

NetSuite 2020.1 Release Notes

Release Preview Draft
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Important: This document summarizes the changes to NetSuite between 2020.1 and the previous release.

These release notes are subject to change every week.

The 2020.1 enhancements and changes listed in this document are not available to customers until they are upgraded to NetSuite 2020.1. 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 the following links for details about product changes:

NetSuite

NetSuite · [Accounting](#)

- [New Feature to Balance Transactions by Segments](#)
- [Advanced Revenue Management Enhancements](#)
- [Entity Merge User Interface Enhancements](#)
- [SuiteAnalytics Enhancements](#)
- [Transaction Email Enhancements](#)
- [Budgets for Customers' Secondary Subsidiaries](#)
- [SuiteApprovals Enhancements](#)
- [Contra Account Sheets \(Beta\)](#)
- [Country-Specific Reports \(Beta\)](#)
- [France Localization](#)
- [Germany Central Bank Reports \(Beta\)](#)
- [Germany Localization \(Beta\)](#)
- [GL Matching](#)
- [New Japan Trial Balance and Enhancements to Financial Statements](#)

NetSuite · [Administration](#)

- [Account Setup and Maintenance](#)
 - [Deprecation Plan for the Full Access Role](#)
 - [See Differences in Employee Access Permissions on the Role Permission Differences Page](#)
 - [New File Cabinet Default for Hide Attachments Folder Preference](#)
 - [Antivirus Scanning on File Cabinet Files in All Accounts](#)
- [Internationalization](#)
 - [Introducing Localization Context — User Event and Client Script Association](#)

- Subsidiary Hierarchy Modification
- Automated Intercompany Management Preferences Relocated
- Internal Tags Displayed in Translated Record and Transaction Names
- Authentication
 - OAuth 2.0 Delegated Access for REST Web Services and RESTlets
 - Deprecation of Google OpenID SSO and NetSuite Inbound SSO Features
 - TBA Authorization Flow Enhancements
 - Inbound SSO Access to Commerce Websites through OpenID Connect (OIDC)
 - Service Provider-Initiated Flow Support for SAML Single Sign-on Access to Commerce Websites
 - Session Invalidation on Commerce Websites Can Result from Changes to User Credentials
 - Password Policy Changes for Commerce Websites
 - Embedding Sensitive Website Pages in an iFrame is Prohibited
- Cloud Infrastructure
 - Data Center-Specific NetSuite Domains for Integrations are Targeted for Deprecation
 - Automated Conversion of Data Center-Specific Domains in NetSuite
 - New Content Delivery Network Available for Secure Commerce Websites
 - Incorrect HTTP Status Code 206 is Changing to 500
- SuiteApps
 - Operation ID Field Added on Page Time Details
 - Deprecation of Script Queue Monitor (Beta)

NetSuite · Banking

- Bank Feeds
- Financial Institution Connectivity API
- Bank Data Matching Improvements
- Bank Statement Parsers Enhancements

NetSuite · Employee Management

- Manager Self-Service Enhancements for Employee Change Requests
- CSV Import for Effective Dating
- Advanced Employee Permissions – Customizable Restrictions
- Advanced Employee Permissions – Exclusion of Lists > Employees Permission
- Bonuses in Compensation Tracking
- Paying Employee Bonuses with SuitePeople U.S. Payroll
- Workbook Template: Employee Bonus History and Current Compensation
- Expense Account Override
- Employee-Specific Expense Report Attachments in File Cabinet
- Time Modification Enhancements
- Vendor Time Thresholds
- Onboarding Checklist Enhancements

NetSuite · Item Record Management

- Inventory Costing Preferences

NetSuite · Inventory Management

- Supply Allocation Exceptions Management
- Partially Receive Transfer Order Fulfillment Quantities when Transfer is at Cost
- Warehouse Management System Enhancements
 - Support for GS1 Bar Code Types
 - Inbound Shipment Management Integration
 - Multi-App Support
 - Export and Import of Custom Mobile Processes
 - SuiteScript Exposure of Warehouse Management Records
- Supply Chain Control Tower Enhancements
- Shelf-to-Sheet Inventory Count
- Warranty and Repairs Management Enhancements

NetSuite · Manufacturing

- Outsourced Manufacturing
- Actual Production Dates

NetSuite · Mobile

- iOS Push Notification Changes

NetSuite · Order Management

- Subscription Revisions
- Automatically Extend Estimated Revenue Recognition End Date
- Multi-Subsidiary Customer Integration with Billing Accounts
- Set Subscription Charge Periods to Align with the Subscription Start Date
- Enhancements to Standard Roles and Permissions
- Enhanced Visibility into Automatic Fulfillment Request Creation
- Create Automatic Fulfillment Requests on Expected Ship Date
- Improved Handling of Rejected Payments
- Visa Cards on File Mandate Compliance with Payment Instruments Enabled
- Inventory Details on Inbound Shipment Record
- Automation Usage Figures Now Available on Billing Information Page
- Electronic Bank Payments Enhancements
- Grid Order Management Enhancements
- Subscription Billing Bulk Operations
- Subscription Billing Pricing Interval UI Enhancements
- Route Delivery
- Philippine Invoicing
- Auto Close Back Orders

NetSuite · Projects

- Advanced Project Budgets Enhancements
- Advanced Project Profitability Enhancements
- Project Revenue Recognition Enhancements
- Preferred First Day of a Week Available for RACG Calendar

NetSuite · Vendors, Purchasing, and Receiving

- Vendor Prepayments from Purchase Order
- Vendor Prepayments Auto-Apply
- Vendor Prepayments Additional Functionalities
- Vendor Bill Approvals in the Employee Center

NetSuite · Taxation

- SuiteTax Support for Non-Claimable Reverse Charge Tax Types
- Portugal Tax Audit Files Field Mapping Page Update
- Philippines Certificate of Creditable Tax Withheld at Source (Form 2307) Update
- Cyprus VAT Return Enhancement
- Singapore Goods and Services (GST) F5 Return Update
- Germany VAT Return Update
- Tax Reporting Category for Country Tax Reports
- Tax Reporting Category Support for Australia and Philippines Tax Reports
- Tax Point Date Support for SuiteTax Reports
- JAPAC Support for SuiteTax Reports
- EMEA Tax Audit Files Support for SuiteTax Reports
- SuiteTax Support for Tax Groups
- Belgium Localization
- EMEA Localization
- Netherlands Localization
- New Simplified India GST Tax Return Reports
- Sweden Tax Reports
- United Kingdom Localization

NetSuite · User Interface

- Submit an Advanced Customer Support Case Through SuiteAnswers
- Help Center Available in Chinese
- Advance Notice: Microsoft Internet Explorer 11 End of Support

Commerce

Commerce · Commerce Applications

Commerce · Site Management Tools

- SMT UX Sustainability
- Sass Pre-Processor Enhancements

Commerce · Commerce Merchandising

- Bulk Item Download using the Item Search API
- Improved Process for Applying Merchandise Hierarchy Attributes to Items
- Merchandise Hierarchy Visual Layout Enhancements
- Standard Merchandise Hierarchy SuiteAnalytics Workbook

Commerce · Commerce Platform

- New Domains Setup Procedure
- Redirect URL Domain Enhancements
- Creating and Editing Web Sites by Type
- Adding Items to Item Collections using Saved Searches
- Creating Item Collections using CSV Import
- Introducing Web Store Order Workbook Template
- Update to Commerce Elevated Permission Framework
- Account-Specific Domains for Marketing Campaigns and Online Forms
- System Email Template Customization
- Commerce Category Customer Segment Assignment
- Commerce Category Multi-Language Support

Commerce · SuiteCommerce InStore

- New APM Sensors

SuiteCloud Platform

SuiteCloud Platform · SuiteApp Distribution

- placeholder

SuiteCloud Platform · SuiteBuilder - Customization

- Sales and Purchase Custom Transactions Available
- System Notes v2 Page Available for Custom Transaction Configuration and Roles and Permissions
- Account-Specific Domains Supported in Custom Fields and Custom Center Links
- New Languages Supported in Advanced Printing Templates
- Updates to Third-Party Libraries Used in Advanced Printing
- Improvements to Error Messages and Handling of Corrupted Custom Segments

SuiteCloud Platform · SuiteAnalytics

- Dataset Separation in SuiteAnalytics Workbook
- New Date Filters for SuiteAnalytics Workbook Pivot Tables and Charts
- New Table View Tab in SuiteAnalytics Workbook
- Idle Session Timeout for SuiteAnalytics Connect
- 2020.1 Connect Browser

SuiteCloud Platform · CSV Import

- Newly Supported Record Types for CSV Import
- Enhanced Size of the Name and Translation Fields in CSV Import Map Translation
- Sales and Purchase Custom Transactions Available for CSV Import

SuiteCloud Platform · SuiteFlow (Workflow Manager)

- Enhancements to Sublist Support
- Change to Execution Contexts Behavior

SuiteCloud Platform · SuiteScript

- Change to Scripts on the Subsidiary Record Currency Field
- SuiteScript 2.1 Debugger (Beta)
- Deprecation of Script Queue Monitor (Beta)
- Method Added to N/redirect Module
- Sales and Purchase Custom Transactions Available in SuiteScript
- 2020.1 SuiteScript Record Exposures
- 2020.1 SuiteScript Records Browser

SuiteCloud Platform · SuiteTalk Web Services Integration

- Changes in the URL Structure of REST Web Services
- REST Web Services Support for CRUD Operations on Custom Records
- Fully Supported Record Types for REST Web Services in 2020.1
- New REST API Browser
- Record Action Execution Through REST Web Services
- Support for Record Transformation Through REST Web Services
- SuiteQL Query Execution Through REST Web Services
- Changes in SuiteAnalytics Workbook Execution Through REST Web Services
- SuiteScript Execution Context for REST Web Services
- REST Web Services Requests and Responses Tracked in the Execution Log
- Sales and Purchase Custom Transactions Available in SOAP Web Services
- New GetConcurrencyGovernance Operation in SOAP Web Services
- Operations Removed in 2020.1 SOAP Web Services Endpoint
- Governance Enabled for All Accounts
- Integration Record Enhancements Related to OAuth 2.0
- SOAP Web Services Version 2020.1
- Araxis Merge Diff File for the 2020.1 Endpoint
- 2020.1 SOAP Schema Browser

SuiteCloud Platform · SuiteCloud SDK

- 2020.1 SuiteCloud CLI for Java Is Not Yet Available
- 2020.1 SuiteCloud Plug-in for WebStorm Is Not Yet Available
- 2020.1 SuiteCloud Plug-in for Eclipse Is Not Yet Available

SuiteCloud Platform · SuiteCloud Development Framework

- Custom Code and Action Tabs in Custom Forms Support
- Sales and Purchase Custom Transactions Support
- Additional Transaction Type Forms Can Be Customized
- Translatable Fields Support

- Map/Reduce Concurrency Limit is Adjusted to Target Account Limit
- Financial Institution Connectivity Plug-in Support
- Parser Plug-in Support
- Minor Updates to Custom Objects

SuiteApps

SuiteApps · SuiteApps (Bundles) Released by NetSuite

- Accounting SuiteApps
- Administration SuiteApps
- Banking SuiteApps
- SuitePeople SuiteApps
- Order Management SuiteApps
- Inventory Management SuiteApps
- Localization SuiteApps
- Manufacturing SuiteApps
- Projects SuiteApps
- Non-Profit SuiteApps
- Food and Beverage SuiteApps
- Taxation SuiteApps

Accounting

NetSuite 2020.1 includes the following enhancements to accounting features:

- New Feature to Balance Transactions by Segments
- Advanced Revenue Management Enhancements
- Entity Merge User Interface Enhancements
- SuiteAnalytics Enhancements
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- Budgets for Customers' Secondary Subsidiaries
- SuiteApprovals Enhancements
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New Feature to Balance Transactions by Segments

With the new Balancing Segments feature you can now balance transactions by segments. In NetSuite, the general ledger always balances for the company or, in OneWorld accounts, for the subsidiary.

Now you can identify custom segments to balance for other dimensions. For example, you can create balancing segments for product lines or business units. When you run the new Balancing by Segments process, NetSuite automatically balances your transactions by their balancing segments.

For instructions to set up the Balancing Segments feature, see [Setup for Balancing Segments](#). The setup includes the following basic steps:

- **Feature enablement** – The Balancing Segments feature depends on the Custom Segments feature. When you check the Balancing Segments box, you receive a message that lets you also enable the Custom Segments feature if it is not currently enabled.
- **Intersegment account configuration** – Intersegment accounts enable you to balance by segment without general ledger impact to your regular transaction posting accounts. After you enable the feature, the Accounting Preferences page includes a Balancing Segments subtab. On this subtab, you must select default intersegment due-to and due-from accounts. You can select the same account for both the due-to and the due-from accounts. If you want, you can also select due-to and due-from accounts for specific transaction types.
- **Balancing segment creation** – Balancing segments are custom segments. To create balancing segments, check the GL Impact and Balancing boxes on new or existing custom segments. For information about custom segments, see the help topic [Custom Segments](#).

After setup, you can add values for your balancing segments to your transactions. Depending on your custom segment configuration, you can select a value in the transaction header, the transaction lines, or both. The transactions do not balance by segment until you run the process, usually at the end of the period.

The Balancing by Segments Process is one of the tasks on your Period Close Checklist. You can, however, run the process at any time from [Transactions > Financial > Balance Transactions by Segment](#). Posting Period is a required field, which is set automatically in the period close task. In NetSuite OneWorld accounts, you must also select one or more subsidiaries. When Multi-Book Accounting features are enabled, you must also select one or more accounting books. The process automatically includes all balancing segments. You can have a maximum of two balancing segments.

The process creates a balancing journal, a new transaction type. The balancing journal includes lines for all balancing segment values. Each line has a Details link to a page with lines for the related transactions. From the detail page, you can click through to the individual transactions. These transactions display the status [Balanced by Segments](#), and their GL Impact subtabs include a [Balancing by Segments Details](#) subtab. In this subtab you can see that the transaction header segment value (debit or credit) balances with the line segment values.

You can rerun the balancing by segments process for a specified period and subsidiary combination. When you rerun the process, the system deletes the previous balancing journal and creates a new one. A warning at the top of the [Balance Transactions by Segments](#) page alerts you when you select a period and subsidiary for which the process has already run.

On reports, you can select your balancing segment as a Column filter or add the column when you customize a report. Some major financial reports that support custom segments as Column filters or in customization are the [Balance Sheet](#), [Income Statement](#), and [Cash Flow Statement](#).

For detailed information about the Balancing Segments feature, see [Balancing Segments and Journals](#).

Advanced Revenue Management Enhancements

NetSuite 2020.1 delivers some significant enhancements to the Advanced Revenue Management feature. The following sections provide a brief summary of the enhancements for this feature:

- [New Revenue Summary Subtab for Revenue Arrangements](#)

- Enhanced Revenue Allocation Support for SuiteBilling Change Orders
- Return of Element Renamed to Linked Element
- Documentation Enhancements

For more information about Advanced Revenue Management, see the help topic Advanced Revenue Management.

New Revenue Summary Subtab for Revenue Arrangements

The Revenue Elements subtab of revenue arrangements includes a new **Revenue Summary** subtab. This subtab combines key information from the Revenue Element subtab with recognized revenue from the general ledger and amounts actually invoiced. In addition, the subtab consolidates revenue elements from related sources when you merge revenue arrangements. By default, the subtab collapses consolidated lines as shown in the following screenshot.

ELEMENT	LINKED ELEMENT	SOURCE	ITEM	QUANTITY	DISCOUNTED SALES AMOUNT	REVENUE AMOUNT	RECOGNIZED (BASE CURRENCY)	CARVE IN/OUT	BILLED
1-5-Summary		Sales Order #3	Item 1 A	1	60.00	90.00	60.00	-30.00	100.00
2		Sales Order #3	Item 1 B	2	200.00	180.00	120.00	20.00	20.00
3-5-Summary		Sales Order #3	Item 1 C	1	30.00	90.00	60.00	-60.00	30.00
4		Sales Order #3	Item 1 D	2	250.00	180.00	120.00	70.00	20.00

You can expand the consolidated lines to view the details. When you add the amounts in each column of the detail lines, they equal the amount in the summary line for the column. (The detail lines are outlined in red in the following screenshot.) Use the Expand All and Collapse All buttons, or click the plus and minus signs to expand and collapse individual lines.

ELEMENT	LINKED ELEMENT	SOURCE	ITEM	QUANTITY	DISCOUNTED SALES AMOUNT	REVENUE AMOUNT	RECOGNIZED (BASE CURRENCY)	CARVE IN/OUT	BILLED
1-5-Summary		Sales Order #3	Item 1 A	1	60.00	90.00	60.00	-30.00	100.00
1		Sales Order #3	Item 1 A	2	150.00	180.00	120.00	-30.00	100.00
5	1	Return Authorization #1	Item 1 A	-1	-90.00	-90.00	-60.00	0.00	0.00
2		Sales Order #3	Item 1 B	2	200.00	180.00	120.00	20.00	20.00
3-5-Summary		Sales Order #3	Item 1 C	1	30.00	90.00	60.00	-60.00	30.00
3		Sales Order #3	Item 1 C	2	50.00	180.00	120.00	-130.00	30.00
6	3	Return Authorization #1	Item 1 C	-1	-20.00	-90.00	-60.00	70.00	0.00
4		Sales Order #3	Item 1 D	2	250.00	180.00	120.00	70.00	20.00

The amounts in the previous screenshots show values for the January activity in a reclassification example in the Help Center. Note that the billed amounts include only the invoice in this example. The customer credit has not yet been generated. For details, see the help topic Foreign Currency Combined Revenue Arrangement Prior to Billing.

Enhanced Revenue Allocation Support for SuiteBilling Change Orders

Prior to 2020.1, subscription change orders updated the original revenue elements for the subscription. The update sometimes overrode the dates or allocation of existing elements. A new accounting

preference, Create Revenue Elements for Subscription Revisions, lets you choose whether to keep the current behavior or create new revenue elements for subscription change orders. When you check the box for Create Revenue Elements for Subscription Revisions, you can use either retrospective or prospective merge to combine revenue arrangements for subscriptions. When the preference box is clear, you can only merge revenue arrangements for subscriptions retrospectively. For more information about retrospective and prospective merges, see the help topic [Combination and Modification of Performance Obligations](#).

For more information about the accounting preference Create Revenue Elements for Subscription Revisions, see [New Accounting Preference Related to Advanced Revenue Management](#).

Return of Element Renamed to Linked Element

Previously, the Return of Element field only linked revenue elements from a return (negative elements) with their associated positive element (sales element). Now you can also link the revenue element from a subscription revision with the original element for the subscription line or other associated revenue element. The new name for the field is Linked Element to indicate the expanded function.

Documentation Enhancements

The 2020.1 Help Center for Advanced Revenue Management reflects these 2020.1 enhancements.

To avoid confusion between subscription change orders and prospective merges, the documentation no longer uses the term "prospective change orders." Beginning in 2020.1, contract modifications are referred to as either retrospective or prospective merges.

Entity Merge User Interface Enhancements

NetSuite 2020.1 includes the following changes to the Entity Merge user interface:

- The **Merge From** field is now called **Duplicate**. This field indicates which records are regarded as duplicates and merged into a master record.
- The **Merge Into** field is now called **Master**. This field indicates which record duplicates are merged into.
- The **Entity Merge** form now includes a **Duplicate/Master Summary** showing the entities which will be merged. You can select which entity-specific information appears in the Duplicate/Master Summary.

These changes appear on the Manual Merge page accessed by clicking **Merge** in a duplicate entity's record.

For more information, see the help topic [Merging Different Types of Records](#).

SuiteAnalytics Enhancements

SuiteAnalytics now includes the following enhancements:

- You can now use Transaction Links to the previous and next transaction in your transaction workflow at the transaction level. The Related Transactions – Next and Related Transactions – Previous fields can be used in your SuiteAnalytics reports and pivot-tables.
- The Transaction Detail standard workbook includes the following enhancements:

- A Primary accounting book filter is included by default when using Multi-Book accounting.
- A Transaction Overview pivot table is now available. The default definition includes a row for account type and a Transaction Count measure and a grand total of all accounts.
- An Account Turnover pivot table has also been added for OneWorld accounts. The default definition includes a row for Account, a Subsidiary column, and Amount (Sum) measures.
- The Do Not Display Line field, which includes information which was usually hidden in Global Search, has been renamed to Technical Line.

For more information, see the help topics [SuiteAnalytics Workbook Data Source Overview](#) and [Transaction Detail Workbook \(Beta\)](#).

Transaction Email Enhancements

In NetSuite 2020.1, you can access the Standard Transaction Email Template at Documents > Templates > Email Templates and use it to build customized email templates. You can also set custom templates as the default for standard transactions with a new **Default Email Template** preference at Setup > Company > Email > Email Preferences > Transactions subtab.

For more information, see the help topics [Working with Email Templates](#) and [Setting Email Preferences](#).

Budgets for Customers' Secondary Subsidiaries

If you use the Multi Subsidiary Customer feature, in 2020.1 you can create a budget for any of the customers' assigned secondary subsidiaries. For information about creating budgets, see the help topic [Setting Up a Budget](#).

Administration

NetSuite 2020.1 includes the following enhancements to Administration features:

- Account Setup and Maintenance
 - [Deprecation Plan for the Full Access Role](#)
 - [See Differences in Employee Access Permissions on the Role Permission Differences Page](#)
 - [New File Cabinet Default for Hide Attachments Folder Preference](#)
 - [Antivirus Scanning on File Cabinet Files in All Accounts](#)
- Internationalization
 - [Introducing Localization Context — User Event and Client Script Association](#)
 - [Subsidiary Hierarchy Modification](#)
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Account Setup and Maintenance

Deprecation Plan for the Full Access Role

The Full Access role has been deprecated since NetSuite 2019.1 and is targeted to be disabled as of **2021.1**. As an interim step in this process, as of **January 2020**, this role will be set to inactive. The Full Access role will no longer appear in the list of roles available for users who have this role assigned.

Before your account is upgraded to **2021.1**, make sure that any customizations in your account that are running under the Full Access role work under another role without causing any errors.

The following changes were made to the Full Access role as of 2019.1:

- The Full Access role was 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 permission called Core Administration Permissions became 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.

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

See Differences in Employee Access Permissions on the Role Permission Differences Page

You can use the Role Permission Differences feature to quickly compare permissions between roles. As of NetSuite 2020.1, it is possible to see differences in Employee Access permissions and restrictions between different roles. Differences in Employee Access permissions are shown in their own category called Employee Access. This is useful when you want to, compare Employee Access permissions between a customized role and the role on which it is based.

To compare permission differences between two or more roles, go to Setup > Users/Roles > User Management > Show Role Differences

Employee Access permissions are part of the Advanced Employee Permissions feature. This feature gives Administrators more flexibility and control over the fields and sublists on the employee record that are available to the role.

To enable feature, go to Setup > Company > Enable Features. On the **Employees** subtab, in the Permissions section, check the **Advanced Employee Permissions** box.

For more information see the help topics Advanced Employee Permissions Overview and Showing Role Permission Differences.

New File Cabinet Default for Hide Attachments Folder Preference

To ensure that only users with adequate permission can access confidential records and associated files in the File Cabinet, the attachments folder is now hidden by default. As of 2020.1, the Hide Attachments Folder box on the General Preferences page is checked for all new customers.

When the Hide Attachments Folder box is checked, the following folders in the File Cabinet are visible to Administrators only:

- Attachments Received
- Attachment Sent
- Mail Merge

To manage this preference, Administrators can check or clear the Hide Attachments Folder box at Setup > Company > Preferences > General Preferences.

For more information, see the help topic Restricting Access to File Cabinet Folders.

Antivirus Scanning on File Cabinet Files in All Accounts

As of 2020.1, all NetSuite accounts are protected against viruses and malware to provide increased security. An embedded antivirus scanner automatically scans all new and updated files as they are uploaded to the File Cabinet. Only safe files are uploaded. Files attached to email messages are also scanned for viruses.

No configuration or setup is required.

For more information, see the help topic Antivirus Scanning on File Cabinet Files.

Internationalization

Introducing Localization Context — User Event and Client Script Association

NetSuite 2020.1 introduces support for record localization context, and the ability to filter script execution according to localization context. This feature allows developers to tailor scripts for certain countries, and to prevent these scripts from deploying unnecessarily on records associated with other countries. Limiting script execution in this manner can improve record performance.

