the Shopping tab of the Web Site Setup record.

For general information on Payment Card Tokens, see the help topic [Tokenization](#).

Note: Only Payment Card Tokens are supported on SuiteCommerce websites. General Tokens are not currently supported.

CNAME Flattening is now supported in SuiteCommerce

CNAME Flattening is a feature specific to DNS providers, which when enabled, lets you use a dynamically distributed A record for your root domain. With CNAME Flattening, your website can reap the benefits that a CDN provides while you use your root domain to host several services.

From 2019.1, you can safely use a dynamic A record for your root domain in SuiteCommerce, as opposed to a static A record that points to a fixed IP address. For more information, see the help topic [Website Domains and Email Hosting](#).

Note: CNAME Flattening is a feature specific to DNS providers. Therefore, you should choose a DNS provider that offers this feature and set it up for your domain.

Application Publisher Name when using SDF for SSP Applications

If you use SuiteCloud Development Framework (SDF) to develop SSP applications, you must use the Application ID as the Application Publisher name. For information about Application IDs, see the help topics [SuiteApp Application ID](#) and for information on Application Publishers, see the help topic [The URL Root and its Components](#).

Use of SuiteScript Version 2.x in SSP Application Scripts

SSP applications contain `.ssp` files and `.ss` files, which can be written in either SuiteScript 1.0 or SuiteScript 2.0. All script files written in SuiteScript 2.0 must begin with the declaration `<%@ NApiVersion="2.x" %>`. This ensures that the script automatically uses the latest minor version of SuiteScript 2.0.

The use of `<%@ NApiVersion="2.0" %>` is no longer supported.

For more information about SSP Applications, see the help topic [SSP Applications](#).

Permanent Security Improvements to External URLs

To improve the security level of your NetSuite experience, in version 2016.1, the security level was upgraded for all externally available URLs used to link to pages, forms, and files in NetSuite. The URLs for these pages and files were updated in the UI when the account was upgraded to version 2016.1.

In NetSuite 2019.1, the security level of all external URLs used to link to NetSuite resources will be **permanently upgraded**. This affects external links to the following:

- online case forms
- support case reply pages
- online custom record forms
- online customer forms
- downloadable items on a webstore

Newly created system generated email messages containing links to these types of resources will automatically have the new URLs applied.

As of 2019.1, the previous insecure URLs will no longer work. This change applies to all accounts.

If you have manually embedded insecure links in your pages, you can copy and paste the new URLs by going to the External subtab of the affected form. For more information, see the help topic [Linking to Online Forms](#). You can test the changes to external URLs on your Release Preview account, if you have one.

You must also inform your customers and other online form users that the URLs have changed and provide them with the new URLs.

CMS Page Types

The CMS Page Type record lets SMT extension developers create page types that can be used by the extension. The page type defines a set of attributes specific to that type. These attributes include the following:

- **Base URL Path** – The base URL path lets you customize the URL for all pages of that type. For example, if you have a page type of blog and a base URL path of blog, all blog pages are accessed by `mysite.com/blog/[page url]`.
- **Custom Record Type** – This is a group of settings and attributes you can set for each page type.
- **Active or Inactive** – If the page type is inactive, existing pages of that type still display, but you cannot create new pages of that type.
- **CMS Creatable** – If set to yes, you can create instances of this page type in SMT. If set to no, the page type is hidden in SMT.

CMS Page Type records are defined in NetSuite at Lists > Web Site > CMS Page Type. The CMS Page Type is dependent on the 19.1 release of SuiteCommerce.

See the help topic [CMS Page Types](#).

SuiteCommerce InStore

SuiteCommerce InStore (SCIS) uses a phased release process. Each phase consists of a different group of customers upgraded to the newest version of SCIS 2019.1. All administrators receive an email notification with information about when accounts are scheduled for upgrade.

Note: Contact your account representative or Customer Support if you have questions about availability of SCIS 2019.1.

Enhancements to SCIS

The following new features are included in SuiteCommerce InStore, Bundle ID 249555 (SCIS 2019.1):

- [Measuring the Performance of SCIS Customizations](#)
- [SCIS Mobile Apps Version 5.0](#)
- [Deprecation of the Submit on Update Checkbox](#)
- [General Performance Enhancements in SCIS 2019.1](#)
- [Autocomplete Capabilities for SCIS Login](#)
- [Enhancement to the Product Detail Page \(PDP\)](#)
- [Automated Payment Refund if Invoice Creation Fails](#)
- [Pre-loading for the Next Transaction](#)

Measuring the Performance of SCIS Customizations

NetSuite 2019.1 introduces the SuiteCommerce InStore Application Performance Management (APM) SuiteApp version 1.01.

SuiteCommerce InStore APM measures the performance of a subset of actions SCIS. You can use the SuiteApp to view detailed statistics, a timeline, and the performance history of each action. With this information, you can optimize long—running user event scripts and Workflows and improve the performance of your daily SCIS operations.

SuiteCommerce InStore APM includes the following pages:

- **SuiteCommerce InStore Performance Diagnostics** – This page shows tiles for each action in SCIS, each of which narrows down to show a timeline and the history of the action's performance.
- **SuiteCommerce InStore Action History Detail** – This page can be accessed from the diagnostics page, and it shows the details about a performance log you are interested in.

Note: Some tables found in SuiteCommerce InStore Action History Detail includes links to the APM pages Profiler Details and SuiteScript Analysis. To open these pages, you must first install the APM SuiteApp. For more information, read [Application Performance Management](#).

- **SuiteCommerce InStore Performance Setup** – This page lets you provide access for specific roles or employees to use SuiteCommerce InStore APM.

SuiteCommerce InStore APM is a managed SuiteApp, installed separately from the APM SuiteApp. After you install SuiteCommerce InStore APM, updates for fixes and enhancements to the SuiteApp are automatically posted to your account without any need to update manually.

For more information, read the help topic [Application Performance Management \(APM\) for SCIS](#).

SCIS Mobile Apps Version 5.0

In SCIS mobile apps version 5.0, certificate fingerprints for NetSuite domains are updated automatically. This release improves security for SCIS. Administrators no longer need to manually update **SCIS Mobile Certificate** records or **SCIS Domain Whitelist** records for NetSuite domains.

For example, certificate fingerprint hash codes for domains such as, *.app.netsuite.com, or media.netsuite.com are maintained automatically by the system. However, certificate fingerprint hash codes for domains such as, *.google.com, or Verisign must still be maintained by SCIS administrators.



Important: With SCIS mobile apps version 5.0, administrators are still responsible for manually updating the certificate fingerprints for domains other than NetSuite domains. **Only certificate fingerprints for NetSuite domains are maintained automatically.**

SCIS for iOS Version 5.0

SCIS for iOS version 5.0 is available and approved for download. To take full advantage of SCIS capabilities, you must update the SCIS for iOS mobile app on all iPads running SCIS. Go to the App store on your iOS tablet to get version 5.0 of SCIS for iOS.

Ensure that recommended settings have been applied. For more information, read the help topic [Recommended Settings for iPads Running SCIS](#). Also, run acceptance tests to ensure that your system continues to run as expected. For more information, read the help topic [Updating the Operating System and SCIS Mobile App](#).

SCIS for Windows Version 5.0

The SCIS for Windows mobile app is automatically updated to version 5.0 when you access SCIS on your Windows device. To maintain the cash drawer capabilities, you must modify the device configuration file, if this file exists on Windows devices running SCIS. If you do not modify the device configuration file, then the cash drawer will not open following the update to SCIS for Windows version 5.0.

Required Action for SCIS for Windows Version 5.0:



Important: This required action applies **only** if the **device-config.ini** file exists on the Windows devices running SCIS. Go to **C:\Users\<USER>\AppData\Local\NetSuiteSCIS** to verify whether the file exists.

1. On your Windows device, go to **C:\Users\<USER>\AppData\Local\NetSuiteSCIS**.
2. Locate the file named, **device-config.ini**. You must edit this file.
3. Add **[Configuration]** as the first line of code, above the existing line that begins with **openCashDrawerCode=**.
4. Save and close the file.

After you have modified the device configuration file, the cash drawer operates as expected following the latest update to the SCIS for Windows mobile app.

Deprecation of the Submit on Update Checkbox

The **Submit on Update** checkbox will be deprecated in an upcoming release. The Execute Client Scripts check box was implemented to enable the system to execute AvaTax integration code as Client Scripts. Starting with SCIS 2019.1, best practice is to use the Execute Client Scripts setting with AvaTax integrations.

General Performance Enhancements in SCIS 2019.1

From a faster login experience to features that speed the order taking and checkout process, this release includes multiple enhancements that boost performance. This section is a brief overview of performance-related benefits in SCIS 2019.1.

■ Faster Logins using Autocomplete

Sales associates can log into SCIS quickly by selecting their email address from a list after entering only a few characters. See [Autocomplete Capabilities for SCIS Login](#).

Performance is also improved after pressing the **LOGIN** button. How SCIS computes the parameters to load and the order in which loading is performed all lead to the device being ready faster.

■ Faster page loads on the Product Detail Page (PDP)

We default the item quantities displayed to only those available at the current location. See [Enhancement to the Product Detail Page \(PDP\)](#).

■ Faster loading of the QuickAdd Bar

To reduce the number of data calls to the NetSuite system, we now use asset downloads to render the QuickAdd Bar. See [Using Local Data to Render the QuickAdd Bar](#).

■ Efficient preparation for the Next Transaction

To be ready for high demand at the point-of-sale, we prepare your device for the next transaction while completing the current transaction. See [Pre-loading for the Next Transaction](#).

■ Other Performance Enhancements

Other recent SCIS features that improve performance include:

- Line-item caching so that after adding the first item to an order, subsequent lines load faster.
- Showing receipt options while loading the receipt image
- Providing options for entering multiple addresses at the same time.
- Improving the parameter-load process for payment methods.

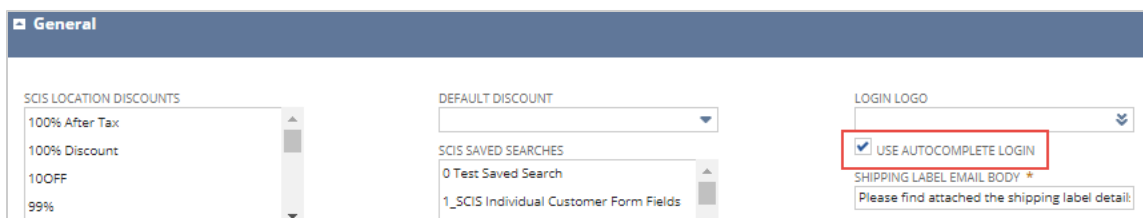
Look for more performance enhancements to come in future releases.

Autocomplete Capabilities for SCIS Login

This feature provides faster login for SCIS users. A sales associate can type the first few letters of their email address, and the login screen shows a list of email addresses that match. The feature works by location, so only email addresses registered to the sales associate's location are displayed in the list.



The auto-complete login feature is enabled by default. To turn off the feature, an administrator can clear check the **Use Login Autocomplete** box on the SCIS settings record.



Sales associates' email addresses are stored on the device the first time they log in after the setting is enabled. After that, the sales associate can take advantage of auto-complete capabilities on subsequent logins.

Enhancement to the Product Detail Page (PDP)

In SCIS 2019.1, there is a change in the way inventory is displayed on the PDP that enables the page to load faster. The PDP shows the quantity available at the current location only after the sales associate selects item options. This change only affects matrix items, or items with item options.

The PDP for inventory items without item options continues to display the quantity available. Generally, the PDP runs faster in all cases due to improvements in algorithms that gather inventory data for SCIS.

Using Local Data to Render the QuickAdd Bar


In this release we leverage our existing architecture to gain performance for the QuickAdd bar. A previous release introduced automatic downloading of assets from NetSuite. These assets include a copy of item images and information from your product catalog. To stay current, the data saved to the point-of-sale device is refreshed each time a sales associate logs into SCIS from that device.

With SCIS 2019.1, we begin using this saved catalog data to render the items displayed on the QuickAdd bar. This process boosts performance by reducing the number of calls needed to retrieve data from the NetSuite online database.

Automated Payment Refund if Invoice Creation Fails

If an EMV payment fails to save the transaction and create an invoice, SCIS automatically attempts to refund the customer's payment. This enhancement includes messaging that alerts the sales associate to the transaction error and lists whether the automatic payment refund was successful. If the refund failed, the sales associate receives instruction to provide the refund manually.

The associate can attempt the transaction again when the refund is complete.

 **Note:** The payment refund must occur before the sales associate can attempt to perform the transaction again.

Pre-loading for the Next Transaction

With this SCIS 2019.1 performance enhancement, SCIS prepares for the next transaction while generating the receipt and closing the current transaction. Pre-loading the next transaction reduces the time required for the sales associate to begin helping the next customer in line.

SuiteApp Distribution

SuiteApp distribution includes SuiteBundler and SuiteApp Listing capabilities that you can use to distribute customizations to accounts. NetSuite 2019.1 includes the following changes:

- [Bundle Support during Release Phasing](#)
- [SuiteApp Marketplace Permission Replaces SuiteBundler Permission](#)
- [Translation Collection Objects Can Be Included in Bundles](#)
- [New Location for Installing SDF SuiteApps](#)
- [Updates Required to Existing Objects for Custom Segment Unified IDs](#)

Bundle Support during Release Phasing

Bundle support during phasing of 2019.1 is consistent with the support provided during previous releases. During phasing of 2019.1, some accounts continue to use 2018.2 at the time that other accounts are upgraded to 2019.1. 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 2018.2 can be installed into accounts that are already using 2019.1.
- Bundles developed with 2019.1 can be installed into accounts that are still using 2018.2, but note the following limitations:
 - When a user in a 2018.2 account installs a bundle from a 2019.1 account, the bundle installation stops if there are object types in the bundle that are not supported in 2018.2.
 - A bundle with a SuiteScript that uses a new API available only in 2019.1 can be installed into a 2018.2 account, but the script may not function correctly because 2018.2 does not support the API.

SuiteApp Marketplace Permission Replaces SuiteBundler Permission


As of 2019.1, the new SuiteApp Marketplace permission replaces the existing SuiteBundler permission. The SuiteApp Marketplace permission includes all of the previous SuiteBundler permission capabilities, and adds:

- Access to the SuiteApp Listing page in NetSuite
- The ability to install SDF SuiteApps from the SuiteApp Listing page
- The ability to uninstall SuiteApps from the Installed SuiteApps page
- The ability to view the Deployment Audit Trail page

For more information, see the following:

- To use the SuiteApp Marketplace permission, see the help topic [Permissions Documentation](#).
- To learn about the SuiteApp Listing page, see [New Location for Installing SDF SuiteApps](#) and [SuiteApp Listings in NetSuite](#).
- To install SDF SuiteApps from the SuiteApp Listing page, see the help topic [SuiteApp Installation](#).

Translation Collection Objects Can Be Included in Bundles

 **Warning:** The Translation Collections is a beta feature. The contents of this feature are preliminary and may be changed or discontinued without prior notice. Any change may impact the feature's operation with the NetSuite application. Warranties and product service levels do not apply to this feature or the impact of the feature on other portions of the NetSuite application. We may review and monitor the performance and use of this feature. The documentation for this feature is also considered a beta version and is subject to revision.

As of 2019.1, Translation Collection objects can be included in bundles using the Bundle Builder.

Translation Collections are custom objects comprised of translated terms. The Translations Collection object includes terms and their translations in the specified locale. For more information about

Translation Collections, see the help topics [Translation Collection Overview](#) and [Creating a Translation Collection](#).

You can select Translation Collection objects in the Bundle Builder from the Select Objects tab, under the Translation Collections in the Object Types list. For more information about including objects in bundles, see the help topic [Creating a Bundle with the Bundle Builder](#).

The Multi-Language feature must be enabled in the source account to support the bundling of Translation Collection objects. If the Multi-Language feature is not enabled in the target account, the objects are installed and scripts can access them, although the Translation Collections are not viewable in the NetSuite UI.

For more information, see the Translation Collections object type documentation in [Objects Available in Customization Bundles](#).

New Location for Installing SDF SuiteApps

As of NetSuite 2019.1, there is a new location for installing SDF SuiteApps.

The SuiteApp Listing page provides a location in NetSuite for you to find and install SuiteApps created using the SuiteCloud Development Framework, otherwise known as SDF SuiteApps. SuiteApps can include custom objects and configuration settings that are useful to your organization. This feature is directed at NetSuite administrators and users who have permission to install SuiteApps in their accounts. If you are a developer and you are interested in creating SDF SuiteApps, see the help topic [SuiteApp Projects](#).



Important: For 2019.1, only SuiteApps from the com.netsuite publisher ID are available on the SuiteApp Listing page. These are all managed SuiteApps.

To view the SuiteApp Listing page, go to **Customization > SuiteCloud Development > SuiteApp Listing**. This page lists SDF SuiteApps available for installation to your account.



Note: Access to the SuiteApp Listing page and the ability to install SuiteApps to your account, requires the **SuiteApp Marketplace** permission.

For information about using the SuiteApp Listing page, see the following topics:

- [Viewing SuiteApp Listings](#)
- [Identifying SuiteApp Incompatibility](#)
- [SuiteApp Installation](#)

Updates Required to Existing Objects for Custom Segment Unified IDs

The unified ID has an impact on bundled objects. When the Use as Field ID setting is enabled for custom segments, existing customizations that include those segments may stop working or may not work as expected. Objects that may be impacted include scripts, workflows, printing templates, and saved searches. As of 2019.1, creating a new custom segment automatically uses the unified ID, and the **Use as Field ID** box is not visible. For more information, see [Unified ID Applied to All New Custom Segments](#) and [Creating a Custom Segment](#).

To ensure the successful installation of bundled objects that reference custom segments, observe following guidelines in [Bundle Installation Notes](#).

SuiteBuilder – Customization

NetSuite 2019.1 includes the following enhancements to SuiteBuilder features:

- [Address Scripting Enhancements to Support Transaction Tax Calculations](#)
- [Custom Transaction Types No Longer Available from New Workbook Page](#)
- [Advanced Printing Enhancements for Additional Language Support](#)
- [Ability to Include Translated Display Name and Language Fields in Saved Searches](#)
- [Applied Custom Segments Visible on the Custom Record Type Configuration Page](#)
- [Ability to Include Custom Record Names in Saved Search Results](#)
- [Custom Sublist Translation Field Length Increased](#)
- [Unified ID Applied to All New Custom Segments](#)
- [Custom Child Record Sublists Available for Editing on New Transactions](#)

Address Scripting Enhancements to Support Transaction Tax Calculations

NetSuite 2019.1 includes changes to script processing of custom address values on transactions. These changes enhance the accuracy of tax calculations for transactions that have custom addresses.

These enhancements include the following:

- Synchronization of address text values on subrecord and parent record
- Elimination of code workarounds required to ensure accurate nexus and tax recalculation
- Enhanced override logic
- Enhanced validation of country and state combinations
- Avoidance of unnecessary form refreshes

Some existing scripts may include code to work around previous tax calculation limitations for transactions with custom addresses. These scripts are likely to have unexpected behavior after the 2019.1 upgrade.

To avoid any issues, you should review your existing scripts as soon as possible to determine which scripts set custom address values on transactions. You may need to update these scripts to ensure that they continue to function correctly after the upgrade. You can test updated scripts in your 2019.1 Release Preview account, before your production account is upgraded.

For details about these changes, recommended actions to adapt your scripts, and sample code updates, see the help topic [2019.1 Address Scripting Changes to Support Transaction Tax Calculations](#).

Custom Transaction Types No Longer Available from New Workbook Page

Custom transaction types are no longer available for use as the root record type in custom SuiteAnalytics workbooks. To query data from custom transaction types in SuiteAnalytics Workbook, use the generic Transaction record type and add criteria filters using the Type field. For more information, see [Custom Transaction Types No Longer Available in SuiteAnalytics Workbook](#).

Advanced Printing Enhancements for Additional Language Support

The following advanced printing enhancements have been made to support languages that are read from right to left:

- [Arabic and Hebrew Languages Supported in Advanced PDF/HTML Templates](#)
- [Multiple Languages Supported in Advanced PDF/HTML Templates](#)
- [Updated BFO Library for Advanced PDF/HTML Templates](#)

Arabic and Hebrew Languages Supported in Advanced PDF/HTML Templates

You can now print advanced templates in Hebrew and Arabic.