For information about this feature, see the following:

- Determination of Localization Context
- Records that Support Localization Context
- Localization Context-Aware Scripts

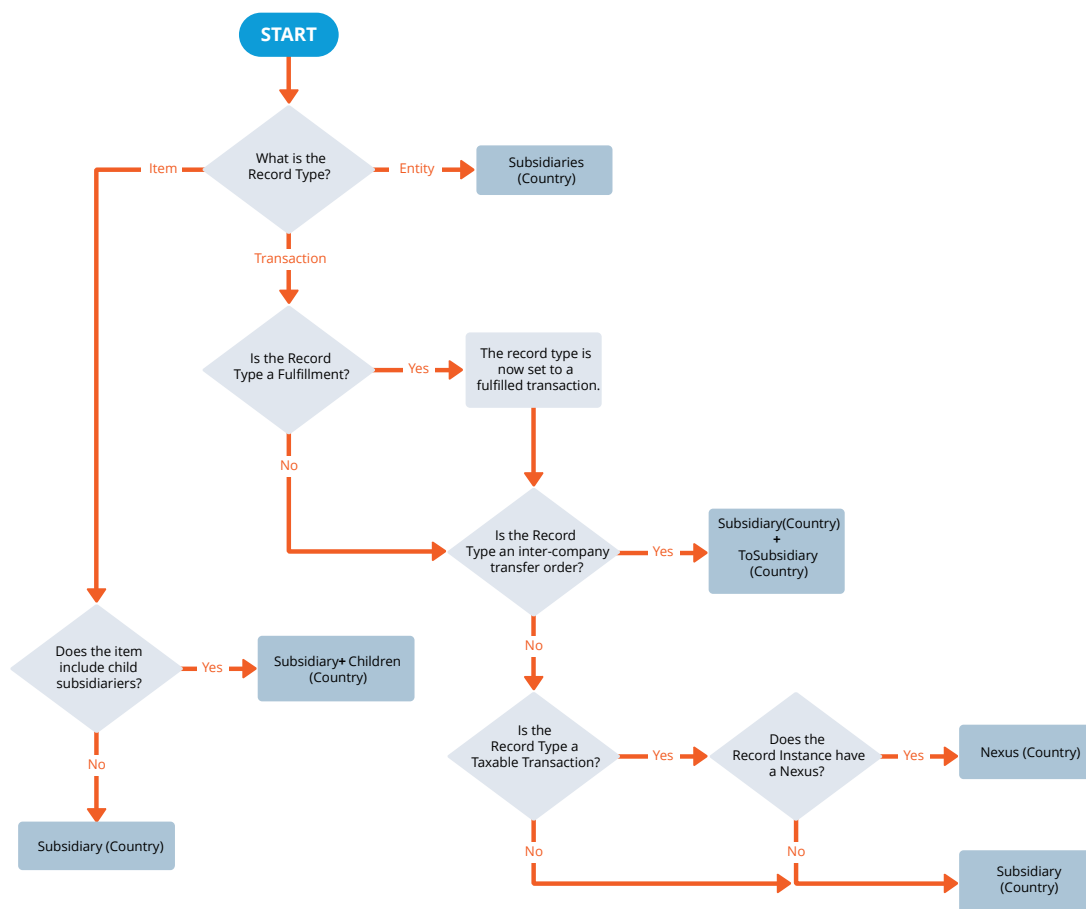
For more details about setting up localization context filtering for user event and client script execution, see [Localization Context Filtering for SuiteScript 2.x](#).

Localization context filtering is supported for scripts in bundles. For information, see [Localization Context Filtering Supported for Scripts in Bundles](#).

Determination of Localization Context

The localization context of a record represents the country or countries associated with that record. The system automatically determines the localization context of a record on the basis of values in specific country fields, such as subsidiary and tax nexus fields. These values represent individual countries, such as France, United Kingdom, or Germany.

The system follows a defined process to determine the localization context for a record, based on a variety of factors. The following diagram illustrates this process:



The determination process progresses through the decision tree from the "START" to one of the results in dark gray rectangles.

The results list the field on which the specific localization context is based. For example, if the result is “Subsidiary (Country)”, the localization context is based on the value of the country field of the respective subsidiary.

The localization context of a record can contain multiple countries, it is not limited to a single option. When scripts are filtered based on localization context, a script is run if its context association rule is set to at least one of the countries of the localization context.

For localization context filtering in client scripts, the determination of localization context is dynamic, as follows:

1. A user changes a field, which is used to determine the localization context of a record.
2. Context determination is immediately triggered again to make sure that the localization context is correctly set.
3. Based on the new localization context, the relevant scripts are loaded from the server and attached to the record and the scripts that are no longer applicable are detached.

For more information about determination of localization context, see [Localization Context](#).

Records that Support Localization Context

Use of the localization context feature is currently limited to standard records of the following types:

- Item
- Transaction
- Entity

For more details about supported records, see [Records that Support Localization](#).


Localization Context-Aware Scripts

As of NetSuite 2020.1, administrators and other users with access to scripts can set up a localization context association rule for a SuiteScript 2.x user event or client scripts. You can set a localization context association rule on the script deployment record by selecting the country or countries for which a script is relevant. Script deployments with a localization context association rule result in context-aware scripts.

Localization context-aware scripts only run on records associated with a defined country or countries. The execution of context-aware scripts is filtered by comparing records' localization context to the country values selected on the script deployment record. This filtering is most useful for users with subsidiaries in multiple countries, because it causes the script deployment to run faster.

For more details on how to set up a localization context association rule that filters script execution based on records' associated countries, see [Localization Context Filtering for SuiteScript 2.x](#).

During script deployment, the localization context of records is verified against the countries selected on the script deployment record before these scripts load and run. The context-aware scripts skip other records. Script maintenance is easier, because you can be sure that scripts only run on relevant records.

 **Note:** Any and all scripts created before NetSuite 2020.1 are not localization context-aware to guarantee backward compatibility.

Example: The record localization context is determined as “France” and the context association rule is employed — the scripts deploy in the following way:

- The context-aware scripts deploy only on records with localization context “France”.

- Any other scripts deploy the regular way.

Subsidiary Hierarchy Modification

As of 2020.1, NetSuite enables users with appropriate permission to modify their subsidiary hierarchy structure, if required. Businesses may need to modify their subsidiary hierarchy when they change the headquarter subsidiary, or to elevate a subsidiary in the hierarchy.

For details about the subsidiary hierarchy modification functionality, see Subsidiary Hierarchy Structure Modification.

Contact Customer Support for assistance with subsidiary hierarchy modification.

Automated Intercompany Management Preferences Relocated

As of 2020.1, the Automated Intercompany Management feature preferences have been removed from the Items/Transactions subtab on the Accounting Preferences page. These preferences are now located at Setup > Accounting > Preferences > Intercompany Preferences. You must have the Setup Accounting permission to access the Intercompany Preferences page. For more information about the Automated Intercompany Management preferences, see Intercompany Preferences.

Internal Tags Displayed in Translated Record and Transaction Names


You may see internal tags in translated record and transaction names in the user interface. For example, instead of Record, you may see {#Record#}. These tags may be related to record renaming. If you find such tags displayed in the user interface, please contact NetSuite Customer Support so that we can make a correction in a future release.

For more information about renaming records, see the help topic Renaming Records and Transactions.

Authentication

OAuth 2.0 Delegated Access for REST Web Services and RESTlets

A new approach to access REST Web Services and RESTlets is now available. OAuth 2.0 provides an alternative to Token-based Authentication. OAuth 2.0 is more straightforward to implement, because request signing is not required. OAuth 2.0 has a standard authorization code grant flow at the end of which an application gets a pair of tokens – an access token and a refresh token. The access token is valid for 60 minutes and is used to access the protected resource. After the access token expires, the application uses the refresh token to request a new access token, without a requirement to initiate the flow from the very beginning.

 **Note:** The refresh token expires after 7 days. After it has expired, an application should initiate the flow from the first step.

The authorization code grant flow for OAuth 2.0 consists of the following steps:

1. An authorization request is sent to the authorization endpoint URI.

2. If there is no active session, user authenticates in NetSuite. When the authorization request is received, a consent screen displays where the user can allow or deny authorization for an application to access protected NetSuite resources. If user allow the application on consent screen, the application redirects to redirect URI with the authorization code received.
3. The application exchanges the authorization code for the access and refresh tokens on the Token Endpoint URI.

To enable this feature, go to Setup > Company > Enable Features. On the SuiteCloud tab, in the Manage Authentication section, check the **OAuth 2.0** box. When this feature is enabled, the use of OAuth 2.0 must be configured on the integration record.

Defining OAuth 2.0 on Integration Records

To define OAuth 2.0 on integration record, go to Setup > Integration > Manage Integrations. You can click a name of a record to edit it. To create a new record, click **New**.

Set values for the following fields in the OAuth 2.0 section of the Integration setup page.

- Scope – You must choose the type of protected resources for which OAuth 2.0 can be used for access. You can enable RESTlets, REST web services, or both.
- Redirect URI – You must enter a Uniform Resource Identifier (URI) that uses the HTTPS protocol (recommended) or a custom URL schemes.



Important: It is mandatory to guarantee transport-layer security on the Redirect URI.

- Authorization Code Grant – You must check this box for OAuth 2.0 to work.
- For the following optional fields, select files that have been uploaded to your File Cabinet:
 - Application Logo
 - Application Terms of Use
 - Application Privacy Policy

After you save the page, the system displays the client ID and client secret. You should save the client ID and client secret, as they are required for client authentication in process of getting the access and refresh tokens.



Warning: The client ID and client secret are only displayed after you save a new integration record. If you lose or forget these, you must reset them to obtain new values. Treat these values as you would a password.

New OAuth 2.0 Permissions

The OAuth 2.0 feature introduces two new permissions:

- **OAuth 2.0 Authorized Applications Management:**
 - Is primarily for Administrators or roles with Core Administration Permissions.
 - Requires two-factor authentication (2FA).
 - Enables users to view or revoke any OAuth 2.0 authorized applications in the account.
- **Log in using OAuth 2.0 Access Tokens** – enables users to:
 - Access REST Web Services and RESTlets using OAuth 2.0 access tokens.
 - View their OAuth 2.0 authorized applications.

- Revoke OAuth 2.0 authorized applications they authorized previously.

Deprecation of Google OpenID SSO and NetSuite Inbound SSO Features

Google OpenID Single Sign-on (SSO) and the NetSuite proprietary Inbound Single Sign-on (SSO) features are targeted for deprecation. Partners and customers with solutions based on these features must update these solutions to use an alternative inbound single sign-on feature.

OpenID Connect (OIDC) SSO and SAML SSO are both excellent alternatives for inbound SSO access to NetSuite and Commerce websites.

- To use OpenID Connect (OIDC) SSO, see the help topic [OpenID Connect \(OIDC\) Single Sign-on](#). See also [OpenID Connect \(OIDC\) Access to Web Store](#).
- To use SAML SSO, see the help topics [SAML Single Sign-on](#) and [SAML Single Sign-on Access to Web Store](#).

The deprecation schedule is as follows:

- As of the 2020.1 upgrade, partners and customers will no longer be permitted to use the NetSuite proprietary Inbound SSO feature or the OpenID SSO feature to create new solutions.
- Before the 2020.2 release, partners and customers must migrate existing solutions using OpenID SSO to use OpenID Connect (OIDC) or SAML SSO.
- Before the 2021.1 release, partners and customers must migrate existing solutions using NetSuite Inbound SSO to use OpenID Connect (OIDC) or SAML SSO.

In addition to the deprecation of the NetSuite and Google OpenID inbound SSO features, requests using the ssoLogin operation to access SOAP web services must transition to use Token-based Authentication (TBA). See [Operations Removed in 2020.1 SOAP Web Services Endpoint](#). See also [Token-based Authentication \(TBA\)](#) and [Token-based Authentication and Web Services](#).

TBA Authorization Flow Enhancements

The Token-based Authentication (TBA) Authorization Flow has been enhanced to improve the experience for application developers. Enhancements include:

- For the first two steps of the flow, the developer should use the account-specific domain. However, if the account ID is not known, requests can be sent to the **system.netsuite.com** domain. The **realm** parameter (also called the **Company ID** and the **Account ID**) is no longer required.
- The callback URL now supports multiple ports on a localhost (**http://localhost:***). This is the only case where use of the asterisk (*) character is permitted.
- A new tokeninfo endpoint returns information about a user based on the access token. The endpoint is **https://<accountID>.restlets.api.netsuite.com/rest/tokeninfo**, where <accountID> is a variable for the company's account ID. A response to a GET request contains data in JSON format, including information such as:
 - Company Name
 - Company ID (account ID)
 - Role Name
 - Role ID
 - Entity ID

For more information, see the help topic [The Three-Step TBA Authorization Flow](#).

Inbound SSO Access to Commerce Websites through OpenID Connect (OIDC)

As of 2020.1, OpenID Connect (OIDC) can be used to access Commerce websites as an alternative to SAML Single-Sign on. With OIDC, users have autonomy over security administration, because an OpenID Connect Provider (OP) manages security administration.

The following restrictions apply to the use of OIDC for Commerce websites:

- OIDC access is supported only for websites on custom domains, not on netsuite.com.
- You cannot use both SAML Single Sign-on and OIDC Single Sign-on for the same website. You must choose one single sign-on method.
- All users must use the same type of credentials, either login in using the website login form or OP login form.
- A website must be fully protected to support OIDC Single Sign-on feature. To provide this protection, you must do the following:
 - On the Set Up Web Site, on the Web Presence subtab, in the Web Site section, check the **Advanced Site Customization** box.
 - Go to Setup > Site Builder > Set Up Web Site. On the Shopping subtab, in the Registration Page section, check the **Password-Protect Entire Site** box.

To enable this feature, go to Setup > Company > Enable Features. On the SuiteCloud tab, in the Authentication section, check the **OpenID Connect (OIDC) Single Sign-on** box.

An Administrator must configure an application's OIDC access to NetSuite. The first step is to choose an OP. To find a certified OP vendor, go to <https://openid.net/certification>. To register a client application (website), use the OP administration tools with the client_secret_basic authentication method. Use the client ID and client secret for configuration of the inbound single sign-on for websites in NetSuite.



Important: The OIDC configuration is not shared between the NetSuite application and Commerce websites. An Administrator must configure OIDC on the SSO tab of the website's setup page. Website users must be assigned the OpenID Connect (OIDC) Single Sign-on permission to log in to the website successfully.

If a valid configuration of OIDC is present for a website:

- If there is no active session, users are redirected to the OP login form for authentication. After successful authentication, users are returned to the requested protected resource.
- If there is an active session, the requested protected resource is displayed.



Note: Single logout (SLO) is not supported at this time.

Service Provider-Initiated Flow Support for SAML Single Sign-on Access to Commerce Websites

The Service Provider-Initiated Flow for SAML Single Sign-on can now be used to access Commerce websites. If you have a valid configuration of SAML Single Sign-on for a website, the Service Provider-Initiated flow starts with a SAML request from the Service Provider. Users authenticate themselves with the Identity Provider (IdP). After authentication, users are redirected to the requested protected resource.

The support for this feature is available only in accounts where the SAML Single Sign-on feature is enabled.

The following restrictions apply to the Service Provider-Initiated Flow:

- The SAML Single Sign-On Service Provider-Initiated Flow is supported only for websites on custom domains, not on netsuite.com.
- You cannot use both SAML Single Sign-on and OIDC Single Sign-on for the same website. You must choose one single sign-on method.
- All users must use the same type of credentials, either login in using the website login form or IdP login form.
- A website must be fully protected to use the SAML Single Sign-On Service Provider-Initiated Flow. To protect your website, you must do the following:
 - On the Set Up Web Site, on the Web Presence subtab, in the Web Site section, check the **Advanced Site Customization** box.
 - Go to Setup > Site Builder > Set Up Web Site. On the Shopping subtab, in the Registration Page section, check the **Password-Protect Entire Site** box.

Session Invalidation on Commerce Websites Can Result from Changes to User Credentials

For enhanced security, if a user's credentials are changed during an active session, the user is now automatically logged out of a Commerce website. This change in behavior is referred to as explicit session invalidation. A change in a user's credentials ends the session if the change occurs while the user is logged in. User credentials include a user's password, if the assigned role exists or an entity is active.

For example, logged-in users who change their passwords are now automatically logged out of the website. These users must log in to the website again, creating new sessions using their new passwords. This automatic logout also occurs if a website administrator makes changes to a user's credentials while the user is logged in to the website.

Explicit session invalidation applies to all SuiteCommerce Advanced, SuiteCommerce, SuiteCommerce My Account, and Site Builder websites.

Password Policy Changes for Commerce Websites

As of 2020.1, a stronger password policy is now enforced for Commerce websites. The stronger policy applies to any newly created or changed password for users who register on Commerce websites and to users logging in with the Customer Center role. The stronger policy is not enforced for existing users with passwords that do not match the new criteria, unless they change their passwords.

Changes to the password policy include:

- The minimum password length has changed from 6 characters to 8 characters.
- Easy to guess or potentially compromised passwords are now prohibited.

Embedding Sensitive Website Pages in an iFrame is Prohibited

Oracle NetSuite prohibits the presentation of sensitive pages in an iFrame (an inline frame, using the HTML tag <iframe>) on Commerce website pages. In January 2015, using an iFrame to present NetSuite login pages was prohibited. Browsers would no longer render the NetSuite login pages on a Commerce website. This prohibition against presenting NetSuite pages in an iFrame has been extended to apply to **Change Password** and **Change Email Address** pages.

If you have a Site Builder website, please review your authentication logic to ensure your account complies with the security policy described in Secure Login Access to Your NetSuite Account. See also


Displaying Login Fields on Your Web Page. If you are presenting sensitive pages in an iFrame, you must make changes to comply with this prohibition before 2020.2.

Cloud Infrastructure

Data Center-Specific NetSuite Domains for Integrations are Targeted for Deprecation

You should transition your integrations to use account-specific domains as soon as possible. Using account-specific domains removes dependencies on the data center where your account is hosted. The schedule for the deprecation of data center-specific domains is as follows:

- As of 2020.1, integration requests sent to data center-specific domains will no longer be processed in sandbox, special purpose, and Release Preview accounts. In most cases, requests to the following domains will be affected by this deprecation:
 - `webservices.na0.netsuite.com`
 - `webservices.eu1.netsuite.com`
 - `rest.na0.netsuite.com`
 - `rest.eu1.netsuite.com`

 **Note:** Special purpose accounts include test drive, development, demo, and student accounts. A few special purpose accounts use the `webservices.na2.netsuite.com` and `rest.na2.netsuite.com` data center-specific domains. Special purpose accounts sending requests using these domains also will be affected by the deprecation.

- Targeted for 2020.2, integration requests sent to data center-specific domains will no longer be processed in production accounts.

In cases where an application accesses more than one NetSuite account, you can use dynamic discovery methods to obtain the correct URLs. For information about the available discovery methods, see the help topic [Dynamic Discovery of URLs for SOAP Web Services and RESTlet Clients](#).

All NetSuite account types can still access the following domains for dynamic discovery purposes:

- **`webservices.netsuite.com`**: to dynamically discover the URL for SuiteTalk SOAP web services requests.
- **`rest.netsuite.com`**: to dynamically discover URLs for NetSuite services in RESTlets, or the URL for SuiteTalk REST web services.

Automated Conversion of Data Center-Specific Domains in NetSuite

Before 2016.2, all NetSuite domains contained a data center identifier as part of the domain name. This data center identifier made it difficult to move an account to a different data center. To take full advantage of NetSuite's cloud architecture, you should not use data center-specific URLs for accessing NetSuite resources.


Account-specific domains were introduced beginning in 2016.2. An account-specific domain includes your NetSuite account ID as part of the domain name. Account-specific domains are available for access to the NetSuite UI, and for external (Online) forms, External Suitelets, RESTlets, SuiteTalk SOAP and REST web services, SuiteAnalytics Connect, and external catalog sites (WSDK). See the help topic [URLs for Account-Specific Domains](#) for more information.

You should transition to use account-specific domains as soon as possible. The NetSuite application can help you and your users during this transition.

Assistance with the Transition to Account-Specific Domains

The NetSuite application offers several methods to assist you during the transition to account-specific domains:

- [Automatic Redirection](#)
- [Automatic On-Read Translation of Data Center-Specific URLs](#)
- [Traffic Health](#)

 **Note:** You should transition your integrations to use account-specific domains as soon as possible. See [Data Center-Specific NetSuite Domains for Integrations are Targeted for Deprecation](#).


Automatic Redirection

When users access the NetSuite UI, the browser automatically redirects them from the **system.netsuite.com** domain to an account-specific domain. This redirection is transparent for users.

Automatic On-Read Translation of Data Center-Specific URLs

You should transition from using data center-specific URLs in your account. However, it is not always possible to quickly change all of your embedded links to use account-specific domains. Data center-specific links may be embedded in the Shortcuts portlet, in custom fields and custom center links, and in marketing campaign email and online forms. When the NetSuite application encounters a data center-specific URL during an active session, it automatically translates the URLs in the request to an account-specific domain. This automatic translation is transparent for users.

For custom center links and custom fields, data center-specific URLs are transformed on-read to the account-specific domain. The benefit is that the correct URL using the account-specific domain URL is already part of the rendered data or page in the browser, making an extra HTTPS request unnecessary. An extra HTTPS request would normally result in an HTTP response status 301 Moved Permanently for a permanent redirect, but this error does not occur.

 **Important:** Be aware that on-read translation does not change the hard-coded data center-specific URLs in your account. This feature translates these URLs to account-specific domains during active sessions. You should make a plan to update the data center-specific links your account and replace them with links containing your account-specific domain.

For more information, see the following release notes:

- [Account-Specific Domains Supported in Custom Fields and Custom Center Links](#)
- [Account-Specific Domains for Marketing Campaigns and Online Forms](#)

Traffic Health

The Traffic Health page is available in the NetSuite UI. The Traffic Health page can help you find URLs for SOAP web services and RESTlet requests in your account that are using data center-specific domains. Administrators and other users with the **Set Up Company** permission can go to Setup > Company > Company Management > Traffic Health to access this page. For more information, see the help topic Traffic Health.

Note: Requests that are automatically redirected by the HTTP protocol are shown in Traffic Health reports. For example, the extra HTTPS request necessitated by an automatic redirect is shown on a Traffic Health report.

For more information, see the help topic [How to Transition from Data Center-Specific Domains](#)

New Content Delivery Network Available for Secure Commerce Websites

A new Content Delivery Network (CDN) is available for secure Commerce websites. The new CDN, a new hosting infrastructure, and a new type of SSL certificate work together to increase the security of your Commerce website. When you change over to a different CDN, it is a good practice to change the keys used by the SSL certificate. Changes to the SSL certificate renewal process support this practice.

After **May 31, 2020**, you will not be able to use your existing SSL certificate together with CDN caching. You will have to obtain a new certificate where Oracle NetSuite manages the certificate key pair, in advance of this deadline, for CDN functionality to remain enabled. Oracle NetSuite now offers you two options for certificate deployment.

- **Automatic Certificate** option: Oracle NetSuite offers the Automatic Certificate option, at no additional cost to you, to simplify the process of retrieving a new certificate.
 - In 2020.1, Oracle NetSuite can obtain a Domain Validated (DV) certificate dedicated exclusively to your NetSuite-hosted website. This process is completely transparent to you and your account. Oracle NetSuite will also handle renewal of these certificates.
 - You can enable the Automatic Certificate option on the UI Domain detail page. This option lets you seamlessly migrate to a new DV certificate. Selecting the Automatic Certification option permits Oracle NetSuite to obtain and manage your certificate.
 - This NetSuite-managed certificate is exclusively for your NetSuite-hosted website. This exclusivity prevents potential malicious misuse of your website certificate. It is not possible to export the private key of the certificate from NetSuite.
- **Manual Certificate** option: If you prefer to use a certificate issued by a Certificate Authority (CA) of your choice, you will be able to download a CSR (Certificate Signing Request) for your domain in the NetSuite UI. Your CA must process this CSR. When you receive the certificate from your CA, you must upload it through the NetSuite UI so that the certificate can be deployed to your NetSuite-hosted website. You cannot deploy this certificate outside of NetSuite.

If you wish to manage the SSL certificate yourself, you must act **well in advance** of May 31, 2020. You must download the CSR from NetSuite, obtain a certificate from a CA of your choice, and upload the certificate to NetSuite.

Important: If you cannot replace your certificate by May 31, 2020, by choosing the Automatic Certificate or the Manual Certificate option, Oracle NetSuite will temporarily switch off the CDN caching for your website. Without caching, your website performance may be slower. Switching off the CDN gives you more time to replace your certificate. You can enable CDN caching again after you use either of the two available options to replace your certificate.

The new CDN will be a front-end domain, hosting websites even for domains that are not configured for caching. After the upgrade to 2020.1, expiring certificates for Commerce websites must be renewed using the new certificate deployment options. Oracle NetSuite will generate the CSR. You will no longer be able to generate the CSR yourself with OpenSSL as you may have done in the past.

For more information, see the help topic [Prerequisites for Setting Up Secure Domains](#).

Incorrect HTTP Status Code 206 is Changing to 500

In the past, some browsers inappropriately processed the HTTP status code 500 (Internal Server Error). As a workaround for such situations, NetSuite began using the HTTP status code 206 (Partial Content). The problem that caused some browsers to inappropriately process the 500 error code has long been resolved. However, this workaround (returning the 206 status code) continued to be used in NetSuite. In 2020.1, NetSuite will start returning the correct HTTP status code 500 instead of returning status code 206.



Important: Attention NetSuite customers, partners, the Software Development Network (SDN), and NetSuite Professional Services (PSG): You may have created customizations (for example, RESTlets or Suitelets) where the error handling depends on the HTTP status code 206 (Partial Content). If so, these customizations should be modified so that they also support the correct status code 500 (Internal Server Error). HTTP status code 500 corresponds to the actual error situation that may occur in NetSuite.

This workaround (incorrectly returning the 206 status code) is targeted to be removed from NetSuite in June 2020.

Banking

NetSuite 2020.1 includes the following enhancements to banking features:

- [Bank Feeds](#)
- [Financial Institution Connectivity API](#)
- [Bank Data Matching Improvements](#)
- [Bank Statement Parsers Enhancements](#)

Bank Feeds

Administrators who have online banking set up with their financial institution can now set up bank feeds directly from their financial institution accounts. This feature enables you to monitor and manage your cash flow needs with better accuracy and predictability.

To set up bank feeds, you can use the new Bank Feeds SuiteApp, which uses a third-party data aggregation service to securely connect to financial institutions. To use the SuiteApp, your NetSuite role must have the Financial Institution Records permission with a full access level.

When you set up bank feeds with the Bank Feeds SuiteApp, you can:

- Directly connect to supported financial institutions in the United States and Canada
- Automatically import bank data and account balances on a daily basis directly from your financial institution into NetSuite, which eliminates the need for manual import
- Receive daily updated cash balances



Note: The Bank Feeds SuiteApp is only available for financial institutions in the United States or Canada. However, another way you can set up bank feeds is to develop a custom plug-in and use it in a format profile record. For details, see [Financial Institution Connectivity API](#).

Whether you use the SuiteApp or develop your own plug-in, you need to configure a connection to your financial institution. You do this on the new **Connectivity Configuration** subtab on the format profile record. For details, see [Configuring a Connection to a Financial Institution](#).

After configuration, the Account Mapping subtab is populated with information according to the financial institution accounts for which you have a configured connection. The following illustration displays a populated Account Mapping subtab:

BANK ACCOUNT	CURRENCY	ACCOUNT TYPE	MAPPED NETSUITE ACCOUNT
TESTDATA1_SAVINGS_xxxxxxxx	USD	BANK	1000 Checking
TESTDATA_CHECKING_xxxxxxxx	USD	BANK	1002 Savings

For more information, see Mapping Accounts for Direct Connectivity.

After you save the format profile, NetSuite securely downloads the last 60 days of available bank data, by default. NetSuite also schedules daily updates of your financial data.

Note: This schedule is generated by the system and cannot be modified.

Updated bank balances and imported bank data appear on the Match Bank Data page (previously called Confirm Transaction Matches). In addition to daily updates, there is also a manual update function on the Match Bank Data page. For details, see Updating Imported Bank Data.

As soon as you log in to NetSuite, you can view the status of your accounts through the Account Reconciliation Summary portlet on the Home dashboard.

Account Reconciliation Summary

VIEW

Account Name	Currency	GL Account Balance	Last Reconciled Balance	Last Reconciled Date	Bank Statement Balance	Bank Statement Date	Items to Match
Savings	USD	(\$87,899.09)	\$0.00		\$12,341.00	10/4/2019	10005
Checking	USD	(\$66,489,531,574.13)	\$0.00	10/11/2018	\$12,340.00	10/3/2019	20092
VisaCard	USD	\$0.00	\$0.00		(\$7,030.63)	7/17/2019	8

To go to the Match Bank Data page, click the value in the Items to Match column next to an account.

Financial Institution Connectivity API

Note: The Financial Institution Connectivity API replaces the Bank Connectivity API, which is deprecated as of 2020.1.

In 2019.2, you could only import a bank statement file manually on the Statement File Import page. In 2020.1, you can use the new Financial Institution Connectivity API to develop a SuiteScript plug-in that can automate the import process. A Financial Institution Connectivity Plug-in, in conjunction with a Parser Plug-in, provides an alternative way to set up daily bank feeds, if you cannot use the Bank Feeds SuiteApp.

The API enables you to develop custom SuiteScript plug-ins built for specific financial institutions. You can use these plug-ins for financial institutions both inside and outside of the United States and Canada.

Note: The SuiteApp includes a single non-configurable plug-in that you can only use for financial institutions in the United States or Canada.

The API also enables you to develop your own connectivity applications that provide more options for the way that your system connects to financial institutions.

For more information on the Financial Institution Connectivity Plug-in and its benefits, see [Financial Institution Connectivity Plug-in Overview](#). For details on the Parser Plug-in, see the help topic [Parser Plug-in Overview](#).

You can also use the Financial Institution Connectivity API to develop plug-ins in the SuiteCloud Development Framework (SDF). For an overview of SDF, see the help topic [SuiteCloud Development Framework Overview](#).

In NetSuite 2020.1, to use a custom Financial Institution Connectivity plug-in, you must always create and configure a financial institution and format profile record.

Note: You can only use standard plug-ins in the format profile provisioned by the Bank Feeds SuiteApp.

To configure a direct connection to your financial institution, select a plug-in from the new **Connectivity Method** dropdown list on the Format Profile page. For details on direct connectivity, see [Bank Feeds](#).

Note: After you save a format profile with a custom Financial Institution Connectivity Plug-in, you cannot modify the selected plug-in.

To import manually, select the **Manual Import** option from the Connectivity Method list.

Note: Existing format profile records use the manual import method, which you cannot change.

For information on configuring format profiles in general, see the help topic [Creating Format Profiles](#).

For information on configuring financial institution connectivity, see [Configuring a Connection to a Financial Institution](#). For information on mapping accounts in a format profile that uses the direct connectivity method, see [Mapping Accounts for Manual Import](#).

Bank Data Matching Improvements

NetSuite 2020.1 includes the following enhancements to the matching process:

- [Exclude Imported Bank Data](#)
- [Bank Feeds with a Manual Update Function](#)
- [Resize Column Width and Reorder Grid Columns](#)
- [Workflow and Label Improvements](#)

Exclude Imported Bank Data

On the Match Bank Data page, you can now review and exclude imported bank data from the matching process on the **To Be Matched** subtab (previously called Unmatched). You may want to exclude a transaction if it is old or a duplicate.

To exclude data, see [Excluding Bank Data from the Matching Process](#).

Bank Feeds with a Manual Update Function

Previously, financial institution account data on the Confirm Transaction Matches page was static. You had to manually import new data for reconciliation.

In 2020.1, if the administrator configures a format profile for direct connectivity, NetSuite automatically updates bank data each day. On the Match Bank Data page, you receive newly imported bank data, as well as daily bank balances of the account and the bank balance date. For more details, see [Bank Feeds](#).

If your account in NetSuite does not contain the latest data, or if there was an import error, you can initiate a manual update on the Match Bank Data page. The Intelligent Transaction Matching feature automatically matches any data that NetSuite creates after the last successful import.

For details, see [Updating Imported Bank Data](#). For details on custom matching rules and manual transaction matching, see the help topics [Creating Custom Transaction Matching Rules](#) and [Creating Posting Transactions During Matching](#).

Resize Column Width and Reorder Grid Columns

The process to view unmatched and matched data includes the following improvements:

- **Resize column widths** – Text in a field is sometimes too long to fit in the column. Resize the column width to view the full information. See [Viewing Details of Account Transactions](#).
- **Reorder columns** – Adjust the order of columns to suit your needs. For example, you can move the Amount columns next to each other for comparison. See [Filtering Imported Bank Data and Account Transactions](#).

Workflow and Label Improvements

The bank data matching workflow includes the following improvements:

- **Label changes** – For a more intuitive user experience, the following label updates appear on the Match Bank Data page for 2020.1:
 - To indicate that the data requires manual matching, the Unmatched subtab is now **To Be Matched**.
 - To indicate that the matches are ready to submit for reconciliation, the Review Matches subtab is now **Matches to Submit**.
 - To avoid any confusion around the difference between transaction confirmation and reconciliation, the Confirm Transaction Matches button is now **Submit**. After you match transactions, submit your matches for reconciliation.



Note: A banner message appears with a link to reconcile your data.

- **New links** – The top of the Match Bank Data page now includes a horizontal list of links that let you do other tasks, such as import or reconcile data. The links that appear are role-dependent and can include the following:
 - **Import Statement**
 - **Reconciliation Matching Rules**
 - **Go To Register**
 - **Reconcile Account Statement**

The Reconcile Account Statement page also contains a horizontal list of links (role-dependent), which includes the following:

- **Reconciliation History Report**
- **Reconciled Statements List Page**
- **Go To Register**

Customer Relationship Management (CRM)

NetSuite 2020.1 includes the following enhancements to CRM features:

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Employee Management

NetSuite 2020.1 includes the following enhancements to Employee Management features:

- [Manager Self-Service Enhancements for Employee Change Requests](#)
- [CSV Import for Effective Dating](#)
- [Advanced Employee Permissions – Customizable Restrictions](#)
- [Advanced Employee Permissions – Exclusion of Lists > Employees Permission](#)
- [New Permission Added to Advanced Employee Permissions](#)
- [Bonuses in Compensation Tracking](#)
- [Paying Employee Bonuses with SuitePeople U.S. Payroll](#)
- [Workbook Template: Employee Bonus History and Current Compensation](#)
- [Expense Account Override](#)
- [Employee-Specific Expense Report Attachments in File Cabinet](#)
- [Time Modification Enhancements](#)
- [Vendor Time Thresholds](#)
- [Onboarding Checklist Enhancements](#)

Manager Self-Service Enhancements for Employee Change Requests

In NetSuite 2020.1, the Employee Change Request feature has been enhanced with two improvements to the manager self-service experience:

- [Guidelines and relevant links](#)
- [Salary and job duration insights](#)

HR Administrators can enter guidelines and relevant links on the Employee Change Request Type page to assist managers in initiating employee change requests (ECRs).

The insights for ECRs show the range of employees' salary increases and job duration based on two years of organizational data. These insights provide context for the potential change and help managers and approvers make an informed decision when approving or declining change requests. To enable insights, you select the insights you want offered by going to Setup > HR Information System > Employee Change Request Types and clicking the Insights tab on the change request type. For more information, see the help topic [Setting Up Employee Change Request Types](#).

CSV Import for Effective Dating

In NetSuite 2020.1, customers can use CSV Import to perform bulk updates to the employee record as of a past, current, or future date. All effective dated fields are supported for CSV imports with an effective date.

To use CSV Import for Effective Dating, you must have:

- Full permissions for Import CSV Records
- Full Employee permissions
- Full Employee Record permissions
- Edit permissions for Employee Effective Dating
- Edit permissions for Employee Change Reason

To perform a CSV Import with Effective Dating, include the column's Internal Id, Effective Date, Change Reason, and Change Reason Details and order the rows in the CSV from past to future-dated changes. Follow the prompts for regular CSV Import, then map the Effective Dated fields of Effective Date, Change Reason, and Change Reason Details to the corresponding fields and perform the import. When dealing with effective-dated conflicts, the system will automatically apply future-dated changes as they come up. For details, see the help topic CSV Imports Overview.

The imported changes can be viewed in the Effective Date Log.

Advanced Employee Permissions – Customizable Restrictions

In NetSuite 2020.1, you can now customize restrictions for Advanced Employee Permissions to restrict the instances that a role has access to the employee record by location and subsidiary. Previously, you could only select the following restrictions: Active & Non-Terminated, Subordinates, Own Only, Inherit From Role. To customize restrictions for Advanced Employee Permissions, you must have the Manage Custom Restrictions permission. For details, see Custom Restrictions for Advanced Employee Permissions.

Advanced Employee Permissions – Exclusion of Lists > Employees Permission

In NetSuite 2020.1, the Lists > Employees permission will take precedence over any of the employee permissions included with Advanced Employee Permissions feature. This change is part of a continuing effort to separate the legacy permission model from the Advanced Employee Permissions feature. The Advanced Employee Permissions feature provides more fine-tuned control of access to the employee record than the Lists > Employees permission. The Lists > Employees permission gives full record access to employee records. The Advanced Employee Permissions feature makes it possible to give access to only specific fields and sublists on employee records.

You should review the standard and custom roles in your account that include the Lists > Employees permission to make sure that all users with these roles assigned should have full access to employee records. Any users who should not have full access to employee records should be assigned a different role that does not include the Lists > Employees permission. As needed, a NetSuite Administrator can create alternate custom roles for these users, using Advanced Employee Permissions for more granular field-level control of employee record access. For details, see the help topic Advanced Employee Permissions Overview.

New Permission Added to Advanced Employee Permissions

In NetSuite 2020.1, when the Advanced Employee Permissions feature is enabled it now includes the Employee Record Full permission. A role with this permission can access all the information on the employee record, except for the fields and sublists exposed by the Employee System Access permission. For more information, see Employee Record Full Permission Overview.

Bonuses in Compensation Tracking

The Compensation Tracking feature now supports employee bonuses. You can create multiple bonus types (for example, annual bonus, sign-on bonus, and so on), and you can track bonus targets and bonus awards for your employees. If you use SuitePeople U.S. Payroll, you can also pay bonuses to your employees. For more information, see the help topic Compensation Tracking.

Paying Employee Bonuses with SuitePeople U.S. Payroll

When you use the Compensation Tracking feature and SuitePeople U.S. Payroll together, the bonuses that you award in the Compensation Tracking tab can be included in payroll batches for the appropriate pay periods. On a payroll batch, to include bonuses for the pay period, you can check the new **Pay Bonuses** box. You can also set a preference so that the Pay Bonuses box is checked by default on payroll batches. For more information, see Integrating Bonuses with Payroll.


Workbook Template: Employee Bonus History and Current Compensation

The Compensation Tracking feature includes a workbook template called Employee Bonus History and Current Compensation. This workbook template provides a summary of employees' current base compensation and a history of employees' bonuses, if applicable. For more information, see Employee Bonus History and Current Compensation Workbook.

Expense Account Override

In NetSuite 2020.1, you can now select an expense account for individual expense items on an expense report. Previously, expense accounts on line items were only determined by the selected expense category. The Account field is automatically hidden on expense report forms for line items. You must customize your expense report forms to enable expense account override.

You can now remove the Category field from expense reports and the field is no longer required. When added to a custom form, the Account field is now required. It is populated automatically by the Category field. However, you can update the Account field to select a different account.

 **Note:** You cannot use personal corporate card expenses if you hide the Category field on expense line items.

For more information, see the help topics Understanding Expense Categories and Creating Custom Entry and Transaction Forms.

Employee-Specific Expense Report Attachments in File Cabinet

NetSuite 2020.1 introduces two features to support a new expense report file structure in the File Cabinet. The new structure is required in NetSuite 2020.2. To enable the employee-specific attachments, go to > Setup > Company > Enable Features. Under Data Management, check the **Enhanced File Security – Use Employee Specific Expense Folders** box. When you enable this feature, expense file attachments automatically submit to a dedicated employee expenses folder, predefined by the system.

If you have the Administrator role, you can see the contents of these folders, but employees can no longer locate or access these attachments from the File Cabinet. Employees must instead access their expense attachments from the expense report record.

Also under Data Management, you can enable **Enhanced File Security – Migrate Files** to migrate legacy expense file attachments to their new employee-specific folders.

New accounts provisioned in NetSuite 2020.1 automatically adopt the new folder structure. Existing customers can test the new file structure in the sandbox or release preview accounts.

Time Modification Enhancements

NetSuite 2020.1 introduces the following enhancements to bulk update time entries:

- If you use Charge-Based Billing, you can now update unbilled or non-posted time entries with generated charges. When you update time entries with generated charges, NetSuite deletes all charges associated with the modified time and generates new charges at the next scheduled charge generation.
- When you filter time entries on the Update Time Entries page, only time entries you have permission to edit appear in the list for selection.
- You can bulk edit all time entries submitted for assigned projects. You must be assigned the project manager role on the project record and have full access to the Bulk Time Entry Modification permission in your assigned NetSuite role. This also enables you to edit individual time entry records and timesheets submitted for your projects.
- The time modification request record is now available to use with workbooks. You can use a workbook to audit all time entry updates and actions. For more information, see the help topic Custom Workbooks.
- When you enable the **Override Rates on Time Records** preference, you can now see the Rate and Price Level field for each time entry available for selection.
- When you bulk update the approval status of time entries to Rejected, you can now add a rejection note.

For more information on these enhancements, see the help topic Updating Time Entries.

Vendor Time Thresholds

In NetSuite 2020.1, you can now disable time thresholds on vendor time. Previously, time thresholds applied to both employee and vendor time. A new preference is available at Setup > Accounting > Accounting Preferences > Time & Expenses > Time Tracking. NetSuite sets this preference by default. To disable time thresholds for vendor time, clear the Apply Time Threshold to Vendor Time box.

For more information, see the help topic Time Thresholds.


Item Record Management

NetSuite 2020.1 includes the following enhancement to item record management features:

- [Inventory Costing Preferences](#)

Inventory Costing Preferences

NetSuite 2020.1 does not allow you to access run costing after you create a transaction entry. NetSuite Administrators can still set the run costing frequency to Every Hour or Based on a Custom Schedule.

 **Note:** If there are test accounts that need the After Transaction Entry option for demonstration purposes, please contact NetSuite Professional Services.

Inventory Management

NetSuite 2020.1 includes the following enhancements to Inventory Management features:

- [Supply Allocation Exceptions Management](#)
- [Partially Receive Transfer Order Fulfillment Quantities when Transfer is at Cost](#)
- [Warehouse Management System Enhancements](#)
 - [Support for GS1 Bar Code Types](#)
 - [Inbound Shipment Management Integration](#)
 - [Multi-App Support](#)
 - [Export and Import of Custom Mobile Processes](#)
 - [SuiteScript Exposure of Warehouse Management Records](#)
- [Supply Chain Control Tower Enhancements](#)
- [Shelf-to-Sheet Inventory Count](#)
- [Warranty and Repairs Management Enhancements](#)

Supply Allocation Exceptions Management

In NetSuite 2020.1, Supply Allocation Exceptions Management is designed to help you make informed reallocation choices. To respond to supply shortages, you can review all sources of supply and order allocations to ensure that high priority sales orders ship complete and on time.

NetSuite now generates intelligent supply reallocation recommendations. To minimize the effect on all orders, these recommendations are designed to take the resources from multiple unallocated orders. System generated reallocation recommendations reduces the time to find, review, and execute reallocations. After you accept a recommendation, the system automatically re-aligns the supplies to the affected orders.

After you review allocation exceptions, you can assess all your sources of supply and existing orders. You may need to select one or more order lines from less urgent customer orders to meet the target sales order line requested date and quantity. After the reallocation is approved, NetSuite automatically executes the re-allocations across the selected orders.

However, if the generated recommendations are not suitable, you can generate a new set of allocation recommendations. You can then review reallocation scenarios until you define a solution. After you approve an allocation, the system returns you to the order.

The following functionality is new to Supply Allocation Exceptions Management in NetSuite 2020.1.

Exceptions on Demand Orders

The Reallocate Order Items column has been added to the sales order page in the items subtab. This column displays a Reallocate link. You can click this link to open the Reallocate Order Item page where you can reallocate items.

Sales Order 32 US Customer -Ad hoc **PENDING FULFILLMENT**

Items Shipping Billing Accounting Relationships Sales Team Communication Related Records System Information

COUPON CODE DISCOUNT ITEM
PROMOTION RATE

ITEM	LOCATION	ALLOCATED SUPPLY	COMMITTED	FULFILLED	INVOICED	BACK ORDERED	AVAILABLE	ON HAND	QUANTITY	RATE	AMOUNT	ALLOCATION STRATEGY	SUPPLY REQUIRED BY DATE	EXPECTED SHIP DATE	DAYS LATE	REALLOCATE ORDER ITEM	ORDER PRIORITY
Test Inventory Item	US ONLY LOCATION	0	0	0	0	7	0	0	7	15.00	105.00	FIFO	11/11/2019	1/15/2020	65	Reallocate	10

Edit Back Fulfill Close Order Create Deposit Manage Revenue Recognition Actions

Exceptions on Supply Orders

When a supply order has allocated demand, the Allocated Demand column displays a link to the Allocated Demand window. You can click this link to open the Reallocate Order Item page where you can reallocate items.

Purchase Order 3 US Vendor -West Coast Products and Services **PENDING RECEIPT**

Items Billing Relationships Communication Related Records System Information

EXCHANGE RATE 1.00

ITEM	VENDOR NAME	ALLOCATED DEMAND	RECEIVED	BILLED	RATE	QUANTITY	QUANTITY ON SHIPMENTS	EXPECTED RECEIPT DATE	AMOUNT	OPTIONS	DEPARTMENT	CLOSED	HISTORY
Test Inventory Item		10	0	0	10.00	10	10	10/10/2019	100.00				History

Edit Back Receive Close Actions

Allocated Demand: Test Inventory Item

VIEW: Default Allocated Demand

Customize View

DEMAND TYPE	ORDER	CUSTOMER	ORDER STATUS	ALLOCATED	SUPPLY REQUIRED BY DATE	DAYS LATE	REALLOCATE ORDER ITEM
Sales Order	8	US Cust Set1	Pending Fulfillment	3	10/7/2019	3	Reallocate
Sales Order	12	US Customer - Ad hoc	Pending Fulfillment	3	10/7/2019	3	Reallocate
Sales Order	4	US Customer - High priority	Pending Fulfillment	4	10/7/2019	3	Reallocate

Reallocate Order Item

The new Reallocate Order Item window is available in NetSuite 2020.1.

Reallocate Order Item
Sales Order #32

Cancel | **Generate Recommendation** | Accept Recommendation and Reallocate

Test Inventory Item

CUSTOMER: US Customer -Ad hoc | SALES REP: US Sales Rep MA
 SUPPLY REQUIRED BY DATE: 11/11/2019 | QUANTITY: 7
 PRIORITY: 10 | SET ORDER LINE TO FIRM
 SHIP TO LOCATION:

Recommendation Summary

EXPECTED SHIP DATE (ORIGINAL): 1/15/2020 | SHIP FROM LOCATION: US ONLY LOCATION
 EXPECTED SHIP DATE (RECOMMENDED):

Select Orders for Reallocation | Affected Orders | Allocated Supply

TYPE: - All - | VIEW: Demand Orders Search

Customize View

SELECT	DEMAND ORDER	CUSTOMER	ORDER PRIORITY	COMMITMENT CONFIRMED	QUANTITY	SUPPLY REQUIRED BY DATE	EXPECTED SUPPLY DATE
<input type="checkbox"/>	Sales Order #24	US Customer-High priority	5	F	4	10/21/2019	1/15/2020
<input type="checkbox"/>	Sales Order #27	US Customer-High priority	5	F	4	11/11/2019	11/11/2019
<input type="checkbox"/>	Sales Order #28	US Cust Set1	10	F	3	10/21/2019	11/20/2019
<input type="checkbox"/>	Sales Order #33	US Customer -Ad hoc	10	F	7	10/21/2019	1/15/2020
<input type="checkbox"/>	Sales Order #34	US Customer -Ad hoc	10	T	7	11/25/2019	11/25/2019
<input type="checkbox"/>	Sales Order #33	US Customer -Ad hoc	10	F	7	10/14/2019	1/15/2020
<input type="checkbox"/>	Sales Order #22	US Customer -Ad hoc	10	F	7	10/21/2019	11/20/2019
<input checked="" type="checkbox"/>	Sales Order #22	US Customer -Ad hoc	10	F	7	10/14/2019	10/30/2019
<input type="checkbox"/>	Sales Order #21	US Customer -Ad hoc	10	F	7	10/21/2019	11/13/2019

The new Reallocate Order Item window provides the following functionality:

- You can Generate Recommendations.
- Accept Recommendation and Reallocate to allocate the resources.
- The targeted Sales Order # is displayed in the Reallocate Orders Item page header.
- The Select Orders for Reallocation subtab displays possible source orders resources.
- The Affected Orders subtab displays a system recommended list of orders, resources, and order impact.
- The Allocated Supply subtab displays the available supplies to target and candidate orders after you allocate supplies.