For example, to set up your template to print in Arabic, enter a line that resembles 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" subset="false"/>
```

For more information about configuring your template to print in another language, see the help topic [Languages for Printed Forms that Use Advanced Templates](#).

Multiple Languages Supported in Advanced PDF/HTML Templates

You can now use multiple languages in one advanced template. When printing a template, only one locale is selected. However, you can use other locales in the document as long as the required fonts are linked and the lang attribute is set correctly.

To use multiple languages in a template, configure the template as follows:

1. Use the **<link>** element to load all required fonts.
2. Create a CSS selector to pair the language and font.
3. Set the lang attribute on elements that have a language different from the language set in the template.

For more information about configuring your template to print in another language and an example, see the help topic [Languages for Printed Forms that Use Advanced Templates](#).

Updated BFO Library for Advanced PDF/HTML Templates

Advanced PDF/HTML templates now use updated BFO libraries.

BFO version 1.1.64 includes the following features:

- Printing support for languages that are read from right to left, including Arabic and Hebrew.
- Improved error messages when the load process of external HTTP resources fails.

- Ability to load fonts from an OpenTypeFontCollection. To load fonts, specify the font URL and add "#font=n" to the end, where n is the index in the collection.

For more information, see [The Big Faceless Report Generator User Guide](#).

Ability to Include Translated Display Name and Language Fields in Saved Searches

You can now include the translated name field and the language field in saved search results for custom records. On the Results subtab of the saved search definition, two new fields are available: Display Name (Translated) and Language. Include these two fields in your search to return all translated Display Name and Language fields for the custom record instances in all languages.

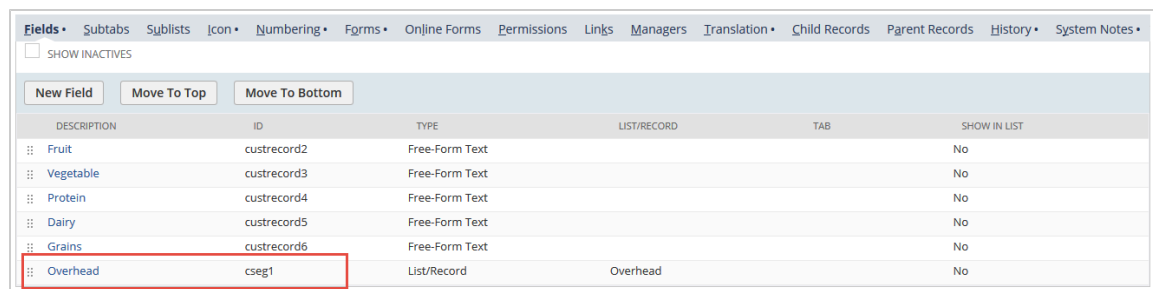
To show the saved search results in the user's language only, enter Language as a filter on the Criteria subtab. The Language field is required on the Criteria subtab to filter the saved search results by the user's language preference.

For more information about creating a saved search, see the help topic [Defining a Saved Search](#).

Applied Custom Segments Visible on the Custom Record Type Configuration Page

Previously, custom segments applied to a custom record type were not listed on the custom record type configuration page.

With this change, custom segments that are applied to a custom record type are listed on the Fields subtab of the custom record type configuration page.



DESCRIPTION	ID	TYPE	LIST/RECORD	TAB	SHOW IN LIST
⌵ Fruit	custrecord2	Free-Form Text			No
⌵ Vegetable	custrecord3	Free-Form Text			No
⌵ Protein	custrecord4	Free-Form Text			No
⌵ Dairy	custrecord5	Free-Form Text			No
⌵ Grains	custrecord6	Free-Form Text			No
⌵ Overhead	cseg1	List/Record	Overhead		No

Ability to Include Custom Record Names in Saved Search Results

You can now include the translated name and language fields in custom record saved search results. On the Results subtab of the saved search definition, two new fields are available: Display Name (Translated) and Language. Include these fields in your search to return all translated name and language fields for the custom record instances.

If you include the Display Name (Translated) and Language fields in your search results, enter Language as a filter on the Criteria subtab. When you enter Language on the Criteria subtab, the saved search results are filtered by the user's language preference.

For more information about creating a saved search, see the help topic [Defining a Saved Search](#).

Custom Sublist Translation Field Length Increased

Previously, the length of the Translation fields for custom sublists was not consistent for all languages. In 2019.1, the custom sublist Translation fields for all languages support up to 50 characters.

Unified ID Applied to All New Custom Segments

The unified ID is now used on all new custom segment definitions. The unified ID lets you use one ID in your customizations to refer to all of the record types for one custom segment. With the unified ID, you are not required to know the applied record type when referring to a custom segment field on a specific record.

As of 2019.1, the unified ID is applied to all new custom segment definitions. When you create a new custom segment, the **Use as Field ID** box is not visible on the Custom Segment definition page.

For custom segments created before 2019.1, the **Use as Field ID** box is available on the Custom Segment definition page. The box was not checked on custom segment definitions created before 2018.2 because existing scripts would fail. For more information, see the help topic [Creating a Custom Segment](#).

For information about the unified ID impact on bundle installation, see the help topic [Updates Required to Existing Objects for Custom Segment Unified IDs](#).

Custom Child Record Sublists Available for Editing on New Transactions

Previously, custom child record sublists were not available in creation mode for some transactions in the following cases:

- A transaction was created by transformation from another record type, for example, the sublist was not available when generating a credit memo from an invoice.
- The user selected Make Copy on an original transaction.

With this change, custom child record sublists are available for editing when a transaction is created from another record type. Sublists are also available when users select the Make Copy action on an original transaction. The sublists are empty to prevent problems that can occur when copying child records, so the user should enter new sublist values.

SuiteAnalytics

NetSuite 2019.1 includes the following enhancements to SuiteAnalytics:

- [SuiteAnalytics Workbook Feature Now Generally Available](#)
- [New Analytics Portlet for SuiteAnalytics Workbook](#)
- [New Data Source for SuiteAnalytics Connect \(Beta\)](#)
- [New Version for SuiteAnalytics Connect ODBC and JDBC Drivers](#)
- [Account-Specific Domains for SuiteAnalytics Connect](#)
- [New Multi-Series Chart for Trend Graph Portlet](#)
- [User Interface Enhancements to Dashboards](#)
- [Custom Transaction Types No Longer Available in SuiteAnalytics Workbook](#)

SuiteAnalytics Workbook Feature Now Generally Available

In 2018.2, SuiteAnalytics Workbook was available as a beta feature. In 2019.1, SuiteAnalytics Workbook is generally available in all NetSuite implementations. To watch an introduction to SuiteAnalytics Workbook, click [here](#).

Earlier versions of NetSuite offered searches and reports as separate analytical tools, each with their own user interfaces, authoring processes, and data sources. The different data sources have resulted in some inconsistencies in field naming and exposure between the two tools. These differences have caused challenges for users, including confusion over which tool to use, and difficulty locating fields. Additionally, both tools lack support for multilevel joins and have limitations on formatting options.

In 2019.1, SuiteAnalytics Workbook adds a new analytical tool to all NetSuite accounts. With SuiteAnalytics Workbook you can create highly customizable workbooks that combine queries, pivot tables, and charts using a single tool that leverages a new, unified data source. This new data source is designed to ensure that fields are consistently exposed in SuiteAnalytics Workbook, with consistent results across all components of the workbook. SuiteAnalytics Workbook also uses a new user interface that is designed so that users with limited knowledge of record schemas and query language can still create complex workbooks through actions such as drag-and-drop editing. The interface also makes SuiteAnalytics Workbook ideal for on-demand diagnostic analysis, with options for instant formula validation, data refreshment, and drilling down through query results. Additionally, a range of customization options have also been added to the interface to enable rich formatting and visualizations of your data.

Support for multilevel joins has also been added to SuiteAnalytics Workbook, enabling you to author workbooks using field data from multiple record types, including custom records. Custom formula fields are also supported in SuiteAnalytics Workbook, so you can create and add fields with dynamically calculated values to your workbooks. Finally, SuiteAnalytics Workbook also offers multiple display options for hierarchical fields, so you can easily view data for fields with parent/child relationships.

By default, SuiteAnalytics Workbook is enabled in all NetSuite accounts. To ensure that it has been activated in your account, go to Setup > Company > Setup Tasks > Enable Features. On the **Analytics** subtab, under **SuiteAnalytics Workbook**, verify that the **SuiteAnalytics Workbook** box has been checked and click **Save**.

When the feature is enabled, most roles are given access to the tool. You can also enable specific users to edit and monitor the workbooks created in your account by adding the Analytics Administrator permission to their roles. For more information about access to SuiteAnalytics Workbook, or for steps to assign the Analytics Administrator permission to different roles in your account, see the [SuiteAnalytics Workbook Overview](#).

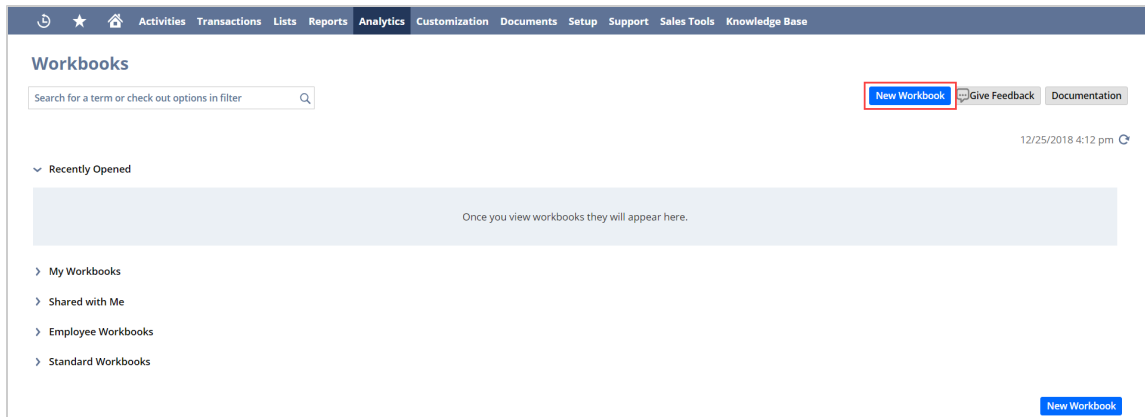
- [Finding Records and Fields Using SuiteAnalytics Workbook](#)
- [Creating a Workbook](#)
- [Elements of the SuiteAnalytics Workbook Interface](#)
- [Multilevel Joins in SuiteAnalytics Workbook](#)
- [Supported Workbooks](#)
- [Additional Features](#)
- [Known Limitations](#)

Finding Records and Fields Using SuiteAnalytics Workbook

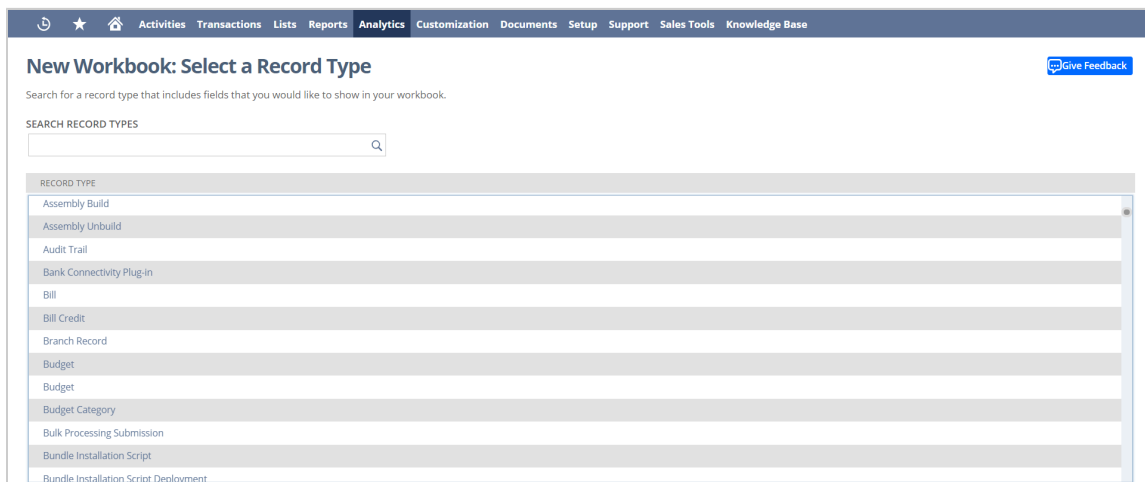
SuiteAnalytics Workbook uses a new data source which might require different fields, records, joins, or formulas to replicate your existing saved searches and reports. Review the [SuiteAnalytics Workbook Data Source Overview](#) for more information, including a list of available records and fields, and sample workbooks you can use to replicate your searches and reports.

Creating a Workbook

After the SuiteAnalytics Workbook feature is enabled in your account, the NetSuite navigation menu includes a new Analytics tab. To create a workbook, click the **Analytics** tab to open the Analytics dashboard. On the Analytics dashboard, click **New Workbook**.



You are prompted to select a record type for the workbook.



Select a record type from the list to open the **Data** tab and begin the authoring process.

To learn how to create your own custom workbooks, see the help topic [Custom Workbooks](#). This section includes steps for defining, filtering, and pivoting your workbook source data, as well as procedures for how to create custom formula fields and charts. You can also complete the [SuiteAnalytics Workbook Tutorial](#) which guides you through the creation of a sample Transaction workbook.

Elements of the SuiteAnalytics Workbook Interface

After you click New Workbook and choose a root record type, you define the workbook in the SuiteAnalytics Workbook interface. This interface is divided into four tabs:

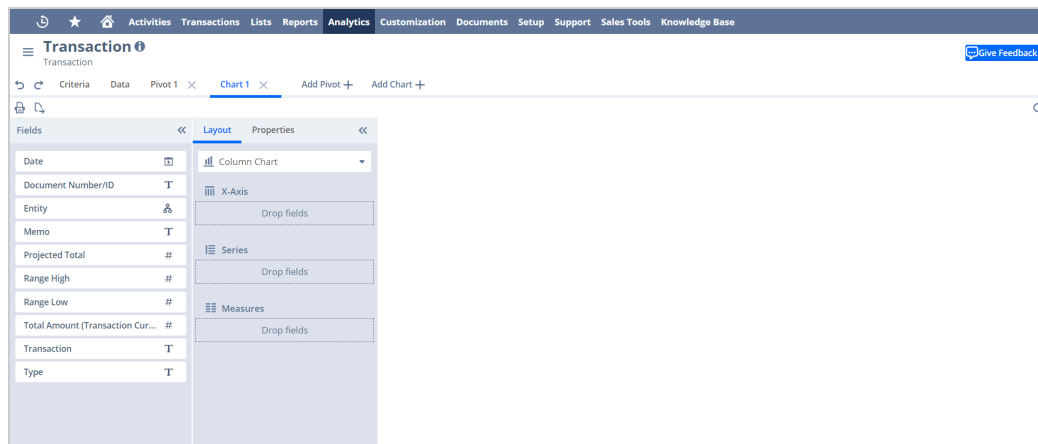
- The **Data Tab**, where you define the source data for your workbook by creating a query. The data available for a query includes fields from the selected root record, as well as fields from multiple levels of related records. You can also create custom formula fields on the Data tab. For more information about formula fields, see the help topic [Formula Fields](#).

TRANSACTION	DATE	MEMO	TYPE	TOTAL AMOUNT (TRANSACTION CURRENCY)	RANGE HIGH	PROJECTED
Assembly Build #1	4/16/2005		Assembly Build	\$2,879.50		
Bill #2991	2/10/2005		Bill	-\$250.00		
Bill #3007	4/15/2005		Bill	-\$350.00		
Bill #3008	8/20/2005	W1094	Bill	-\$80.00		
Bill #3009	8/8/2005	5402-1476	Bill	-\$900.00		
Bill #3010	9/20/2005	W1094	Bill	-\$80.00		
Bill #3011	9/8/2005	5402-1476	Bill	-\$900.00		
Bill #3012	10/20/2005	W1094	Bill	-\$80.00		
Bill #3013	10/8/2005	5402-1476	Bill	-\$900.00		
Bill #3014	11/20/2005	W1094	Bill	-\$80.00		
Bill #3015	11/8/2005	5402-1476	Bill	-\$900.00		
Bill #3016	12/20/2005	W1094	Bill	-\$80.00		
Bill #3017	12/8/2005	5402-1476	Bill	-\$900.00		

- The **Criteria Tab**, where you apply filter conditions to the source data for your workbook.

- The **Pivot Tab**, where you define the layout for formatting, summarizing, and pivoting your source data.


- The **Chart Tab**, where you define the layout for presenting your source data as a chart.

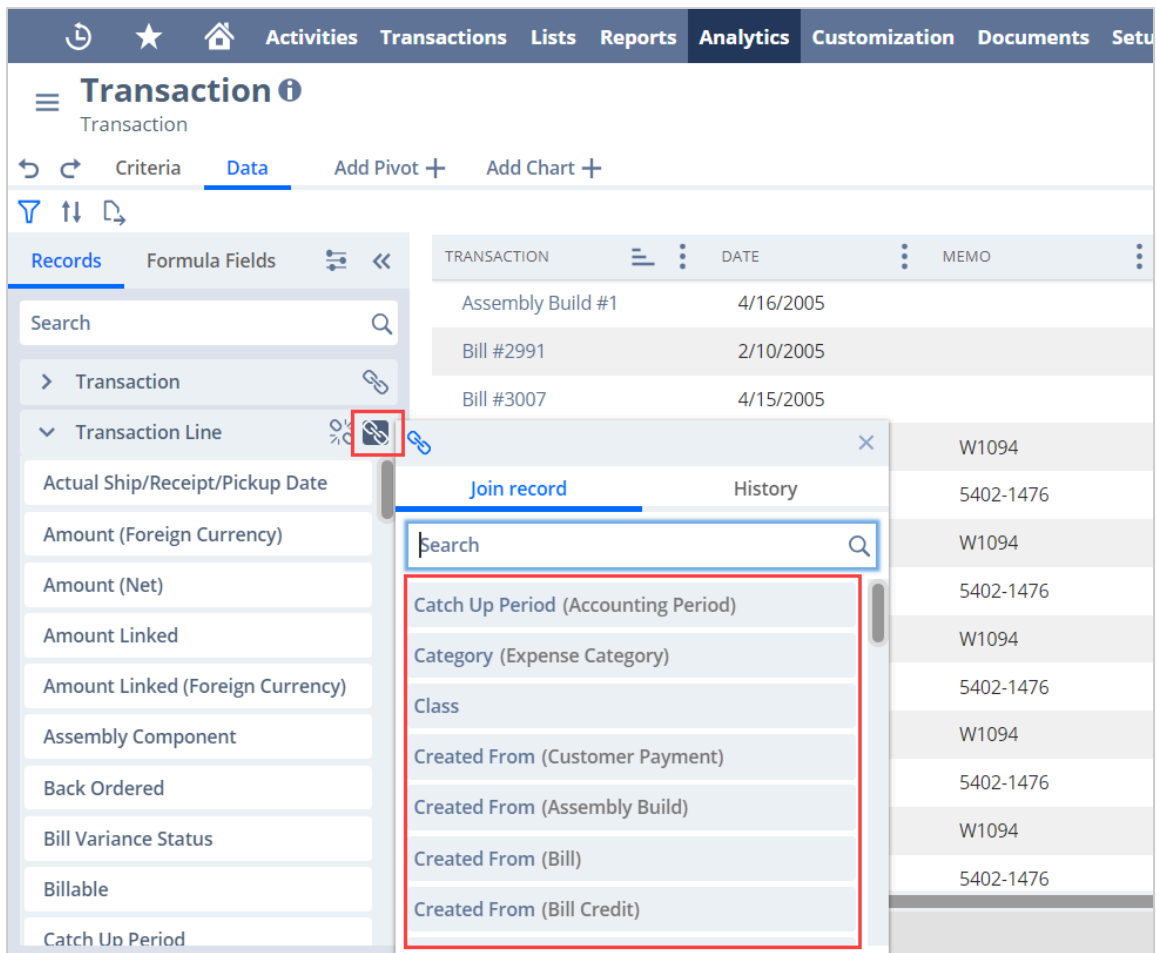


For more information about the SuiteAnalytics Workbook user interface, see the help topic [Navigating SuiteAnalytics Workbook](#). This topic provides detailed descriptions about the elements on each tab of the SuiteAnalytics Workbook interface.

Multilevel Joins in SuiteAnalytics Workbook

At any point during the authoring process, you can join additional related records to your workbook. This includes records which are multiple levels away from the root record of the workbook.

To do so, click the **Join Record** icon  next to any record listed in the **Available Field List** on the **Data** tab.



All possible joins are listed in the popup window.

- To join a record to the workbook, click the record name.
- To search for a specific record, type the record name in the Search field.
- To join a record that is more than one level away from the root record of the workbook, click the Join Record icon next to any previously joined record.

For more information about joining records in SuiteAnalytics Workbook, see the help topic [Guidelines for Joining Record Types in SuiteAnalytics Workbook](#).

Supported Workbooks

SuiteAnalytics Workbook currently supports the following standard workbooks:

- Sales (Ordered) Workbook (Beta)
- Sales (Invoiced) Workbook (Beta)
- Open Sales Order Lines (DEMO)
- Number of Fulfillments (DEMO)
- Journal Entry to Approve (DEMO)

With these workbooks, the source data, criteria, and layouts for specific charts and pivot tables are predefined. Use the Sales workbooks to view Sales By Item, Sales By Customer, and Sales By Sales

Rep data for the invoices and orders in your account. Use the Open Sales Orders Lines, Number of Fulfillments, and Journal Entry to Approve workbooks to view other transaction-related data from your account.

To open the standard workbooks in your account, you must have the Analytics Administrator permission or a user with the permission must share the workbooks with you. The standard workbooks available in your account are listed under the **Standard Workbooks** list on the Workbook Listing Page.

Workbook Name	Description	Owner	Last Run Date	Last Modified	Root Record	Fields and Criteria	Actions
Sales (Invoiced) Workbook (Beta)		System			Sales (Invoiced)	> Details	
Sales (Ordered) Workbook (Beta)		System			Sales (Ordered)	> Details	



Important: All standard workbooks are currently in a beta state. The fields, records, formatting, and data displayed in each of these workbooks are subject to change and therefore these workbooks should be used for demonstration purposes only.

For more information about predefined workbooks, see the help topic [Standard Workbooks](#).

For steps on how to replicate some of your existing saved searches and reports using SuiteAnalytics Workbook, see the help topic [SuiteAnalytics Workbook Data Source Changes](#).

Additional Features

As of 2019.1, the following features have been added to SuiteAnalytics Workbook:

- Additional currency conversion options:** In 2018.2, the beta version of SuiteAnalytics Workbook supported currency consolidation, but you could only consolidate amounts to the currency of your parent subsidiary. In 2019.1, SuiteAnalytics Workbook supports currency conversion to any currency set up in your account.
For more information, see the help topic [Currency Conversion](#).
- Filters based on measure values:** As of 2019.1, you can filter workbook pivot table data using measure values. This enables you to quickly view different subsets of data directly from the Pivot tab without having to create new workbook filters on the Criteria tab.
For more information, see the help topic [Pivot Table Filters](#).
- Workbook-based portlets:** Starting in 2019.1, you can add workbook-based portlets to your NetSuite dashboards. However, only charts are currently supported in the portlet.
For more information, see [New Analytics Portlet for SuiteAnalytics Workbook](#).
- Expanded formula functions:** SuiteAnalytics Workbook now includes a more comprehensive version of the CASE formula function, including support for WHERE and WHEN clauses in your formula definitions.

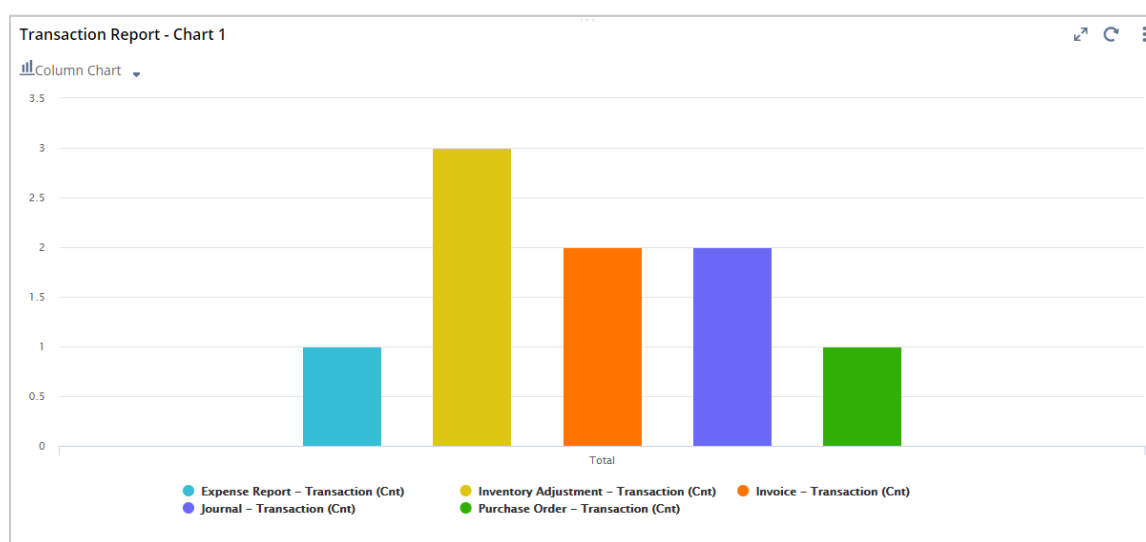
For more information, see the help topic [Formula Fields](#).


Known Limitations

Some features and interactions in SuiteAnalytics Workbook have known limitations. For more information, see the help topic [Known Limitations in SuiteAnalytics Workbook](#).

New Analytics Portlet for SuiteAnalytics Workbook

A new Analytics Portlet enables you to view your chart-based workbook data at a glance on your home dashboard.



You can display up to five Analytics Portlets on your home dashboard. After adding the portlet, to select which chart you want to view, click the **Menu** icon , and then click **Set Up**. The Analytics popup window lists the workbooks available in your account that have at least one chart defined. You will see your chart-based workbooks and those shared with you.

You can set layout options for the displayed portlets, such as the portlet size, chart type, and portlet title. These settings apply only to the portlet.


The New Analytics portlet also gives you quick access to your workbook. To edit a workbook, click the **Menu** icon, and then click **Open in Workbook**.



Note: To set up Analytics portlets on your dashboard, the SuiteAnalytics Workbook feature must be enabled.

For more information about setting up the portlet, see the help topic [Setting Up the Analytics Portlet](#).

New Data Source for SuiteAnalytics Connect (Beta)

 **Warning:** A new data source is available for SuiteAnalytics Connect as a beta feature. This data source is not available for SuiteAnalytics Connect in sandbox and release preview accounts yet. The contents of this feature are preliminary and may be changed or discontinued without prior notice. Any changes may impact the feature's operation with the NetSuite application. Warranties and product service levels do not apply to this feature or the impact of the feature on other portions of the NetSuite application. We may review and monitor the performance and use of this feature. The documentation for this feature is also considered a beta version and is subject to revision.

The new data source is designed to display consistent data across SuiteAnalytics Workbook, thus solving some previous inconsistencies in data exposure between saved searches and reports.

The beta feature applies role-based access restrictions to the data source. Users can only query data that they can access in the SuiteAnalytics Workbook user interface, which contributes to improved security. The new data source is not accessible for the following roles:

- Administrator
- Full Access
- Roles requiring Two-Factor Authentication (2FA)
- Roles accessing the Connect Service with IP restrictions

To access the new data source, you must be upgraded to NetSuite 2019.1, and then change the **Service Data Source** attribute to **NetSuite2.com**. You can also continue to use the existing data source by changing the **Service Data Source** attribute back to **NetSuite.com**.

When running queries using the beta feature, syntax for both SQL-92 and Oracle are supported, but you cannot use them in the same query.

You can retrieve information from the schema of the new data source using the OA_COLUMNS, OA_TABLES, and OA_FKEYS tables. Additionally, you must consider some syntax requirements when creating a query such as supported operators, functions, expressions and number of arguments.

 **Note:** To access the new data source, the SuiteAnalytics Connect permission must be granted.

For more information on the new data source and best practices for querying the Connect Service, see the following topics:


- [SuiteAnalytics Workbook Data Source Overview](#)
- [Selecting a Data Source](#)
- [Supported Functions of the New Data Source \(Beta\)](#) and [SQL Compliance](#)

New Version for SuiteAnalytics Connect ODBC and JDBC Drivers

As of September 23, 2019, new versions of the SuiteAnalytics Connect ODBC and JDBC drivers are available for download. If you are using an ODBC driver, you must upgrade to the latest version before November 15, 2019.

We recommend that you upgrade to the latest version of the drivers as soon as possible. As of November 15, 2019, ODBC driver versions prior to 8.10.89.0 will no longer be supported. If you do not upgrade to the latest ODBC driver versions before this date, you will be unable to access the Connect Service. See the following table for the latest driver versions:

Driver Type	Driver Version	Action Required
Windows ODBC	8.10.92.0	Upgrade to this version is mandatory.
Linux ODBC	8.10.89.0	Upgrade to this version is mandatory.
JDBC	8.10.85.0	Upgrade to this version is optional.

 **Note:** If you use an ADO.NET driver to access the Connect Service, no action is required.

To download the latest driver version, go to your NetSuite home page and click **Set Up SuiteAnalytics Connect** in the Settings portlet.

Depending on your operating system and the version of the driver you install, you may also need to update your connection attributes. See the following table for more information:

Driver	Action Required
Windows ODBC 8.10.92.0	No update required. The installer automatically updates your data sources to use the generic system trust store and account-specific domains.
Windows ODBC 8.10.92.0 (DSN-less connections)	Update required. Set the value of the trust store parameter to system .
Linux ODBC 8.10.89.0	Update required. Linux ODBC driver version 8.10.89.0 does not include ca.cer and ca2.cer files. If you are upgrading from a previous version, you must update the trust store parameter or connection string. You must remove the ca.cer and ca2.cer files and ensure that the ca3.cer file is included.

For more information about upgrading ODBC drivers, see the following topics:

- [Upgrading an ODBC Driver](#)
- [Downloading and Installing the ODBC Driver for Windows](#)
- [Downloading and Installing the ODBC Driver for Linux](#)
- [Authentication Using Server Certificates for ODBC](#)

For more information about upgrading JDBC drivers, see the following topics:

- [Accessing the Connect Service Using a JDBC Driver](#)
- [JDBC Connection Properties](#)

For more information about account-specific domains, see the help topic [URLs for Account-Specific Domains](#).

Account-Specific Domains for SuiteAnalytics Connect

As of June 19, 2019, account-specific domains are supported by SuiteAnalytics Connect. An account-specific domain is a domain that is unique for each NetSuite account, because the account ID is a part of the domain. This means that the Connect Service host name displayed on the SuiteAnalytics Driver Download page now contains the account ID. The format of an account-specific domain for SuiteAnalytics connect is `<accountID>.connect.api.netsuite.com`, where `<accountID>` is a variable representing the

account ID of your account. For example, if your production ID is 123456, the value of the host name would be 123456.connect.api.netsuite.com.

After this change, we encourage you to change the Connect Service host name in the connection attributes of the driver to avoid login issues in upcoming releases. The host name you should use for your connection is displayed in the **Service Host** field on the SuiteAnalytics Connect Driver Download page, under **Your Configuration**.

Changes to the connection attributes are as follows:

- In 2019.1, there is no change in the way you access the Connect Service. However, it is recommended that you change the connection attributes as soon as possible.
- As of 2019.2, account-specific domains will be required to access the new data source through the Connect Service. Therefore, you must modify the connection attributes before your account is upgraded to 2019.2.
- The ODBC domain (odbcserver.netsuite.com) will be deprecated in an upcoming release. If you do not change the connection attributes before this deprecation, you will no longer be able to log in to the Connect Service.

For more information about account-specific domains, see the help topic [URLs for Account-Specific Domains](#).

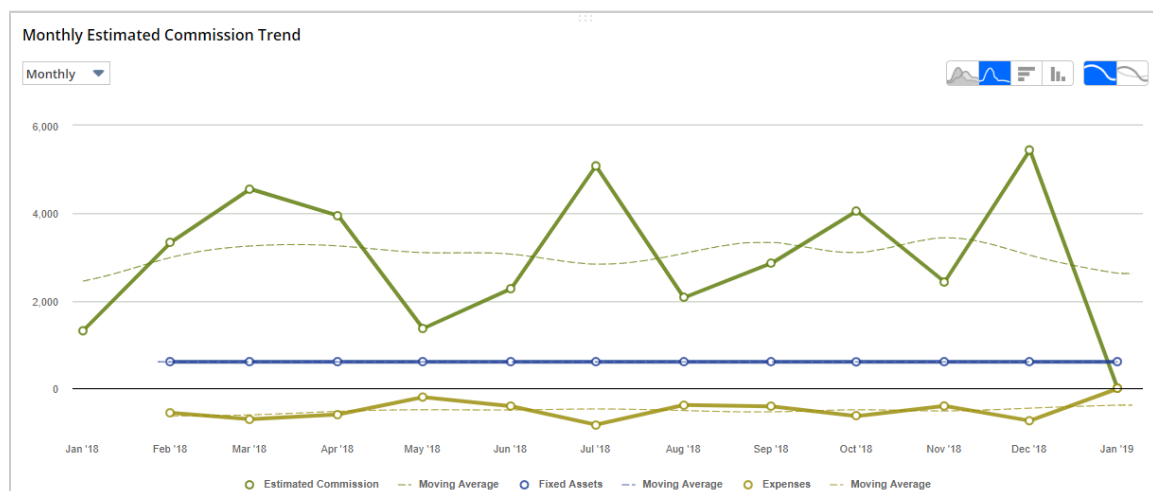
For more information about setting up connections, see the following topics:

- Configuration information, see the help topic [Reviewing Configuration Information](#).
- ODBC driver, see the help topic [Connection Attributes](#).
- JDBC driver, see the help topic [JDBC Connection Properties](#).
- ADO.NET driver, see the help topic [ADO.NET Connection Options](#).

New Multi-Series Chart for Trend Graph Portlet

Prior to 2019.1, the Trend Graph portlet displayed one chart to show the differences in data over time for a specific Key Performance Indicator (KPI).

As of 2019.1, the Trend Graph portlet can now support up to three KPIs. This capability enables you to compare the differences in data for multiple KPIs in a single chart. The design and user interface elements of the trend graph portlet have also been aligned with the new look and feel of the NetSuite dashboard.



For more information about adding multiple KPIs to the Trend Graph portlet, see the help topic [Trend Graphs](#).

For more information about the new look and feel of the NetSuite dashboard, see [User Interface Enhancements to Dashboards](#).

User Interface Enhancements to Dashboards

The user interface has been refreshed with visual and functional enhancements. For more information on the new design, see [User Interface Enhancements to Dashboards](#).

Custom Transaction Types No Longer Available in SuiteAnalytics Workbook

To improve performance, custom transaction types are no longer available for use as the root record type in custom workbooks. Effective immediately, any workbooks in your account based on custom transaction types are no longer available.

To query data from custom transaction types in SuiteAnalytics Workbook, create a new workbook using the generic Transaction record type and add criteria filters using the Type field. For example, assume you have a custom transaction type named Unordered in your account. To include data from Unordered records in a workbook, you can add the following criteria on the DataSet tab: Type is Unordered.

For more information about adding criteria filters to custom workbooks, see the help topic [Workbook Criteria Filters](#).

CSV Import

NetSuite 2019.1 includes the following enhancement to CSV Import:

Newly Supported Record Types for CSV Import

Record Type	Notes
Period End Journal Entry	<p>Period End Journal is a transaction record that posts subsidiary consolidation and year-end closing to the general ledger. Period end journals are generated automatically when you complete the Create Period End Journals task on the Period Close Checklist.</p> <p>This record is part of the Period End Journal Entries feature, which is available only in NetSuite OneWorld accounts. The Accounting Periods feature is a prerequisite for the Period End Journal Entries feature.</p> <p>To import period end journal entry data, in the Import Assistant, set the Import Type to Transactions, and the Record Type to Period End Journal Entry.</p> <p>For more information, see the help topic Period End Journal Entry Import.</p>
Item Location Configuration	<p>When using the Advanced Item Location Configuration feature, item location attributes can be set or updated using the CSV import process.</p> <p>For example, item location attributes may need to be added when a new location is added. You can make these changes by mass updates using CSV import.</p>

Record Type	Notes
	<p>To import item location configuration data, in the Import Assistant, set the Import Type to Supply Chain, and the Record Type to Item Location Configuration.</p> <p>For more information, see the help topic Item Location Configuration Import.</p>
Budget Exchange Rate	<p>The Budget Exchange Rates table is available at Lists > Accounting > Budget Exchange Rates. In this table you can maintain exchange rates between the child and parent subsidiaries for use in the budgeting process.</p> <p>To access this table, the Multiple Currencies and Multiple Budgets features must be enabled at Setup > Company > Setup Tasks > Enable Features.</p> <p>To import updated budget exchange rate data, in the Import Assistant, set the Import Type to Accounting, and the Record Type to Budget Exchange Rate. Only the Update data handling option can be selected for the import.</p> <p>For more information, see the help topic Budget Exchange Rates Import.</p>
Bill of Materials (BOM)	<p>A Bill of Materials (BOM) lists the quantities of raw materials, assemblies, sub-components, 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.</p> <p>The BOM import record is available when the Advanced Bill of Materials feature is enabled on the Items & Inventory subtab at Setup > Company > Setup Tasks > Enable Features.</p> <p>To import BOM data, in the Import Assistant, set the Import Type to Supply Chain, and the Record Type to Bill of Materials.</p> <p>For more information, see the help topic Bill of Materials Import.</p>
Bill of Materials (BOM) Revision	<p>A Bill of Materials (BOM) revision enables you to update a BOM's details throughout the product lifecycle. A BOM revision also provides an accessible revisions history.</p> <p>The BOM Revision import record is available when the Advanced Bill of Materials feature is enabled on the Items & Inventory subtab at Setup > Company > Setup Tasks > Enable Features.</p> <p>To import BOM revision data, in the Import Assistant, set the Import Type to Supply Chain, and the record type to Bill of Materials Revision.</p> <p>For more information, see the help topic Bill of Materials Revision Import.</p>

SuiteFlow (Workflow Manager)

NetSuite 2019.1 includes the following enhancements to SuiteFlow features:

- [Enhancements to Release Status](#)
- [New Create Line Action](#)
- [Enhancement to Set Field Mandatory Action](#)
- [Enhancement to Set Field Display Label Action](#)
- [Translation Support for Workflow Actions](#)
- [Enhanced Ability to Identify Workflow Actions in a Workflow Log](#)

Enhancements to Release Status

As of 2019.1, several enhancements have been made to the Release Status property of workflows.

Change to the Default Release Status

Prior to 2019.1, by default, the Release Status property of workflows was set to **Not Running**. As of 2019.1, by default, the Release Status property of workflows is set to **Testing**. You can change the Release Status of workflows on the workflow definition page. For more information, see the help topic [Release Status](#).

Renamed Release Status

Prior to 2019.1, there were three Release Status options available for workflows: **Not Running**, **Released**, and **Testing**. As of 2019.1, **Not Running** has been renamed to **Not Initiating**. This change was made to better align the label with the task and to help prevent confusion. The way that Release Status options work has not changed. When you select **Not Initiating**, new workflow instances do not initiate but workflow instances that are already running will continue to do so. For more information, see the help topic [Release Status](#).

New Release Status

The **Suspended** Release Status option has been added to SuiteFlow. This new option provides you with greater control over workflows, along with the ability to disable workflow execution. When you set the Release Status of a workflow to **Suspended**, the following is true:

- No new instances of the suspended workflow are created.
- No existing instances of the suspended workflow are executed.
- If the suspended workflow includes scheduled workflows, transitions, or actions, none of them will be executed.
- It is not possible to initiate a suspended workflow from SuiteScript, or by using the Initiate Workflow or Mass Update actions in SuiteFlow.

To resume a suspended workflow, change the **Release Status** to an option other than **Suspended**. Suspended workflows resume at the point the workflow was at when it was suspended.

New Create Line Action

As of 2019.1, a new workflow action, Create Line, has been added to SuiteFlow. You can use the Create Line workflow action to add a new line to a sublist and specify the default values for line fields. The Create Line action is available in workflow definitions on record types with a sublist SuiteFlow supports. Currently, SuiteFlow only supports the Items sublist on Transaction Record types.

The addition of the Create Line action enables you to customize sublist-related processes by adding lines to the sublist, and permits greater customization without having to use SuiteScript. The Create Line workflow action includes the standard action fields, including Basic Information, Condition, and Schedule. You can execute the Create Line action in the following:

- Server triggers Before Load, Before Submit, and After Submit.
- Scheduled triggers.

The Create Line action does not support client triggers.

For more information, see the help topics [Working with Workflows](#) and [Workflow Actions](#).

Enhancement to Set Field Mandatory Action

The Set Field Mandatory action has been extended to support the setting of a line field in a sublist as mandatory. This enhancement provides you with a greater ability to customize workflows based on your business needs.

You can use the Set Field Mandatory action on record types with a sublist SuiteFlow supports. Currently, SuiteFlow only supports the Items sublist on Transaction Record types. The Set Field Mandatory action is available at the record level, but cannot be applied to the sublist action group.

For more information, see the help topics [Actions Reference](#) and [Set Field Mandatory Action](#).

Enhancement to Set Field Display Label Action

The Set Field Display Label action has been extended to support changes to the label of a sublist column. This enhancement allows users to change and customize the sublist column label according to business needs.

You can use the Set Field Display Label action on record types with a sublist SuiteFlow supports. Currently, SuiteFlow only supports the Items sublist on Transaction Record types. The Set Field Display Label action is available at the record level, but cannot be applied to the sublist action group. If necessary, you can leave the label field blank. If the multi-language feature is enabled on your account, you can also enter translations for the new label.

For more information, see the help topics [Actions Reference](#) and [Set Field Display Label Action](#).

Translation Support for Workflow Actions

As of 2019.1, if multi-language support is enabled on your account, you will be able to translate custom workflow action text and messages for supported actions. You can enter translations for every active language on the account. This enhancement allows you to easily develop international customizations without having to create language-specific workflows.

The following workflow actions support translation:

- Confirm
- Return User Error
- Set Field Display Label
- Show Message



Note: The translation support for the Add Button action has not changed and is still available for you to use.

For more information, see the help topics [Working with Actions](#), [Enabling Features](#), and [Configuring Multiple Languages](#).

Enhanced Ability to Identify Workflow Actions in a Workflow Log

As of 2019.1, if the Show Internal IDs preference is enabled in your account, you can see the internal ID for workflow actions in the following locations:

- Workflow logs
- Context panel
- Action Group and Sublist Action Group detail pages
- State Definition form

This enhancement makes it easier to quickly identify every executed action in context. The ability to quickly identify workflow actions is designed to assist you with debugging workflows.

When the Show Internal IDs preference is enabled, you can view the internal ID for actions in the following locations:

- In the Context panel, when you hover over an action.
- In the list of actions and transitions, on the State detail dialog.
- In the list of actions in the Action Group and Sublist Action Group, on the State detail dialog.

For more information, see the help topic [Enabling the Show Internal IDs Preference](#).

SuiteScript

Refer to the following sections for details on SuiteScript updates for NetSuite 2019.1:

- [SuiteScript 2.0 – N/translation Module \(Beta\)](#)
- [SuiteScript 2.0 – Bulk Actions \(Beta\)](#)
- [SuiteScript 2.0 – Query API Enhancements](#)
- [SuiteScript 2.0 – Enhancement for N/currentRecord Module](#)
- [SuiteScript 2.0 – N/format/i18n Module](#)
- [SuiteScript 2.0 – Enhancement for N/file Module](#)
- [SuiteScript 2.0 – Signing API](#)
- [2019.1 SuiteScript Record Exposures](#)
- [Address Scripting Enhancements to Support Transaction Tax Calculations](#)
- [New SDF Installation Script Type](#)
- [SuiteScript 1.0 and 2.0 - Time Format is Returned in a Simplified Version of Oracle Format](#)
- [SuiteScript 2.0 - Get and Set Values for rate and ratehighprecision Fields](#)
- [Suitelet External URLs Now Use Account-Specific Domains](#)
- [2019.1 SuiteScript Records Browser](#)

SuiteScript 2.0 – N/translation Module (Beta)



Warning: The N/translation module is a beta feature. The contents of this feature are preliminary and may be changed or discontinued without prior notice. Any change may impact the feature's operation with the NetSuite application. Warranties and product service levels do not apply to this feature or the impact of the feature on other portions of the NetSuite application. We may review and monitor the performance and use of this feature. The documentation for this feature is also considered a beta version and is subject to revision.

The SuiteScript 2.0 N/translation module provides SuiteScript developers a programmatic way to interact with NetSuite translation collections. Both the N/translation module and Translation Collections are beta features in 2019.1.

Translation collections are customization objects that store translation terms with their translations. For more information about NetSuite translation collections, see [Multi-Language Translation Management \(Beta\)](#).

The terms stored in translation collections can be accessed in SuiteScript 2.0 with the [N/translation Module](#). Translation collections are managed in the NetSuite UI. You cannot create or modify translation collections in SuiteScript. The N/translation module provides read-only access to translation collections. For information about how translation collections are managed in the UI, see the help topic [Translation Collection Overview](#).

N/translation Module APIs

Translation collections are encapsulated in the N/translation module's [translation.Handle](#) object. A **translation.Handle** object is a hierarchical object; each node in the object is either another **translation.Handle** object or a [translation.Translator](#) function. Translator functions combine strings with parameters to return strings with the values you pass in for the parameters. Consider the following code snippet:

```
// key HELLO_1 = 'Hello, {1}'

message: translation.get({
  collection: 'custcollection_my_strings',
  key: 'HELLO_1'
})({
  params: ['NetSuite']
})
```

In the snippet, if the specified key's string value is "Hello, {1}", the **translation.Translator** function combines the string with the **options.params** parameter value and returns, "Hello, NetSuite". For information about the way strings are added to and formatted in collections, see the help topic [Working with Translation Collection Strings](#).

Use [translation.load\(options\)](#) to load one or more collections, and use [translation.get\(options\)](#) to get specific key strings in a collection.

You can load collections in different language locales with the [translation.load\(options\)](#) – **options.locales** property and [translation.selectLocale\(options\)](#).

To see a complete list of the objects and methods in the N/translation module, see the help topic [N/translation Module Members](#).

N/translation Module Script Sample

The following example shows how you can load a translation collection in SuiteScript using the N/translation module. The example loads a collection and uses terms in the collection for two N/ui/message module messages.

```
/**
 *@NApiVersion 2.x
 */
require(['N/ui/message', 'N/translation'],
function(message, translation) {
  var localizedStrings = translation.load({
    collections: [{
```

```

        alias: "myCollection",
        collection: "custcollection_my_strings"
    }}
});

var myMsg = message.create({
    title: localizedStrings.myCollection.MY_TITLE(),
    message: localizedStrings.myCollection.MY_MESSAGE(),
    type: message.Type.CONFIRMATION
});

// Message disappears after 5 seconds
myMsg.show({
    duration: 5000
});

// Every node is a translation.Handle object or a translation.Translator function
var collection = localizedStrings.myCollection;

var myMsg2 = message.create({
    title: collection.MY_TITLE(),
    message: collection.MY_MESSAGE(),
    type: message.Type.CONFIRMATION
});


// Message disappears after 5 seconds
myMsg2.show({
    duration: 5000
});

});

```

For other examples of ways you can use the N/translation module, see the help topic [N/translation Module Script Samples](#).

SuiteScript 2.0 – Bulk Actions (Beta)

 **Warning:** Bulk Actions is a beta feature. The contents of this feature are preliminary and may be changed or discontinued without prior notice. Any change may impact the feature's operation with the NetSuite application. Warranties and product service levels do not apply to this feature or the impact of the feature on other portions of the NetSuite application. We may review and monitor the performance and use of this feature. The documentation for this feature is also considered a beta version and is subject to revision.

The 2019.1 Bulk Actions beta release previews APIs that are currently in development for SuiteScript 2.0.

In 2018.2, you could only execute an N/action Module action for a single record instance. As of 2019.1, you can use SuiteScript 2.0 bulk action APIs to execute an action on multiple record instances of the same type, either with the same or different parameters.

The 2019.1 bulk action API beta offers previews of the following SuiteScript 2.0 [N/action Module](#) APIs:

- [Action.executeBulk\(options\) \(Beta\)](#) – executes an asynchronous bulk record action and returns its task ID for status queries with [Action.executeBulk\(options\) \(Beta\)](#).

- [action.getBulkStatus\(options\) \(Beta\)](#) – returns the current status of `action.executeBulk(options)` for the specified task ID. The bulk execution status is returned in a status object.
- [action.executeBulk\(options\) \(Beta\)](#) – executes an asynchronous bulk record action and returns its task ID for status queries with [Action.executeBulk\(options\) \(Beta\)](#).

In addition to the new APIs in the `N/action` module, there are two new record action task objects available for beta preview in the SuiteScript 2.0 [N/task Module](#):

- [task.RecordActionTask \(Beta\)](#) – encapsulates a record action task.
- [task.RecordActionTaskStatus \(Beta\)](#) – encapsulates the status of a record action task.

Use the `N/task` module to create record action tasks and place them in the internal NetSuite scheduling or task queue.

A new beta preview enum, [task.ActionCondition \(Beta\)](#), is also added to the `N/task` module for actions.

For more information about SuiteScript 2.0 actions, see the help topic [Overview of Record Action and Macro APIs](#).

SuiteScript 2.0 – Query API Enhancements

2019.1 includes the following features related to the Query API:

- [Query API Now Generally Available](#)
- [Query Support for Map/Reduce Scripts](#)
- [New Operators for Polymorphic and Inverse Joins](#)
- [Relative Dates and Date Ranges for Conditions](#)
- [Columns with Consolidations](#)
- [Script ID Support for Loading Queries](#)

Query API Now Generally Available

As of 2019.1, SuiteAnalytics Workbook and the Query API are no longer considered beta features and are generally available. For more information, see the help topics [SuiteAnalytics Workbook](#) and [N/query Module](#).

Query Support for Map/Reduce Scripts

NetSuite 2019.1 adds support for queries in the `getInputData` stage of map/reduce scripts. The `getInputData` stage generates the input data and returns it as one of several types. Previously, you could return the input data as an array, a generic Object, a [search.Search](#) object or object reference, or a [file.File](#) object or object reference. Now, you can create or load a query to generate the input data and return the data as a [query.Query](#) object, object reference, or result set. Using a query to generate input data lets you take advantage of the added power of the SuiteAnalytics Workbook query engine.

To return a [query.Query](#) object from the `getInputData` stage:

```
function getInputData() {
    var myInputQuery = query.create({
        type: query.Type.CUSTOMER
```



```
});

// Add columns, conditions, and other properties to the query, as needed

return myInputQuery;
}
```

To return a query that is loaded using [query.load\(options\)](#):

```
function getInputData() {
    var myInputQuery = query.load({
        id: 'custworkbook237'
    });

    return myInputQuery;
}
```

To return a [query.Query](#) object reference:

```
function getInputData() {
    return {
        type: 'query',
        id: 'custworkbook1234'
    };
}
```

For more information about map/reduce scripts, see the help topic [SuiteScript 2.0 Map/Reduce Script Type](#).

New Operators for Polymorphic and Inverse Joins

NetSuite 2019.1 includes new operators to access fields in joined record types. Use the new **^** operator to access fields in record types that are joined using [Query.joinTo\(options\)](#) or [Component.joinTo\(options\)](#). This type of join is also known as a polymorphic join. Use the new **<** operator to access fields in record types that are joined using [Query.joinFrom\(options\)](#) and [Component.joinFrom\(options\)](#). This type of join is also known as an inverse join. These new operators are designed to make it easier and more intuitive to access fields in joined record types.

Use the new **^** and **<** operators in formulas when you create query columns and conditions. You can use these operators when working with formulas in SuiteScript or the NetSuite UI. You can also place whitespace characters and parentheses around these operators to improve the readability of your formulas. For more information, see the help topics [Formulas in the N/query Module](#) and [Formulas in Search](#).

The **^** and **<** operators replace the **#polymorphic** and **#inverse** operators that were used in previous releases. Use the following table to decide which new operator to use:

Join Type	Previous Operator	New Operator
Polymorphic using Query.joinTo(options) or Component.joinTo(options)	#polymorphic	^
Inverse using Query.joinFrom(options) and Component.joinFrom(options)	#inverse	<

Relative Dates and Date Ranges for Conditions

NetSuite 2019.1 adds support for relative dates and date ranges in query conditions. A new object, [query.RelativeDate](#), represents a date range relative to the current date, which means that the current date is used as one of the boundaries of the date range. A new method, [query.createRelativeDate\(options\)](#), creates a [query.RelativeDate](#) object. You can use values in the new [query.DateId](#) enum to specify the type of range to create. For example, to create a date range that includes dates from three weeks ago until the current date:

```
var myDateRange = query.createDateRange({
  dateRangeId: query.DateRangeId.WEEKS_AGO,
  value: 3
});
```

To use this date range in a query condition:

```
var myCondition = myQuery.createCondition({
  fieldId: 'trandate',
  operator: query.Operator.WITHIN,
  values: myDateRange
});
```

Other operators in the [query.Operator](#) enum are also supported for use with relative date ranges, such as **BEFORE**, **AFTER**, **ON_OR_AFTER**, and **BEFORE_NOT**.

You can also use the [query.RelativeDate](#) object and the **WITHIN** operator to specify complex date ranges. Complex date ranges do not use the current date as one of the boundaries. A new enum, [query.RelativeDateRange](#), can help you to construct these types of date ranges. This enum contains predefined date ranges, and you can use the **start** and **end** properties of these ranges to define other ranges. For example, to create a condition that matches dates from the start of this fiscal year until the end of yesterday:

```
var myComplexCondition = myQuery.createCondition({
  fieldId: 'trandate',
  operator: query.Operator.WITHIN,
  values: [query.RelativeDateRange.THIS_FISCAL_YEAR.start, query.RelativeDateRange.YESTERDAY.end]
});
```

For more information, see the help topics [query.createRelativeDate\(options\)](#) and [query.RelativeDate](#).

Columns with Consolidations

NetSuite 2019.1 adds a new boolean property, [Column.context](#), to the [query.Column](#) object. When you create a column using [Query.createColumn\(options\)](#) or [Component.createColumn\(options\)](#), you can use the **options.consolidated** parameter to indicate whether the column should display consolidated currency amounts. Consolidation is a financial concept of converting currency amounts from the base currency of a child subsidiary to the base currency of its parent subsidiary. If you specify an **options.consolidated** value of **true**, the column displays currency amounts in the base currency for the parent subsidiary. If you specify an **options.consolidated** value of **false**, the column displays currency amounts in the base currency of the child subsidiary. The default value is **false**. For example:

```
var myTransactionColumn = myQuery.createColumn({
  fieldId: 'netamount',
  consolidated: true
});
```

```
});
```

Script ID Support for Loading Queries

NetSuite 2019.1 changes the way that you load queries using [query.load\(options\)](#). Previously, you loaded a query by specifying the internal ID of the query as a number. Now, you load a query by specifying the script ID of the query as a string. The script ID of a query usually starts with **custworkbook**, but some do not (such as queries for predefined system workbooks). For example:

```
var myLoadedQuery = query.load({
  id: 'custworkbook237'
});
```

SuiteScript 2.0 – Enhancement for N/currentRecord Module

In 2019.1, **options.forceSyncSourcing** replaces the **options.fireSlavingSync** parameter in the following SuiteScript 2.0 [N/currentRecord Module](#) methods:

- [CurrentRecord.setText\(options\)](#)
- [CurrentRecord.setValue\(options\)](#)
- [CurrentRecord.setCurrentSublistText\(options\)](#)
- [CurrentRecord.setCurrentSublistValue\(options\)](#)
- [CurrentRecord.setCurrentMatrixSublistValue\(options\)](#)
- [CurrentRecord.setMatrixHeaderValue\(options\)](#)

This boolean parameter determines whether dependent values for sublist fields are sourced synchronously. It is set to **false** by default. If **options.forceSyncSourcing** is set to **true**, dependent values for sublist fields are sourced synchronously. If **options.forceSyncSourcing** is set to **false**, dependent values for sublist fields are not sourced synchronously.

Scripts that use the **options.fireSlavingSync** parameter will continue to run as expected; you do not need to update scripts that use **options.fireSlavingSync**. However, you should use **options.forceSyncSourcing** in your scripts beginning in 2019.1. Note that if you use both **options.fireSlavingSync** and **options.forceSyncSourcing** in the same script, the setting for **options.forceSyncSourcing** takes precedence.

SuiteScript 2.0 – N/format/i18n Module

2019.1 adds a new sub module to the SuiteScript 2.0 format module, i18n. You can use the N/format/i18n's module [format.spellOut\(options\)](#) method to spell out numbers as strings in a specific language. The method takes two parameters, **options.number** and **options.locale**:

```
/**
 *@NApiVersion 2.x
 */
require(['N/format/i18n'],
  function(format) {
    var spellOut = format.spellOut({number: 12345, locale: "DE"});
    log.debug(spellOut);
  });
```

```
});
```

The `options.locale` parameter can be specified with an ISO 639-1 alpha-2 language code. The example above specifies "DE", the ISO 639-1 alpha-2 language code for German. The language specified in the `options.locale` parameter is not related to the language specified for a NetSuite account. You can specify any language for the `options.locale` parameter; you do not have to specify a NetSuite supported language.

For more information, see the help topic [N/format/i18n Module](#).

SuiteScript 2.0 – Enhancement for N/file Module

You can use the new Reader object in the N/file module to perform special read operations, such as reading until a specified character is reached and reading a specified number of characters.

For more information, see the help topic [N/file Module](#).

SuiteScript 2.0 – Signing API

A Digital Signing API is now available. Marketed for Brazil and China in NetSuite 2019.1, the Digital Signing API enables a secure connection with authorities requiring digital signatures in communication to authenticate your identity. You can create a scheduled script to sign transactions in XML format with your certificate, which you can upload on the Digital Certificates page. The script sends the signed XML to the appropriate authority for verification and then sends it to the recipient.

Three new SuiteScript 2.0 modules are added to support signing: `N/crypto/certificate`, `N/https/clientCertificate`, and `N/certificateControl`.

For more information on storing digital certificates in NetSuite, see [Certificate Storage for Digital Signing](#).

For more information on making https connections for the Signing API, see [Mutual \(Two-Way\) Authentication for Outbound HTTPS Connections](#).

2019.1 SuiteScript Record Exposures

Record Type	Newly Exposed/Updated	Notes
GL Audit Numbering Sequence	Newly Exposed	To use this record in scripts, you must be using the GL Audit Numbering feature and the Manage Accounting Period permission.
Budget Exchange Rate	Newly Exposed	Available when the Multiple Currencies feature is enabled.

Address Scripting Enhancements to Support Transaction Tax Calculations

Changes to address scripting implemented with the 2019.1 upgrade will enhance the accuracy of tax calculations for transactions that have custom addresses.

For more information, see the help topic [2019.1 Address Scripting Changes to Support Transaction Tax Calculations](#).

New SDF Installation Script Type

Installation scripts for SDF are available as a new SuiteScript 2.0 script type. SuiteApp projects can include SDF installation scripts that are automatically executed when the project is deployed.

For more information, see the help topic [SuiteScript 2.0 SDF Installation Script Type](#).

SuiteScript 1.0 and 2.0 - Time Format is Returned in a Simplified Version of Oracle Format


Beginning in 2019.1, time format is returned in a simplified version when using the following APIs to set the time:

- [getPreference\(name\)](#)
- [nlapiLoadConfiguration\(type\)](#)
- [getFieldValue\(name\)](#)

For example, when setting the time format to **hh:mm AM/PM** in 2018.2, it returns the **fmHH:fmMI am** format. For 2019.1, this setting returns the **h:mm a** format.

SuiteScript 2.0 - Get and Set Values for rate and ratehighprecision Fields

SuiteScript 2.0 has changed the way script values are get and set for rate and ratehighprecision fields. To return a numerical value for rate and ratehighprecision fields, use SuiteScript 2.0 `getValue` APIs. To return a string value with a "%" for rate and ratehighprecision fields, use SuiteScript 2.0 `getText` APIs. Likewise, to set a string value with a "%" for rate and ratehighprecision fields in SuiteScript 2.0, use the `setText` APIs. To set a numerical value for rate and ratehighprecision fields in SuiteScript 2.0, use the `setValue` or `setText` APIs.

 **Note:** The output is rounded to the tenths place when the decimal places all contain zeroes. For example, x.000% returns x.0% when using get.

The following table outlines the SuiteScript 2.0 APIs to use when you want to set or get a specific value type for rate and ratehighprecision fields:

Get a numeric value for rate and ratehighprecision fields		
Use	Sample Script	Expected Output
<ul style="list-style-type: none"> ■ Record.getValue(options) ■ CurrentRecord.getSublistValue(options) ■ CurrentRecord.getCurrentMatrixSublistValue(options) ■ Record.getCurrentMatrixSublistValue(options) ■ Record.getMatrixHeaderValue(options) ■ Record.getMatrixSublistValue(options) ■ Record.getSublistValue(options) 	<pre>require(['N/currentRecord'], function(currentRecord) { var INPUT_FIELD = 'discontrate'; var INPUT = '10.33%'; var cr = currentRecord.get(); cr.setText(INPUT_FIELD, INPUT); console.log(cr.getValue(INPUT_FIELD)) });</pre>	10.33
Get a string value with a "%" for rate and ratehighprecision fields		

Use	Sample Script	Expected Output
<ul style="list-style-type: none"> Record.getText(options) CurrentRecord.getSublistText(options) Record.getCurrentSublistText(options) Record.getSublistText(options) CurrentRecord.getText(options) 	<pre>require(['N/currentRecord'], function(currentRecord) { var INPUT_FIELD = 'discountRate'; var INPUT = '10.33%'; var cr = currentRecord.get(); cr.setText(INPUT_FIELD, INPUT); console.log(cr.getText(INPUT_FIELD)) });</pre>	10.33%
Set a numeric value for rate and ratehighprecision fields		
Use	Sample Script	Expected Output
<ul style="list-style-type: none"> CurrentRecord.setValue(options) CurrentRecord.setCurrentMatrixSublistValue(options) CurrentRecord.setCurrentSublistValue(options) CurrentRecord.setMatrixHeaderValue(options) CurrentRecord.setMatrixSublistValue(options) Record.setCurrentSublistValue(options) Record.setMatrixHeaderValue(options) Record.setMatrixSublistValue(options) Record.setSublistValue(options) Record.setText(options) CurrentRecord.setText(options) CurrentRecord.setCurrentSublistText(options) Record.setCurrentSublistText(options) Record.setSublistText(options) 	<pre>require(['N/currentRecord'], function(currentRecord) { var INPUT_FIELD = 'discountRate'; var INPUT = '10.33%'; var cr = currentRecord.get(); cr.setText(INPUT_FIELD, INPUT); console.log(cr.getText(INPUT_FIELD)) });</pre>	10.33
Set a string value with a "%" for rate and ratehighprecision fields		
Use	Sample Script	Expected Output
<ul style="list-style-type: none"> Record.setText(options) CurrentRecord.setText(options) CurrentRecord.setCurrentSublistText(options) Record.setCurrentMatrixSublistValue(options) Record.setCurrentSublistText(options) Record.setSublistText(options) 	<pre>require(['N/currentRecord'], function(currentRecord) { var INPUT_FIELD = 'discountRate'; var INPUT = '10.33%'; var cr = currentRecord.get(); cr.setText(INPUT_FIELD, INPUT); console.log(cr.getText(INPUT_FIELD)) });</pre>	10.33%

Suitelet External URLs Now Use Account-Specific Domains

As of May 2019, Suitelets support a new format for external URLs. This format contains an account-specific domain instead of the generic forms.netsuite.com domain. Now, when you check the Available

Without Login box on a script deployment for a Suitelet, a new **External URL** field displays an external URL containing an account-specific domain. For more information about account-specific domains in NetSuite 2019.1, see [Account-Specific Domains in NetSuite](#).

In addition, the SuiteScript 1.0 API [nlapiResolveURL\(type, identifier, id, displayMode\)](#) and the SuiteScript 2.0 API [url.resolveScript\(options\)](#) now return URLs with account-specific domains for external URLs.

The former **External URL** field is now renamed to **External URL (Deprecated)**. This field now displays the previously supported Suitelet URL. This field is targeted for removal from the script deployment record as of 2019.2.

Note: The script ID, or internal ID, of the **External URL (Deprecated)** field remains `externalurl1`. The script ID of the new **External URL** field is `externalurlnew`. In 2019.2, the **External URL (Deprecated)** field will be removed, and the **External URL** field with ID `externalurl1` will show the newer URL with the account-specific domain.

If you have any hard-coded references to external URLs for Suitelets with the forms.netsuite.com domain, you must update these references. As of 2020.1 any external URL references with the old format will result in broken links. For access or redirection from another script to a Suitelet, the best practice is to use [url.resolveScript\(options\)](#) to discover the URL instead of hard-coding the URL.

URL APIs Now Return Account-Specific Domains

The following SuiteScript APIs now return URLs with account-specific domains:

- SuiteScript 1.0 API [nlapiResolveURL\(type, identifier, id, displayMode\)](#) now returns an account-specific domain when you set the `displayMode` parameter to 'external.'
- SuiteScript 2.0 API [url.resolveScript\(options\)](#) now returns an account-specific domain when you set the `options.returnExternalUrl` parameter to true.
- SuiteScript 2.0 API [url.resolveDomain\(options\)](#) now returns an account-specific domain for all host types.

For more information about account-specific domains, see the help topic [URLs for Account-Specific Domains](#).

2019.1 SuiteScript Records Browser

The 2019.1 version of the [SuiteScript Records Browser](#) is now available. You can find links to the SuiteScript 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 SuiteScript Records Guide. The [SuiteScript Records Guide](#) is available in the NetSuite Help Center and can be downloaded as a PDF from the [User Guides](#) topic.

SuiteTalk SOAP Web Services Integration

NetSuite 2019.1 includes the following enhancements to SOAP web services features:

- [Newly Supported Record Types for SOAP Web Services](#)
- [New Fields Available via SOAP Web Services in Payment Instruments Records](#)
- [New Field Available via SOAP Web Services in SuiteTax](#)
- [Account-Specific Domains Required for SOAP Web Services 19.1 and Later](#)

- [Schema Uses Relative Paths to XSD Files](#)
- [Release Preview Version of the 2019.1 WSDL](#)
- [Araxis Merge Diff File for the 2019.1 Endpoint](#)
- [2019.1 SOAP Schema Browser](#)

Newly Supported Record Types for SOAP Web Services

Record Type	Category	Notes
Custom Segment	Customization	<p>Available if the Custom Segment feature is enabled at Setup > Company > Setup Tasks > Enable Features, on the SuiteCloud subtab.</p> <p>The Custom Segments feature lets you create custom classification fields similar to class, department, and location. You can create an unlimited number of custom segments, define possible values for each segment, and add the segments to specific record types. People working in NetSuite can then use the segments to classify records appropriately.</p> <p>For more information, see the help topic Custom Segment.</p>
Customer-Subsidiary Relationship	Lists	<p>Available if you use NetSuite OneWorld and the Multi Subsidiary Customer features is enabled at Setup > Company > Setup Tasks > Enable Features, on the Company subtab.</p> <p>Using customer-subsubsidiary relationships, you can share customer and sub-customer records with multiple subsidiaries, and then select those subsidiaries on core transactions.</p> <p>For more information, see the help topic Customer-Subsidiary Relationship.</p>
Vendor-Subsidiary Relationship	Lists	<p>Available if you use NetSuite OneWorld.</p> <p>Using vendor-subsubsidiary relationships, you can share vendor records with multiple subsidiaries, and then select those subsidiaries on core transactions.</p> <p>For more information, see the help topic Vendor-Subsidiary Relationship.</p>
Merchandise Hierarchy Node	Lists	<p>Available if the Merchandise Hierarchy and Custom Segments features are enabled. You can enable the Merchandise Hierarchy feature in , Items & Inventory subtab. You can enable the Custom Segments Feature in , SuiteCloud subtab.</p> <p>A merchandise hierarchy node provides groupings for items that share similar characteristics. They can either be a point in the hierarchy from which other nodes can be created, or the point in the hierarchy where products are assigned to.</p> <p>For more information, see the help topic Merchandise Hierarchy Node.</p>
Period End Journal Entry	Transactions	<p>Available if you use NetSuite OneWorld . Also you need to enable the Accounting Periods and the Period End Journal Entries features in , Accounting subtab.</p> <p>You can use SOAP Web Services to update the already generated Period End Journals, but not to add new records.</p> <p>For more information, see the help topic Period End Journal Entry.</p>

New Fields Available via SOAP Web Services in Payment Instruments Records

The 2019.1 endpoint exposes the fields listed in the table to Payment Instrument records.

To work with these fields the Payment Instruments feature needs to be enabled in , under the Transactions subtab.

Records impacted are: Customer Payment, Sales Order, Customer Deposit, Cash Refund, Customer Refund and Cash Sale.

Field	Notes
paymentOption	This is the only field from the newly exposed fields you can search for in a transaction search.
paymentCardCsc	This field is not present in the response of get operation, as its values are not saved. This field can be editable or not, depending mainly on the value of the PaymentOption field, but also on the values and interdependence of the other fields.
inputAuthCode	This field is not present in the response of get operation, as it is hidden. This field can be editable or not, depending mainly on the value of the PaymentOption field, but also on the values and interdependence of the other fields.
dynamicDescriptor	This is a read-only field. It cannot be set using the add, update and upsert operations.
outputAuthCode	These fields can be editable or not, depending mainly on the value of the PaymentOption field, but also on the values and interdependence of the other fields. Similarly to the UI environment, where the fields would be visible or not, based on the Payment Option and the values entered in the other fields.
paymentProcessingProfile	
handlingMode	
paymentOperation	
checkNumber	
inputReferenceCode	
outputReferenceCode	

For information about any additional setup and usage notes, review the help pages of the record [Payment Instruments](#).

New Field Available via SOAP Web Services in SuiteTax

The 2019.1 endpoint exposes the taxPointDate field in SuiteTax, making it available for the following records:

- Invoice
- Cash Sale
- Estimate
- Opportunity
- Cash Refund
- Return Authorization
- Purchase Order
- Vendor Bill

- Credit Memo
- Journal Entry
- Vendor Return Authorization
- Vendor Credit
- Sales Order
- Expense Report

Consider the following when working with the `taxPointDate` field:

- The value of the field defaults to the transaction creation date, if not filled.
- When the value of the `taxPointDate` field is changed, the `taxPointDateOverride` field is automatically checked. The `taxPointDateOverride` field is not available through SOAP Web Services and you cannot use it in a transaction search.

For more information on SuiteTax, review the help topic [SuiteTax](#).

Account-Specific Domains Required for SOAP Web Services 19.1 and Later

SOAP web services versions 2019.1 and later are only available on account-specific domains. Account-specific domains do not include a data center identifier, only the account ID. The account-specific domain name is not dependent on the data center where an account is hosted, so that the domain does not change, even if an account is moved to a different data center.

Whenever possible, you should use your account-specific domain. As of SOAP version 2019.1, requests on data center-specific domains are not processed, unless the `getDataCenterUrls` operation is used.

For general information about account-specific domains, see [Account-Specific Domains in NetSuite](#).

Additionally, as of 2019.1, the SOAP `getDataCenterUrls` and REST `dataCenterUrls` operations return account-specific domains. If you use these methods to discover NetSuite services, you do not need to change anything in your integrations.

For more information, see the help topics [NetSuite Accounts Are Hosted in the Cloud](#) and [getDataCenterUrls](#).

Schema Uses Relative Paths to XSD Files

Starting with the 2019.1 WSDL the schema uses relative paths to XSD files.

If you encounter any issues, it is because of outdated tools. Make sure to upgrade the tools you are using to their latest version.

Release Preview Version of the 2019.1 WSDL

A release preview version of [SOAP Web Services version 2019.1](#) is now available.

When your implementation is upgraded to 2019.1, the 2019.1 WSDL becomes available in your production account. However, this version is considered a beta version. During the time that the WSDL is a beta version, additional changes are still gradually made to the endpoint. Some of these changes may be backward incompatible. You should use the beta version for testing and development purposes only.

Before the WSDL becomes generally available, use one of the earlier generally available versions in your production account. You do not need to upgrade your WSDL as soon as a new version is generally

available. NetSuite supports each endpoint for three years. For information about the supported generally available versions, see the help topic [Support for Existing WSDL Versions](#).

After the WSDL becomes generally available, you can upgrade your other client applications. The general availability of the WSDL is announced in the Integration Newsletter.

You are able to access the new WSDL during your Release Preview period. Click [here](#) to view the 2019.1 Release Preview (beta) WSDL.



Important: When you attempt to access the beta version of the WSDL, you may receive the following error. To avoid this error and ensure that you receive the correct response, use your account-specific domain for your request for the data center URL. Alternatively, you can use the `c` parameter in your request to specify your account ID. The routing depends on the version of your NetSuite account, and not the version of the WSDL you use.

Service Unavailable

No service is available at this URL. If you expect this service to be available for your account, ensure your account number appears in the URL as request parameter "c".

Example: https://webservices.netsuite.com/services/NetSuitePort_X_X?c=12345



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 is the result of the transition of Release Preview accounts from the beta domain to the NetSuite domain. The NetSuite domain is the domain used by production accounts.

Araxis Merge Diff File for the 2019.1 Endpoint

The [Araxis Merge Diff file](#) highlights 2018.2 - 2019.1 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 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 previous version of the file is displayed on the left, and the new version on 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="_accessPaymentAuditLog"/>
504	<enumeration value="_accountingBook"/>	504	<enumeration value="_accountDetail"/>
505	<enumeration value="_accountingLists"/>	505	<enumeration value="_accountingBook"/>
506	<enumeration value="_accounts"/>	506	<enumeration value="_accountingLists"/>
507	<enumeration value="_accountsPayable"/>	507	<enumeration value="_accounts"/>
508	<enumeration value="_accountsPayableGraphing"/>	508	<enumeration value="_accountsPayable"/>
509	<enumeration value="_accountsPayableRegister"/>	509	<enumeration value="_accountsPayableGraphing"/>
510	<enumeration value="_accountsReceivable"/>	510	<enumeration value="_accountsPayableRegister"/>
511	<enumeration value="_accountsReceivableGraphing"/>	511	<enumeration value="_accountsReceivable"/>
512	<enumeration value="_accountsReceivableRegister"/>	512	<enumeration value="_accountsReceivableGraphing"/>
513	<enumeration value="_accountsReceivableUnbilled"/>	513	<enumeration value="_accountsReceivableRegister"/>
514	<enumeration value="_adjustInventory"/>	514	<enumeration value="_accountsReceivableUnbilled"/>
515	<enumeration value="_adjustInventoryWorksheet"/>	515	<enumeration value="_adjustInventory"/>
516	<enumeration value="_adminDocs"/>	516	<enumeration value="_adjustInventoryWorksheet"/>
517	<enumeration value="_adpImportData"/>	517	<enumeration value="_adminDocs"/>
518	<enumeration value="_adpSetup"/>	518	<enumeration value="_adpImportData"/>
519	<enumeration value="_advancedAnalytics"/>	519	<enumeration value="_adpSetup"/>
520	<enumeration value="_allocationSchedules"/>	520	<enumeration value="_advancedAnalytics"/>
521	<enumeration value="_allowNonGLChanges"/>	521	<enumeration value="_advancedPDFHTMLTemplates"/>
		522	<enumeration value="_allocationSchedules"/>
		523	<enumeration value="_allowNonGLChanges"/>

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="vsoeDelivered" type="xsd:boolean" minOccurs="0"/>	1055	<element name="vsoeDelivered" type="xsd:boolean" minOccurs="0"/>
1055	<element name="chargeType" type="platformCommonType:ChargeRuleType" minOccurs="0"/>	1056	<element name="chargeType" type="platformCore:RecordRef" minOccurs="0"/>
1056	<element name="chargeList" type="platformCore:RecordRefList" minOccurs="0"/>	1057	<element name="chargeList" type="platformCore:RecordRefList" minOccurs="0"/>
1057	<element name="customFieldList" type="platformCore:CustomFieldList" minOccurs="0"/>	1058	<element name="customFieldList" type="platformCore:CustomFieldList" minOccurs="0"/>

2019.1 SOAP Schema Browser

The 2019.1 version of the [SOAP Schema Browser](#) is now available. You can find links to the SOAP Schema Browser in several places, including the following:

- The help topic titled [SOAP Schema Browser](#).
- The reference page for each supported record in the SOAP Web Services Records Guide. The [SuiteTalk SOAP 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 Plug-ins

SuiteCloud IDE plug-ins can be installed in integrated development environments (IDEs) for NetSuite platform development.

SuiteCloud IDE plug-ins for 2019.1 include the following features and behavior changes:

- [2019.1 Plug-in for Eclipse is Now Available for Download](#)
- [2019.1 Plug-in for WebStorm is Now Available for Download](#)
- [Ability to Upload a Single File, Multiple Files, or File Cabinet Folders to Your Account](#)
- [Displaying the WebStorm SDF Logs Window When Deploying Your Project](#)

Generally, 2019.1 plug-in behavior changes are designed to support the SuiteCloud Development Framework. In addition, SuiteCloud IDE plug-ins for versions 2017.1 and later have compatibility requirements. The version of your plug-in must match the version of your NetSuite account before you can use the plug-in to create SuiteCloud Development Framework (SDF) projects. For information about additional features that impact SuiteCloud IDE plug-ins, see the release note for [SuiteCloud Development Framework](#).

2019.1 Plug-in for Eclipse is Now Available for Download

SuiteCloud IDE 2019.1 plug-in for Eclipse is now available for download. For more information, see the help topic [Updating Eclipse for Use with SuiteCloud IDE Plug-in](#).



Important: When your account is upgraded to 2019.1, your SuiteCloud IDE plug-in for Eclipse is not updated automatically to the 2019.1 version. After your account upgrade, you must manually update the SuiteCloud IDE plug-in for Eclipse.

2019.1 Plug-in for WebStorm is Now Available for Download

SuiteCloud IDE 2019.1 plug-in for WebStorm is now available for download. For more information, see the help topic [Update SuiteCloud IDE Plug-in for WebStorm](#).



Important: When your account is upgraded to 2019.1, your SuiteCloud IDE plug-in for WebStorm is not updated automatically to the 2019.1 version. After your account upgrade, you must manually update the SuiteCloud IDE plug-in for WebStorm.

Ability to Upload a Single File, Multiple Files, or File Cabinet Folders to Your Account

In previous releases, you could only upload single files or folders from an SDF project to your account in WebStorm.

As of 19.1, you can upload files or folders individually to your account in Eclipse as well. For more information, see the help topic [Uploading Files or Folders to Your Account with SuiteCloud IDE Plug-in for Eclipse](#).

Displaying the WebStorm SDF Logs Window When Deploying Your Project

In previous releases, the SDF Logs window opened in WebStorm every time you deployed your project.

As of 19.1, there is a notification with the outcome of the deployment process. Regardless of whether it is successful or unsuccessful, you can click a link in the notification to open the SDF Logs window.

For more information, see the help topic [Deploying an SDF Project to Your NetSuite Account With SuiteCloud IDE Plug-in for WebStorm](#).

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 [Customizations Supported by SuiteCloud Development Framework](#).

With the release of SuiteCloud Development Framework, the SuiteCloud Terms of Service were updated 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/termservice>.

[View the SuiteCloud Development Framework 2019.1 New Feature Training](#).

NetSuite 2019.1 includes the following enhancements to SuiteCloud Development Framework features:

- [SDF SDK 2019.1 is Now Available for Download](#)
- [New Standard Role for Developer](#)
- [Ability to Execute Installation Scripts in a SuiteApp Project Deployment](#)
- [Installation Preferences Now Support File and Folder Locking in SDF SuiteApps](#)
- [SDF Now Supports Custom Content Type Records for SuiteCommerce Site Management](#)
- [Roles in SDF Now Support Restrictions](#)
- [New Workflow Enhancements Supported in SDF](#)
- [Map/Reduce Script Deployments Now Require Title Elements](#)
- [Copy to Account \(Beta\): Copy a Custom Record Between Your Accounts](#)
- [New SDF CLI Commands to Upload Files or Folders](#)
- [New Deploy Process in the SDF CLI](#)

Generally, SDF features are supported by SuiteCloud IDE plug-ins. SuiteCloud IDE plug-ins for versions 2017.1 and later have compatibility requirements. The version of your plug-in must match the version of your NetSuite account before you can use the plug-in to create SuiteCloud Development Framework (SDF) projects. For information about additional features that may impact SDF, see the release notes for [SuiteCloud IDE Plug-ins](#).

SDF SDK 2019.1 is Now Available for Download

SDF SDK 2019.1 is now available. You can download this file to install SDF CLI. See the help topic [Installing SDF SDK](#).

The SDF CLI is used 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, CLI acts as an alternative to SuiteCloud IDE. For more information about SDF CLI, see the help topic [Command Line Interface Guide](#).

SDF SDK is supported on Windows, Linux, and Mac OS X. For more information, see the help topic [SDF SDK Installation Prerequisites](#).

As of 2019.1, you only need to download a package containing SDF SDK and extract its contents in your machine to run SDF CLI. See the help topic [Installing SDF SDK](#).

New Standard Role for Developer

In previous releases, NetSuite did not include a standard Developer role to use with SDF. You either required the administrator role or an administrator had to create a custom role and provide access to several permissions.

As of 2019.1, administrators can customize and assign the new Developer role to SDF users. To change the permissions that users are assigned with the standard Developer role, you must customize the Developer role. To find the Developer role, go to Setup > Users/Roles > User Management > Manage Roles (Administrator) and choose **Developer** from the list of roles.

The new Developer role includes all permissions required to work with SDF. See the help topic [Standard Roles Permissions Table](#). Administrators should enable SDF-supported features before customizing the Developer role for SDF users. See the help topic [Enabling SDF in Your NetSuite Account \(Admin Only\)](#). If your customized role includes one of the permissions listed in the help topic, [Permissions Requiring Two-Factor Authentication \(2FA\)](#), you should follow the procedure to use a 2FA-enabled role with SDF. See the help topic [Getting Started with Token-based Authentication](#).

You must customize the Developer role when working with SDF projects if it is one of the following:

- An SDF project that requires additional permissions that are not included with the standard Developer role.
- An SDF project that impacts standard record types.



Note: The customized role must have the appropriate permissions enabled for all the standard record types your project affects.

For more information, see the help topic [Customizing or Creating NetSuite Roles](#).

For more information, see the following:

- [NetSuite Roles Overview](#)
- [Assigning the Developer Role \(Admin Only\)](#)

Ability to Execute Installation Scripts in a SuiteApp Project Deployment

Prior to 2019.1, only bundle installation scripts were available for running SuiteScripts during a bundle installation. You could add bundle installation script entry points to run scripts before or after an installation or update. A script type to run during SuiteApp installations was not available. If you used SDF to deploy a SuiteApp project, you could not execute your installation scripts.

As of 2019.1, installation scripts for SuiteApp projects are supported with the new SDF installation script type. You can add run elements to the deploy file in your SuiteApp project to trigger execution of SDF installation scripts.

For information about using SDF installation scripts in a SuiteApp project, see the following topics:

- [Changing the SuiteApp Deploy File](#)
- [Using an SDF Installation Script](#)

Changing the SuiteApp Deploy File

Within the run element, you can reference the installation file path and script ID of the deployment record for the script you want to execute. The location of the run element within the deploy file determines the order that the deployment runs.

The following is an example of a deploy file with a run element that contains references to the SuiteScript file path and the script ID of the deployment record for the referenced SuiteScript:

```
<deploy>
  <run>
    <script>
      <path>~/Objects/customscript_install_script.xml</path>
      <deployment>customdeploy1</deployment>
    </script>
  </run>
</deploy>
```

In the following example, the run element indicates that the following actions will occur for each of the three scripts when they are executed:

1. The script file is uploaded.
2. The script record and deployment is created from the XML definition.
3. The script is executed.



Note: Installation scripts are executed as the role you used to deploy the SuiteApp project.

```
<deploy>
  <files>
    <path>~/FileCabinet/SuiteApps/com.example.scriptdemo/*</path>
  </files>
  <run>
    <script>
      <path>~/Objects/customscript_execute.xml</path>
      <deployment>customdeploy_before_objects</deployment>
    </script>
  </run>
  <objects>
    <path>~/Objects/*</path>
  </objects>
  <run>
    <script>
      <path>~/Objects/customscript_execute2.xml</path>
      <deployment>customdeploy_1</deployment>
    </script>
  </script>
```



```

<path>~/Objects/customscript_execute.xml</path>
<deployment>customdeploy_after_objects</deployment>
</script>
</run>
</deploy>

```

Using an SDF Installation Script

NetSuite 2019.1 introduces a new server-side SuiteScript 2.0 script type called SDF installation script. You can create script records and script deployments for instances of this new script type the same way you can for other SuiteScript 2.0 scripts.

Use this script type when you want to write code that performs tasks during an SDF deployment to your target account. Tasks include setup, configuration, and data management tasks that would otherwise have to be completed by account administrators. The following are some examples:

- Trigger code to verify the account
- Customize the installation
- Set up the target account
- Prevent installation if proper setup has not occurred
- Migrate existing data

To execute the script during your SuiteApp project deployment, the script must be associated with a script record and deployment record. Script records and deployments can be created in your project as XML representations. For more information, see the help topic [SuiteCloud Development Framework XML Reference](#).

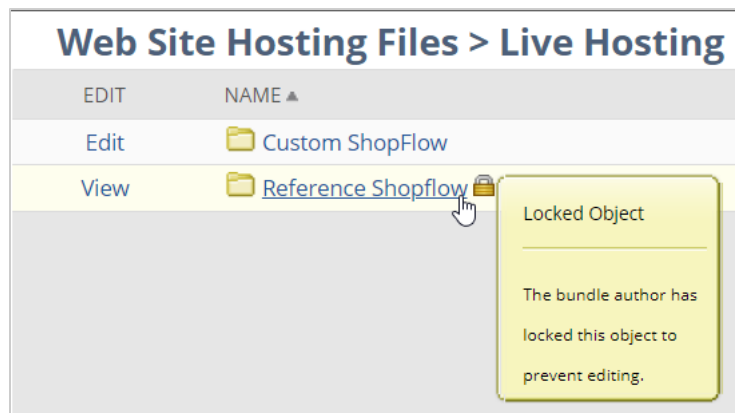
SDF installation scripts are governed by a maximum of 10,000 units per execution. For more information, see the help topic [Script Usage Unit Limits](#).

Installation Preferences Now Support File and Folder Locking in SDF SuiteApps

Support for installation preferences was added in 2018.1. It included the ability to hide files or folders and lock most custom objects.

As of 2019.1, locking installation preferences are extended to files and folders.

A locked file in a NetSuite account is protected from being edited, copied, or downloaded as XML. When you lock a folder, you lock all files and folders it contains.



You can list the path and name of a single file that you want to lock when your project is deployed in the `locking.xml` file in the `InstallationPreference` folder. To lock multiple files when your project is deployed, you can use the path and name of a folder, an `appliesTo` attribute, and a wildcard in the `locking.xml` file.

From the `Installation` folder of a SuiteApp project, the `locking.xml` file uses the following lines:

```
<preference type="LOCKING" defaultAction="UNLOCK">
  <apply action="LOCK">
    <path> ~/FileCabinet/SuiteApps/com.example.mysuiteapp/file132.js</path> <!--lock a single file-->
  </apply>
</preference>
```

The example above sets the preference type to `LOCKING`, the default action to `UNLOCK`, the apply action to `LOCK`, and references those preferences to apply to `file132.js`.

To include folder contents, such as all of the files in your SuiteApp, you must include a wildcard (*) and the `appliesTo` attribute in the path:

```
<path appliesTo="FILES">~/FileCabinet/SuiteApps/com.example.myfiles/*</path> <!--locks all the files under the ~/
FileCabinet/SuiteApps/com.example.myFiles folder-->
```

If you reference a folder path that uses a wildcard, you must also set the `includeRoot` attribute:

```
<path appliesTo="FILES_AND_FOLDERS" includeRoot="F">~/FileCabinet/SuiteApps/com.example.myfiles/folderA/*</path>
<!--locks all the files and folders within the ~/FileCabinet/SuiteApps/com.example.myfile/ folder-->

<path appliesTo="FILES_AND_FOLDERS" includeRoot="T">~/FileCabinet/SuiteApps/com.example.myfiles2/folderA/*</
path> <!--locks all the files and folders of ~/FileCabinet/SuiteApps/com.example.myfiles2/ including the folder
specified-->
```

This locking preference can be applied to items in folders supported by SDF:

- SuiteApps. For example, `~/SuiteApps/<application-ID>/<subfolder-name>`.
- Web Site Hosting. For example, `~/FileCabinet/Web Site Hosting Files/<hosting-root-folder-name>/SSP Applications/<application-ID>`.

You must apply content protection for each project deployment to apply the installation preferences you specified in the `InstallationPreferences` folder of a SuiteApp project.

For more information, see the following topics:

- [Locking Files in an SDF SuiteApp Project](#)
- [Installation Preferences in a SuiteApp Project](#)
- [Setting Installation Preferences in SuiteCloud IDE Plug-in for WebStorm](#)
- [Using the Content Protection Option to Apply Installation Preferences](#)

SDF Now Supports Custom Content Type Records for SuiteCommerce Site Management

As of 2019.1, SDF supports CMS content type records for use with site management tools. In NetSuite, these records are located under **Lists > Web Site > CMS Content Types**. For more information, see the help topics [Custom Content Type](#) and [CMS Content Type Record](#).

The following is an example of a custom content type record object in SDF that uses all available fields:

```
<cmscontenttype scriptid="custcontenttype_sample">
  <customrecordid>[scriptid=customrecord_childdatetime]</customrecordid>
  <description>This is the description of the content type.</description>
  <iconimagepath>/netsuite.com/sample_image.svg</iconimagepath>
  <label>Sample CCT</label>
  <name>Sample Custom Content Type</name>
</cmscontenttype>
```

For more information, see the following:

- [CMS Content Types as XML Definitions](#)
- [cmscontenttype](#)

Roles in SDF Now Support Restrictions

You can now apply any type of restriction to custom roles in SDF. Restrictions define the set of records that users of an assigned role can view or edit for specific record types, such as employees. For more information, see the help topic [Permissions and Restrictions](#).

SDF now supports the following restriction fields for custom roles:

- The Employee Restrictions field, including the ability to view employee records that are not available for editing.
- The Do Not Restrict Employee Fields field, which determines whether users can select any employee.
- The Restrict Time and Expenses field, which determines whether users can view or edit those fields.
- The Restrictions sublist, where you can select a segment, a segment restriction, whether to allow viewing, and whether to apply restrictions to items.

The following is an example of a custom role object in SDF that uses the new restriction fields:

```
<role scriptid="customrole_restrictsample">
  <centertype>ACCOUNTCENTER</centertype>
  <name>Role Restriction Sample</name>
  ...
  <employeerestriction>UNASSIGNED</employeerestriction>
  <employeeviewingallowed>T</employeeviewingallowed>
  <restricttimeandexpenses>T</restricttimeandexpenses>
  ...
  <recordrestrictions>
    <recordrestriction>
      <segment>LOCATION</segment>
      <restriction>OWNONLY</restriction>
      <itemrestricted>T</itemrestricted>
      <viewingallowed>T</viewingallowed>
    </recordrestriction>
    <recordrestriction>
      <segment>DEPARTMENT</segment>
      <restriction>DEFAULTTOWN</restriction>
      <itemrestricted>F</itemrestricted>
      <viewingallowed>F</viewingallowed>
    </recordrestriction>
  </recordrestrictions>
```

```

    <segment>CLASS</segment>
    <restriction>UNASSIGNED</restriction>
    <itemrestricted>T</itemrestricted>
    <viewingallowed>F</viewingallowed>
  </recordrestriction>
</recordrestrictions>
</role>

```

For more information, see the following:

- [Roles and Permissions as an XML Definition](#)
- [role](#)

New Workflow Enhancements Supported in SDF

The following 2019.1 SuiteFlow feature enhancements are supported in SDF so that they can be used with custom Workflow objects:

- [New Create Line Action](#). A new createlineaction structure has been added to the workflowactiongroup and workflowactions structures.
- [Enhancements to Release Status](#). The new SUSPENDED Workflow Release status is available. In addition to the new release status, the NOTRUNNING status has been renamed to NOTINITIATING. The NOTRUNNING status is still supported for backwards compatibility.
- [Enhancement to Set Field Display Label Action](#).
- [Enhancement to Set Field Mandatory Action](#).

For more information, see the following:

- [Workflows as XML Definitions](#)
- [workflow](#)

Map/Reduce Script Deployments Now Require Title Elements

Prior to this release, you could not specify script deployment titles for Map/Reduce custom objects in SDF. As of now, a new mandatory **title** element has been added to the **scriptdeployment** structure of Map/Reduce objects.



Important: The title element is mandatory, meaning that you must add them to all your existing Map/Reduce script deployments in your SDF projects.

The following is an example of a map/reduce custom object that has a single deployment script. The deployment includes the title element:

```

<mapreducescript scriptid="customscript_samplemapreduce">
  ...
  <scriptdeployments>
    <scriptdeployment scriptid="customdeploy_my_mapreduce_script">
      <bufferize>1</bufferize>
      <concurrencylimit>1</concurrencylimit>
    </scriptdeployment>
  </scriptdeployments>
</mapreducescript>

```

```

<isdeployed>T</isdeployed>
<loglevel>DEBUG</loglevel>
<queueallstagesatonce>T</queueallstagesatonce>
<runasrole>ADMINISTRATOR</runasrole>
<status>NOTSCHEDULED</status>