The Order Page

After you allocate resources, the original order page reopens to display the following:

- The updated Expected Ship Date.
- Empty Days Late and Reallocate Order Item fields.
- Updated Allocated Supply and Quantity fields.

Partially Receive Transfer Order Fulfillment Quantities when Transfer is at Cost

NetSuite 2020.1 Supply Chain Management enables you to receive a quantity that is less than the quantity on the fulfillment of a transfer order.


You now can create multiple partial receipts against specific fulfillments for a transfer order. In the Enter Transfer Orders form, select the Use Item Cost as Transfer Cost box to ship and receive against transfer orders when the system uses item cost as the transfer price. To learn more, see the help topic Entering a Transfer Order.

To use this functionality, enable the Multi-Location Inventory. To learn more, see the help topic Enabling the Multi-Location Inventory Feature.


When you check the Use Item Cost as Transfer Cost box, you can record the actual number of received items instead of the total expected quantity.

Supply chain management supports the following costing methods:

- Standard
- Average
- Group Average
- FIFO

 **Note:** Accounts with multi-book cannot partially fulfill a transfer order receipt when the transfer order is at cost.

Warehouse Management System Enhancements

 **Note:** Use of the Warehouse Management System (WMS) feature requires that you install the SCM Mobile and Oracle NetSuite WMS SuiteApps. See the help topic NetSuite WMS SuiteApps.

NetSuite WMS 2020.1 includes the following enhancements to existing functionality:

- **Inventory Status Filter for Bin Lists** - If you use the Inventory Status feature, you can show the Inventory Status column in the bin table of specific mobile pages. This enhancement applies to the list of bins in the putaway process, in the inbound shipment receiving process, and for single or multi-order picking. By default, these mobile pages display the list of bins by status. You can filter and sort bin lists by inventory status or available quantity.
- **Real-time Display of Recommended Bins List** - Work order picking and single or multi-order picking now displays up-to-date lists of recommended bins on your mobile device. If you use pick strategies, they also display filtered and sorted bins based on your pick strategy definition.

For more information about recommended bins, see the help topic Recommended Bin Sorting.

- **New Pick Strategy Filter Options** - On pick strategy records, the Transaction Type filter now includes the Work Order and Replenishment options. You can apply pick strategies to either of these transaction types. For more information, see the help topic Defining Pick Strategies.
- **Updates to the Wave Transaction** - To improve the tracking, display, and sorting of wave transactions, NetSuite WMS now generates sequential wave numbers.

Wave transactions now set the default status to Released, instead of Pending Release. To assign pickers to pick tasks, before you save a new wave, you must set the status to Pending Release.

You can delete a released wave, if all of its associated pick tasks are in a Ready or Failed status and cannot be retried.

NetSuite WMS 2019.2 enhancements that are now generally available in WMS 2020.1 include the following:

- **Bulk Processing Jobs for Fulfillments of Released Orders** - NetSuite WMS uses bulk processing jobs to create fulfillments for released orders. You can monitor the status of multiple bulk processing jobs in real time and view any fulfillment errors.

NetSuite WMS submits bulk processing jobs for completed pick tasks, based on your Per Order or Per Order Line fulfillment preference. The processing time to generate fulfillments varies, depending on the number of transactions and other jobs in your queue. For more information about the fulfillment preference, see the help topic Setting Warehouse Management Preferences.

- **Workbook Support for Warehouse Management Records** - Workbook support is available for the following records and transactions:

- Wave transaction
- Pick task record
- Pick task strategy record
- Zone record
- Item family group record
- Item process group record

Workbook support enables you to create SuiteAnalytics workbooks with any of these records and perform record or transaction searches.

NetSuite WMS 2020.1 introduces the following new functionality:

- [Support for GS1 Bar Code Types](#)
- [Inbound Shipment Management Integration](#)
- [Multi-App Support](#)
- [Export and Import of Custom Mobile Processes](#)
- [SuiteScript Exposure of Warehouse Management Records](#)

Support for GS1 Bar Code Types

NetSuite WMS 2020.1 supports the following GS1 bar code types:

- GS1-128 (1D)
- GS1 DataMatrix (2D)

You can scan the supported GS1 bar code types to enter items for inbound, inventory, or outbound processing.

To set up GS1 bar codes, you must activate the Enable Advanced Bar Code Scanning system rule and map bar code data to NetSuite fields.

Inbound Shipment Management Integration

Inbound Shipment Management Integration enables you to process inbound shipments for your warehouse. On a mobile device, you can receive items from inbound shipments, which updates the associated order and inbound shipment transactions. You can post item receipts manually or configure NetSuite to automatically generate item receipts for received orders.

This integration introduces the Enable Receive All system rule for inbound shipments. You can receive all lots and serial numbers for items on which NetSuite populates the inventory detail on inbound shipment lines.

Multi-App Support

Multi-app support enables you to register and configure multiple mobile applications in your account with the latest SCM Mobile SuiteApp version. On a mobile device, you can switch from the NetSuite WMS application to another NetSuite mobile application.

Export and Import of Custom Mobile Processes

NetSuite WMS 2020.1 supports the export and import of custom mobile processes. You can export a mobile process that you customize. Then, you can also import the custom mobile process to another

NetSuite account. When you configure an imported process, you can specify the roles that can access it on a mobile device.

SuiteScript Exposure of Warehouse Management Records

In NetSuite WMS 2020.1, the following records and transactions are exposed to SuiteScript 2.0:

- Wave transaction
- Pick task record
- Pick task strategy record
- Zone record
- Item family group record
- Item process group record

You can create or update these records through CSV import, with the exceptions of wave transactions and pick task records.

Supply Chain Control Tower Enhancements

NetSuite 2020.1 provides the following enhancements to the Supply Chain Control Tower.

Location Records

Location records now include a User Entry Predicted Risks section that enables you to avoid inventory shortages for particular locations. The Days Late fields can define a number of days past the expected date that an item is likely to be received. The Confidence fields record the percentage of confidence you have that the Days Late prediction is accurate. The values in the Predicted Risks portlet are sourced from these location fields. For new location records, these fields default to 0 Days Late and 100% Confidence. These values will be used if the Supply Chain Predicted Risks feature is not enabled or if intelligent predictions are not available.

Preferences

On the Control Tower Preferences page, you can define the default values for these fields on location records:

- **Vendor Predicted Days Late/Early** — Default Value is 0 days
- **Vendor Predicted Risk Confidence** — Default Value is 100%
- **Sales Order Predicted Days Late/Early** — Default Value is 0 days
- **Sales Order Predicted Risk Confidence** — Default Value is 100%
- **Transfer Order Predicted Days Late/Early** — Default Value is 0 days
- **Transfer Order Predicted Risk Confidence** — Default Value is 100%

Supply Chain Predicted Risks

NetSuite 2020.1 provides a Supply Chain Predicted Risks feature that leverages NetSuite's IntelligentSuite capabilities to make predictions for purchase orders and transfer orders. The predictions appear in the Predicted Risks portlet of the Supply Chain Control Tower. If the feature does not have a trained model to make predictions, it uses the values specified in the location record.

This feature requires a past history of data to be able to create a trained model from which predictions can be made. When the Supply Chain Predicted Risks feature is enabled, the following steps occur:

- The feature confirms that you have met the history thresholds. For purchase orders, this threshold is 500 purchase orders per vendor over the past two years. For transfer orders, this threshold is 500 transfer orders per location pair in the past two years.
- The feature begins training the model.
- When complete, the trained model is used to generate predictions.
- Predictions are available in the Predicted Risk portlet the day after a purchase order is created.
- The model is retrained every three months or when the feature is enabled.

Supply Chain SuiteAnalytics Workbook

NetSuite 2020.1 provides a Supply Chain Control Tower workbook that gives you access to key supply chain metrics and analytics. You can use the workbook to you can generate the standard pivot tables and charts, or customize them according to your business requirements. This workbook uses Past Due Transactions as the source, and includes the following data columns:

- Date
- Days Past Due
- Item
- Location
- Transaction
- Supply Quantity
- Demand Quantity

The workbook uses Supply Chain Snapshot, Item, and Supply Chain Snapshot Details as the three formula.

Manufacturing

NetSuite 2020.1 includes the following enhancements to Manufacturing features:

- [Outsourced Manufacturing](#)
- [Actual Production Dates](#)

Outsourced Manufacturing

The release of NetSuite 2020.1 Outsourced Manufacturing enables you to purchase outsourced assembly production from vendors. This helps you better manage your subcontracted manufacturing processes. This upgrade enables NetSuite to automatically consume (use items or products) production components and then transfer them to a specified location. Outsourced manufacturing automatically synchronizes NetSuite procurement and production transactions.

NetSuite 2020.1 enables you to outsource your manufacturing efforts either from a purchase order or from a work order.

Outsourced Manufacturing includes the following functionality:

- After you edit an outsourced purchase order, the system checks for any constraints between transactions (lowering quantities or charges) to keep them synchronized.

- After receiving an outsourced item on a purchase order, NetSuite builds assemblies for the outsourced work order. The system uses components from your stock to contract manufacturers.
- Receive assemblies at any location within a subsidiary. The system automatically transfers finished products to the designated location.
- NetSuite can handle serialized or lot-numbered assemblies and components.
- The cost of the production charge is the actual charge. Each production run uses the charge on the purchase order.
- Outsourced Manufacturing is compatible with NetSuite Supply Planning and Distribution Network.

Purchase Order

The new Standard Outsourced Purchase Order custom form enables you to create a purchase order for outsourced assemblies that contains specific attributes for outsourced production. For example, you can define the following outsourcing details:

- Assemblies
- Outsourcing Location
- Production Start Date
- Production End Date
- Bill of Materials
- Bill of Materials Revision

The outsourcing form also displays the new Create WO column. When you check the Create WO box on an order line and then save the order, the system automatically creates a work order for this line and purchase order.

ASSEMBLY *	LOCATION *	ITEM *	VENDOR NAME	QUANTITY	RATE	AMOUNT	CREATE WO	BILL OF MATERIALS *	BILL OF MATERIALS REVISION *	PRODUCTION START DATE	PRODUCTION END DATE	CLOSED
39 Chair	US ONLY LOCATION	39 Service OMF		5	22.94	114.70	<input checked="" type="checkbox"/>	39 BOM1	39 BOM1 - Revision3			

After you save a purchase order, the Create WO column displays a link to the new work order. However, if you did not check the Create WO box, a Create WO link appears in the Create WO column. Click this link to prompt the system to create a work order for this order line.

After you save a purchase order, a Receive button appears in the purchase order. Click this button to open the Item Receipt window where you can receive production items from the purchase order.

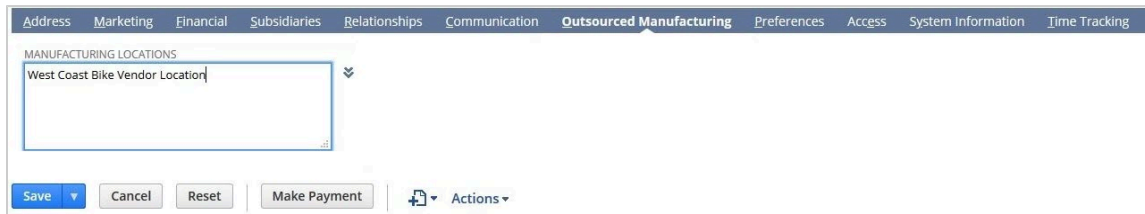
Work Orders

Generally, if you use supply planning and create outsourced items from work orders, you can enter outsourcing-related information in the work order Outsourcing subtab. Similar to the Create WO box on outsourced purchase orders, the outsourced work order displays a Create PO link to create related purchase order. If the purchase order is not created automatically, NetSuite creates outsourced purchase orders for Firmed Work Orders for vendors and subsidiaries.

Manufacturing Locations

To improve inventory tracking, the **Manufacturing Locations** field appears in the **Vendor** window, **Outsourced Manufacturing** subtab.

Click the double arrow icon to assign one or more physical locations to the vendor.



Bill of Materials

Create a **Bill of Materials** to capture final assembly costs that include outsourced production charges.

For example, your organization outsources bicycle manufacturing. However, you provide seats and wheels from stock to the outsourced vendor. A single seat is priced at \$20 while two wheels cost \$70. The vendor provides the other components, assembly location, and assembly labor. The vendor outsourcing charge is \$350.

Combine the inventory outsourcing charges, 20 + 70 + 350, for a total assembly cost of \$440. Standard Non-Inventory/Service/Other Charge items outsourcing charge item costs are taken from the related purchase order.

Item Receipt

The **Item Receipt Items** subtab displays a link to the assembly column. You can also select a different destination location within the same subsidiary. The production location is selected by default. If this location changes, the Inventory Transfer transaction moves inventory from the production location to the destination location. You can also click the link to open the Assembly Build Helper. Save the assembly build helper to display a link to the created assembly build and automatically create a transfer order.

Assembly Build Helper

The new Assembly Build Helper enables you to override existing production data, such as component quantity, lot and serial numbers, or bin-related information.

For example, you provide 20 bicycle seats for a production run. During assembly your vendor broke five seats. As a result, you need to provide an additional five seats from your inventory. Use the Assembly Build Helper to update the original number of seats you provided from 20 to the correct figure of 25. This means you do not have to edit the related assembly build transaction after it is created.

Actual Production Dates

In NetSuite 2020.1, Actual Production Dates are automatically calculated by default for related work order transactions. Actual production dates are available in Assembly Builds for Standard Work Orders, Issue Components, and Work Order Completions for WIP Work Orders. This functionality is automatically available when you upgrade to 2020.1.

This new feature enables you to track actual production dates to better assess your production plans, identify problems, optimize production runs, and make data-driven decisions.

NetSuite calculates production after the first build transaction starts. If you are using WIP, the calculation starts when components are issued. The system end date records when the work order is closed. The end date must occur on the same day or some time after the start date. You cannot record an end date until you entered a start date.

For example, you start to a red mountain bike assembly build. You create a work order on January 16, 2020. The system records this as the production start and end dates. The work order instructions calls for 10 bicycles be built. Two bicycles were built on January 16, 2020. This is recorded as the Actual Start Date. You already eight bicycles in inventory that were built on January 10. This is the assembly transaction date. After you update the assembly build, NetSuite automatically adjusts the work order Actual Start Date to January 10. The Actual End Date is recorded as January 16.

NetSuite automation logic always uses the transaction dates. In this example, the system uses the assembly builds for the non-WIP work order dates.

If you prefer to control actual production dates manually, and do not want NetSuite to calculate actual production dates, you can disable this feature. However, you need to enter actual production dates manually on each work order.

Mobile

- [iOS Push Notification Changes](#)

iOS Push Notification Changes

In 2020.1, server-side updates have been made to the push notifications feature in NetSuite for iOS. To continue receiving push notifications to your devices, after your account has been updated to 2020.1, log in to your NetSuite for iOS app. This one-time action automatically applies the updated server configuration. No further action is required to continue receiving push notifications.

Order Management

NetSuite 2020.1 includes the following enhancements to order management features:

- [Subscription Revisions](#)
- [Changes to Change Orders for Subscription Revisions](#)
- [New Accounting Preference Related to Advanced Revenue Management](#)
- [Automatically Extend Estimated Revenue Recognition End Date](#)
- [Multi-Subsidiary Customer Integration with Billing Accounts](#)
- [Set Subscription Charge Periods to Align with the Subscription Start Date](#)
- [Enhancements to Standard Roles and Permissions](#)
- [Search Enhancements](#)
- [Enhanced Visibility into Automatic Fulfillment Request Creation](#)
- [Create Automatic Fulfillment Requests on Expected Ship Date](#)
- [Improved Handling of Rejected Payments](#)
- [Visa Cards on File Mandate Compliance with Payment Instruments Enabled](#)
- [Automation Usage Figures Now Available on Billing Information Page](#)
- [Electronic Bank Payments Enhancements](#)
- [Grid Order Management Enhancements](#)
- [Subscription Billing Bulk Operations](#)
- [Subscription Billing Pricing Interval UI Enhancements](#)
- [Route Delivery](#)

- Philippine Invoicing
- Auto Close Back Orders

Subscription Revisions

When you create, edit, or void a subscription change order, NetSuite generates a subscription revision with the individual contract modifications and the associated revenue impacts. When you save a subscription change order, all changes associated with it are stored in the subscription revision.

You can view a subscription revision in two places:

- In a column on the subscription line record, as shown in the following figure:

The screenshot shows the NetSuite interface for a 'Subscription Line' record. The 'System Information' section includes fields like 'Subscription Line Revision' (set to 100), 'Subscription Line Revision' (set to 100), and 'Subscription Line Revision' (set to 100). Below this is a table with columns: 'LINE', 'SUBSCRIPTION LINE REVISION', 'CHANGE ORDER', 'CHANGE ORDER EFFECTIVE DATE', 'QUANTITY', 'DISCOUNT', 'PRICE PLAN', 'ACCELERATING AMOUNT', 'TOTAL QUANTITY', 'TOTAL AMOUNT', 'TOTAL CONTRACT VALUE', 'REVENUE CHANGE', 'CREATE REVISION', and 'APPLY TO CHANGE ORDER'. The 'Subscription Revision' column is highlighted with a red box, showing a value of 100 for line 1 and 21 for line 2.

- In a column on the line of the subscription change order record, as shown in the following figure:

The screenshot shows the NetSuite interface for a 'Subscription Change Order - Activate' record. The 'System Information' section includes fields like 'NUMBER' (21), 'EFFECTIVE DATE' (1/18/2020), and 'STATUS' (Voided). Below this is a table with columns: 'LINE', 'SUBSCRIPTION LINE REVISION', 'ITEM', 'DESCRIPTION', 'STATUS', 'START DATE', 'END DATE', and 'SUBSCRIPTION REVISION'. The 'Subscription Revision' column is highlighted with a red box, showing a value of 'Revisions' for line 1 and 'Revisions' for line 2.

Any edits or deletions to subscriptions activated before NetSuite version 2020.1 are not tracked in a subscription revision. Subscriptions that are activated before NetSuite version 2020.1 create a new subscription revision only when you next save a subscription change order.

For more information, see the help topic, SuiteBilling Subscription Revisions.

Changes to Change Orders for Subscription Revisions

The history of changes to subscriptions made using change orders are now saved in subscription revisions. Accountants can more easily track contract and revenue changes made after activation to a specific change order. You also can track changed values over an entire contract term.

You can no longer delete a subscription change order, but you can void it. Voided change orders are visible but do not impact charge amounts, so you can better track the revenue change history when change orders have been removed.

Voided change orders will be exposed to customizations.

You can trigger a voided subscription change order from SuiteScript, but you cannot edit a voided change order.

To revert a subscription line to Pending Activation status, you must void all change orders.

New Accounting Preference Related to Advanced Revenue Management

You use the new **Create Revenue Elements for Subscription Revisions** accounting preference to determine whether individual revenue elements are created for each subscription change order.

When you set the **Create Revenue Elements for Subscription Revisions** preference, all subscription revisions generate modification elements that account for the impact on revenue. When the **Create Revenue Elements for Subscription Revisions** preference is checked, you can prospectively merge the modification element according to the ASC-606 accounting policies. You use the **Create Revenue Elements for Subscription Revisions** preference for proper ASC-606 accounting for subscription modifications when you have allocated revenue. Merged elements are consolidated in the Revenue Summary subtab of revenue arrangements. For more information, see [New Revenue Summary Subtab for Revenue Arrangements](#).

To set this new preference, go to Setup > Accounting > Accounting Preferences > General > Subscription Management > Generate Revenue Elements For Subscription Revisions and check **Create Revenue Elements for Subscription Revisions**.

After you set the **Create Revenue Elements for Subscription Revisions** preference, you cannot change it.

When you create a subscription and set the **Create Revenue Elements for Subscription Revisions** preference, all subscription revisions generate a separate revenue arrangement and corresponding revenue elements.

For more information, see the help topic, Revenue Recognition for SuiteBilling.

Automatically Extend Estimated Revenue Recognition End Date

You can now automatically extend the estimated revenue recognition end date when you create a new evergreen subscription. This improvement means that you can ensure an uninterrupted revenue stream from the subscription. You never need to manually extend the end date.

To automatically extend the estimated revenue recognition end date for evergreen subscriptions, go to Setup > Accounting > Invoicing Preferences. On the Subscription Management subtab, locate the new invoicing preferences:

- Months To Extend Estimated Revenue Recognition End Date
- Months Prior To Estimated Revenue Recognition End Date To Initiate Auto-Extend

Set each preference to an integer value of 1 to 120. To ensure an uninterrupted revenue stream, choose values that are longer than the longest billing cycle that you use. You can edit or turn off the preferences at any time. For more information, see the help topic Setting Optional Invoicing Preferences for Subscription Management.

After you set these preferences, NetSuite assigns those values to every new evergreen subscription you create. If you do not set the preferences, NetSuite assigns the default values for the preferences to new evergreen subscriptions. To assign the preferences to an existing evergreen subscription, edit the Invoicing Preferences for the subscription.

Multi-Subsidiary Customer Integration with Billing Accounts

The Multi-Subsidiary Customer feature is now available for SuiteBilling. If you have billing accounts across subsidiaries, you can take advantage of all Multi-Subsidiary Customer features. For more information about this feature, see the help topic [Multi-Subsidiary Customer Hierarchy](#).

You can add secondary subsidiaries to customers after you complete these steps, in the following order:

1. Enable SuiteTax. See [Subscription Billing Bulk Operations](#).
2. Enable Multi-Subsidiary Customer. See the help topic [Enable the Multi-Subsidiary Customer Feature](#).

Then, when you are creating billing accounts, and you select a customer with multiple subsidiaries, you can select the subsidiary. For more information, see the help topic [Creating Billing Accounts](#).

Set Subscription Charge Periods to Align with the Subscription Start Date

You can now align subscription invoices with the subscription start date rather than its bill dates. Generating charges and invoices at the same time as the subscription start date is easier and more intuitive than generating multiple charges or invoices when a subscription contains several different bill dates. All lines within a single subscription also can have a charge pattern that aligns with the subscription start date instead of its bill dates. Multiple-year subscriptions with multiple charge frequencies (for example, monthly, quarterly, and annual) can now recur based on the subscription start date for easier alignment of invoices.

The **Align Charge Amounts with Subscription** preference separates charge generation and a recurring charge pattern from the bill dates. When you set the **Align Charge Amounts with Subscription** preference, the recurring charge pattern aligns with the subscription header start date instead of the bill dates. The **Align Charge Amounts with Subscription** preference is located at Setup > Accounting > Invoicing Preferences > Subscription Management. When you set the **Align Charge Amounts with Subscription** preference, any activated subscription's recurring charge period is defined by the subscription start date.

When a subscription is in draft or pending activation status and you set the **Align Charge Amounts with Subscription** preference, the subscription lines may display the original recurrence start date until you activate the subscription.

You can set or clear the **Align Charge Amounts with Subscription** preference at any time. However, subscriptions have the recurrence pattern defined by the preference setting at the time of activation.

For instructions, see [Aligning Charge Amounts with the Subscription Start Date](#).

Enhancements to Standard Roles and Permissions

All roles have the following new permissions for viewing or editing:

- price book
- price plan
- subscription change order

The default permission level is View. There are optional permissions for Create and Edit. Roles with Full access permission can view, edit, create, and except where noted in the help, delete.

SuiteBilling permissions and changes to standard roles are documented in SuiteBilling Roles and Permissions.

The Sales Vice President role can now view subscriptions and usage. The Marketing Administrator, Marketing Assistant, Marketing Manager, Resource Manager, and Store Manager roles can now view subscription plans. Customized roles with subscriptions and subscription plan permissions are not changed by new permissions.

Only the System Administrator role can grant access to SuiteBilling subscription processes. Subscription processes include actions on subscription plans, subscriptions, price books, price plans, subscription change orders, and usage.

The following roles have default permissions to access and perform subscription processes:

- Advanced Partner Center
- CEO
- CFO
- System Administrator

The System Administrator role provides full access to the subscription record. For instructions, see Granting Permissions to Subscription Records.

The System Administrator role can set up standard pricing that cannot be modified through the following actions:

- Limit the number of users who can edit the subscription pricing
- Reduce the permissions to edit a specific price plan, subscription change order, or price book

In addition, usage no longer requires the accounting list permission. The Billing Specialist role without the accounting list permission can create usage through a usage record. For instructions, see the help topic Creating Usage Records.

The Billing Specialist role can view what the price plan and price book will be on a renewed subscription before its renewal. For instructions, see Viewing Pricing Before Subscription Renewal.

Search Enhancements

Subscription and Subscription Change Order searches have added Default Renewal Subscription Plan and Default Renewal Price Book columns.