<title>My New Deployment Title</title>

<yieldaftermins>60</yieldaftermins>
<recurrence>
  <single>
    <repeat></repeat>
    <startdate>2019-01-23</startdate>
    <starttime>02:00:00Z</starttime>
  </single>
</recurrence>
</scriptdeployment>
</scriptdeployments>
...
</mapreducescript>

```

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

New SDF CLI Commands to Upload Files or Folders

In previous releases, you could only upload files or folders from an SDF project to your account by deploying the project.

As of 2019.1, you can upload files or folders individually to your account from your SDF project.

The file or folder must be within a File Cabinet folder supported by SDF. Four areas of the file cabinet are currently supported: SuiteScripts, SuiteApps, Templates, Web Site Hosting Files.

- If you are using SDF CLI, run one of the following commands:

- [uploadfiles](#)
- [uploadfolders](#)

If the files or folders already exist in your account, they are overwritten by the ones you upload with the commands. If the folder containing the file did not exist in the account, SDF creates the folder in the account during the upload process.

As of 2019.1, the upload process has been enhanced and is much faster when uploading files that are already in your File Cabinet.

For more information about using SDF CLI, see the help topic [Command Line Interface Guide](#).

New Deploy Process in the SDF CLI

In previous releases, all objects and files within your project structure were included in the ZIP file that was deployed. Regardless of whether they were used in the project.

As of 2019.1, only those files and objects referenced in the deploy.xml file are included in the ZIP file to be deployed. However, for installation script and installation preference objects, files referenced within their xml structure are also included in this ZIP file. Even if these files are not part of the deploy.xml file.

This new deploy process reduces the size of a project if you are using developer dependencies, such as Node.js modules or testing libraries.

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

SuiteApps (Bundles) Released by NetSuite

NetSuite 2019.1 includes the following enhancements to SuiteApps released by NetSuite:

- [Accounting SuiteApps](#)
- [Administration SuiteApps](#)
- [SuitePeople SuiteApps](#)
- [Order Management SuiteApps](#)
- [Item Record Management SuiteApps](#)
- [Inventory Management SuiteApps](#)
- [Localization SuiteApps](#)
- [Manufacturing SuiteApps](#)
- [Non-Profit SuiteApps](#)
- [Food and Beverage SuiteApps](#)
- [Taxation SuiteApps](#)

Accounting SuiteApps

Following are the 2019.1 accounting enhancements to SuiteApps:

- [SuiteApprovals Version 2019.2](#)
- [Fixed Assets Management Enhancements](#)
- [Revenue/Expense Reclassification of Accounts by Region](#)

SuiteApprovals Version 2019.2



Important: The Early Access bundle for SuiteApprovals Version 2019.2 is now available to Sandbox accounts. The target production release date is November 2019.

SuiteApprovals version 2019.2 includes the following enhancements:

- **Extension to Requisition Records** – You can now create approval rules for requisition records. You can define any approval rule for requisitions in two ways:
 - Using the total line amount of the record as basis and then selecting an approval routing type: employee hierarchy or custom approval matrix.
 - Specifying an approval chain (employee hierarchy or custom) regardless of the total amount on the record.
- **Support for Cross-Subsidiary Approvals for Users with Appropriate Subsidiary Permissions**
 - You can now set up subsidiary restriction values on the employee record of approvers. This enhancement allows you to specify or add approvers from a subsidiary that is different from the subsidiary of an approval rule.

This change applies to all supported record types.

For more information, see the help topic [SuiteApprovals Version 2019.1](#).

Fixed Assets Management Enhancements

Fixed Assets Management (FAM) version 19.1 includes the following enhancements:

- [Lease Accounting](#)
- [FAM Usability](#)
- [Customize Report Template](#)
- [Source Values on FAM Reports](#)

Lease Accounting

The Lease Accounting feature is introduced in the Fixed Assets Management SuiteApp to comply with the IFRS 16 and ASC 842 standards for lease. This standard requires lessees to recognize nearly all leases and transfer all operating leases to the balance sheet starting on January 1, 2019.

This feature lets you perform the following tasks in the Fixed Assets Management SuiteApp:

- **Create a lease proposal** – The Lease Proposal record lets you propose a new lease, define the terms of the lease, add lease payments, and create the lease amortization schedule. The lease amortization schedule contains the lease payments, interest, and the related interest journals for the lease.
- **Add lease payments** – You can add your lease payments in one of two ways:
 - One at a time – This can be done through the **Lease Amortization** subtab of the Lease Proposal record.
 - By bulk – This can be done through CSV import. After importing the lease payments, you can generate the lease schedules through the Generate Lease Schedules page.
- **Create lease journal entries** – When the lease amortization schedules for the lease proposal have been generated and completed, the **Generate Lease Journal** button will be available in the Lease Proposal record. You can click the button to create the lease journal entry, and recognize your Right-Of-Use Asset and Lease Liability. The link to the lease journal is available on the Lease Proposal record.
- **Record lease interest** – This feature lets you recognize the interest amount per period. The interest amount is taken from the lease amortization schedule of the lease proposal. The Interest journal is then linked back to the Lease Proposal record.
- **Migrate lease details** – With the introduction of the Lease Accounting feature, the lease details on the **Lease** subtab of the asset record will no longer be used. The lease details of all newly-created lease assets will be available on the **Lease Proposal** subtab under the **Lease** subtab. You can migrate lease details to create a Lease Proposal record for the existing lease assets.

For more information, see the help topic [Fixed Assets Lease Accounting](#).

FAM Usability

- **Delete Assets** – Administrators are now able to delete incorrectly added assets. The assets must not be created from a proposal or transaction and must not have any associated depreciation journal entries. The system will delete the asset, tax methods, corresponding asset values, and depreciation histories for both asset and tax method.

For more information, see the help topic [Deleting Assets](#).

- **Precompute Depreciation Values in System Setup** – A **Precompute depreciation values** button has been added to the FAM System Setup page. You can click the button to manually trigger the pre-computation of depreciation values.

For more information, see

- **Changes to the Asset List** – When you view the Asset List (in Fixed Asset > Lists > Assets), you can now see the values for the Current Net Book Value and Cumulative Depreciation. The correct and current values will be reflected on the asset record when it is printed.
- **Migrate to Depreciation Schedule** – In the latest version of the Fixed Assets Management SuiteApp, all historical assets should already have asset values. Since there will be no need for the **Migrate to Depreciation Schedule** button, it will be removed from the FAM System Setup page.
- **Assets without Asset Values** – Starting with Fixed Assets Management 19.1, all assets currently in use should already have asset values. If the assets do not have asset values, the following fields will be removed or deleted from the system:
 - Current Net Book Value
 - Last Depreciation Amount
 - Last Depreciation Date
 - Last Depreciation Period
 - Prior Year NBV

If you still need these values, you can use a script to recover the asset values for the affected assets. For more information, see the help topic [Recovering Asset Values](#).

Customize Report Template

The ability to customize report templates through XML manipulation was introduced in an earlier version of the FAM SuiteApp. In FAM 19.1, you can now customize the FAM report template through the user interface. You can add fields from the asset and alternate depreciation record to the following report templates:

- Asset Register Report
- Depreciation Monthly Report
- Depreciation Schedule NBV Report
- Depreciation Schedule PD Report

You can set the custom template as the preferred template. You can also choose to remove all your customizations by reverting to the standard template. For more information, see the help topic [Customizing the Fixed Assets Report Template through the User Interface](#).

Source Values on FAM Reports

When you customize your asset report templates, the Asset Values record must also be updated accordingly. If you have included any of the following fields in your asset report template, you must edit the report line to update the source values:

- Current Net Book Value
- Last Depreciation Amount
- Last Depreciation Date
- Last Depreciation Period
- Prior Year NBV

For more information, see the help topic [Mapping Asset Values to FAM Reports](#).

Revenue/Expense Reclassification of Accounts by Region

The NetSuite Revenue/Expense Reclassification by Region SuiteApp is now available. This SuiteApp enables companies to reclassify their revenue or expenses based on the transaction's region.

The Revenue/Expense Reclassification by Region SuiteApp provides the following features:

- Define multiple child revenue or expense accounts based on subsidiary, region, item, item category, or tax rate.
- Batch processing of account reclassification based on region per transaction.

For more information, see the help topic [Revenue/Expense Reclassification by Region Overview](#).

Administration SuiteApps

Following is the 2019.1 administration enhancements to SuiteApps:

Application Performance Management (APM) Enhancements

Following are enhancements to the APM SuiteApp:

- [New Profiler Details to Analyze Timing Breakdown and Context](#)
- [Multi-Language Support for the APM SuiteApp](#)
- [CSV Export Option Added to APM Pages](#)
- [Exclusion of Internal Applications Data on the Concurrency Monitor](#)

New Profiler Details to Analyze Timing Breakdown and Context

APM version 1.10.0 introduces the Profiler Details tool that you can use to see the timing breakdown and context of an operation. It lets you analyze granular details about an operation so you can locate and correct performance bottlenecks. This tool displays statistics about the operation, a timeline of the execution, contextual information about each supported information type, and API calls. It includes information related to requests, records, scripts, workflows, searches, and web services.

Profiler Details is conveniently linked to various Application Performance Management (APM) tools, so you can immediately go to the page to analyze the root cause of a performance issue. The tool gathers parameters from the linked APM page to determine the information it will show on the Profiler Details page.



Important: After the upgrade, administrators will need to save access again for other roles and employees, so that these users will be able to use Profiler Details.

For more information about Profiler Details, read the help topic [Profiling Operations Performance](#).

Multi-Language Support for the APM SuiteApp

APM version 1.09 enables you to view select APM pages in multiple languages. Prior to this release, APM pages, which include their labels, field level help, links, statuses, and error messages, can be viewed only in the English language.

Note: Ensure that the Multi-Language feature is enabled, so you can view the APM SuiteApp in multiple languages. As an Administrator, go to Setup > Company > International. Verify that the **Multi-Language** box is checked.

You can view the following APM pages in your preferred language:

- Dashboard
- Page Time Summary
- Page Time Details
- SuiteScript Analysis
- Web Services Analysis
- Concurrency Monitor
- Search Performance Analysis
- Search Performance Details

The APM SuiteApp now supports the following languages:

- Chinese (Traditional)
- Czech
- Danish
- Dutch
- Finnish
- French (Belgium)
- French (Canada)
- French (France)
- German
- Indonesian
- Italian
- Japanese
- Korean
- Latin American Spanish
- Norwegian
- Portuguese (Brazil)
- Russian
- Spanish
- Swedish
- Thai
- Turkish
- Vietnamese

Note: Multi-language support applies only to features that were released prior to APM version 1.09. Support for features that are released along with version 1.09 will be available in a future release.

For more information about supported languages, read the help topic [Setting Language Preferences for the APM SuiteApp](#).

CSV Export Option Added to APM Pages

Prior to 2019.1, you can export data in CSV format only from the following tools: Performance Dashboard, Page Time Summary, and SuiteScript Analysis.

APM version 1.09 extends the CSV export option to the following APM tools:

APM Tool	Page or Window Name
SuiteCloud Processors Monitor	SuiteCloud Processors Monitor page
SuiteCloud Processors Job Details	SuiteCloud Processors Job Details page
Search Performance Details	Saved Search Logs popup window
Concurrency Details	Instance Details popup window
Web Services Analysis	Web Services Operation Logs popup window
	Web Services Record Processing Logs popup window

For more information about CSV export support on APM, read the help topic [Exporting Data from Application Performance Management](#).

Exclusion of Internal Applications Data on the Concurrency Monitor

As of 2019.1, requests that come from internal applications are excluded from the scope of the Concurrency Monitor tool in APM. This exclusion helps you monitor your concurrency usage more accurately, because the requests from the specified internal applications do not count toward your concurrency limit.

To start using the Concurrency Monitor dashboard, go to Customization > Performance > Concurrency Monitor.

For more information, read the help topic [Monitoring Web Services and RESTlet Concurrency](#).

SuitePeople SuiteApps

Following are the 2019.1 SuitePeople enhancement to SuiteApps:

- [Enhanced Access to Employee Reports](#)
- [HR Dashboard Components](#)
- [Employee Directory and Org Browser Enhancements](#)

Enhanced Access to Employee Reports

Employee Reports version 1.04.0 fixes an error that stops roles from viewing reports because they do not have Employee Reports permissions. Prior to the upgrade, Administrators must assign the permissions to SuiteApp users' roles to resolve this issue.

Starting with Employee Reports 1.04.0, the following changes will apply to the **Execute as Role** field on the Script Deployment page of the **ER Employee UE** script (ID: customdeploy_er_employee_ue):

Prior to ER 1.04.0	Starting with ER 1.04.0
set to Current Role	set to Administrator

Prior to ER 1.04.0, the script does not run unless the permissions are present. After the upgrade, the script will run with all permissions, and you will no longer have to add Employee Reports permissions to your custom role to use the SuiteApp.

Guidelines for Existing Employee Reports Users

- If you have added Employee Reports permissions to your custom roles, you will still be able to use the SuiteApp after the upgrade.
- Oracle recommends that you do not edit the **Execute as Role** field to a role other than **Administrator**. You may encounter an error if you use Employee Reports with the Advanced Employee Permissions feature enabled. This issue occurs if your role does not have enough permissions for **Birth Date**, **Age Group**, and **Birth Month** fields on employee records.

For information about the employee permissions that are automatically assigned to standard NetSuite roles, read the help topic [Advanced Employee Permissions and Standard NetSuite Roles](#).

Also see the following:

- [Employee Saved Search Reports](#)
- [Executing Scripts Using a Specific Role](#)

HR Dashboard Components

NetSuite 2019.2 introduces HR Dashboard Components SuiteApp version 1.0 for Human Resources Generalist (HRG), Chief People Officer (CPO), and Administrator roles.

HR Dashboard Components lets users with HR roles streamline tasks and strategies using preconfigured dashboard content. It enables you to quickly view demographics on your dashboard, compare HR metrics, and save time on creating visual aids and reports.

The SuiteApp includes the following dashboard content:

- **Workforce demographics portlet** – This custom portlet shows the breakdown of employee headcount across different demographic dimensions.
- **KPI scorecard portlet configuration** – This configuration sets up a performance scorecard that compares different human resource metrics.
- **Saved searches** – These saved searches display reports on diversity and expiring government IDs

These are readily available to be added on your dashboard after you install HR Dashboard Components. After you install the SuiteApp, updates for fixes and enhancements are automatically posted to your account without any need to update manually.

Guidelines for Existing SuitePeople Users

If you are using the **SuitePeople | Remediate Customize Rel SuiteApp** (Bundle ID: 219023), you can refer to the following table for some recommended actions to maximize your use of HR Dashboard Components. These will replace or update some of the elements of the SuiteApp with the HR Dashboard Components SuiteApp. You do not need to uninstall the existing SuiteApp.

Recommended Actions	Description
Add existing custom KPIs on the new KPI scorecard portlet configuration	If you have existing custom KPIs and want to display them with the HR Dashboard Components (HRDC) Human Resources KPIs in one portlet, you have to manually add your custom KPIs on the HRDC scorecard configuration.
Allow custom roles to access the Workforce Demographics portlet	The Workforce Demographics portlet is available to standard Administrator, Human Resources Generalist (HRG) and Chief People

Recommended Actions	Description
	Officer (CPO) roles by default. Add custom roles that will use the portlet by going to the script deployment page and adding the role in the Audience subtab.
Update or replace saved searches that were updated in HR Dashboard Components	<p>Replace dashboard elements or records that capture any of the following with similar saved searches found in HRDC:</p> <ul style="list-style-type: none"> ■ Expiring Visas ■ Expiring Passports ■ Expiring Driver's License ■ Diversity Report <p>You can also update the criteria of your saved searches to match those in the HRDC SuiteApp. The HRDC saved searches will give you a list of employees that matches the present definition of active employees.</p>
Use new KPI scorecard portlet configuration to replace SuiteSuccess Insights and Key Performance Indicators portlets	<p>Some of the KPIs use total active employee in their calculation. For this release, the total active employee saved search has been updated to incorporate the present definition of an active employee in SuitePeople.</p> <p>To ensure that the KPIs you use are consistent with the present definition, you can replace the SuiteSuccess Insights and Key Performance Indicators portlet with the HRDC Scorecard configuration.</p>

For more information, read the help topic [HR Dashboard Components](#).

Employee Directory and Org Browser Enhancements

Following are enhancements to the Employee Directory and Org Browser SuiteApp:

- [Administrators Can Use the Select All Box to Specify Roles](#)
- [Complete Employee List Appears in Google Chrome](#)

Administrators Can Use the Select All Box to Specify Roles

With Employee Directory and Org Browser SuiteApp version 1.07, Administrators can use the **Select All** box on the script deployment pages of the Employee Directory and Org Browser to provide all roles with access to the feature. In previous versions, checking the box results in error, so Administrators must hold the CTRL key and select each role.

For more information, read the help topic [Updating Required Scripts for the Employee Directory and Org Browser](#).

Complete Employee List Appears in Google Chrome

With Employee Directory and Org Browser SuiteApp version 1.07, users can see the complete list of employees on Google Chrome versions that are supported by NetSuite. Prior to this release, the SuiteApp may not show the expected number of employees found on the search results on Google Chrome.

Order Management SuiteApps

Following are the 2019.1 order management enhancement to SuiteApps:

- [Electronic Bank Payments Enhancements](#)

- [Inbound Shipment Management](#)
- [Time-Based Pricing SuiteApp Rename and Subscription UI Enhancements](#)
- [Electronic Invoicing Enhancements](#)
- [VeriTrans and PayU Payment Gateway Temporary Retirement](#)
- [Enhanced Validations and Defaulting Now Available](#)
- [Grid Order Management Enhancements](#)

Electronic Bank Payments Enhancements

Electronic Bank Payments version 2019.1 includes the following features:

- [SuiteTax Support on Electronic Bank Payment File Creation](#)
- [Support SuiteCloud Processors in Electronic Payments Queue Management](#)
- [Direct Debit Processing to use SuiteScript 2.0](#)
- [NetSuite SuiteApps License Client to Replace Advanced Electronic Bank Payments SuiteApp](#)
- [Enhancements to Japan Bank Fee Calculation to Payment Transactions](#)

SuiteTax Support on Electronic Bank Payment File Creation

Depending on the payment template, the Electronic Bank Payments SuiteApp uses the tax information on the entity record when processing payments and generating bank payment files. To ensure compatibility with the SuiteTax feature, a new field is added to the Payment File Template form. The **SuiteTax Bank File Template** field sources the default tax registration of the entity record.

If the SuiteTax feature is enabled in your account, the value in the new **SuiteTax Bank File Template** field will be used by default when processing payments and generating bank files. If this field is blank, the value in the **Bank File Template** field will be used.

For more information, see the help topic [Payment File Template Changes in NetSuite Electronic Bank Payments 2019.1](#).

Support SuiteCloud Processors in Electronic Payments Queue Management

In addition to supporting script deployments using script queues, you can also configure the Electronic Payments Queue Management to use script deployments configured for SuiteCloud Processors. SuiteCloud Processors ensures that more tasks are processed in shorter time frame without any need for complicated settings, and promotes effective use of resources.

Using the SuiteCloud Processors in Electronic Bank Payments, you can set the number of processors assigned to a map/reduce script deployment record through the **Concurrency Limit** field. The SuiteCloud Processors will automatically divide processing of the scripts used by the Electronic Bank Payments SuiteApp for generating payment files.

Direct Debit Processing to use SuiteScript 2.0

As of 2019.1, setting up of multiple queues for script deployments exclusive to Direct Debit functions will no longer be possible. Instead, you can assign processors through the Concurrency Limit field of the map/reduce script deployment record for Direct Debit.

This change is part of upgrading the Electronic Bank Payments SuiteApp by updating all functions for Direct Debit processing to use SuiteScript 2.0.

NetSuite SuiteApps License Client to Replace Advanced Electronic Bank Payments SuiteApp

As of 2019.1, the Advanced Electronic Bank Payments SuiteApp is deprecated and replaced by the NetSuite SuiteApps License Client SuiteApp. As part of this change, new error handling and license validation is added to the following advanced features of Electronic Bank Payments:

- **Advanced Electronic Bank Payment license is now required for Instant Bank File Generation feature** – As of 2019.1, license-based restriction now applies when you generate instant electronic bank payment file through Generate Bill or Customer Payment File page. The Generate Bill Payment File or Generate Customer Payment File page can be accessed from Payments > Bank File Generation.

Without an active license	With an active license
<p>If your account does not have an active Advanced Electronic Bank Payments license, the Company Bank Account list does not include company bank accounts that use the following:</p> <ul style="list-style-type: none"> □ A company bank detail record that uses standard templates that is not based in your account's country of operation. □ A company bank detail record that uses custom templates. 	<p>If you have an active Advanced Electronic Bank Payments license, the Company Bank Account list includes company bank accounts that use standard and custom templates regardless of your country of operation.</p>

- **Advanced Electronic Bank Payments license is now required to use Electronic Bank Payment APIs** – As of 2019.1, the Electronic Payments API is available only if your account has an active Advanced Electronic Bank Payment license. If you use the Electronic Bank Payments API to create custom Bill Payment Processing pages without an active license, you will receive an error message and will not be able to submit payment transactions using the custom Bill Payment Processing page.
- **Enhancements to Payment Batch Processing** – As of 2019.1, additional restrictions are added when using the Payment Batch Processing feature. If you do not have an active license, you will not be able to perform the following using Electronic Bank Payments:
 1. Manually refresh payment batches through Payment Batch List page. The **Bank Account** field will be disabled, and an error message will be displayed if you access the page without an active license.
 2. Payment batches that are scheduled to be created, updated, or closed automatically according to a payment schedule will not be processed. Instead, an email notification is sent to all account Administrators to inform that the payment schedule failed.

Enhancements to Japan Bank Fee Calculation to Payment Transactions

In Electronic Bank Payments SuiteApp version 2019.1, you can calculate the bank transfer fee based on the associated bank fee schedule when paying multiple vendor bills using Pay Bills. You can generate the payment file for electronic bank payment to reflect the payment amount with the bank fee applied.

For more information, see the help topic [Calculating Zengin Bank Fee when Processing Bill Payments](#).

Inbound Shipment Management

NetSuite 2019.1 updates the Inbound Shipment Add PO Items form to include user interface enhancements.

Collapsible headers enable you to better manage screen space by hiding or displaying some or all selected PO Items.

Within the PO Item header, you can select which PO Items to include or exclude in the shipment. This feature also enables you to edit column details, such as Quantity Expected or Expected Rate.

To learn more, see the help topic [Using Inbound Shipment Management](#).

Time-Based Pricing SuiteApp Rename and Subscription UI Enhancements

In 2019.1, the Time-Based Pricing SuiteApp will be renamed to Subscription Billing Enhanced UI. This update also includes an enhanced user interface for the subscription record. The enhanced UI aims to improve the flexibility in managing subscription pricing and increase user productivity by providing access to both subscription items and pricing intervals on a single display subtab.

The Subscription Billing Enhanced UI includes the following enhancements:

- [Pricing Interval UI Enhancements](#)
- [Recurring Amount on Pricing Intervals](#)
- [Support for Add-On Items on Subscription Records](#)
- [Subscription Record UI Enhancements](#)
- [Decimal Precision](#)
- [Flat Rate Discounts](#)

For more information about the enhancements for the Subscription Billing Enhanced UI, see the help topic [Subscription Billing Enhanced UI](#).

Pricing Interval UI Enhancements

Subscription Billing Enhanced UI version 19.1.3 includes an enhanced user interface for pricing intervals on subscription records.

- On pricing interval view mode, the Recurring Amount and Quantity (for non-usage items)/Included Quantity (for usage items) fields are shown in the header, followed by the price tiers, then the Price Details section. You can click the Price Details section to show or hide additional details about the price plan.
- On pricing interval edit mode, the fields are rearranged to show Quantity, Discount, and Recurring Amount grouped together.

For more information, see the help topic [Subscriptions with Subscription Billing Enhanced UI](#).

Recurring Amount on Pricing Intervals

With Subscription Billing Enhanced UI version 19.1.2, recurring amount data is available on the pricing intervals for recurring subscription lines on subscription records. On pricing interval view mode of draft subscriptions, the recurring amount value is shown in the header section of the pricing interval. When you edit the pricing interval, the recurring amount value is automatically updated if you make pricing changes that affect the recurring amount. For more information, see the help topic [Editing Subscription Lines and Price Intervals on Subscriptions](#).

Support for Add-On Items on Subscription Records

Subscription Billing Enhanced UI version 19.1.2 includes UI support for add-on items on subscriptions. You can add subscription items to new or existing subscriptions at the time of sale or during the subscription term. The Add-On button is available at the bottom of the subscription lines. When you save the changes to the subscription, you will no longer be able to delete the add-on items. However, you will be able to edit the item or add more items even after saving the subscription.

By default, you can select any active service or non-fulfillable non-inventory items as add-on items. If you want to modify the list of items that can be added to a subscription, you can define a saved search for add-on items. The SuiteApp will include a predefined item saved search that you can use as template to set up the add-on items list. After setting up the item saved search, you need to select it in the Add On Items Saved Search field on the General Preferences page for the company. For more information, see the help topic [Managing Add-On Items on Subscriptions](#).

Subscription Record UI Enhancements

Subscription Billing Enhanced UI version 19.1.1 includes the following enhancements to the subscription UI:

- **Removal of Pricing Subtab** – Pricing subtab is removed.
- **Enhancements to the Lines Subtab** – Subscription lines sublist on the Lines subtab is replaced with an enhanced UI that shows the subscription lines, price plans, and pricing intervals on a single subtab. Details shown on this subtab is based on the subscription plan and price book selected in the subscription header fields. Other information shown on Lines subtab include: Line #, Edit icon (on view mode) or Include box (on edit mode), subscription item type and billing mode under the subscription item name, and subscription item status.
- **Filtering Subscription Lines** – Filter the subscription lines by item name, item type, or status using the Filter icon on the top right corner of the Lines subtab.
- **Quick View** – Click the Quick View icon on the top right corner of the Lines subtab to see the pricing summary for the subscription lines. On the quick view pane, you can click the Expand icon to see an expanded view of the pricing summary.
- **Viewing and Editing Subscription Lines and Pricing Intervals**
 - On subscription view mode, you can open the subscription line record for editing by clicking the Edit icon. The subscription line record opens on a new browser tab. The subscription page will refresh after you save the changes that you made on the subscription line record.
 - On subscription edit mode, you can edit subscription lines with a Draft status.
 - You can check or clear the Include box for optional items. This box is checked by default and is not editable for required items.
 - When you edit a pricing interval, you can enter absolute dates or select a date from the date picker in the Start field.

- Quantity (Qty) field is added on the pricing intervals for non-usage subscription items. Default value for quantity is 1, but you can change the value to any number when you edit a pricing interval. When you make a copy of the pricing interval, the quantity is blank.
- Pricing intervals will also display the status based on the change orders applied to the subscription.

For more information, see the help topic [Subscriptions with Subscription Billing Enhanced UI](#).

Decimal Precision

Subscription Billing Enhanced UI version 19.1.0, the Subscription Billing Enhanced UI SuiteApp support rounding to eight decimal places for the Price, Quantity, and Discount fields on the subscription plan, price book, and subscription records. These fields also show up to eight decimal places.

For more information, see the help topic [Subscription Billing Enhanced UI](#).

Flat Rate Discounts

The Discount field on the subscription plan, price book, and subscription records support flat rate discounts. In the previous version, only percentage discount is supported. In Subscription Billing Enhanced UI version 19.1.0, when you enter a numeric value in the Discount field, it is considered a flat rate discount. To specify a percentage discount, you must enter a numeric value with the percentage sign (%).

For more information, see the help topic [Editing Subscription Lines and Price Intervals on Subscriptions](#).

Electronic Invoicing Enhancements

The Electronic Invoicing SuiteApp version 4.0 includes the following new features and enhancements:

- [Custom Plug-in Implementations](#)
- [E-document Certification in Outbound E-document Process](#)
- [Multi-Subsidiary Customer and Vendor in Outbound E-document Process](#)
- [Restrict Editing of Transactions based on E-document Status](#)
- [Change to the View XML button](#)

Custom Plug-in Implementations

Custom plug-in Implementations are supported for the following:

- **E-document sending method** - On a new sending method record, a new **E-Document Sending Method Plugin Implementation** field is available where you can select the sending method custom plug-in implementation to use. For more information, see the help topic [Creating a Custom Plug-in Implementation for Sending E-Documents](#).
- **Inbound e-document validation** - On a new inbound validation plug-in record, you can select a custom validation plug-in from the new **Inbound E-Document Validation Plugin Implementation** field. For more information, see the help topic [Creating a Custom Plug-in for Inbound E-Document Validation](#).
- **Custom data source for e-documents** - On a new e-document template record, a new **Custom Data Source Plugin Implementation** field is available. In this field, you can select the custom data source plug-in implementation to add more field values to e-documents that will be generated. For more information, see the help topic [Creating a Custom Plug-in Implementation for E-Document Custom Data Source](#).

Existing scripts for sending methods and inbound validation will continue to work. But you must convert these scripts into plug-in implementations by NetSuite 2019.2. After the 2019.2, sending method and inbound validation scripts will not be supported anymore.

E-document Certification in Outbound E-document Process

E-document certification is now supported in the outbound e-document process. You can send e-documents to a certification authority or tax agency to be certified. The administrator can create a sending method to be used for certification by checking the new **Sending Method for Certification** box on a sending method record. A generated e-document with the associated certification sending method will display a **Certify E-Document** button, which when clicked sends the e-document to the certification authority. The XML file of successfully certified e-documents can be viewed by clicking a link from the **E-Document** subtab under Certified E-Document. New e-document statuses describe the progress of the e-document in the certification process. For more information, see the help topic [E-Document Certification in the Outbound Process](#).

Multi-Subsidiary Customer and Vendor in Outbound E-document Process

Multi-subsidiary customer and vendor is supported in the outbound e-document process. A new **Subsidiary** field on outbound e-document template and sending method records enables the administrator to select multiple subsidiaries. In addition, if only one outbound template or one sending method is associated with a customer or vendor, automatic selection of that template and sending method can be enabled on the transactions of the customer or vendor. To do this, you can check the new **Template and Sending Method Auto-selection** box on the **E-Document** subtab of a customer or vendor record. The template and sending method will be automatically selected as the default value of the **E-Document Template** or **E-Document Sending Method** field on the transaction records of the customer or vendor. For more information, see the help topic [Multi-subsidiary Support in the Outbound Process](#).

Restrict Editing of Transactions based on E-document Status

The administrator can restrict the editing of transactions based on the E-document status. On an outbound e-document template record, e-document statuses can be selected from the new **Restrict Editing of Transactions with E-document Status** field. Transactions with the selected e-document status will be locked for editing if the e-document template is associated with them.

Change to the View XML button

The **View XML** button on generated e-documents will no longer be available and will become a link on the **E-Document** subtab of the transaction record.

VeriTrans and PayU Payment Gateway Temporary Retirement

As of 2019.1, the following payment gateways are temporarily unavailable because of an ongoing gateway security integration update:

Payment Gateway	What is Changing?
Pay U	A warning message will display when you perform the following tasks in NetSuite using the PayU payment profile:

Payment Gateway	What is Changing?
	<ul style="list-style-type: none"> ■ Creating a PayU Payment Profile – The message will inform you that PayU is unavailable in NetSuite 2019.1. All sales orders created using PayU will automatically be placed on hold. ■ Using the PayU Payment Processing Profile on Transactions – Status of web orders created will automatically be set to Payment Hold. The message will inform you that the payment is on hold and you will need to check the PayU gateway portal to review the payment request of the order. After reviewing, you can either cancel the order or manually override the payment hold to continue processing the payment transaction.
VeriTrans	<p>A warning message will display when you perform the following tasks in NetSuite using the VeriTrans payment profile:</p> <ul style="list-style-type: none"> ■ Creating a VeriTrans Payment Profile – The message will inform you that VeriTrans is unavailable in NetSuite 2019.1 and you will be unable to use the payment processing profile. ■ Using the VeriTrans Payment Profile on Transactions – The message will inform you that a payment hold has been placed on the record when you use the payment profile on the following transactions: <ul style="list-style-type: none"> □ Get Authorization on Sales Order □ Capture on Cash Sale □ Charge Card on Cash Sale □ Sale on Customer Deposit and Customer Payment

Enhanced Validations and Defaulting Now Available

The Enhanced Validations and Defaulting SuiteApp provides a set of validations and default discounts that can be used in sales order transactions. This SuiteApp includes item set validation, negative inventory validation, and default discounts that can be tagged to a customer group. You can enable the validations and default discounts separately or use them in combination on sales order transactions.

For more information on this SuiteApp, see the help topic [Enhanced Validations and Defaulting](#).

Grid Order Management Enhancements

Grid Order Management SuiteApp version 6.01.0 includes the following enhancements:

- **CSV Import Changes for Purchase Order and Sales Order Transactions** – When you use CSV Import for purchase order and sales order transactions, both **Grid Item ID** and **Grid Template** fields are no longer required. The SuiteApp now autogenerates a grid item ID for each item in the transaction. The system also assigns the grid template based on the current grid template assignment.
- **Preferred Grid Template** – The **Preferred Grid Template** field is now available to easily assign grid templates to inventory matrix items. You can set the preferred grid template on the item record.
- **Customizable Grid Print Templates** – Alongside purchase order and sales order, the SuiteApp now enables you to customize grid print templates for the following transaction records:
 - Cash sale
 - Invoice
 - Packing slip
 - Picking ticket
 - Quote

To learn more about these features, see the help topic [Grid Order Management](#).

Item Record Management SuiteApps

Following is the item record management enhancement to SuiteApps:

Effective Date Pricing Now Available

The Effective Date Pricing SuiteApp enables you to schedule specific price changes in advance. You can select a start date to indicate when you want the price changes to take effect, and an end date to indicate when the item should revert to its original price. You can also set a permanent change in item price. The change takes effect on the selected start date for the price update. A scheduled script runs in the background to automatically update the item prices on the scheduled period.

For more information on this SuiteApp, see the help topic [Effective Date Pricing SuiteApp](#).

Inventory Management SuiteApps

Following are the 2019.1 inventory management enhancement to SuiteApps:

- [Supply Chain Management Version 2019.1](#)
- [Quality Management](#)

Supply Chain Management Version 2019.1

Supply Chain Management version 2019.1 now includes multi-language support. You can set your preferred language on the **General** subtab of the Set Preferences page (Home > Set Preferences)

For more information, refer to [Installing Supply Chain Management](#).

Quality Management

Following are the 2019.1 enhancements to the Quality Management SuiteApp:

- [Multi-Language Support](#)
- [Specification Triggering API](#)
- [Quality Tablet Queue Sidebar](#)
- [New Tablet Icons](#)

Multi-Language Support

NetSuite 2019.1 provides multi-language support for all lists, records, and fields throughout the Quality Management SuiteApp and Quality table interface for all the languages supported in the NetSuite user interface.

Specification Triggering API

The NetSuite 2019.1 Quality Management SuiteApp introduces a RESTlet based API that can be used by customers, partners, and NetSuite professional services to trigger inspections for business cases not yet supported by the Quality Management configuration. For example, Receiving Inspection and Manufacturing Inspection.

This API interfaces can GET (read), POST (create), and DELETE (cancel) new inspection requests that can be tracked and completed through the tablet interface.

Implemented as a REST API, these operations can be leveraged by outside software components and through SuiteScript REST support. They can also be called from local NetSuite customizations.

The API ensures separation of inspections triggered in this manner versus those that occur because of the SuiteApp configuration to safeguard customizations from interfering with standard behavior.

To learn more, see the [Quality Management REST API](#) documentation.

Quality Tablet Queue Sidebar

Quality Management 19.1 introduces a new collapsible sidebar that displays the same list of Pending and In-Work inspections as are in the primary Inspection Queue page.

This new feature enables quality engineers to view other pending inspections within the data entry form, without returning to the inspection queue.

The following screenshot displays the sidebar expanded:

The screenshot shows the 'Item Receipt #159' form. On the left, the 'Quality Specification Queue' sidebar is expanded, displaying a list of items: 'Lot item9' (Purchase Order #165, Test specification oct292), 'Serial Item 9' (Purchase Order #164, Serial Specification1), 'Serial Item 9' (Purchase Order #161, Serial Specification1), 'Serial Item 9' (Purchase Order #160, Serial Specification1), and 'G_InvItem'. The main form area shows details for 'Test specification oct292' and 'Lot item9', including transaction 'Purchase Order #165', quantity '15', and date '10-12ON-2018'. It also displays inspection controls for 'Test Inspection oct292' and 'Photo inspection2', both showing '1/2' progress and 'Pass: 0 Fail: 0'. At the bottom, it indicates 'Inspection # 1 of 2' and prompts to 'Enter lot serial number'.

The following screenshot displays the sidebar collapsed:

The screenshot shows the same 'Item Receipt #159' form, but the 'Quality Specification Queue' sidebar is collapsed. The main form area now displays the inspection details for 'Test Inspection oct292' and 'Photo inspection2' more prominently. It shows 'Inspection # 1 of 2' and prompts to 'Enter lot serial number' and 'Integer Field'.





You can also collapse the data entry page header to better use screen space while retaining quick access to valuable information.

The following screenshot displays the information pane collapsed:

The screenshot displays the NetSuite 'Item Receipt #159' interface. At the top, there is a navigation bar with a back arrow, the title 'Item Receipt #159', and icons for search, filter, settings, and share. Below the navigation bar, the user 'siddarth deo' is identified as a 'Quality Engineer'. The main content area is divided into two sections. The first section, titled 'Test Inspection oct292', includes a progress indicator '1/2' and a 'Pass: 0 Fail: 0' status. It contains the text 'Inspection # 1 of 2' and a 'Lot number: Enter lot serial number' field with the value 'oct292'. Below this is an 'Integer Field' with a text input 'Enter decimal value' and a 'Record' button. The second section, titled 'Photo inspection2', also has a progress indicator '1/2' and a 'Pass: 0 Fail: 0' status.

New Tablet Icons

New tablet icons offer the following features to provide intuitive access with minimal consumption of screen space:

- Click the menu icon () to expand the sidebar navigation pane. To collapse the pane, click the close icon ()
- Click the up-arrow icon () to collapse the information pane to provide additional screen space for data entry. Click the down-arrow icon () to expand the pane.

Localization SuiteApps

The following are the 2019.1 localization enhancements to SuiteApps:

- [China Localization: China Voucher List](#)
- [Enhancements to Japanese Invoicing and Localization Features](#)
- [Support for Singapore and Malaysia Electronic Payment File Formats](#)
- [Malaysia Invoice and Credit Note Templates](#)
- [More Electronic Payment File Formats for Singapore and Malaysia](#)
- [China Voucher List Enhancements](#)
- [New China Cash Flow Item Subsidiary Setup](#)
- [New SuiteApp for Mexico Localization](#)

China Localization: China Voucher List

The latest version of China Localization SuiteApp includes the Voucher List, a centralized management platform for accounting vouchers.

The Voucher List feature enables you to generate voucher lists for printing, reviewing voucher details, and tracking back to transaction records. It also provides more search filters such as transaction types, creator, transaction numbers, and general ledger (GL) accounts. This feature enables you to select and print specific vouchers as needed. You can also print single and multiple vouchers.

For more information, see the help topic [Generating the China Voucher List](#).

Enhancements to Japanese Invoicing and Localization Features


The Japan Localization SuiteApp version 19.1 includes the following new features and enhancements:

- [Support for Zengin XML Payment Format](#)
- [Enhancements to the Invoice Summary](#)
- [Support for Multi-Subsidiary Customer Feature](#)
- [Access to Purchase Tax by Tax Category Report](#)

Support for Zengin XML Payment Format

Japan Localization SuiteApp version 19.1 includes a Zengin XML template file that you can use for electronic bank payments in Japan.

To use this feature, you must first install or update to the latest version of the Electronic Bank Payments SuiteApp. Next, you must install or update the Japan Localization SuiteApp, which adds the Zengin XML template to the Electronic Bank Payments SuiteApp. Then, using the Electronic Bank Payments SuiteApp, you can generate electronic payment files in Zengin XML format when you transfer payments to vendors, employees, and partners.

 **Note:** Automatic calculation of bank fees is not yet supported using the Zengin XML template.

For more information, see the help topic [Support for Japan Zengin XML Payment Format](#).

Enhancements to the Invoice Summary

The following are enhancements to the invoice summary:

- **Using a Customer Saved Search for the Invoice Summary**

A customer saved search can be specified in the new **Customer Saved Search** field on the Generate Invoice Summary page. This feature enables you to apply a custom search for customers that you want to include in the invoice summary. For more information, see the help topic [Generating a Japanese Invoice Summary](#).

- **Adding Transaction Field Values to the Invoice Summary**

In the **Statement Search** field, you can select a public transaction saved search that specifies fields whose values you want to include in the invoice summary. This field is available on a Japan subsidiary record for OneWorld accounts or on the Company Information page for accounts that are not OneWorld. For more information, see the help topic [Adding Field Values to the Invoice Summary Output](#).

- **Changes to the Invoice Summary Template and Its Field**

The **Default Invoice Summary Template** field is renamed to **Invoice Summary Template**. This field is available on a Japan subsidiary record for OneWorld accounts or on the Company Information page for accounts that are not OneWorld. For more information, see the help topic [Setting the Invoice Summary Template](#). The default invoice summary template included in the SuiteApp also have changes.

- **Including Overdue Invoices in the Invoice Summary**

If the **Include Overdue Invoices** box is checked on the Generate Invoice Summary page, the search result will include invoices with the transaction closing date the same as the closing date of the payment term. Previously, the criteria is set to include only overdue invoices that were still open as of closing date. Also, the Invoice Summary Invoice Details section on the generated invoice summary will indicate the net amount. For more information, see the help topic [Generating a Japanese Invoice Summary](#).

■ **Statement Template Field**

The **Statement Template** field is removed from the invoice summary search results page. You can select a statement template in the **Invoice Summary Template** field on a Japan subsidiary record for OneWorld accounts, or on the Company Information page for accounts that are not OneWorld.

■ **Statement Date on the Invoice Summary**

The Statement Date on the invoice summary indicates the same date selected in the **Closing Date** field on the Generate Invoice Summary page.

Support for Multi-Subsidiary Customer Feature

In the invoice summary, you can include transactions of customers with Japan as secondary subsidiary if the following are set:

- **Include in Invoice Summary** box is checked on the invoice
- **Use Invoice Summary** box is checked on the customer record

After generating the invoice summary, the subsidiary is indicated on the search results page. For more information, see the help topics [Specifying Customers Who Use Invoice Summaries](#) and [Specifying Transactions for Inclusion in an Invoice Summary](#).

Access to Purchase Tax by Tax Category Report

By default, the Bookkeeper, Payroll Manager, A/P Clerk, and A/R Clerk roles do not have access to the Purchase Tax by Tax Category Report. You must create custom roles and grant them access to the report. For more information, see the help topic [Deductible Purchase Tax for Japan](#).

Support for Singapore and Malaysia Electronic Payment File Formats

Southeast Asia Localization SuiteApp version 2.00 includes the following electronic payment file formats for Singapore and Malaysia:

- DBS Singapore Ideal 3.0 Universal File Format Domestic Transfer
- DBS Singapore Ideal 3.0 Universal File Format International Transfer
- OCBC Singapore GIRO
- Maybank Malaysia 2E-RC Domestic Transfer
- Maybank Malaysia 2E-RC International Transfer

To enable the new electronic payment files, you must first install or update to Electronic Bank Payments SuiteApp version 19.1, and then install the Southeast Asia Localization SuiteApp. If done so, the Southeast Asia Localization SuiteApp adds the electronic payment files in the Electronic Bank Payments SuiteApp.

Using the Electronic Bank Payments SuiteApp, you can set up a bank record and specify Singapore or Malaysia payment file formats. Also, you can enter details of entity bank records for vendors, employees, or partners so that you can pay them through electronic transfer. To use international transfer payment formats, you must have a license for Advanced Electronic Bank Payments.

For more information, see the help topics [Singapore Payment Formats](#) and [Malaysia Payment Formats](#).

Malaysia Invoice and Credit Note Templates

Southeast Asia Localization SuiteApp version 3.00 includes templates for generating Malaysia invoice and credit note. The invoice and credit note contain the minimum required information for a vendor to issue

them to a customer. For more information, see the help topics [Malaysia Invoicing Features](#) and [Malaysia Invoice and Credit Note Templates](#).

When the templates are used for transactions with multiple tax codes, the generated invoice or credit note shows an SST Summary table that lists items grouped per tax code. For more information, see the help topic [Support for Transactions with Multiple Tax Codes](#).

When the templates are used for transactions in foreign currency, a column in the item description section displays amounts converted to Malaysian Ringgit (MYR), if it is the base currency. The SST Summary table also displays amounts in MYR. For more information, see the help topic [Support for Transactions in Foreign Currency](#).

More Electronic Payment File Formats for Singapore and Malaysia

Southeast Asia Localization SuiteApp version 3.00 includes additional electronic payment file formats for Singapore and Malaysia:

- Citibank Singapore XML Domestic Transfer
- Citibank Singapore XML International Transfer
- Citibank Singapore XML GIRO
- Citibank Malaysia XML Domestic Transfer
- Citibank Malaysia XML International Transfer
- Citibank Malaysia XML GIRO

To enable the new electronic payment files, you must first install or update to the latest version of the Electronic Bank Payments SuiteApp, and then install the Southeast Asia Localization SuiteApp. If done so, the Southeast Asia Localization SuiteApp adds the electronic payment files in the Electronic Bank Payments SuiteApp.

Using the Electronic Bank Payments SuiteApp, you can set up a bank record and specify Singapore or Malaysia payment file formats. Also, you can enter details of entity bank records for vendors, employees, or partners so that you can pay them through electronic transfer. To use international transfer payment formats, you must have a license for Advanced Electronic Bank Payments and the NetSuite SuiteApps License Client installed in your account.

For more information, see the help topics [Singapore Payment Formats](#) and [Malaysia Payment Formats](#).

New China Cash Flow Item Subsidiary Setup

The NetSuite China Localization SuiteApp adds a new Cash Flow Item set up. This feature enables companies to quickly define the Cash Flow Item for transactions per subsidiary without the need to configure the China Cash Flow Item field for every item.

For more information, see the help topics [Setting Up China Cash Flow Item for Subsidiary](#) and [Cash Flow Item Default Logic For China Cash Flow Values In Transactions](#)

China Voucher List Enhancements

China Voucher List now supports additional reporting formats for printing. The following reporting templates are added:

- Single Currency
 - Double Vouchers on A4 paper
 - Single Voucher on A4 paper

- Single Voucher on A5 Paper
- Multiple Currency
 - Double Vouchers on A4 paper
 - Single Voucher on A4 paper
 - Single Voucher on A5 Paper

In addition, China voucher list supports custom templates using FreeMarker. This feature enables you to define your China voucher printing templates according to business needs.

For more information, see the help topic [Setting Up Preferences for China Voucher List](#).

New SuiteApp for Mexico Localization

The Mexico Localization SuiteApp version 2.01.0 includes the following new features and enhancements:

- [Electronic Invoicing for Mexico](#)
- [Electronic Bank Payments for Mexico](#)
- [Financial Reports for Mexico](#)
- [Journal Entries for Mexico](#)
- [Enhancements to Electronic Accounting Files for Mexico](#)

This SuiteApp is compatible with the SuiteTax feature.

Electronic Invoicing for Mexico

Using the Mexico Localization SuiteApp, you can generate and process e-documents for Mexico in compliance with the requirements established by the SAT (Mexican Tax Administration Service).

To use the Mexico Electronic Invoicing feature, you must first install or update to the latest version of the Electronic Invoicing SuiteApp, and then install the Mexico Localization SuiteApp.

The following features are included in the Mexico Localization SuiteApp to support Electronic Invoicing for Mexico:

- **SAT Catalogs** – When you install the Mexico Localization SuiteApp, the latest catalogs from the SAT are stored in NetSuite as custom records. Mexico-specific custom fields are also provided to capture values from these catalogs.
- **Mexico Localization Field Mapping** – A mapping tool is included to enable you to map standard NetSuite fields to official SAT Catalog values.
- **PAC Configuration** – The SuiteApp comes with a custom record for configuring credentials and other relevant settings to connect NetSuite with Mexican PACs (certification providers). It also provides the XML template files and e-document sending methods that let you integrate with the PACs. Three pre-configured PACs are delivered with the SuiteApp: MySuite, ProFact, and Solución Factible.
- **PDF templates** – PDF templates are available to let you obtain printable versions of certified CFDIs with the information required by the SAT.

For more information, see the help topic [Electronic Invoicing for Mexico](#).

Electronic Bank Payments for Mexico

The Mexico Localization SuiteApp includes templates for generating bank payment files in the format specified by the major Mexican banks. Currently, Banamex CitiDirect and Santander Mexico templates are delivered with the SuiteApp.

To use these templates, you must first install the Electronic Bank Payments SuiteApp, and then the Mexico Localization SuiteApp.

For more information, see the help topic [Electronic Bank Payments for Mexico](#).

Financial Reports for Mexico

The Mexico Localization SuiteApp provides financial reports in the print format specific to Mexican accounting practices:

- Balance para México (Mexico Balance Sheet)
- Estado de Ingresos y Egresos para México (Mexico Income Statement: Profit and Loss Statement)
- Balance de Comprobación para México (Mexico Trial Balance)

For more information, see the help topic [Financial Reports for Mexico](#).

Journal Entries for Mexico

A new PDF layout is now available for generating Journal Entries for Mexico. A new workflow for approval of Mexico Journal Entry records is also included in the Mexico Localization SuiteApp.

For more information, see the help topic [Mexico Journal Entries Print Layout](#).

Enhancements to Electronic Accounting Files for Mexico