Enhanced Visibility into Automatic Fulfillment Request Creation

A new log is available in NetSuite 2020.1 that provides information regarding the creation of fulfillment requests. This log enables you to audit the automation process. You can view the log directly in the Business Events Processing History, under the System Information subtab of a sales order. In addition, you can create a saved search or a SuiteAnalytics workbook using the log data.

For more information, see the help topic Fulfillment Request Creation.

Create Automatic Fulfillment Requests on Expected Ship Date

NetSuite 2020.1 can now automatically create a fulfillment request when an expected ship date is reached. This new option is on the Advanced Order Management Setup page.

When the expected ship date is a future date, for example set by supply allocation, this option enables the automatic creation of fulfillment requests on that date. The new feature helps optimize the order management workflow, as warehouse employees receive the fulfillment request on the planned fulfillment date.

For more information, see the help topic [Fulfillment Request Creation](#).

Improved Handling of Rejected Payments

Rejected payments no longer block invoices and no longer appear as usable credit.

Visa Cards on File Mandate Compliance with Payment Instruments Enabled

All merchants that process credit cards must comply with the new Visa Stored Credential Transaction framework. The framework includes mandates to identify the initial storage and subsequent use of payment credentials. The mandates apply to either a Visa card or a gateway token that represents a Visa card.

If you enable the Payment Instruments features, and your gateway provider supports this feature, your Visa card processing through NetSuite becomes automatically compliant with the new Card on File mandate from Visa. Note that failing to comply with the Card on File mandate may result in penalties.

Automation Usage Figures Now Available on Billing Information Page

You can now view automation usage figures on the Billing Information page in your NetSuite account. Go to Setup > Company > NetSuite Account Information > View Billing Information to view the Billing Information page. Automation usage figures currently include automation related to the automatic assignment of fulfillment locations and the automatic creation of fulfillment requests. Usage figures are updated by the system on a daily interval, based on the automation events of the previous day. Additional methods to view usage figures with saved searches or SuiteAnalytics workbooks are described in the [Automation Capacity and Usage Fees](#) help topic.

Projects

NetSuite 2020.1 includes the following enhancements to Projects features:

- [Advanced Project Budgets Enhancements](#)
- [Advanced Project Profitability Enhancements](#)
- [Project Revenue Recognition Enhancements](#)
- [Preferred First Day of a Week Available for RACG Calendar](#)

Advanced Project Budgets Enhancements

The Advanced Project Budgets feature now enables you to track costs and revenue and let you define a fully customizable work breakdown structure within each budget. Advanced Project Budgets offers

a better understanding of how project budgets are consumed within individual projects and across projects.

With Advanced Project Budgets, you can now:

- Generate budget vs. actual reports across multiple projects.
- Estimate costs based on items.
- Estimate costs based on project resources.
- Display actual costs that are not included in the work breakdown structure or budget.
- Generate a budget cost burn chart.
- Display a progress bar for the forecasted margin in relation to the current budget.
- Display the total amounts of the budget in the total row.
- Edit a new version of the budget.

In NetSuite 2020.1, the following reports are updated:

- **Budget by Activity Codes** – You can now use activity codes instead of item sets. NetSuite automatically creates reports defining the activity code dimension for cross-customer and cross-project reporting. Report names are Budget vs. Actual by Activity Codes, Budget vs. Actual by Activity Codes Detail, Budget vs. Actual by Activity Codes by Month, Budget vs. Actual by Activity Codes by Month Detail.
- **Budget by Budget Lines** – NetSuite automatically creates reports that define the work breakdown structure dimension for project reporting. Report names are: Budget vs. Actual by Budget Line, Budget vs. Actual by Budget Line Detail, Budget vs. Actual by Budget Line by Month, Budget vs. Actual by Budget Line by Month Detail.
- **Budget by Items** – NetSuite does not create the budget by items report by default for new customers of advanced project budgeting. The existing reports are maintained as they are. You can create the item report manually.

For more information, see the help topic Advanced Project Budgeting. See also Activity Codes.

Advanced Project Profitability Enhancements

NetSuite 2020.1 includes enhancements to improve usability and performance to the Advanced Project Profitability feature. Administrators can now select whether to recalculate financial data on-the-fly or periodically. Go to Setup > Accounting > Project Profitability > Performance to set preferences for caching, recalculating, and pre-filtering of financial data

The following additional enhancements are included:

- **Recalculate Financial Data** – You can now initiate a recalculation of financial data by selecting Recalculate Financial Data in the Actions menu on project, work breakdown structure, and budget records.
- **Display Approved Time as Actual** – You can now select an approved time as an actual cost without posting the time. You can also display tracked and approved time as an actual cost on the P&L subtab so that estimate at completion and an estimate to complete calculations are more accurate.
- **Inclusion of Forecast and Actual Charges** – You can now include forecast and actual charges in project profitability configurations. All forecast and actual charges appear as committed revenue. If an actual charge has already been invoiced, the charge is ignored. If a project charge is used on a sales order, the calculation of the remaining billable amount follows the charges and not the unbilled quantity on the sales order. Previously, when multiple project charges were referenced on one sales order line calculation errors may occur. With Advanced Project Profitability in NetSuite 2020.1, you can

see the impact on revenue from billable time and forecasted milestone and fixed date billings on a project.

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

Project Revenue Recognition Enhancements

In NetSuite 2020.1, a new warning appears to indicate incorrect combinations of charge-based billing and project revenue recognition rules.

For accounts using project percent complete revenue rules, a temporary preference is available on the Accounting Preferences page. You can choose to recognize revenue for percent complete rules at the event submission date or the event source date.

For more information, see the help topic [Project Revenue Recognition](#). See also [Revenue Recognition Rules](#).

Vendors, Purchasing, and Receiving

NetSuite 2020.1 includes the following enhancements to the vendors, purchasing, and receiving features:

- [Vendor Prepayments from Purchase Order](#)
- [Vendor Prepayments Auto-Apply](#)
- [Vendor Prepayments Additional Functionalities](#)
- [Vendor Bill Approvals in the Employee Center](#)

Vendor Prepayments from Purchase Order

As of NetSuite 2020.1, you can associate one or more vendor prepayments to the purchase order for a vendor. You can associate a purchase order and a vendor prepayment in one of two ways:

1. From the purchase order page after entering the transaction, using the new Enter Prepayment button.
2. From the vendor prepayment page, using the new Purchase Order dropdown list.

You can associate multiple vendor prepayment transactions to the same purchase order. The Related Records tab on the Purchase Order page provides control on the vendor prepayments that are associated to each purchase order.

Associating the vendor prepayment to the purchase order is optional. You still can enter and apply your vendor prepayments without linking them to a purchase order (standalone vendor prepayments).

Vendor Prepayments Auto-Apply

When you associate a vendor prepayment to the corresponding purchase order, you can configure NetSuite to automatically apply the vendor prepayment to the vendor bills using the new Auto-Apply Vendor Prepayments preference. With this preference, you do not need to manually apply vendor prepayments to bills. Auto-Apply records the vendor prepayment application automatically in the background.

For vendor prepayments that are not associated to a purchase order, you must complete the application manually. The following diagram shows the different options when applying vendor prepayments:

	Automatic Application with Auto-Apply	Manual Application
Vendor Prepayment from Purchase Order	✓	✓
Standalone Vendor Prepayment	✗	✓

To streamline this automatic application process, Auto-Apply works using the NetSuite system credentials. The employee entering or approving the vendor bills does not need to have permission to work with vendor prepayments.

The Auto-Apply Vendor Prepayments preference is set by default, affecting all prepayments transaction that meet the Auto-Apply conditions. If the vendor prepayment does not meet the Auto-Apply conditions, you must apply the prepayment manually. If you want to apply prepayments manually, you must clear the Auto-Apply Vendor Prepayments box. To set the Auto-Apply preference, go to Setup > Accounting > Preferences > Accounting Preferences. Under the Accounts Payable section, check or clear the Auto-Apply Vendor Prepayments box.

Vendor Prepayments Additional Functionalities

The core Vendor Prepayments functionality has been improved and extended in NetSuite 2020.1. You can now use the NetSuite Advanced PDF and HTML feature to print and customize vendor prepayment vouchers. You can create customized versions of these vouchers using the NetSuite WYSIWYG template editor, print these vouchers in PDF format, or attach vouchers in your communications using the Communication tab.

Additionally, Vendor Prepayments in NetSuite 2020.1 includes:

- Overall usability improvements.
- Support for Custom GL Lines. For more information, see the help topic Custom GL Lines Plug-in Overview.
- Improved validations to minimize errors when multiple users work with vendor prepayments concurrently.
- Exposure of Vendor Prepayment records in SuiteScript.

Vendor Bill Approvals in the Employee Center

Previously, users assigned to the Employee Center role could not approve vendor bills. As of NetSuite 2020.1, the Employee Center role includes the necessary permissions to review and approve vendor bills.

To approve vendor bills in the Employee Center, you must configure the following two permissions:

- **Bills** - Grants users the permission to view vendor bills.
- **Vendor Bill Approval** - Grants users the permission to approve or reject vendor bills.

Users assigned the Employee Center role cannot approve vendor bills by default. You must configure the necessary permissions in the Employee Center role first.

You can complete the approval process using the standard vendor bill approval, or a custom vendor bill approval workflow in SuiteFlow. For information about the different approval options, read the help topic [Vendor Bill Approvals](#).

Taxation

NetSuite 2020.1 includes the following enhancements to taxation features:

- [SuiteTax Support for Non-Claimable Reverse Charge Tax Types](#)
- [Portugal Tax Audit Files Field Mapping Page Update](#)
- [Philippines Certificate of Creditable Tax Withheld at Source \(Form 2307\) Update](#)
- [Cyprus VAT Return Enhancement](#)
- [Singapore Goods and Services \(GST\) F5 Return Update](#)
- [Germany VAT Return Update](#)
- [Tax Reporting Category for Country Tax Reports](#)
- [Tax Reporting Category Support for Australia and Philippines Tax Reports](#)
- [Tax Point Date Support for SuiteTax Reports](#)
- [JAPAC Support for SuiteTax Reports](#)
- [EMEA Tax Audit Files Support for SuiteTax Reports](#)
- [SuiteTax Support for Tax Groups](#)
- [Belgium Localization](#)
- [EMEA Localization](#)
- [Netherlands Localization](#)
- [New Simplified India GST Tax Return Reports](#)
- [Sweden Tax Reports](#)
- [United Kingdom Localization](#)

SuiteTax Support for Non-Claimable Reverse Charge Tax Types

In NetSuite 2020.1, a new non-claimable reverse charge tax type is available to ensure that both reverse charge and post to item cost can be selected on the same tax type.

Non-claimable reverse charge tax type supports non-claimable tax deductions on reverse charge tax types. For example, you can apply this tax type when you buy products from a different country and must pay VAT to your domestic tax authority, but cannot claim the reverse charge tax from your tax authority.

This enhancement also supports existing customers and partner requirements based on local tax rules.



Note: The combination of both properties is allowed only when you create the tax type for the first time. These settings cannot be edited later.

User Interface

NetSuite 2020.1 includes the following enhancements to the NetSuite User Interface:

- [Submit an Advanced Customer Support Case Through SuiteAnswers](#)
- [Help Center Available in Chinese](#)
- [Advance Notice: Microsoft Internet Explorer 11 End of Support](#)

Submit an Advanced Customer Support Case Through SuiteAnswers

You can now raise an Advanced Customer Support (ACS) case directly from SuiteAnswers. You can submit a case by clicking the **Contact ACS Support Online** button on the right of the homepage under **Submit a Case**. When you submit a case, you can select one of the following product areas:

- SuiteCloud
- SuiteCommerce
- POS | SCIS
- ERP
- CRM | SFA
- OpenAir

After you fill in all of the required fields and provide a detailed description, you can review and update your created case in the NetSuite Account Center. For more information about contacting ACS, see the SuiteAnswers article [Submitting an Advanced Customer Support Case \(ID 89362\)](#).

Help Center Available in Chinese

In addition to German, English (U.S.), Japanese, and Spanish (Latinoamérica), the Help Center is now also available in Chinese.

To change the Help Center language, click the current language in the upper right corner of the Help Center page and select a language from the list of available languages.

Note: The language preference for the Help Center is independent of the language preference specified for the NetSuite user interface.

Advance Notice: Microsoft Internet Explorer 11 End of Support

As of 2020.2, the NetSuite application will no longer support Microsoft Internet Explorer 11 or its rendering engine embedded in other browsers. Users will still be able to log in to NetSuite using Internet Explorer 11, however support will not be offered for defects specific to this browser or its rendering engine.

Note: Internet Explorer 11's rendering engine may be embedded in other browsers seamlessly. For example, the new Chromium-based Microsoft Edge browser (to be released in early 2020) will offer a seamless switch to the legacy rendering engine (it is called "Internet Explorer Mode") for pages IT administrators configure for their users. Support for the Chromium-based Microsoft Edge (new rendering engine only) is currently being evaluated.

If you are using Microsoft Internet Explorer 11, you should switch to another supported browser. As of 2020.2 NetSuite will no longer test or address any issues related to Internet Explorer 11.

Users relying on enterprise features of the browser are encouraged to discuss options with their respective vendors or visit [Microsoft Edge is the browser for business](#).

Additional Resources:

- [The perils of using Internet Explorer as your default browser](#).
- Updates about Chromium-based Edge development: [Microsoft Edge Blog](#).

Commerce Applications

Release notes for the **2020.1** release of SuiteCommerce and SuiteCommerce Advanced will be published at a future date. See the help topic 2019.2 Release of SuiteCommerce and SuiteCommerce Advanced for release notes on the current release.

Commerce Extensions

Commerce Extensions provide additional functionality to your Commerce web store.

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



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

Site Management Tools

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

- [SMT UX Sustainability](#)
- [Sass Pre-Processor Enhancements](#)

SMT UX Sustainability

This release enables browser bar navigation when you are logged in to Site Management Tools. This lets the forward and backward buttons of the browser function properly so you can browse your own history in the SMT screens. The SMT admin URL is always visible and editable.

With the switch to route-based screens, you can now share URLs to direct screens in SMT instead of being taken to the home page immediately after you log in. The base markup for the frame, sidebar, and toolbar are updated to reduce the overall amount of code used.

Sass Pre-Processor Enhancements

The Sass precompiler enables server-side Sass compiling for extension activation. This lets SuiteCommerce display previews of the theme skin variables while you are logged in to Site Management Tools. You can view the changes to the theme skin variables as you make the changes. The edits you see are a preview only and a full rebuild is done to the site when requested or after an idle timeout.

Commerce Merchandising

NetSuite 2020.1 includes the following enhancements to commerce merchandising features:

- [Bulk Item Download using the Item Search API](#)
- [Improved Process for Applying Merchandise Hierarchy Attributes to Items](#)
- [Merchandise Hierarchy Visual Layout Enhancements](#)
- [Standard Merchandise Hierarchy SuiteAnalytics Workbook](#)

Bulk Item Download using the Item Search API

To enable you to easily download an offline copy of your item catalog, we have introduced a new endpoint `/api/items/bulk`. The bulk endpoint makes it possible to download even the largest item catalogs by paginating them efficiently. You can also use input parameters with the bulk endpoint to retrieve record attributes of recent items and items modified since the last request.

For more information, see [Bulk Item Download API](#).

Improved Process for Applying Merchandise Hierarchy Attributes to Items

In NetSuite 2020.1 we have improved the process for applying attributes to items in a merchandise hierarchy. Now users can apply attributes directly to a selected item in the Hierarchy Manager without using a mass update.

For more information, see the help topic [Applying Attributes to Items in a Merchandise Hierarchy](#).

Merchandise Hierarchy Visual Layout Enhancements

We have introduced navigation improvements to the visual hierarchy tree in the Hierarchy Manager for NetSuite 2020.1. The new navigation features make it easier for users to view and move around their entire hierarchy tree structure.

Users can now:

- Collapse and expand branches of the hierarchy tree
- Activate an overview map that displays their location within the hierarchy tree
- Retain their point of reference in the tree after performing an update to the hierarchy structure

For more information, see the help topic [The Hierarchy Manager](#).

Standard Merchandise Hierarchy SuiteAnalytics Workbook

From NetSuite 2020.1 we have provided a new preconfigured standard Merchandise Hierarchy workbook in SuiteAnalytics. This workbook lets you analyze sales and inventory performance at both product category and attribute level. Furthermore, it can be accessed directly from the Hierarchy Manager.

For more information, see the help topic [Using Merchandise Hierarchy to Analyze Sales and Item Performance](#).

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 2020.1 includes the following enhancements:

- [New Domains Setup Procedure](#)
- [Redirect URL Domain Enhancements](#)
- [Creating and Editing Web Sites by Type](#)
- [Adding Items to Item Collections using Saved Searches](#)
- [Creating Item Collections using CSV Import](#)
- [Introducing Web Store Order Workbook Template](#)
- [Update to Commerce Elevated Permission Framework](#)
- [Account-Specific Domains for Marketing Campaigns and Online Forms](#)
- [System Email Template Customization](#)
- [Commerce Category Customer Segment Assignment](#)
- [Commerce Category Multi-Language Support](#)

New Domains Setup Procedure

The Domains Setup form has been redesigned to simplify setting up domains for web stores. The new process lets you select the type of domain you want to set up and then displays a form with the essential fields required for that domain type. Advanced domain setup options are also available.

For information on how to set up different types of domains, see the help topic [Set Up a Web Store Domain](#).

Redirect URL Domain Enhancements

The following enhancements have been made to the Redirect URL domain type:

- **Secure Redirect URL Domains** - Prior to 2020.1, if a redirect domain was set up for a secure domain, visitors to the secure domain were redirected to an unsecure domain. From 2020.1 onwards, the Redirect URL domain type can be set to be a secure domain. For example:

Prior to 2020.1: `https://www.olddomain.com` would redirect to `http://www.newdomain.com`

2020.1 onward: `https://www.olddomain.com` redirects to `https://www.newdomain.com`

- **Option to preserve file path and parameters** - The second enhancement to Redirect URL domains is that it is now possible to preserve the original path requested by the website visitor when redirecting them to the Redirect URL domain. Prior to 2020.1, regardless of the original path requested, redirection was done to the main Redirect URL domain. For example:

Prior to 2020.1: `https://www.olddomain.com/product-a` would redirect to `http://www.newdomain.com`

2020.1 onward: `https://www.olddomain.com/product-a?param=1` can redirect to `https://www.newdomain.com/product-a?param=1` or `http://www.newdomain.com`, depending on the selected option

Preservation of the file path and parameters is an optional feature activated using the **Include File Path and Parameters in the Redirect** checkbox on the domain setup form.

Creating and Editing Web Sites by Type

This new 20.1 feature enables you to filter and to create sites based on the selected type or Commerce web store product offering. Each web site record is now associated to a specific type, and can be filtered

accordingly. As a result, only the specific filtered sites are displayed across the system in lists, dropdown menus, etc.

Previously, Commerce web sites could only be filtered as either belonging to Site Builder or to SuiteCommerce Advanced. With the introduction of this new feature, you can create, edit, and update your site based on the selected Edition:

- Site Builder
- Advanced (this includes SuiteCommerce, SuiteCommerce Advanced, SuiteCommerce My Account, SuiteCommerce InStore)

To use this feature, you must have the relevant Commerce product enabled for your account. Once the feature is enabled, you can use it by going to Setup > Site Builder / SuiteCommerce Advanced > Web Site Set Up.

For information on the available site types, see [Commerce Web Site Types](#).

Adding Items to Item Collections using Saved Searches

From 2020.1 onwards, you can create dynamic item collections and assign items to them using saved searches. Every time an item meets the saved search criteria, it is automatically added to the item collection.

For example, you can set search criteria to create an item collection of all items manufactured by a particular company. When a new item manufactured by the company is added to the item catalog, the item automatically becomes a member of the dynamic item collection. If the manufacturer discontinues an item and the item is removed from the item catalog, that item is removed from the item collection automatically.

Another change to item collections is that creating an item collection and adding items to it is now a single step process.

For more information on creating dynamic item collections, see the help topic [Creating Item Collections](#).

Creating Item Collections using CSV Import

CSV imports are now available for static item collections. Creating a static item collection using CSV Import is a two step process because you must import item collections and the item collection members separately. Item Collection records and Item Collection-Item Map records are linked together using the Item Collection External ID which ensures that the correct items are mapped to the correct item collection.

Note: It is essential that the CSV import file for Item Collection-Item Map contains the related Item Collection External ID in the correct format. For a template and instructions on how to create the file correctly, see the help topic [Item Collection Item Map](#).

The following CSV import types are available:

- **Item Collection** - this creates an Item Collection record for each item collection listed in the CSV import file.
- **Item Collection-Item Map** - this creates an Item Collection-Item Map record for each item collection.

Note: CSV imports are not available for dynamic item collections and their members.

For more information on creating item collections using CSV imports, see [Item Collections CSV Import](#).

Introducing Web Store Order Workbook Template

As part of 20.1 release, NetSuite is making a new workbook template available for SuiteAnalytics users. The workbook template is named **Web Store Orders**, and it helps track and retrieve data regarding the items that were ordered through a web store. Furthermore, workbook users can also analyze which items have been purchased in which site.

As such:

- The Web Store Order report provides an overview on the items ordered through the web store. It shows transactions which were submitted from the web store and groups them by item name.
- The Customers Ordering Items report provides visibility into customers and the items they ordered.
- The Items Ordered by Customers report helps visualize the items that were ordered.

You can access this workbook template by going to Analytics > Standard Workbooks > Web Store Orders.

For more information on how to use this workbook template, see [Web Store Order Workbook Template](#).

Update to Commerce Elevated Permission Framework

Elevated permissions enable .ss and .ssp files to access records that are not normally available for execution by the Anonymous Shopper role. In 2020.1, the list of records for which elevated permissions are available has been optimized.

For more information on elevated permissions, see the help topic [Link Website Customizations to User Roles \(SuiteScript 1.0\)](#) or [Link Website Customizations to User Roles \(SuiteScript 2.1\)](#). For a list of supported records, see [Records Supported by Elevated Permissions Framework](#).

Account-Specific Domains for Marketing Campaigns and Online Forms

In the past, NetSuite domains were always specific to the data center where your account was hosted. Links in online customer, case, and customer forms pointed to these data center-specific domains. Similarly, links in marketing templates also pointed to the data center-specific domains. These data center-specific links have made it difficult to seamlessly move NetSuite accounts among different data centers.

Over the past few years, NetSuite has introduced account-specific domains. These domains do not contain data center-specific identifiers. Instead, they contain your NetSuite account ID. Account-specific domains remove dependencies on the data center where your account is hosted. An account-specific domain has the format <accountID>.<service>.netsuite.com, where <accountID> is a variable that represents your NetSuite account ID, and <service> is a variable representing a specific NetSuite service.

As of 2020.1, automatic redirection has been set up so that all links in online forms and email templates redirect to your account-specific domain. For example, there may be a data center-specific URL in the **Redirect to URL field** on the **Set Up Workflow** tab of an online form. When a user submits the form, NetSuite automatically redirects them to your account-specific domain.

As part of this change, the nsvirtual domain has been deprecated. The nsvirtual domain was used in marketing template and campaign links to point to NetSuite domains. As of 2020.1, the nsvirtual.com domain has been replaced by the <account_id>.customer.netsuite.com domain.

You should replace the data center-specific links in your account with account-specific domain links. For more information, see the help topic [How to Transition from Data Center-Specific Domains](#). It may take some time for you to plan and schedule replacing the data center-specific links in your online forms. During this time period, the automatic redirection will smooth your transition to account-specific domains.

System Email Template Customization

In the 20.1 release, System Email Templates (SETs) receive an updated interface that provides a more intuitive way for customizing templates. In previous releases, you were able to customize SETs by clicking **Edit** on the SETs list. The name of this button has now been updated to **Customize**. In addition, a **Customize** button has been added to standard SETs.

You can access the SET customization feature by going to Setup > Company > Email > System Email Templates (in administrator mode) and pressing **Customize** next to the email you want to customize.

For more information on how to customize SETs, see the help topic [Customizing Templates for System-Automated Email](#).

Commerce Category Customer Segment Assignment

With Personalized Catalog Views enabled, this feature lets you directly associate a category with a customer segment from the category form. Previously, you had to use the Customer Segment Manager in NetSuite administration to create the associations. Now there is a tab on the commerce category form in NetSuite administration that lets you assign the category to one or more customer segments.

For more information on using Personalized Catalog views, see the help topic [Personalized Catalog Views](#).

For more information on using Customer Segment Assignment, see [Commerce Category Customer Segment Assignment](#).

Commerce Category Multi-Language Support


The 2020.1 release adds the ability to use multiple languages for commerce categories and subcategories. There is a language selector at the top of the edit form that lets you select which language you want to edit. On this form, only the translatable fields display when a language other than the company base language is used.

There is a domain switcher on the toolbar that displays all domains associated with the website, grouped together by language. If the multi-language features are not in use, the domains are listed in a single, ungrouped list.

For more information, see [Commerce Category Multi-Language Support](#).

SuiteCommerce InStore

SuiteCommerce InStore (SCIS) uses a phased release process to distribute managed-bundle upgrades. Each phase consists of a different group of customers that receive the latest SCIS release. Administrators set up for customers within a phased group receive an email notification listing when their upgrade will occur.

 **Note:** Contact your account representative or Customer Support if you have questions about the availability of SCIS 2020.1.

This SCIS release provides behind-the-scenes performance improvements and new Application Performance Management (APM) sensors.

New APM Sensors

We added the following sensors to assist you with monitoring and managing performance at the SCIS point of sale.

- **Display add customer form** — Lists the time used to prepare and display a form for adding a new customer. Begins when sales associate taps option to add new customer. Ends when customer form displays.
- **Apply line-item discount, cart ready** — Measures the time used to add a discount to an item in the cart. Starts when sales associate applies the discount from the discount form. Ends when the associate can resume interacting with the cart.
- **Retrieve transaction from scan** — Displays the time spent retrieving transaction information via a NetSuite search initiated by SCIS. Begins when sales associate scans transaction code on receipt. Ends when SCIS receives the information from NetSuite.
- **Display retrieved transaction** — Shows the time used to display scanned-transaction information retrieved from NetSuite, Begins when information is made available to SCIS. Ends when SCIS displays the information to the sales associate.
- **Display store transaction history** — Measures the time required to display a transaction from the store's history option. Begins when sales associate taps option to display history and ends when the transaction list displays.
- **Begin return from transaction details** — Displays the time spent preparing a return from transaction details. Starts when sales associate initiates return from transaction details. Ends when return form opens and associate can begin selecting return options. Associate can start return via receipt scan, transaction history list, or customer timeline.

SuiteApp Distribution

SuiteApp distribution includes SuiteBundler and SuiteApp Marketplace capabilities that you can use to distribute customizations to accounts.

NetSuite 2020.1 includes the following changes:

- [Bundle Support During Release Phasing](#)
- [New SuiteApp Marketplace Available for Distributing SuiteApps](#)
- [Localization Context Filtering Supported for Scripts in Bundles](#)
- [Translatable Field References to Terms in Translation Collections Supported in Bundles](#)
- [SuiteBundler Support Updates](#)

Bundle Support During Release Phasing

Bundle support during phasing of 2020.1 is consistent with the support provided during previous releases. During phasing of 2020.1, some accounts continue to use 2019.2 at the time that other accounts are upgraded to 2020.1. Therefore, you may be using a different version than some of the accounts where your bundles are installed.

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

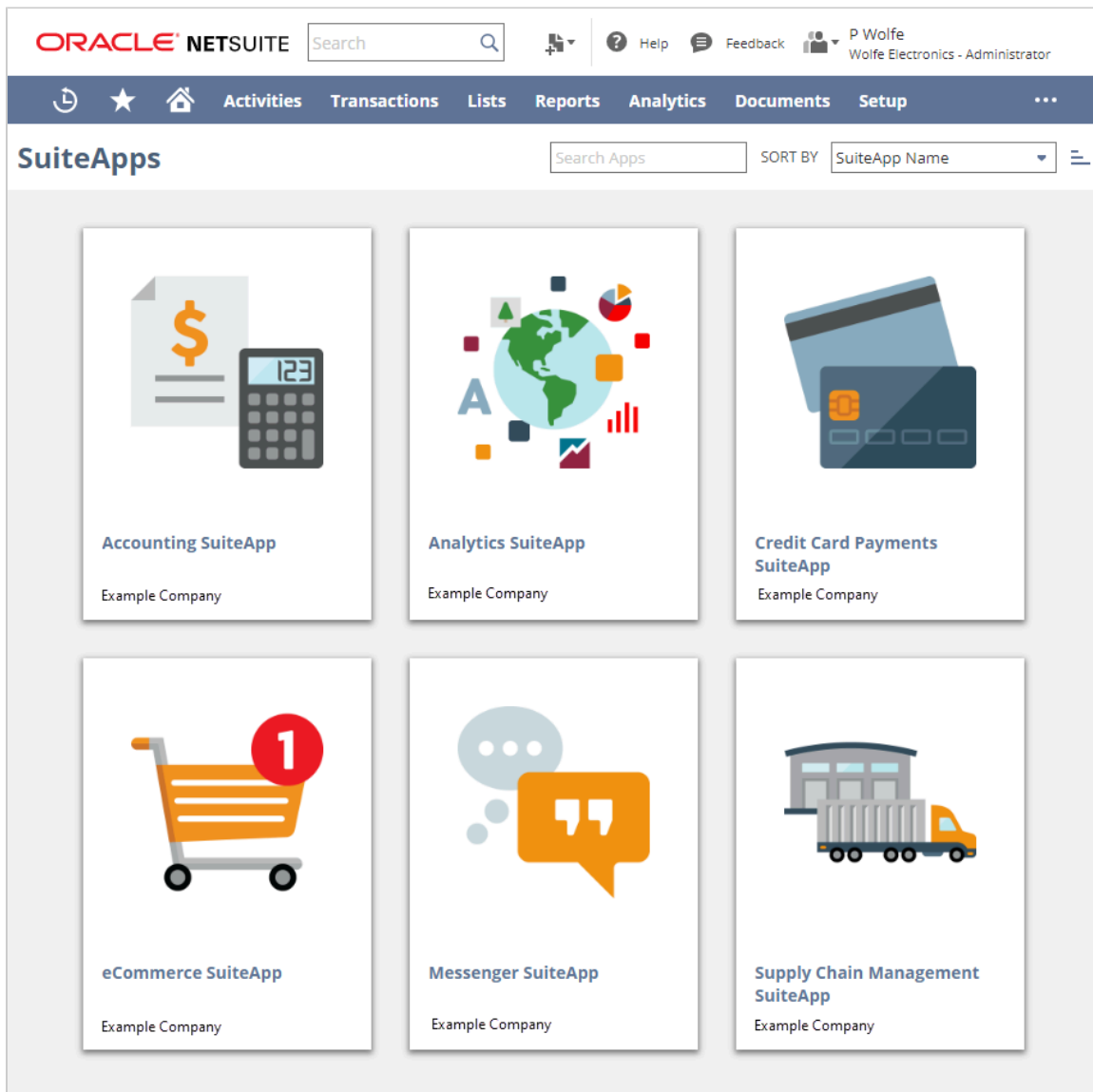
- Bundles developed with 2019.2 can be installed into accounts that are already using 2020.1.
- Bundles developed with 2020.1 can be installed into accounts that are still using 2019.2, but note the following limitations:
 - When a user in a 2019.2 account installs a bundle from a 2020.1 account, the bundle installation stops if there are object types in the bundle that are not supported in 2019.2.
 - A bundle with a SuiteScript that uses a new API available only in 2020.1 can be installed into a 2019.2 account, but the script may not function correctly because 2019.2 does not support the API.

New SuiteApp Marketplace Available for Distributing SuiteApps

As of 2020.1, the SuiteApp Listing page has been replaced with the new SuiteApp Marketplace. The SuiteApp Marketplace is available for finding and installing SuiteApps created by using the SuiteCloud Development Framework.

The SuiteApp Marketplace is currently available to Administrators and users with the SuiteApp Marketplace permission. To access the SuiteApp Marketplace, go to Customization > SuiteCloud Development > SuiteApp Marketplace.

The following example shows how SuiteApps can be listed in the SuiteApp Marketplace:



You can view all public and shared SuiteApps in the SuiteApp Marketplace. Each SuiteApp is represented by a SuiteApp tile that contains the SuiteApp name, publisher, and first release date. Users can also sort the SuiteApp tiles by SuiteApp Name, Publisher, or Latest Release Date.

Click a SuiteApp tile to view its details. The following example shows the SuiteApp details page for a SuiteApp in the SuiteApp Marketplace:

The screenshot shows the Oracle NetSuite SuiteApp Marketplace interface. At the top, there is a search bar and navigation tabs for Activities, Transactions, Lists, Reports, Analytics, Documents, Setup, Customization, and Support. The user is logged in as 'A Wolfe-admin' (Wolfe Electronics - Administrator). The main content area displays the details for the 'Accounting SuiteApp'. On the left, there is an icon representing accounting (a dollar sign on a document and a calculator). The main text area contains a short description and a heading 'This is a heading.' followed by a long description. On the right, there is an 'Install' button and a list of metadata: PUBLISHER (Example Company), FIRST RELEASE DATE (1/6/2020), INSTALLED VERSION (-), LATEST VERSION (1.0.20190823), and UPGRADES (Managed). At the bottom right, there is a 'Built for ORACLE NETSUITE' logo with a cloud icon and the text 'Integrated SuiteApp'.

To learn about the information that is available on the SuiteApp details page for each SuiteApp, see the help topic [Viewing SuiteApp Listings](#).

Users can perform the following actions in the SuiteApp Marketplace:

- Install SuiteApps that are both shared to their account and supports their NetSuite account version. For more information, see the help topic [Installing from the SuiteApp Listing Page](#).
- Upgrade SuiteApps that have been installed to their account when a new SuiteApp version is available. For more information, see the help topic [Upgrading from the SuiteApp Listing Page](#).
- View the status of a SuiteApp after an install, upgrade, or uninstall has been initiated. Only some states of the SuiteApp can be viewed on the SuiteApp Marketplace. For more information on the states that can appear on the SuiteApp details page of the SuiteApp Marketplace, see the help topic [Viewing SuiteApp Installation or Uninstallation Status](#).

To view and uninstall SuiteApps obtained from the SuiteApp Marketplace, go to [Customization > SuiteCloud Development > Installed SuiteApp List](#), and for the desired SuiteApp, select **Uninstall** from its action menu.

If you are a SuiteApp Release Manager, you can deploy SuiteApp projects to the SuiteApp Control Center and distribute them to users as SuiteApp releases in the SuiteApp Marketplace.

You can set the SuiteApp Marketplace access for a SuiteApp to one of the following:

- **Public** – All NetSuite customers can install the SuiteApp.
- **Shared** – Specific companies can install the SuiteApp. When the availability is set to Shared, all NetSuite customers can still view the SuiteApp.
- **Unlisted** – Specific companies can view and install the SuiteApp.

The Allowed Accounts list is a single location that is shared between Shared and Unlisted Suiteapps. The Allowed Accounts list specifies which company accounts can install the Shared and Unlisted SuiteApps. Additionally, upgrades can be pushed only to company accounts that are listed in the Allowed Accounts list. For information on how to add company accounts to the Allowed Accounts list, see [Managing Allowed Accounts for Shared and Unlisted SuiteApps](#).

For more information about setting SuiteApp availability, see the help topic [Setting SuiteApp Listing Access](#).

To make a SuiteApp available to users for installation in the SuiteApps Marketplace, the SuiteApp must have an application ID in the APC record and must have completed both a listing review and a Built for NetSuite (BFN) review. For more information about the requirements for distributing SuiteApps in the SuiteApp Marketplace, see the help topic [Requirements for SuiteApp Listing Availability](#).

Localization Context Filtering Supported for Scripts in Bundles

As of 2020.1, localization context filtering is supported for SuiteScript 2.x user event and client scripts included in bundles. If a script included in a bundle has localization context filtering set up, that filtering works in all target accounts where the bundle is installed.

A record's localization context represents the country or countries associated with that record. Localization context filtering is set up in the **Localization Context** field on the **Context Filtering** subtab of the script deployment record. This setting controls the records on which user event and client scripts run, based on the localization context of the records. For example, if a script has the localization context of France set on its deployment record, it runs only on records that have a localization context of France. It does not run on records with other localization contexts.

For more information about localization context filtering, see:

- [Introducing Localization Context — User Event and Client Script Association](#)
- [Determination of Localization Context](#)
- [Localization Context Filtering for SuiteScript 2.x](#)

For information about using Bundle Builder to bundle SuiteScript objects, see the help topic [Objects Available in Customization Bundles](#).

Translatable Field References to Terms in Translation Collections Supported in Bundles

When you bundle custom objects that contain translatable fields with references to terms in translation collections, those translation collections are also included in the bundle. For information about translatable fields, see [Translatable Fields Support](#) and [Translation Collections as XML Definitions](#).

SuiteBundler Support Updates

Note the following changes to SuiteBundler support in NetSuite 2020.1:

Newly Supported SuiteBundler Object	Notes
Expense Sublist on Expense Report	You can include workflows on the Expense sublist for Expense reports in bundles. For more information about the Expense sublist, see Support for Expenses Sublist on Expense Report Record .

Newly Supported SuiteBundler Object	Notes
	For information about adding workflow custom objects to bundles, see the help topic Bundling a Workflow .
Financial Institution Connectivity Plug-in	<p>You can include Financial Institution Connectivity plug-in custom objects in bundles. The plug-in provides a way for NetSuite to use the Financial Institution Connectivity API to directly connect customers to a specific financial institution.</p> <p>For information about customizing and using the Financial Institution Connectivity plug-in, see New Financial Institution Connectivity Plug-in API.</p> <p>For information about adding custom objects to bundles, see the help topic Objects Available in Customization Bundles.</p>
Sales and Purchase Custom Transactions	<p>You can include Sales and Purchase custom transaction types in bundles. For information about Sales and Purchase custom transactions in NetSuite, see Sales and Purchase Custom Transactions Available and Sales and Purchase Transaction Types Overview.</p> <p>For information about including custom transaction types in bundles, see the help topic Custom Transaction Types in Bundles.</p>

SuiteBuilder - Customization

NetSuite 2020.1 includes the following enhancements to SuiteBuilder features:

- [Sales and Purchase Custom Transactions Available](#)
- [System Notes v2 Page Available for Custom Transaction Configuration and Roles and Permissions](#)
- [Account-Specific Domains Supported in Custom Fields and Custom Center Links](#)
- [New Languages Supported in Advanced Printing Templates](#)
- [Updates to Third-Party Libraries Used in Advanced Printing](#)
- [Improvements to Error Messages and Handling of Corrupted Custom Segments](#)

Sales and Purchase Custom Transactions Available

NetSuite 2020.1 extends custom transactions flexibility with the addition of two new custom transactions types: sales and purchase. With sales and purchase transaction types, you can create custom transactions similar to invoices, cash sales, credit memos, vendor credits, bills, and more. You can utilize most of the standard sales and purchase functionality like the Items sublist, taxes (SuiteTax only), and revenue recognition. You can also include your name and define numbering sequences and permissions for your custom transactions.

If you have the Custom Transactions feature enabled, the new sales and purchase custom transaction types are available. For more information, see the help topic [Enabling the Custom Transactions Feature](#).

Sales and purchase custom transaction types enable you to:

- Comply with local requirements, such as those in Latin America or JAPAC.
- Comply with expectations of specific business verticals, such as Not-for-Profit.
- Create solutions designed for specific types of customers.

SuiteCloud Development Framework (SDF) supports sales and purchase custom transaction types when defining custom transaction objects. For more information, see [Sales and Purchase Custom Transactions Support](#).

Sales and Purchase Custom Transactions Support

Sales and purchase custom transaction types provide the functionality of standard sales and purchase transactions described in the following sections.

Sales

Features available with this custom sales transaction type include:

- Items sublist support, including inventory impact
- SuiteTax
- Revenue recognition
- Multi-subsidiary customer
- Installments
- Promotions, including SuitePromotions
- Shipping, including multiple shipping routes

Purchase

Features available with this custom purchase transaction type include:

- Items sublist support, including inventory impact
- Expenses sublist support
- Amortization
- SuiteTax
- Multi-subsidiary vendor
- Installments
- Landed costs

New Accounting Subtab

A new Accounting subtab is available on the Custom Transaction Type page. Use the Accounting subtab to enter all relevant information for defining the GL impact (main line account) of the transaction. You can perform line-level adjustments using the Custom GL Lines plug-in. For more information, see the help topic [Custom GL Lines Plug-in](#).

Sales and Purchase Custom Transaction Instances

When creating sales and purchase custom transaction instances, you can apply promotions, gift certificates, discounts, revenue recognition, amortization schedules, installments and more.

For more information about creating and using sales and purchase custom transaction types, see [Sales and Purchase Transaction Types Overview](#).

System Notes v2 Page Available for Custom Transaction Configuration and Roles and Permissions

System Notes v2 is available for custom transaction type and roles and permissions configuration pages. System Notes v2 captures details, including changes to sublists, and groups the changes using summary actions. The audit trail enables you to see the types of changes performed on record fields, such as create, update, change, and so on. You can also see the date and time each change was performed and by whom. System Notes v2 also retains information for deleted transactions and records.

System Notes v2 lists changes in reverse chronological order, with the most recent changes at the top of the page. The System Notes page shows information about the level of actions that have been performed. Details of the action are grouped underneath and can be expanded and collapsed for viewing. This condensed format reduces the amount of data first displayed when you browse the audit trail so that you can track or investigate the history.

Note: System Notes v2 and System Notes are separate systems. There is no change to the existing System Notes. As of 2020.1, System Notes v2 captures audit trail information for custom transaction type and roles and permissions configuration pages. To view information about changes made to roles and permissions prior to 2020.1, use the System Notes subtab on the role record.

Viewing System Notes v2

You can access System Notes v2 using a new System Notes link located in the upper right corner of the following pages:

- Custom Transaction Type
- Role (roles and permissions)

System Notes v2 groups audit data by action as shown in the following example.

Custom Transaction Type: Demo custom transaction							
System Notes							
DATE/TIME	USER	ROLE	CONTEXT	ACTION	OBJECT	OLD VALUE	NEW VALUE
11/21/2019, 10:46:47 PM	Default User	Administrator	UI	Update, Change	Permission, Level		
			UI	Update	Permission - Accountant		
			UI	Change	Level	View	Edit
11/21/2019, 10:44:14 PM	Default User	Administrator	UI	Create, Change, Set	Permission, Account, Level		
11/14/2019, 2:11:24 AM	Default User	Administrator	UI	Create, Set	Translation, Numbering, Permission,...		

Viewing System Notes from a SuiteAnalytics Workbook

You can use the System Notes v2 workbook available in SuiteAnalytics Workbook to view and analyze system notes for custom transaction type and roles and permissions configuration. The System Notes v2

Workbook is available in every account. To create a custom SuiteAnalytics workbook, select the System Notes v2 Workbook dataset.


For more information, see the help topic [System Notes v2 \(Beta\) Workbook](#).

Account-Specific Domains Supported in Custom Fields and Custom Center Links

NetSuite 2020.1 introduces support for account-specific domains in custom fields and custom center links, and suggests to use them instead of data center-specific links.

Previously, NetSuite domains were specific to the data center where your account was hosted. Links in custom fields and custom center links used these data center-specific domains. NetSuite domains are no longer specific to data centers. Instead, they are account-specific domains, which are domains specific to your account, not to the data center where they are hosted. For more information, see the help topic [URLs for Account-Specific Domains](#).

The account-specific domains feature automatically changes current data center-specific URLs to the correct account-specific domain URLs. For example, a **system.eu2.netsuite.com** link in your custom center automatically becomes `<accountID>.app.netsuite.com`, where `<accountID>` is a variable representing your account ID.

 **Note:** The automatic change from data center-specific URLs to account-specific domain URLs applies to your active session. Data in the underlying database remains unchanged. Links that use the correct account-specific domain are faster than links that are changed in the current session. You should update all links in custom forms and custom centers to use the correct account-specific domain. To identify customization objects whose URLs need to be corrected, use the External Forms tab on the Traffic Health page. For more information, see the help topic [Traffic Health](#).

When you create custom center links, if you attempt to add a data center-specific URL, a warning message appears and suggests an account-specific domain URL to use instead. Consider making the suggested change. If you choose not to make changes, the URL as you entered it is saved. In the NetSuite center, the link changes to an account-specific domain URL.

When you create hyperlink, rich text, and long text custom fields, if you add a data center-specific URL, the URL automatically changes to an account-specific domain URL.

For more information, see the help topic [How to Transition from Data Center-Specific Domains](#)

New Languages Supported in Advanced Printing Templates

The following languages are now available for use in Advanced PDF/HTML Templates:

- Hebrew
- Armenian
- Bengali
- Gujarati
- Hindi
- Marathi

- Kannada
- Tamil
- Telugu

For more information about languages available for advanced printing, see the help topic [Languages for Printed Forms that Use Advanced Templates](#).

Updates to Third-Party Libraries Used in Advanced Printing

Advanced PDF/HTML templates now use updated versions of the BFO library and CKEditor for additional stability and security.

- The BFO library has been updated to version 1.1.70.
- CKEditor has been updated to version 4.12.1.

Improvements to Error Messages and Handling of Corrupted Custom Segments

A custom segment can sometimes become corrupted if any of its required components are missing. A completely defined custom segment must contain one custom record component, and one each of the following five custom field component types: Body, Column, Entity, Event, and Item. For information about the components of a custom segment, see the help topic [Creating a Custom Segment](#).

On the Custom Segment configuration page, if any components are missing from the custom segment, you receive a segment corrupted error. However, you can open the custom segment configuration page with limited operations available. If you installed a custom segment from a bundle and it is damaged, as of 2020.1 you can reinstall the bundle to correct the error. If you created a custom segment manually and it is damaged, delete the custom segment definition and recreate it.

When you edit the definition of a corrupted custom segment, only the **Cancel** button is available, and depending on your permissions, the **Delete** button.

If a form or applied record accesses a corrupted custom segment, you can save or view the record without the custom segment value.

SuiteAnalytics

NetSuite 2020.1 includes the following enhancements to SuiteAnalytics:

- [Dataset Separation in SuiteAnalytics Workbook](#)
- [New Date Filters for SuiteAnalytics Workbook Pivot Tables and Charts](#)
- [New Table View Tab in SuiteAnalytics Workbook](#)
- [Idle Session Timeout for SuiteAnalytics Connect](#)
- [2020.1 Connect Browser](#)

Dataset Separation in SuiteAnalytics Workbook

Prior to 2020.1, you defined, visualized, and analyzed your workbook source data in a single workbook object.

As of 2020.1, workbooks and datasets exist as separate objects, each with their own respective owners and accessibility rights. In a dataset, you define your workbook source data by selecting record types, fields, and criteria for further analysis in a workbook. Conversely, in a workbook you visualize and analyze your data using tables, pivot tables, and charts. Separating workbooks and datasets enables you to connect a single dataset to multiple workbooks, reducing the number of redundant workbooks in your account and preventing data discrepancies. Only dataset owners and users with administrator permissions can edit the datasets in your account. Any changes to a dataset are automatically propagated to the connected workbooks. Furthermore, you can now create workbooks using any of the existing datasets that you have access to in your account. This saves you time during the workbook authoring process and enables less experienced users to create complex workbooks.

To support this feature, the following enhancements have been made throughout SuiteAnalytics Workbook:

- [Workbook Accessibility Changes](#)
- [Analytics Home Page Updates](#)
- [New Authoring Workflows](#)
- [New Table View](#)
- [Changes to Migrated Workbooks](#)

Workbook Accessibility Changes

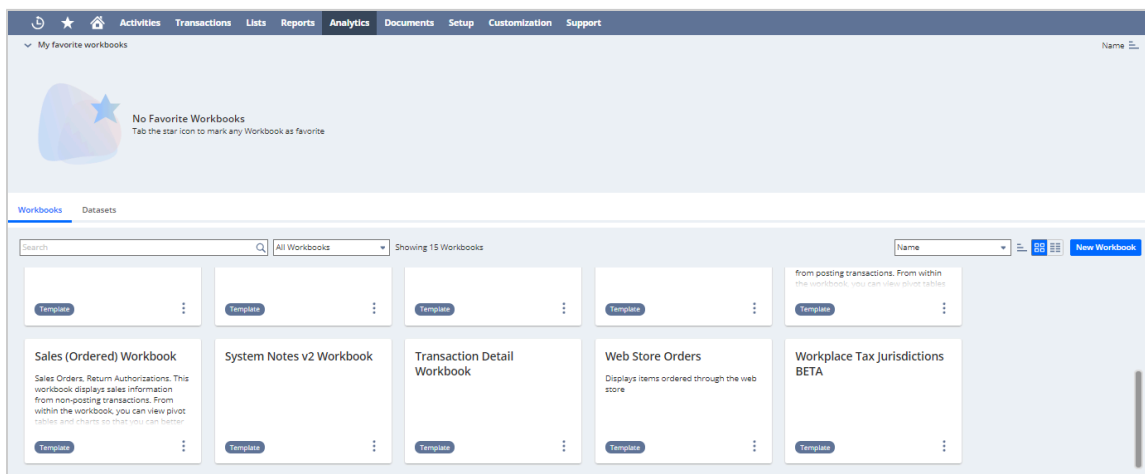
Like in previous releases, your access to a workbook depends on the features enabled in your account, the role you use to log in to NetSuite, and the permissions assigned to you. In 2020.1 however, you must also have access to a dataset before you can create a workbook that uses the dataset. Only the owner of a dataset or a user with administrator permissions can give you access to a dataset that you did not create. If you are an administrator, or if you have the Analytics Administrator permission, you can access, edit, and delete any workbooks or datasets in your account.