The following are enhancements to the Electronic Accounting Files for Mexico:

- **Bank Account field on the Account record** – This field replaces the old Bank Account Number field from the Tax Audit Files SuiteApp.
- **Operation Type field** – The Operation Type field is now available in checks. On an Expense Report with a Mexican vendor, you can now specify the operation type for each expense item.
- **SAT Catalogs** – When you install the Mexico Localization SuiteApp, the latest catalogs from the SAT are stored in NetSuite as custom records. Mexico-specific custom fields are also provided to capture values from these catalogs.
- **Mexico Localization Field Mapping** – A mapping tool is included to enable you to map standard NetSuite fields to official SAT Catalog values.

For more information, see the help topic [Mexico Electronic Accounting Files \(Mexico Localization\)](#).

Manufacturing SuiteApps

Following is the 2019.1 manufacturing enhancements to SuiteApps.

Advanced Manufacturing

The Advanced Manufacturing SuiteApp version 2019.1 includes the following enhancements and new features, and incorporates fixes to several customer-reported issues.

- [Production Unit of Measure](#)
- [Tablet Non-Routing Work Order Support](#)

Production Unit of Measure

NetSuite Advanced Manufacturing 2019.1 customers to report production quantities in an alternate Unit of Measure (UoM). You can now record assembly production in a unit of measure to minimize the need

for calculation. This new feature is available in the shop floor tablet in Normal and Real-Time modes, including both production and scrap reporting.

To learn more, see the help topic [Assemblies and Units of Measure](#).

Administration and Setup

The 2019.1 Advanced Manufacturing subtab enables you to select default Assembly Production Units. You can only select the units defined for the Item Unit Type. This selection is then copied to a new Production Units field for reference.

Assembly/Bill of Materials 100MN-UOM-Boxed-BinF

Primary Information

INTERNAL ID	UNITS TYPE	SUBITEM OF
107	Boxed	
ITEM NAME/NUMBER	STOCK UNITS	DESCRIPTION
100MN-UOM-Boxed-BinF	Each1	
UPC CODE	SALE UNITS	
	Each1	
DISPLAY NAME/CODE	BASE UNIT	
100MN-UOM-Boxed-BinF	Ea1	

Classification

SUBSIDIARY	DEPARTMENT	LOCATION
X Manufacturing		Pittsburgh
<input type="checkbox"/> INCLUDE CHILDREN	CLASS	

Purchasing / Inventory Manufacturing Sales / Pricing Accounting Revenue Recognition / Amortization Inventory Detail Web Store Related Records

SCRAP HANDLING

PRODUCT FAMILY

UNCONTROLLED BOM HANDLING

SCHEDULE CODE

BOM OPERATIONS
null.F>null.F>null.F

PRODUCTION UNITS TYPE
Boxed

PRODUCTION UNITS
Each1

Newly created work orders now inherit the production unit information from the assembly item. You can update this field when specific production needs will benefit from reporting alternative units. For example, change in production lines which package differently or location variations in production.

Work Order 10 IN PROCESS

Primary Information

ORDER #	ASSEMBLY	<input type="checkbox"/> MARK SUB-ASSEMBLIES PHANTOM	<input checked="" type="checkbox"/> WIP
10	100MN-UOM-Boxed-BinF		
SUBSIDIARY	LOCATION	QUANTITY	MANUFACTURING ROUTING
X Manufacturing	Pittsburgh	20	100MN-UOM-Boxed-BinF-Primary
		UNITS	NETSUITE WORK CENTER
		Each1	

Planning

PRODUCTION START DATE	SCHEDULING METHOD	<input checked="" type="checkbox"/> FIRMED
1/16/2019	Forward	
PRODUCTION END DATE	STATUS	
1/17/2019	In Process	

Administration

DATE	PROJECT	CUSTOMER
1/16/2019		

Items Operations Related Records System Information **Advanced Manufacturing** Production Data

Schedule

AM PLANNED START DATE	PLANNING PRIORITY CODE	<input checked="" type="checkbox"/> OK TO RELEASE
1/16/2019		
DELIVERY DATE	ASSEMBLY SCHEDULE CODE	

Production

ASSEMBLY SHOP CATEGORY	AM WORK ORDER CODE	<input type="checkbox"/> TRAVELER PRINTED
PRODUCTION UNITS TYPE	PRODUCTION UNITS	QUANTITY IN PRODUCTION UNITS
Boxed	Case	4

For a complete description of the administrative setup, see the help topic [Defining Administration Settings](#).

Production Units of Measure in the Tablet Interface

For consistency with NetSuite transaction counts and reporting, the Advanced Manufacturing tablet work queue continues to display work order expected and produced amounts in base units.

Work Queue

WORK CENTER: START DATE: END DATE: QUICK SEARCH:

PLANNED START	ITEM	WORK ORDER	OPERATION	ORDERED	PRODUCED	STATUS
12/12/2016	100MN	3	10	5	6.5	
1/10/2019	100MN-UOM-Eaches	4	10	20	18	
1/10/2019	100MN-UOM-Eaches	5	10	1	0	
1/15/2019	100MN-UOM-Eaches	6	10	10	8	
1/16/2019	100MN-UOM-Eaches	7	10	10	4	
1/16/2019	100MN-UOM-Eaches	8	10	10	2	
1/16/2019	100MN-UOM-Eaches	9	10	10	8.9889	
1/16/2019	100MN-UOM-Boxed-BinF	10	10	20	14.25	
1/16/2019	100MN-LC-UOM-Eaches	11	10	20	7	

The data entry form displays the expected unit of measure for production reporting in parenthesis in the **Quantity** field. Tables that display previously reported production, now list quantities as they were entered (without conversion to base units) with a reminder of the units of measure being used.

Assembly

Work Order - 10 Operation - 10 Item - 100MN-UOM-Boxed-BinF

Material Issue Labor Downtime Scrap **Production** Instructions Messages

START DATE * TIME * END DATE * TIME * DURATION

QUANTITY (CASE) *

ASSET INVENTORY STATUS

EMPLOYEE

START	END	QUANTITY (CASE)	ASSET	INVENTORY STATUS	EMPLOYEE
1/16/2019 04:00	1/16/2019 04:10	1	Assembly Cell 1	Good	SandeepGmail GmailUser (SandeepGmail GmailUser)
1/16/2019 04:00	1/16/2019 04:15	0.5	Assembly Cell 1		AdvMtg QA (AdvMtg QA)
1/16/2019 19:12	1/16/2019 19:12	1	Assembly Cell 1	DamagedAvailable	SandeepGmail GmailUser (SandeepGmail GmailUser)
1/16/2019 19:21	1/16/2019 19:21	0.35	Assembly Cell 1	Bad	SandeepGmail GmailUser (SandeepGmail GmailUser)

The following tablet interface updates are available in Advanced Manufacturing 2019.1:

- Production Normal and Real-Time mode
- Scrap Normal and Real-Time mode

Production reporting for conventional work orders does not support production units of measure.

For a complete overview of how to use the new tablet interface, see [Advanced Manufacturing](#).

Reporting

All Advanced Manufacturing records used to capture production reporting now include the following quantity fields:

- **Production Quantity**- base units of measure
- **Quantity in Production Units** - production quantity converted to the Production UoM

Both fields are guaranteed to be populated regardless of production units of measure setting for consistent search and reporting.

Tablet Non-Routing Work Order Support

NetSuite Advanced Manufacturing 2019.1 enables you to prioritize and execute conventional work orders (work orders without routings) in the Advanced Manufacturing shop floor tablet interface. Cleaner, more intuitive forms enable operators to record assembly production. The system automates the associated transaction processing.

Reconfigurable plugins automate inventory detail generation related to bin location and lot/serial numbers used in manufacturing. This can reduce shop floor data entry and help enforce rules for item consumption and production with respect to lot/serial information.

- Serialized assemblies is a beta feature. The contents of this feature are preliminary and may be changed or discontinued without prior notice. Any changes may impact the feature's operation with the NetSuite application. Oracle warranties and product service levels shall not apply to the feature or the impact of the feature on other portions of the NetSuite application. Oracle may review and monitor the performance and use of this feature. The documentation for this feature is also considered a beta version and is subject to revision.

Limited testing has been completed on plugin serial number retrieval and validation. You should test this feature in your sandbox account and report any issues so that subsequent releases can completely handle serialized items.

- Repeating the same work order component item multiple times (duplicate line item) is not supported by the default plugin implementations.

To learn more, see the help topic [Setting up Conventional Work Orders](#).

Non-Profit SuiteApps

Following is the 2019.1 non-profit enhancements to SuiteApps.

NFP Financials 1.1

NFP Financials addresses the unique accounting and reporting challenges that nonprofit organizations face. NFP stands for not-for-profit. As a vertical-specific SuiteApp, NFP Financials provides data structures for nonprofit accounting, constituent management, and grants. Nonprofit organizations can either integrate their fundraising solution with NetSuite, as the data model provides structured integration points, or the SuiteApp can be used as a minimally viable fundraising management solution.

NFP Financials 1.1 includes enhancements to restrictions, custom records, and subtabs for Grant and Program records.

For more information about NFP Financials, see the help topic [Non-Profit Financial Management](#).

Food and Beverage SuiteApps

Following are the 2019.1 enhancements to Food and Beverage SuiteApps:

- [Allergen Statements](#)
- [Order Guides](#)

Allergen Statements

In the Food and Beverages industry, it is essential to be able to identify Allergen information because consumers may be allergic to a specific allergen. The Allergen Statements SuiteApp version 1.0.0 enables the identification of relevant allergen information on items.

The SuiteApp provides the ability to add allergen information to items and then print an allergen statement for each item in PDF format. You can select the allergens from the **Allergen** subtab on the Items page.

Following are the bundle details:

- Name: Allergen Statements
- Bundle ID: 282582
- Availability: Public

Allergen Statements is a managed SuiteApp that is automatically updated whenever enhancements or new features are added.

For more details, see the help topic [Allergen Statements](#).

Order Guides

Order guides are predefined lists of items that customers can order from on a regular basis. Order guides enable you to add any or all of the predefined items in bulk to a sales order.

Using the Order Guides SuiteApp, you can create an order guide per customer or a template that you can assign to multiple customers. You can create an order guide for a group of customers, such as pizza restaurants. Add the list of items, like flour and cheese, which they may order on a regular basis. For each customer, you can further customize the list by adding more items based on recent orders. On sales orders, you can use one or more order guides to add the items.

Following are the bundle details:

- Name: Order Guides
- Bundle ID: 275880
- Availability: Public

Order Guides is a managed SuiteApp that is automatically updated whenever enhancements or new features are added.

For more details, see the help topic [Order Guides](#).

Taxation SuiteApps

Following are the 2019.1 taxation enhancements to SuiteApps:

- [Making Tax Digital Support for UK VAT](#)
- [Enhancements to Making Tax Digital for UK VAT](#)
- [New China Golden Tax System API](#)
- [New China Golden Tax System API](#)
- [New Country Tax Reports for SuiteTax](#)
- [Malaysia Sales and Service Tax \(SST-02\) Return](#)
- [Malaysia Sales and Service Tax \(SST-02\) Return Updates](#)

- [India Localization SuiteTax Engine GST Enhancements](#)
- [India Localization SuiteTax Reports Enhancements](#)
- [Germany Monthly/Quarterly VAT Return Update](#)
- [Germany Annual VAT Return Updates](#)
- [Belgium Intrastat Report Update](#)
- [Mexico Reduced VAT Rate](#)
- [Mexico Tax Audit Files Field Mapping Update](#)
- [France Fichier d'Ecritures Comptables \(FEC\) Enhancement](#)
- [Mexico Declaración Informativa de Operaciones con Terceros \(DIOT\) Enhancement](#)

Making Tax Digital Support for UK VAT

Beginning April 1, 2019, all UK VAT-registered businesses with a taxable turnover above £85,000 must use the Making Tax Digital (MTD) system as mandated by Her Majesty's Revenue and Customs (HMRC).

In NetSuite, UK VAT-registered companies can use the Making Tax Digital for VAT feature to digitally keep their VAT records, generate VAT Returns, and submit the UK VAT100 Return online to HMRC.

Using the MTD for VAT feature, you can:

- Digitally store and maintain VAT records
- Generate and submit the UK VAT100 Return online to HMRC
- Export the VAT100 Return in an Excel file (.xls)
- Consolidate the VAT100 Return Excel file with VAT reports from other systems, incorporate adjustments, and submit the final VAT100 Return to HMRC using a CSV file (.csv)
- Retrieve previously submitted VAT100 Returns from HMRC
- View the MTD VAT Return submission history

This feature requires the International Tax Reports SuiteApp. For more information about this SuiteApp, see the help topic [International Tax Reports](#).

To know more about the Making Tax Digital for VAT feature, see the help topic [Making Tax Digital for VAT](#).

Enhancements to Making Tax Digital for UK VAT

Previously, you can access the MTD for UK VAT feature by going to Reports > VAT/GST > Tax Reports (International).

In version 3.108.0 of the International Tax Reports SuiteApp, the MTD for UK VAT feature is moved to a new page. The UK MTD Submit Via CSV is created to support MTD VAT return submissions in CSV file format. You can access the new MTD for UK VAT feature by going to Reports > VAT/GST > UK MTD Submit Via CSV.

For more information, see the help topic [Submitting an MTD VAT Return in a CSV File](#).

UK Making Tax Digital (MTD) Submission Headers

International Tax Reports version 3.109.0 includes submission header information in the UK Making Tax Digital (MTD) report. It is now mandatory for all software to supply submission header information and contents to comply with Her Majesty's Revenue and Customs (HMRC) regulations to prevent fraud.

For more information, see the help topic [Submitting MTD VAT Returns to HMRC](#).

New China Golden Tax System API

Partners and customers who use the China Localization SuiteApp can now build integrations with China Golden Tax System for NetSuite. The China Localization Golden Tax System API is a RESTful based API that enables applications to pull transaction data and update VAT status.

For more information, see the help topic [Enabling and Configuring China Golden Tax System Integration](#).

New Country Tax Reports for SuiteTax

The SuiteTax Reports SuiteApp enables you to generate localized tax reports by providing editable templates. Using this SuiteApp, you can choose the transactions that you want to include in your tax reports. Supported reports include VAT/GST returns, supplementary VAT/GST reports, EU Cross-Border reports, and Tax Audit Files. To see the full list of country tax reports supported by SuiteTax Reports and read other information about this SuiteApp, see the help topic [SuiteTax Reports](#).

For more information on customizing localized tax returns in SuiteTax Reports, see the help topic [Customizing Localized Tax Returns](#).

Malaysia Sales and Service Tax (SST-02) Return

International Tax Reports version 3.103.0 now includes the following country forms for Malaysia Sales and Service Tax Returns:

- **Malaysia Sales Tax Return (SST-02)** – This worksheet automatically generates details and related values for Part A: Registered Manufacture / Registered Person Particulars and Part B: Value of Tax Payable for Goods (Sales, Disposed, Own Use).
- **Malaysia Service Tax Return (SST-02)** – This worksheet automatically generates details and related values for Part A: Registered Manufacture / Registered Person Particulars and Part B2: Value of Tax Payable for Services (Services Performed, Own Use).

For more information, see the help topic [Malaysia SST-02 Return](#).

Malaysia Sales and Service Tax (SST-02) Return Updates

The Malaysian tax authority has updated the Malaysia Sales and Service Tax Returns (SST-02) to include declaration of Sales and Service Tax Deduction and the Total Value of Exempted Taxable Services. As a result, International Tax Reports version 3.109.0 includes updates to the Malaysia SST-02 Returns to support the following editable boxes: :

- Box 13a: Tax Deduction from Credit Note
- Box 13b: Sales Tax Deduction
- Box 13c: Service Tax Deduction
- Box 18c: Total Value of Exempted Taxable Services

For more information, see the help topics [What Goes Into Each Box - Malaysia Sales Tax \(SST-02\)](#) and [What Goes Into Each Box - Malaysia Service Tax \(SST-02\)](#).

India Localization SuiteTax Engine GST Enhancements

India Localization SuiteTax Engine version 2019.1.1 includes the following features:

- [E-Way Bill for India](#)

- [Support Exporting Goods and Services Under GST](#)
- [Support Importing of Goods and Services under GST](#)
- [Statutory Adjustment Journal Record](#)
- [Support Display of GST Tax Information when Printing Invoice Transactions](#)

E-Way Bill for India

In NetSuite, GST-registered companies under India subsidiary can now use the E-Way Bill feature to set up thresholds, update transactions with E-Way Bill details, and generate a CSV file for E-Way Bill generation online.

Using the E-Way Bill feature for India, you can do the following:

- Set up E-Way Bill thresholds for different supply and amount types.
- Enter E-Way Bill related details under the E-Way Bill Details section of a transaction record.
- Assign default transportation details on multiple transactions through the Generate E-Way Bill page.
- Generate an E-Way Bill report for single or multiple transactions based on the GST EWB-01 form.
- Export the generated E-Way Bill file in CSV format. Using the details on the generated file, you can copy and paste the values into the E-Way Bill online portal for E-Way Bill generation.
- Update the transactions included in the exported CSV file by adding the E-Way Bill No. and Date from the generated E-Way Bill online.

For more information, see the help topic [E-Way Bill for India](#).

Support Exporting Goods and Services Under GST

To support the processing of exported goods and services under India GST regulations, you can now assign your preferred Export Type option for export transactions. In the **Export Type** field, you can choose one of the following:

- Export of goods or services, or both, without payment of IGST under LUT (Letter of Undertaking) or Bond.
- Export of goods or services, or both, on payment of IGST without any requirement of LUT or Bond

If you choose to export without any requirement of LUT or Bond, you can enable the Auto-Generate Adjustment Journal for Export feature. This feature supports the reverse charge on transactions when there is payment of IGST (Integrated Goods and Services Tax).

For more information, see the help topic [Exporting Goods and Services under India GST](#).

Support Importing of Goods and Services under GST

To support the processing of imported goods and services under India GST regulations, you can now assign a default tax nature to identify if an item record is of type Goods, Capital Goods, or Services. When processing purchase transactions that include imported goods or services, you can add import-related information such as Port Code and Bill of Entry details. These details are required to ensure correct tax calculation and filing of tax returns for imported goods and services.

Statutory Adjustment Journal Record

Use the Statutory Adjustment Journal record to adjust the calculated CGST, SGST/UTGST, or IGST on advance receipt or payment at the time of supply of goods and services. You can also use statutory adjustment journal to enter ITC (Input Tax Credit) reversal adjustment for India GST claims in case you do not meet the specific ITC claim conditions.

Support Display of GST Tax Information when Printing Invoice Transactions

Using the new predefined India Invoice PDF/HTML Template, you can now display the following India GST-related details when printing Invoice transactions in PDF or HTML format:

- Goods and Services Tax Identification Number (GSTIN) of subsidiary and customer record.
- GST tax details which includes the HSN or SAC code, tax code, tax rate, and tax amount for each line item.
- E-Way Bill Details which include the E-Way Bill Number (EBN) and E-Way Bill Date

India Localization SuiteTax Reports Enhancements

India Localization SuiteTax Reports version 2019.1.1 includes the following updates to the India GST SuiteTax reports to support the exports of goods and services under GST regulations:

- **Support for GSTR1 EXP Report** – The India Localization SuiteTax Reports version 19.1.1 now supports the GSTR1 EXP report. This report displays the taxable sales for customers that have GST Registration Type set to **Overseas**.
- **Support Interest and Late Fee Payable section in the GSTR3B Report** – A new section for Interest and Late Fee Payable is added to the GSTR3B report. This section captures the data from a Statutory Adjustment Journal if:
 - Adjustment Type is set to **Increase Tax Liability**
 - Sub Adjustment Type is set to **Interest** or **Late Fee**
- **Support for the new version of GST Offline Tool** – The India Localization SuiteTax Reports version 19.1.1 now supports the latest version GST Offline Tool V2.2.9.

For more information, see the help topic [India Goods and Services Tax \(GST\) Reporting](#).

SuiteTax US Tax Engine

SuiteTax US Tax Engine is a SuiteApp developed by NetSuite using the SuiteTax plug-in. US Tax Engine includes enhanced tax determination logic for both origin and destination based states, covers the differences between intrastate and interstate sales, and works with zip+4 accuracy in tax determination. These features help both the business and finance users comply with various tax requirements. Features include:

- Automatic provisioning:
 - Creation of tax records such as tax agency, tax types, tax codes.
 - Automatic tax rates update (with effective dates).
 - Enhanced tax determination logic.
- Roles and permissions customization.
- Services and goods tax item types for tax calculation and reporting. For item types there is Standard, Reduced, Zero, and Exempt tax rate type.
- Nexus entity support to determine the correct tax jurisdiction and tax rate on transactions. Tax types on the level of state, county, city, district, and further differentiation for sales and use tax.
- US tiered tax rates support with threshold basis (single item price, invoice total) and threshold type (progressive tax) parameters.
- Exemption Certificates for tracking the tax exemptions allowed by respective states.

- Non-taxability rules, an option to create a list of items that are generally non-taxable in a specific nexus. Item non-taxability rules are considered for tax determination.
- SuiteTax nexus lookup logic. Automatically determines nexuses for every transaction.
- Sales tax determination lookup logic is based on ZIP+4 accuracy.
- Customer and vendor tax registration validity checking.

To install the SuiteTax US Tax Engine, you must have the SuiteTax feature shared and enabled in your account.

For more information, see the help topic [SuiteTax Engine](#).

Germany Monthly/Quarterly VAT Return Update

Effective January 1, 2019, German tax administration has updated the Germany VAT returns for the year 2019. In line with this, International Tax Reports SuiteApp version 3.106.0 includes the following updates to the Germany Monthly/Quarterly VAT return:

- Boxes 52, 53, 68, 78, and 79 were removed from the VAT return form.
- Box 60 is now used for tax code S1-DE for the reporting of taxable sales for which the recipient must pay tax
- Box 84 is now used for the following:
 - Tax codes (RC-DE and IS-DE) for the reporting of net amount of purchases of services with reverse charge (notional) from outside the European Union (EU)
 - Tax code S1-DE for the reporting of net amount of supplies of mobile devices and integrated circuits
- Box 85 is now used for reporting of tax amount and notional amount for tax codes IS-DE, RC-DE and S1-DE

For more information, see the help topic [What goes into each box - Germany Monthly/Quarterly VAT report](#).

Germany Annual VAT Return Updates

The German tax authority has updated the annual VAT Return form for the year 2019. In relation to this, International Tax Reports version 3.109.0 includes the following changes to the Germany Annual VAT Declaration report for 2019:

- Reporting of reverse charge transactions has been simplified:
 - The net and notional amounts of purchases made for other services of a company based abroad declared in boxes 871 and 872 have been removed.
 - The net and notional amounts of purchases made for mobile devices and integrated circuits declared in boxes 844 and 845 have been removed. These values will be declared in boxes 877 and 878 instead.
 - Layout of the report is updated based on the 2019 form version of the Germany Annual VAT return.

For more information, see the help topic [What goes into each box - Germany Annual VAT Declaration](#).

Belgium Intrastat Report Update

Effective January 1, 2019, two additional fields are required in the Belgium Intrastat report for dispatches as part of the European Union (EU) project to update Instrastat. International Tax Reports SuiteApp version 3.106.0 includes the following updates to the Belgium Intrastat report:

- Country of Origin – Country where the goods were grown, manufactured, modified, or processed in such a way that a new product with a different commodity code emerged
- Counterparty VAT Number – Counterparty's VAT number in the member state of destination

For more information, see the help topic [Intrastat Reporting Fields](#).

Mexico Reduced VAT Rate

Effective January 1, 2019, Mexico has reintroduced a reduced VAT rate of 8% for sales and purchases of goods and services traded/provided in Mexico for specific regions.

In line with this, the Mexico Declaración Informativa de Operaciones con Terceros (DIOT) file in the Tax Audit Files SuiteApp is updated to support the reporting of the reduced tax rate in columns 13 and 24. This update is available in Tax Audit Files version 1.72.0.

For more information, see the help topic [Tax Code Mapping for Mexico DIOT File](#).

Mexico Tax Audit Files Field Mapping Update

Effective June 18, 2019, Tax Audit Files version 1.73.0 includes support for the Mexico Servicio de Administración Tributaria (SAT) catalogs field mapping feature provided by the new Mexico Localization SuiteApp.

This update ensures proper generation of the Mexico electronic accounting files for NetSuite users, regardless if they are using the Tax Audit Files or Mexico Localization SuiteApp to configure the SAT catalogs field mapping.

The following table shows the changes in the SAT catalogs field mapping and bank account number information if the Mexico Localization SuiteApp is installed in your NetSuite account:

Note: When you install or update to Mexico Localization SuiteApp version 2.01.0, the mapping values for the Mexico SAT catalogs configured in the Tax Audit Files SuiteApp will automatically be migrated to the Mexico Field Mapping page in Mexico Localization.

Updates to Mexico Tax Audit Files	Without the Mexico Localization SuiteApp installed	With the Mexico Localization SuiteApp installed
Mexico Audit Files Field Mapping	No change to the Mexico Audit Files Field Mapping categories	The following categories are removed from the Tax Audit Files Mexico Audit Files Field Mapping: <ul style="list-style-type: none"> ■ MX SAT: Account Grouping ■ MX SAT: Bank ■ MX SAT: Payment Method
Field mapping source for MX SAT: Account Grouping used in the Mexico Chart of Accounts (XML) report	Setup > Tax Audit Files > Audit Files Field Mapping > MX SAT: Account Grouping > Value	Setup > Mexico Localization > Mexico Field Mapping > SAT Account Grouping > Value
Field mapping sources for MX SAT: Bank and MX SAT: Payment Method used in the Mexico Journal (XML) report	<ul style="list-style-type: none"> ■ Setup > Tax Audit Files > Audit Files Field Mapping > MX SAT: Bank > Value ■ Setup > Tax Audit Files > Audit Files Field Mapping > MX SAT: Payment Method > Value 	<ul style="list-style-type: none"> ■ Setup > Mexico Localization > Mexico Field Mapping > SAT Bank > Value ■ Setup > Mexico Localization > Mexico Field Mapping > SAT Payment Method > Value

Updates to Mexico Tax Audit Files	Without the Mexico Localization SuiteApp installed	With the Mexico Localization SuiteApp installed
Field sourcing for Bank Account Number of Mexico Journal (XML)	Account > Bank Account Number Field ID: custrecord_acct_bank_account_number	Account > Bank Account Field ID: custrecord_mx_bank_account_number

To learn more, see the help topic [Field Mapping for Mexico](#).

France Fichier d'Ecritures Comptables (FEC) Enhancement

Effective August 6, 2019, Tax Audit Files version 1.74.0 includes the following enhancements to the France Fichier d'Ecritures Comptables (FEC) report.

- Establishment Code field - You can enter the Establishment Code either in the transaction or line item level of the sales and purchase transaction forms.
- Code Etb column - The value entered in the Establishment Code field will be shown in the 19th column of the France FEC report. Moreover, if the company does not use the establishment code at all, Code Etb column will not be shown on the FEC report.

This update ensures reporting of multiple establishments or locations on the France Fichier d'Ecritures Comptables (FEC). The France FEC tax audit report is an export of accounting entries in flat file format as specified by the French tax authority, Direction Générale des Finances Publiques.

To learn more, see the help topic [France Fichier d'Ecritures Comptables \(FEC\) Field Mapping](#).

Mexico Declaración Informativa de Operaciones con Terceros (DIOT) Enhancement

Tax Audit Files version 1.75.0 includes the following enhancements to the Mexico Declaración Informativa de Operaciones con Terceros (DIOT) file:

- Reporting of check transactions is included in the Mexico DIOT file.
- For accounts using the Mexico Localization SuiteApp, the updated DIOT report specifies the **Operation Type** for each expense item on expense report transactions for vendors located in Mexico.

The purpose of this enhancement is to provide accurate reporting of the DIOT file. The DIOT file is a monthly submission of a list of all payments made to third parties, detailing the applicable value added tax.

To learn more, see the help topic [Mexico DIOT File](#).