For more information about accessing workbooks and datasets, see the help topic [Accessing and Sharing Workbooks](#).

For more information about the Analytics Administrator permission, see the help topic [The Analytics Administrator Permission](#).

Analytics Home Page Updates

The Analytics Home page has been redesigned to display both datasets and workbooks.



From this page, you can create new workbooks and datasets, or share, edit, and delete any of the workbooks or datasets that you own. If you are an administrator or if you have the Analytics Administrator permission, the Analytics Home Page displays all workbooks and datasets in your account.

For more information, see the help topic [Workbook Listing Page](#).

New Authoring Workflows

In 2020.1, you can create workbooks based on any of the existing datasets that you have access to. If you are an administrator or if you have the Analytics Administrator permission, you can create workbooks based on all the datasets in your account. Furthermore, although workbooks and datasets now exist as separate objects, you can still make changes to a dataset from within a workbook. Additionally, when you make those changes, you can now preview the effect of your edits throughout the workbook before you save them.

For more information, see the help topic [Custom Workbooks](#).

New Table View

If you want to explore your workbook source data without accessing or editing the connected dataset, you can use the new Table View component.

For more information, see [New Table View Tab in SuiteAnalytics Workbook](#).

Changes to Migrated Workbooks

Any workbooks you created prior to 2020.1 have been migrated as two separate dataset and workbook objects. The data and selections you made within your workbooks is unchanged, however the Dataset tab now exists as its own dataset object and as a Table View within the workbook object.

For more information, see the help topic [Custom Workbooks](#).

New Date Filters for SuiteAnalytics Workbook Pivot Tables and Charts

In 2019.2, SuiteAnalytics Workbook introduced new filtering options for pivot tables and charts, such as the ability to filter the top or bottom results based on a specific measure.

In 2020.1, SuiteAnalytics Workbook adds support for filtering results using date conditions. You can base these conditions on specific dates or custom date ranges.

For more information, see the help topic [Pivot Table and Chart Filters](#).

New Table View Tab in SuiteAnalytics Workbook




In 2019.2, you could create multiple charts and pivot tables in a workbook, but were limited to one Data Grid. This limitation meant that any changes made in the Data Grid would impact all workbook components. Therefore, you had to recreate the dataset in a new workbook if you wanted to explore the same dataset to use different fields and apply new filtering or sorting options.

In 2020.1, you can use the new Table View to explore your datasets without altering the source data of any associated workbooks. You can also add multiple Table Views in a single workbook, enabling you try different combinations of fields, filters, and sorting options.

Using the Table View does not require complex customizations. Table Views enable you to view your data without having to set a layout or to define fields from joined records or custom formulas. To create a Table View, drag the fields from the Fields list to the Table Viewer. After you add the fields to the Viewer, you can filter and sort them as needed. Viewing your data on a Table View can be helpful to decide how to build your charts and pivot tables.

As with charts and pivot tables, you can also rename each instance of the Table View in your workbooks.

The icons for the three workbook components are as follows:


- Table views are represented by the  icon.
- Pivot tables are represented by the  icon.
- Charts are represented by the  icon.

Idle Session Timeout for SuiteAnalytics Connect

As of 2020.1, SuiteAnalytics Connect enforces idle session timeout policies to enhance the security of your connections and to optimize system resources. After 90 minutes of inactivity, SuiteAnalytics Connect sessions automatically time out.


The idle session timeout change is available for testing in 2020.1 Release Preview accounts when your Release Preview account is ready to use. For details about Release Preview, see the help topic [Release Preview Availability](#).

If you exceed the time limit of inactivity, you are logged out of your session. To access the Connect Service, you must log in again.

 **Note:** The time during which a query is running is not considered time of inactivity.

You should always close all sessions that you are not using. As of 2020.1, sessions automatically time out after 90 minutes of inactivity. The time limit will be set to a lower value in an upcoming release.

The idle session timeout applies to ODBC, JDBC, and ADO.NET drivers.

 **Note:** The idle session timeout occurs when you query the NetSuite.com and NetSuite2.com data sources.

For more information, see the help topics [New Connections](#) and [Types of NetSuite Sessions](#).

2020.1 Connect Browser

The 2020.1 Connect Browser is not yet available.

CSV Import

NetSuite 2020.1 includes the following enhancement to CSV Import:

- [Newly Supported Record Types for CSV Import](#)
- [Enhanced Size of the Name and Translation Fields in CSV Import Map Translation](#)
- [Sales and Purchase Custom Transactions Available for CSV Import](#)

Newly Supported Record Types for CSV Import

Record Type	Notes
Inbound Shipment	
Item Collection	
Order Release records:	
<ul style="list-style-type: none"> ■ Item Process Family ■ Item Process Group ■ Pick Strategy records ■ Zone ■ Wave 	

Enhanced Size of the Name and Translation Fields in CSV Import Map Translation

As of 2020.1, the Name and the Translation fields in the CSV Import Map Translation dialog have been enhanced and you can now enter up to 64 characters.

This enhancement allows the translation of names and descriptions, even when the translation is longer than the original or when it uses a different alphabet.

For more information see the help topic [Translating Import Map Name and Description](#).

Sales and Purchase Custom Transactions Available for CSV Import

As of 2020.1, you can use the CSV Import Assistant to import sales and purchase custom transactions.

Additionally, the following sublists and subrecords are available for sales and purchase custom transactions:

Sublist or Subrecord	Availability	Related Help Topics
Revenue Recognition	Sales custom transactions.	Revenue Recognition
Amortization	Purchase custom transactions.	Amortization Feature Overview
Shipping	Sales custom transactions with the option of enabling item line shipping and shipping to custom addresses.	Shipping
Promotions	Sales custom transactions.	Promotions
Landed Costs	Purchase custom transactions with the option of enabling landed cost per line or landed cost for the whole transaction.	Landed Cost
Installments	Sales custom transactions and purchase custom transactions.	Creating Installments for sales. Vendor Installment Payments for purchases.

For more information on how to import custom transactions, see the help topic Custom Transactions Import.

SuiteFlow (Workflow Manager)

NetSuite 2020.1 includes the following enhancements to SuiteFlow features:

- [Enhancements to Sublist Support](#)
- [Change to Workflow Execution Contexts Behavior](#)

Enhancements to Sublist Support

The following sublist and workflow enhancements are available in NetSuite as of 2020.1:

- [Support for More Sublists](#)
- [Support for Expenses Sublist on Expense Report Record](#)
- [Create Line Action and Sublists](#)
- [Sublist Action Groups and Sublists](#)
- [Client-Side Triggers and Sublists](#)

Support for More Sublists

You can now run workflows on the sublists of supported records. Sublists contain a list of references to other records, known as line items. Previously, you could only create workflows on the Items sublist. In 2020.1, you can select from all of the sublists on the selected record. This enhancement allows for greater customization, so that you can create workflows designed to meet your unique business needs.

You can select from all of the supported sublists on the selected record when you add the following actions to your workflows:

- Set Field Mandatory
- Set Field Display Label

You can use the Set Field Mandatory action to require a field in a workflow or sublist to have a value before a user can move to the next state in a workflow. You can also use this action to change mandatory fields into optional fields. You can use the Set Field Display Label action to change the UI label of a field when the action executes. You can also use the Set Field Display Label action to change the UI label of a field in a sublist that SuiteFlow supports.

This feature currently supports the Items and the Expenses sublists.

Support for Expenses Sublist on Expense Report Record

As of 2020.1, you can run workflows on the Expenses sublist on Expense report records. With this change, you can run workflows and create sublist action groups on the Expenses sublist. When you use the Expenses sublist in your workflows, the Expenses sublist fields are exposed in the following locations:

- On workflow action forms.
- In workflow conditions.
- On workflow action sublists.

You can use the Expenses sublist to add or update individual expenses on an Expense report record. For more information about the Expenses sublist, see the help topic Expense Report Sublist Fields.

Create Line Action and Sublists

You can now use the Create Line action with sublists in workflows, subject to record support. This enhancement enables you to customize your workflows and tailor them to your business scenarios.

Use the Create Line action to add a new line to a sublist in a workflow. The Create Line action enables you to customize sublist-related processes by adding lines to a sublist as part of your workflow. You can also use the Create Line action to specify default values for line fields, and the values can be static or dynamically defined.

You can use the following triggers with the Create Line action and sublists:

- Before Record Load
- Before Submit
- After Record Submit

This feature currently supports the Items and the Expenses sublists.

For more information about the Create Line action, see the help topic Create Line Action.

Sublist Action Groups and Sublists

When you create a Sublist Action Group, you now have the option to choose from all of the sublists on the selected record, subject to record support. This enhancement allows for greater customization of workflows, so that you can create the workflows that are specific to your business.

A Sublist Action Group is a group of actions assigned to a workflow state that is to be executed on each line of a sublist. Whether the actions execute during a workflow state is contingent on the conditions of the group and the group actions.

This feature currently supports the Items and the Expenses sublists.

For more information about Sublist Action Groups, see the help topic Using Sublist Action Groups.

Client-Side Triggers and Sublists

As of 2020.1, you can create workflows that execute on supported sublists and include workflows with client-side triggers. Client triggers execute when a user interacts with a record form in NetSuite. Now when you add the Return User Error and Set Field Value actions to your workflows, you can use either of the following client-side triggers:

- After Field Edit
- After Field Sourcing

The After Field Edit client-side trigger executes when a user enters or changes the value of a field. For example, you can use the After Field Edit trigger to dynamically update the values of other fields when a user changes the values of a specific field. The After Field Sourcing client-side trigger executes after all of the dependent field values on a record form have been populated. The fields can be populated by dependencies on other fields in the same record or in joined records.

This feature currently supports the Items and the Expenses sublists.

For more information about client side triggers, see the help topics [Workflow Triggers](#) and [Client Triggers Reference](#).

Change to Workflow Execution Contexts Behavior

NetSuite 2020.1 includes enhancements to execution contexts supported for user event scripts, client scripts, and workflows. You can use execution context filtering to ensure that your scripts or workflows are triggered only when necessary. This filtering can improve contexts where the scripts or workflows are not required.

Previously, to select execution contexts for a workflow, you selected each context individually. As of 2020.1, if you do not select any contexts on the workflow definition page, all of the contexts except Web Store and Web Application are applied to your workflow. This change to selected execution contexts in SuiteFlow is consistent with how execution contexts are selected in SuiteScript.

If you copy a workflow or other action with the contexts already selected prior to this release, the selected contexts are copied and the default selection behavior is not applied. So if you copy a workflow created prior to 2020.1, and you want to select all of the contexts, you have to select them individually.

In addition, this release includes minor changes to the execution contexts supported for scripts and workflows. For a list of these changes, see [Enhancements to Execution Contexts for Scripts and Workflows](#).

For more information about contexts and workflows, see the help topics [Event Types and Contexts](#) and [Workflow Context Types](#).

SuiteScript

Refer to the following sections for details on SuiteScript updates for NetSuite 2020.1:

- [Introducing SuiteQL API](#)
- [SuiteScript 2.1 Now Generally Available for Server Scripts](#)
- [SuiteScript 2.1 Debugger \(Beta\)](#)
- [Enhancements to Execution Contexts for Scripts and Workflows](#)
- [Localization Context Filtering for SuiteScript 2.x](#)
- [Sales and Purchase Custom Transactions Available in SuiteScript](#)
- [Map/Reduce Concurrency Limit Is Adjusted to Target Account Limit for SDF Projects](#)
- [Change to Scripts on the Subsidiary Record Currency Field](#)
- [Deprecation of Script Queue Monitor \(Beta\)](#)
- [Method Added to N/redirect Module](#)
- [Support for Relative File Paths in the N/file Module](#)
- [2020.1 SuiteScript Record Exposures](#)
- [2020.1 SuiteScript Records Browser](#)

Introducing SuiteQL API

In NetSuite 2020.1, SuiteQL API is available as a new feature in the N/query module. This feature provides another way to use SuiteQL (which was made available in a previous release) in addition to SuiteAnalytics Connect. SuiteQL is a query language based on the SQL-92 revision of the SQL database query language.

It provides advanced query capabilities you can use to access your NetSuite records and data. For more information, see SuiteQL.

For more information about SuiteQL API in this release, see the following sections:

- [New Object and Methods](#)
- [SuiteQL Support in Map/Reduce Scripts](#)
- [Support for Pagination and Aliasing](#)

New Object and Methods

SuiteQL API provides the following new object and new methods in the N/query module:

- A new object, `query.SuiteQL`, represents a SuiteQL query. It includes properties that represent the query type, the SuiteQL string representation of the query, result columns to return from the query, and any additional parameters the query requires. You can use `SuiteQL.run()` to run the query as a non-paged query or `SuiteQL.runPaged(options)` to run the query as a paged query.
- A new object-level method, `Query.toSuiteQL()`, converts an existing query (as a `query.Query` object) to its SuiteQL representation (as a `query.SuiteQL` object).
- Two new module-level methods, `query.runSuiteQL(options)` and `query.runSuiteQLPaged(options)`, let you run an arbitrary SuiteQL query. You can specify this query as a SuiteQL string, `query.SuiteQL` object, or generic JavaScript Object containing a required **query** property and an optional **params** property.

Here is an example of how to load an existing query, convert it to SuiteQL, and run it:

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

var mySuiteQLQuery = myLoadedQuery.toSuiteQL();
var myResultSet = mySuiteQLQuery.run();
```

SuiteQL Support in Map/Reduce Scripts

In the `getInputData(inputContext)` stage of a map/reduce script, you can specify how you want to generate the input data. For example, you can generate the data using an array, a JavaScript Object, a `search.Search` object, or one of several other data types.

In NetSuite 2020.1, you can generate the data using a SuiteQL query. In the `getInputData(inputContext)` stage, you can return an object that represents a SuiteQL query by including the following properties:

- **type** — The type of data you are providing. For SuiteQL queries, this type is `suiteql`.
- **query** — The SuiteQL query as a string. If the query accepts parameters, you can use question marks (?) as placeholders in the query string. You specify parameter values using the **params** property.
- **params** — Values for any parameters the SuiteQL query uses. This property is an array, and the order of values you specify should match the order the parameters appear in the query string.

Here is an example of how to construct a simple query in SuiteQL and return it from the `getInputData(inputContext)` stage of a map/reduce script:

```
function getInputData() {
  var mySuiteQLQuery =
    "SELECT " +
```

```

    " \"TRANSACTION\".tranid AS tranidRAW, " +
    " \"TRANSACTION\".trandate AS trandateRAW, " +
    " \"TRANSACTION\".postingperiod AS postingperiodDISPLAY " +
    "FROM " +
    " \"TRANSACTION\" WHERE \"TRANSACTION\".\"ID\" = ? ";

    return {
      type: 'suiteql',
      query: mySuiteQLQuery,
      params: [271]
    };
  }
}

```

In this example, the parameter value 271 is the internal ID of a transaction record.

Support for Pagination and Aliasing

SuiteQL API supports paginated query results. Paginated query results help you process large result sets more efficiently by retrieving a subset (or page) of the full result set at a time. You can obtain paginated query results by using the following approaches:

- If you have a `query.SuiteQL` object already in your script, you can use `SuiteQL.runPaged(options)` to obtain paginated results for that SuiteQL query.
- If you do not have a `query.SuiteQL` object, you can use `query.runSuiteQLPaged(options)` to obtain paginated results for an arbitrary SuiteQL query.

These methods accept an optional parameter, **pageSize**, that lets you specify the number of query results on each page. The default value is 50 results per page.

SuiteQL API also supports standard SQL aliasing using the **AS** keyword. You can specify an alias for a field name, and this alias is used when you retrieve mapped query results using `ResultSet.asMappedResults()` or `Result.asMap()`. For example, you can use the following approach to create an alias for the **entityid** field on a customer record:

```

var results = query.runSuiteQL(
  'SELECT entityid AS friendlyname, email FROM customer WHERE email IS NOT NULL'
).asMappedResults();

```

In the mapped query results, **friendlyname** appears as an alias for the **entityid** field.

SuiteScript 2.1 Now Generally Available for Server Scripts

In NetSuite 2020.1, SuiteScript 2.1 is now generally available for server scripts. SuiteScript 2.1 was previously available as a beta feature.

SuiteScript 2.1 is the latest minor version of SuiteScript, and it is backward compatible with SuiteScript 2.0. This version is based on the ECMAScript 2018 (ES2018) edition of the ECMAScript specification, and it includes new language capabilities and functionality. It supports all server-side script types (such as user event scripts, scheduled scripts, and Suitelets). SuiteScript 2.1 and future versions of SuiteScript will also support features planned for future editions of the ECMAScript specification using ES.Next. For more information, see SuiteScript 2.1 Beta.

For more information about SuiteScript 2.1 in this release, see the following sections:

- [SuiteScript 2.x Notation](#)

- [Transition Period for SuiteScript 2.x Scripts](#)

SuiteScript 2.x Notation

When you write a script, you must include a JSDoc comment block that specifies the version of SuiteScript to use. For scripts other than SuiteScript 1.0 scripts, you can specify the following versions:

- 2.0
- 2.1
- 2.x

The 2.0 and 2.1 values indicate that the script uses that version of SuiteScript. The 2.x value usually represents the latest version of SuiteScript that is generally available and does not represent any versions that are released as beta features. However, this does not yet apply to SuiteScript 2.1. In this release, the 2.x value indicates that a script uses SuiteScript 2.0, not SuiteScript 2.1. You can still use SuiteScript 2.1 and all of its features in your server scripts, but you must specify a version of 2.1 explicitly. Your 2.x scripts will not run as SuiteScript 2.1 scripts until a future release.

For more information, see [SuiteScript 2.1 Versioning](#).

Transition Period for SuiteScript 2.x Scripts

NetSuite is providing a transition period of one year for you to test your existing scripts and make sure they work as expected using SuiteScript 2.1. This transition period starts with the NetSuite 2020.1 release and ends with the NetSuite 2021.1 release. During this period, the 2.x value will indicate that a script uses SuiteScript 2.0. After this transition period (in NetSuite 2021.1 and subsequent releases), the 2.x value will indicate that a script uses SuiteScript 2.1.

The following table indicates which version of SuiteScript the 2.x value uses in each release:

NetSuite Release	SuiteScript 2.x Maps To
NetSuite 2020.1	SuiteScript 2.0
NetSuite 2020.2	SuiteScript 2.0
NetSuite 2021.1 and subsequent releases	SuiteScript 2.1

Account administrators will receive notifications throughout this period reminding them of the changes that will occur and to prepare for them. An administrator will receive these notifications if there is at least one script in their account that uses the 2.x notation.

SuiteScript 2.1 Debugger (Beta)

The SuiteScript 2.1 Debugger for use in debugging SuiteScript 2.1 scripts will be available beginning in 2020.1 as a beta release. This release of the debugger will support ad hoc scripts written directly in the debugger window and server scripts, including Suitelets and scheduled scripts. Additional script types will be supported in a future release of NetSuite.

In our effort to offer a modern coding experience to our developers, the SuiteScript 2.1 Debugger uses Chrome DevTools. This allows users to debug their scripts using similar functionality available when debugging JavaScript in the Google Chrome browser.

To use the SuiteScript 2.1 Debugger, simply select 2.1 as the API Version on the Debugger page. When you click the Debug Script button, a new browser tab opens with the Chrome DevTools interface for

debugging your script. Your script is displayed on the new tab and you can perform typical debug actions, such as pause/resume execution, set breakpoints, and step through your code line by line.

The SuiteScript 2.1 Debugger is fully supported when using NetSuite in the Chrome browser. Other browsers, such as Mozilla Firefox, Microsoft Internet Explorer, Microsoft Edge, and Apple Safari, have limited or no support. Debugger functionality is not guaranteed in these browsers.

The SuiteScript 2.1 Debugger is available for all SuiteScript developers. The legacy SuiteScript Debugger is still available for SuiteScript 1.0 and SuiteScript 2.0 scripts.

For more information on the SuiteScript Debugger, see the help topic [SuiteScript Debugger](#).

For specific information on the SuiteScript 2.1 Debugger, see [Debugging SuiteScript 2.1 Scripts](#).

Enhancements to Execution Contexts for Scripts and Workflows

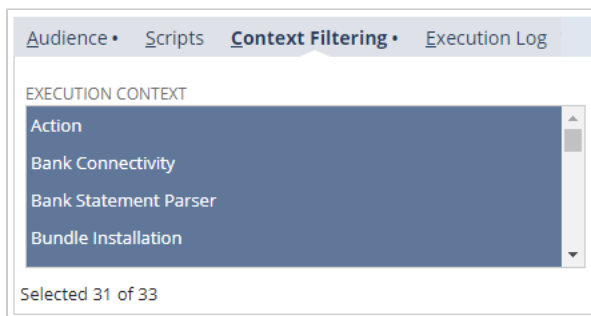
NetSuite 2020.1 includes enhancements to execution contexts supported for user event scripts, client scripts, and workflows. Execution contexts provide information about how or when a script or workflow is triggered to execute. For example, a script can be triggered in response to an action in the NetSuite application or an action occurring in another context, such as a web services integration. You can use execution context filtering to ensure that your scripts or workflows are triggered only when necessary. This filtering can improve performance in contexts where the scripts or workflows are not required.

In this release, several execution context filter values have been added to give you more control over script and workflow execution. The following contexts are new in 2020.1:

- Bank Connectivity
- Bank Statement Parser
- Financial Institution Connectivity
- Platform Extension
- REST Web Services
- SOAP Web Services
- Revenue Management

The Web Services context, which was available in previous releases, is no longer available. It has been renamed to SOAP Web Services. A related context, REST Web Services, is new in this release. For more information, see [SuiteScript Execution Context for REST Web Services](#).

For scripts, you set up execution context filtering on the Context Filtering tab when you create or edit a script deployment record:



For workflows, you set execution context filtering in the Event Definition section when you create or edit a workflow:

Execution context filtering behavior is now consistent for scripts and workflows. The same values are available for both scripts and workflows, and the default selections are the same. By default, all contexts are selected except for Web Application and Web Store. Often, it is not required to trigger scripts in these contexts, so they are disabled by default to improve performance. If you want your script or workflow to be triggered in these contexts, make sure to select them explicitly when you create your script deployment record or workflow.

For scripting, execution context values are available using the `runtime.ContextType` enum. You can use this enum to programmatically determine how a script was triggered and take appropriate action. For example, you may want different script logic to execute depending on whether the script was triggered as a client script or in response to a UI action.

For more information about execution contexts, see the following:

- [Change to Workflow Execution Contexts Behavior](#)
- `runtime.ContextType`

Localization Context Filtering for SuiteScript 2.x

As of 2020.1, you can define the localization context in which a client or user event script can execute.

Localization context filtering allows you to execute a script based on the country associated with the active record or transaction and prevents scripts from executing unnecessarily. For a list of records and transactions that support localization, see [Records that Support Localization](#).

You can specify the execution order of localized client and user event scripts. A maximum of 10 localized and 10 non-localized client scripts are supported. For more information, see the help topic [The Scripted Records Page](#).

The system automatically determines localization context for records and transactions based on their values for country fields such as subsidiary and tax nexus. It is important to understand this determination before you set up localization context filtering for scripts. For details, see [Determination of Localization Context](#).

The localization context feature includes:

- Localization Context Field** — The **Localization Context** field under the **Context Filtering** subtab has been added to the script deployment record. It lists the countries for which the script is relevant. All countries are selected by default. When this field is set to a value other than the default, the script runs only on records associated with the selected country or countries, based on records' localization context.
- Entry Points for Client Scripts** — There are 2 new entry points for SuiteScript 2.x client scripts. These entry points are required to use localization context filtering in client scripts. **localizationContextEnter** is executed when the record enters the localization context that is specified on the script deployment record. **localizationContextExit** is executed when the record exits that context.
- Locale Parameter** — `scriptContext.locale` is a new parameter for the **localizationContextEnter** and **localizationContextExit** entry points. This parameter lists the locales representing the new localization context.

The following table shows how you can specify the localization context based on the script type.

Script Type	Defining Localization Context Filtering
SuiteScript 2.x Client Script Type	Complete the following steps for adding localization context filtering to client scripts. <ol style="list-style-type: none"> 1. Use the localizationContextEnter and localizationContextExit entry points in your script. 2. Define the Localization Context in the Context Filtering Tab on the script deployment record.
SuiteScript 2.x User Event Script Type	Define the Localization Context in the Context Filtering Tab on the script deployment record only.

If a script deployment is localized on the Context Filtering Tab, the **pageInit** entry point of the script is ignored, and all of the other entry points of the script are not called before **localizationContextEnter** or after **localizationContextExit**. It is possible that the record may never enter a localization context. In this case, no callbacks of the script are executed. For more information, see the help topic SuiteScript 2.0 Client Script Entry Points and API.

Sales and Purchase Custom Transactions Available in SuiteScript

As of 2020.1, sales and purchase custom transaction types are available in SuiteScript.

Additionally, the following sublists and subrecords are available for sales and purchase custom transactions:

Sublist or Subrecord	Availability	Related Help Topics
Revenue Recognition	Sales custom transactions.	Revenue Recognition
Amortization	Purchase custom transactions.	Amortization Feature Overview
Shipping	Sales custom transactions with the option of enabling item line shipping and shipping to custom addresses.	Shipping
Promotions	Sales custom transactions.	Promotions
Landed Costs	Purchase custom transactions with the option of enabling landed cost per line or landed cost for the whole transaction.	Landed Cost

Sublist or Subrecord	Availability	Related Help Topics
Installments	Sales custom transactions and purchase custom transactions.	Creating Installments for sales. Vendor Installment Payments for purchases.

For more information on custom transactions in SuiteScript, see the help topic [Custom Transaction](#).

Map/Reduce Concurrency Limit Is Adjusted to Target Account Limit for SDF Projects

In NetSuite 2020.1, the behavior of the concurrency limit for map/reduce script objects in SDF projects has been updated. Previously, a SDF project validation failed with an error if the SDF project contained a map/reduce object that set the concurrency limit to a value that was greater than the target account limit. Now, if the concurrency limit in the map/reduce object is greater than the target account limit, SDF adjusts the concurrency limit to the target account limit.

For more information, see [Map/Reduce Concurrency Limit is Adjusted to Target Account Limit](#).

Change to Scripts on the Subsidiary Record Currency Field

Previously, getting the text or value of the **Currency** field on the subsidiary record returned inconsistent results depending on whether the field was being accessed in edit or read-only mode. As of 2020.1, this behavior is changed to ensure results are consistent.

To avoid unexpected results after your account is upgraded to 2020.1, you should modify any scripts that get the text or value of the subsidiary record **Currency** field while in read-only mode. The **Currency** field is read-only after a subsidiary record is created and saved.

For example, in previous releases, scripts returned the following for these APIs in read-only mode:


Version	API	Current Value Returned
SuiteScript 1.0	<code>nlapigetFieldValue('currency')</code>	The text value stored in the field. For example, "USD."
	<code>nlapigetFieldText('currency')</code>	null
	<code>nlapigetFieldValue('currencyvalue')</code>	The internal ID of the value stored in the field. For example, 1.
SuiteScript 2.0	<code>record.getValue({fieldId: 'currency'})</code>	The text value stored in the field. For example, "USD."
	<code>record.getText({ fieldId: 'currency'})</code>	The text value stored in the field. For example, "USD."
	<code>record.getValue({ fieldId: 'currencyvalue'})</code>	The internal ID of the value stored in the field. For example, 1.

As of 2020.1, these SuiteScript APIs return the following:

Version	API	2020.1 Value Returned
SuiteScript 1.0	<code>nlapigetFieldValue('currency')</code>	The internal ID of the value stored in the field. For example, 1.

Version	API	2020.1 Value Returned
	<code>nlapiGetFieldText('currency')</code>	The text value stored in the field. For example, "USD."
	<code>nlapiGetFieldValue('currencyvalue')</code>	The internal ID of the value stored in the field. For example, 1. This field ID will be deprecated in 2020.2.
SuiteScript 2.0	<code>record.getValue({fieldId: 'currency'})</code>	The internal ID of the value stored in the field. For example, 1.
	<code>record.getText({ fieldId: 'currency'})</code>	The text value stored in the field. For example, "USD."
	<code>record.getValue({ fieldId: 'currencyvalue'})</code>	The internal ID of the value stored in the field. For example, 1. This field ID will be deprecated in 2020.2.

Deprecation of Script Queue Monitor (Beta)

 **Important:** The target date for the deprecation of Script Queue Monitor (SQM) (Beta) was changed from September 3, 2019 to December 10, 2019.

As of 2019.2, the Script Queue Monitor (Beta) SuiteApp (Bundle ID: 56125) is deprecated. The target date for this deprecation was December 10, 2019, shifted from a previous target of September 3, 2019.

After this SuiteApp's deprecation, you can no longer use it to monitor script deployments of accounts that continue to use queues. You must start to monitor your queues on either the Script Queue Monitor (SQM) dashboard or the SuiteCloud Processors Monitor tool that are integrated in Application Performance Management (APM). If you want a better view of jobs handled by SuiteCloud Processors, scheduling queues, or both, you must use the SuiteCloud Processors Monitor tool.

You have to meet certain requirements, such as using an Administrator role or a role with specific permissions, to use the APM SuiteApp. After you install the APM SuiteApp, you can access the SQM dashboard at Customization > Performance > Script Queue Monitor. You can access the SuiteCloud Processors Monitor at Customization > Performance > SuiteCloud Processors Monitor.

For more information, see:

- Using the Script Queue Monitor Dashboard in APM
- Monitoring SuiteCloud Processors Performance

Method Added to N/redirect Module

A new `redirect.toRecordTransform(options)` method has been added to the redirect module. The method opens the form of the destination transaction and uses information from the source transaction to fill in fields on the form. For more information, see the help topic N/redirect Module.

Support for Relative File Paths in the N/file Module

You can specify a relative file path when you load a file using the `file.load(options)` method in the N/file module. Relative paths always start with `./` or `../`. Previously, you could load a file only by specifying the internal ID of the file or the absolute file path to the file in the File Cabinet. For more information, see the help topic N/file Module. This feature was introduced in NetSuite 2019.2.

2020.1 SuiteScript Record Exposures

Record Type	Notes
Balance Transactions by Segments	
Bonus	To use the bonus record, you must enable the Compensation Tracking feature. The bonus record is scriptable in both client and server SuiteScript.
Bonus Type	To use the bonus type record, you must enable the Compensation Tracking feature. The bonus type record is scriptable in both client and server SuiteScript.
Invoice Group	
Item Process Family	
Item Process Group	
Memorized Transaction Definition	Memorized transaction templates and definitions must be created in the NetSuite user interface, but existing memorized transaction definitions can be called using SuiteScript. Memorized transaction definitions are scriptable in both client and server SuiteScript. Automatically-created transactions do not support server-side scripting. Memorized transaction definitions support only the Read, Update, Delete, and Search functions.
Order Type	
Pick Strategy	
Pick Task	
Project Work Breakdown Structure	To use the project work breakdown structure record, you must enable the Job Costing and Project Budgeting, Advanced Project Accounting, Custom Records, Custom Segments, and Activity Codes features. The project work breakdown structure event record is scriptable in both client and server SuiteScript. Copy and transform are not supported.
Vendor Prepayment	
Vendor Prepayment Application	
Wave	
Zone	

2020.1 SuiteScript Records Browser

The 2020.1 SuiteScript Records Browser is not yet available.

SuiteTalk Web Services Integration

NetSuite 2020.1 includes the following enhancements to web services features:

- [Changes in the URL Structure of REST Web Services](#)
- [REST Web Services Support for CRUD Operations on Custom Records](#)
- [Fully Supported Record Types for REST Web Services in 2020.1](#)
- [New REST API Browser](#)
- [Record Action Execution Through REST Web Services](#)
- [Support for Record Transformation Through REST Web Services](#)
- [SuiteQL Query Execution Through REST Web Services](#)
- [Changes in SuiteAnalytics Workbook Execution Through REST Web Services](#)
- [SuiteScript Execution Context for REST Web Services](#)
- [REST Web Services Requests and Responses Tracked in the Execution Log](#)
- [Sales and Purchase Custom Transactions Available in SOAP Web Services](#)
- [New GetConcurrencyGovernance Operation in SOAP Web Services](#)
- [Operations Removed in 2020.1 SOAP Web Services Endpoint](#)
- [Governance Enabled for All Accounts](#)
- [Integration Record Enhancements Related to OAuth 2.0](#)
- [SOAP Web Services Version 2020.1](#)
- [Araxis Merge Diff File for the 2020.1 Endpoint](#)
- [2020.1 SOAP Schema Browser](#)

Changes in the URL Structure of REST Web Services

As of 2020.1, you can access NetSuite resources through REST web services by using URLs specific to either record or query service.

To use CRUD operations on records, you can use a URL similar to the following:

```
PATCH https://demo123.suitetalk.api.netsuite.com/services/rest/record/v1/customer/42
```

To access resource metadata, you can use a URL similar to the following:

```
GET https://demo123.suitetalk.api.netsuite.com/services/rest/record/v1/metadata-catalog
```

For information about using metadata, see the help topic [Working with Resource Metadata](#).

To execute saved datasets, you can use a URL similar to the following:

```
GET https://demo123.suitetalk.api.netsuite.com/services/rest/query/v1/workbook/custworkbook123/result
```

For more information, see the help topic [REST Web Services URL Schema and Account-Specific URLs](#).

REST Web Services Support for CRUD Operations on Custom Records

As of 2020.1, you can use all CRUD (create, read, update, and delete) operations on custom record instances. You can use CRUD operations to perform business processing on custom records and move dynamically between custom records.

In NetSuite, you track all of the information in your account using records. Users with the Custom Record Entries permission can create custom records that collect information specific to the needs of their business.

Creating custom record types through REST web services is not supported. To work with custom record definitions, you must have the Custom Records feature enabled on your account. To enable the feature, go to Setup > Company > Setup Tasks > Enable Features, and select Custom Records on the SuiteCloud subtab. You must create a custom record type in the UI, and then you can work with instances of the custom record type through REST web services. For information, see the help topic [Creating Custom Record Types](#).

You also can use SDF to create custom record types. For information, see the help topic [Custom Record Types as XML Definitions](#).

For information about using CRUD operations, see the sections under [Working with Records](#).

Fully Supported Record Types for REST Web Services in 2020.1

The following table lists the records that are fully supported as of 2020.1.

Record Type	Notes
Billing Account	Available if SuiteBilling features are enabled. For information, see the help topic Enabling SuiteBilling Features .
Price Book	Available if SuiteBilling features are enabled. For information, see the help topic Enabling SuiteBilling Features .
Price Plan	Available if SuiteBilling features are enabled. For information, see the help topic Enabling SuiteBilling Features .
Subscription	Available if SuiteBilling features are enabled. For information, see the help topic Enabling SuiteBilling Features .
Subscription Line	Available if SuiteBilling features are enabled. For information, see the help topic Enabling SuiteBilling Features . A subscription line record is always tied to a subscription record.
Subscription Plan	Available if SuiteBilling features are enabled. For information, see the help topic Enabling SuiteBilling Features . A subscription requires a subscription plan, but the subscription plan is not always tied to a subscription.
Subsidiary	You must use NetSuite OneWorld or have the Subsidiaries feature enabled to use the subsidiary record. The POST (create), PATCH (update), and DELETE operations are not supported.

Apart from these fully supported records, all records listed in the REST API Browser are available as beta records in REST web services. For information, see the [REST API Browser](#). For information about working with the browser, see the help topic [The REST API Browser](#).

New REST API Browser


The REST API Browser is a browser that provides a visual overview of the structure and capabilities of the REST web services Record API. The REST API browser includes information such as the following:

- The support level of records. Beta records are marked with a beta label.
- The summary of all records, sublists, schema definitions, and other objects.
- The available operations you can perform on a record.
- The description of URLs, HTTP methods, and request parameters used for CRUD operations.
- The structure of responses you can receive after performing an operation.
- The description of field names and field types, and the properties of fields.

To access the browser, see the [REST API Browser](#)

For more information about working with the browser, see the help topic [The REST API Browser](#).

Record Action Execution Through REST Web Services

 **Warning:** Record action execution through REST web services 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 this 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.


REST web services support APIs that provide the programmatic equivalent of clicking a button in the NetSuite user interface. With the record action APIs, you can use REST web services to trigger the same business logic that is triggered by the click of a UI button.

By using record actions, you can update the state of a record. Approve and reject are two examples of record actions. When an approve or a reject action is executed on a record, the approval status of the record is saved immediately.

REST web services support the same record actions supported by SuiteScript. For a list of supported actions, see the help topic [Supported Record Actions](#).

For more information, see [Executing Record Actions](#).

Support for Record Transformation Through REST Web Services

 **Warning:** Support for record transformation through REST web services 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 this 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 2020.1, you can use REST web services to transform a record from one type into another. In REST web services, you use the POST method to send a record transformation request.

All record transformations available in SuiteScript are also available in REST web services. For information about the supported transformation types, see the help topic [record.transform\(options\)](#).

For more information about record transformation through REST web services, see [Transforming Records](#).

SuiteQL Query Execution Through REST Web Services

Warning: SuiteQL query execution through REST web services 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 2020.1, you can execute SuiteQL queries through REST web services.

SuiteQL is a query language based on the SQL database query language. SuiteQL provides advanced query capabilities that can be used to access NetSuite records.

To execute SuiteQL queries through REST web services, send a POST request to the `suiteql` resource, and specify the query in the request body after the query parameter `q`. The following example shows a SuiteQL query executed through REST web services.

```
> POST https://demo123.suitetalk.api.netsuite.com/services/rest/query/v1/suiteql
> Prefer: transient
. {
.   "q": "SELECT email, COUNT(*) as count FROM transaction GROUP BY email"
. }
```

For more information about SuiteQL in general, see the help topic SuiteQL.

For more information about executing SuiteQL queries through REST web services, see Executing SuiteQL Queries Through REST Web Services.

Changes in SuiteAnalytics Workbook Execution Through REST Web Services

Warning: Support for SuiteAnalytics workbook execution through REST web services 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 this 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.

SuiteAnalytics Workbook is an analytical tool available in NetSuite. With SuiteAnalytics Workbook, you can create customizable workbooks that combine queries, pivot tables, and charts using a single tool that leverages a new data source. For information about working with SuiteAnalytics workbooks in the UI, see the help topic SuiteAnalytics Workbook.

In REST web services, you can run saved workbooks and retrieve their results. You can execute both standard and custom workbooks.

As of 2020.1, the URL structure for executing workbooks through REST web services changed and a `result` parameter was added to the URL. To execute a workbook, you send a GET request similar to the following:

```
GET https://demo123.suitetalk.api.netsuite.com/services/rest/query/v1/workbook/ExampleWorkBook1/result
```

When you work with SuiteAnalytics workbooks in REST web services, consider the following:

- Workbooks cannot be created, filtered, or edited through REST web services.
- Metadata is not provided for saved analytics workbooks.
- The response from a saved analytics execution returned through REST web services may have a different format and values than responses for record instance requests.

For more information, see the help topic [Working with SuiteAnalytics Workbooks in REST Web Services](#).

SuiteScript Execution Context for REST Web Services

NetSuite 2020.1 introduces the REST web services script execution context. For NetSuite user event and client scripts, you can set up execution context filtering to control the contexts in which these scripts can run. You can set up execution context filtering in the Execution Context field on the Context Filtering subtab of the Script Deployment record. For more information, see [Enhancements to Execution Contexts for Scripts and Workflows](#).

If a script has its execution context set to REST web services, the script only executes if it is triggered through a REST web services request.

For example, you can deploy a script similar to the following on customer records. In this example, the beforeSubmit script is only executed on the record if the request is triggered through REST web services.

```
define(['N/record','N/runtime'], function(record, runtime) {
    function beforeSubmit(context) {
        var ctx = runtime.executionContext
            var isRestWs = (runtime.ContextType.REST_WEBSERVICES === ctx);
            log.debug(ctx + ": Before submit of " + context.newRecord.type);
    }
}
```

For more information about script execution contexts, see the help topic [runtime.executionContext](#).

For information about execution context behavior in workflows, see [Change to Workflow Execution Contexts Behavior](#).

REST Web Services Requests and Responses Tracked in the Execution Log

As of 2020.1, you can access the contents of REST web services requests and responses through the REST Web Services Execution Log. To access the REST Web Services Execution Log, go to Setup > Integration > Integration Management > Manage Integrations, and select the integration record you want to view. On the integration record, go to REST Web Services on the Execution Log subtab, and click View to download a request or a response.

The requests and responses logged in the execution log contain the values of sensitive fields in masked format. For information about using an encrypted format on custom fields, see the help topic [Encrypted Custom Field Stored Values](#).

For more information about REST Web Services logging, see the help topic [Using the REST Web Services Execution Log](#).

Sales and Purchase Custom Transactions Available in SOAP Web Services

As of 2020.1, sales and purchase custom transaction types are available in SOAP web services.

Additionally, the following sublists and subrecords are available for sales and purchase custom transactions:

Sublist or Subrecord	Availability	Related Help Topics
Revenue Recognition	Sales custom transactions.	Revenue Recognition
Amortization	Purchase custom transactions.	Amortization Feature Overview
Shipping	Sales custom transactions with the option of enabling item line shipping and shipping to custom addresses.	Shipping
Promotions	Sales custom transactions.	Promotions
Landed Costs	Purchase custom transactions with the option of enabling landed cost per line or landed cost for the whole transaction.	Landed Cost
Installments	Sales custom transactions and purchase custom transactions.	Creating Installments for sales. Vendor Installment Payments for purchases.

New GetConcurrencyGovernance Operation in SOAP Web Services

As of 2020.1 you can use the `getAccountGovernanceInfo` and the `getIntegrationGovernanceInfo` operations in SOAP web services.

With the `getAccountGovernanceInfo` operation, you can get the Account Concurrency Limit and the Unallocated Concurrency Limit.

With the `getIntegrationGovernanceInfo` operation, you can get the Concurrency Limit for the integration (`integrationConcurrencyLimit`) and the `limitType`, which can be:

- `_integrationSpecific`, when a limit has been allocated.
- `_internal`, when it is an internal application. In this case the limit is not displayed.
- `-accountLimit`, when no specific limit has been allocated to the integration.

For more information about governance, see [Web Services and RESTlet Concurrency Governance](#).

Operations Removed in 2020.1 SOAP Web Services Endpoint

The following operations have been removed in 2020.1 SOAP web services endpoint:

- `login`
- `logout`
- `ssoLogin`
- `mapSso`
- `searchMore`

- searchNext

You should use Token-based Authentication for logging into NetSuite instead. For more information, see the help topic [Token-based Authentication \(TBA\)](#).

Note: The operations remain available for earlier endpoints. For more information on which endpoints are supported, see the help topic [Support for Existing WSDL Versions](#).

Governance Enabled for All Accounts

As of 2020.1, web services and RESTlet account governance has been enabled for all accounts, so the Web Services and RESTlet Account Governance Enabled box has been removed.

Note: The Web Services and RESTlet Account Governance Enabled box was visible for administrators in production accounts, but was editable only in Sandbox environment.

For more information about governance, see [Web Services and RESTlet Concurrency Governance](#).

Integration Record Enhancements Related to OAuth 2.0

A new approach to access REST Web Services and RESTlets is now available. OAuth 2.0 provides an alternative to Token-based Authentication. OAuth 2.0 has a standard authorization code grant flow that generates a pair of tokens: an access token and a refresh token. The access token is valid for 60 minutes and is used to access the protected resource. For detailed information about OAuth 2.0, see [OAuth 2.0 Delegated Access for REST Web Services and RESTlets](#).

You can configure settings related to OAuth 2.0 on the integration record of your REST web services or RESTlet integration application. For information, see [Defining OAuth 2.0 on Integration Records](#). For general information about working with integration records, see the help topic [Creating an Integration Record](#).

Field Type Change in the Project Task Record

The field type of the remainingWork and actualWork fields in the projekt task record changes in 2020.1 endpoint from double to duration type.

You must take this change of field type into consideration when upgrading to the 2020.1 endpoint to avoid any issues with your integration.

Earlier endpoints will **not** be affected by this field type change.

SOAP Web Services Version 2020.1

SOAP web services version 2020.1 is available. When your implementation is upgraded to 2020.1, the 2020.1 WSDL becomes available in your production account.

You do not need to upgrade your WSDL when the 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](#).

Araxis Merge Diff File for the 2020.1 Endpoint

The Araxis Merge Diff file highlights 2019.2 – 2020.1 schema changes. The diff file is not yet available, but this section provides details about the types of information it will include.

- [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 to 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="vaseDelivered" type="xsd:boolean" minOccurs="0"/>	1055	<element name="vaseDelivered" type="xsd:boolean" minOccurs="0"/>
1055	<element name="chargeType" type="platformCommonType:ChargePoleType" 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"/>

2020.1 SOAP Schema Browser

The 2020.1 SOAP Schema Browser is not yet available.

SuiteCloud SDK

SuiteCloud Software Development Kit (SuiteCloud SDK) are the tools you can use to develop SuiteCloud Development Framework (SDF) projects, the SuiteCloud IDE plug-ins, and SuiteCloud CLI.

SuiteCloud SDK for 2020.1 includes the following features and updates:

- [2020.1 SuiteCloud CLI for Java Is Not Yet Available](#)
- [2020.1 SuiteCloud Plug-in for WebStorm Is Not Yet Available](#)
- [2020.1 SuiteCloud Plug-in for Eclipse Is Not Yet Available](#)

Generally, 2020.1 plug-in behavior changes are designed to support SDF. 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 SDF projects.

For information about additional features that impact SuiteCloud IDE plug-ins and SuiteCloud CLI, see the release note for [SuiteCloud Development Framework](#).

2020.1 SuiteCloud CLI for Java Is Not Yet Available

SuiteCloud Command Line Interface for Java (SuiteCloud CLI for Java) 2020.1 is targeted for release in February 2020.


SuiteCloud CLI for Java is the SDF command line interface. You can use the CLI for Java 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 CLI for Java, see the help topic [CLI for Java Guide](#).

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


2020.1 SuiteCloud Plug-in for WebStorm Is Not Yet Available

The 2020.1 WebStorm plug-in is targeted to be released in February 2020.

 **Important:** When your account is upgraded to 2020.1, your instance of the plug-in is not updated automatically to 2020.1. After your account upgrade, you must manually upgrade the plug-in to the latest version. For more information, see the help topic [Adding the SuiteCloud IDE Plug-in to WebStorm](#).

2020.1 SuiteCloud Plug-in for Eclipse Is Not Yet Available

The 2020.1 Eclipse plug-in is targeted to be released in February 2020.

 **Important:** When your account is upgraded to 2020.1, your instance of the plug-in is not updated automatically to 2020.1. After your account upgrade, you must manually upgrade the plug-in to the latest version. For more information, see the help topic [Updating Eclipse for Use with SuiteCloud IDE Plug-in](#).

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>.

NetSuite 2020.1 includes the following enhancements to SDF features:

- [Custom Code and Action Tabs in Custom Forms Support](#)
- [Sales and Purchase Custom Transactions Support](#)
- [Additional Transaction Type Forms Can Be Customized](#)
- [Translatable Fields Support](#)
- [Map/Reduce Concurrency Limit is Adjusted to Target Account Limit](#)
- [Financial Institution Connectivity Plug-in Support](#)
- [Parser Plug-in Support](#)
- [Minor Updates to Custom Objects](#)

Custom Code and Action Tabs in Custom Forms Support

SuiteCloud Development Framework (SDF) supports the Custom Code and Action tabs in custom forms. In NetSuite, the Custom Code tab and Actions tab are used together to define custom buttons for custom forms. Custom buttons are a way for your users to intentionally execute client SuiteScript on custom forms. The buttons are useful for executing a specific function when the user clicks the button on the form, such as creating a customized invoice. You can add custom buttons to custom forms in SDF by specifying the actionBar element to define the Action tab.

The following example defines two custom buttons. The first button has the label Invoice Client, and runs the function invoiceClient. The second button has the label Generate Report, and runs the function generateReport. To execute, both functions must be defined in the client SuiteScript file referenced by the scriptFile field for the customCode element in the same custom form object.

```
<actionBar>
  <customButtons>
    <customButton>
      <label>Invoice Client</label>
      <function>invoiceClient</function>
    </customButton>
    <customButton>
      <label>Generate Report</label>
      <function>generateReport</function>
    </customButton>
  </customButtons>
</actionBar>
```

Each custom button runs SuiteScript from the Custom Code tab, which you can define in SDF by specifying the customCode element.



Important: Only SuiteScript 2.0 scripts are supported for the scriptFile value in customCode.

The following example defines the Custom Code tab by specifying the customCode element, which contains the scriptFile field that references the client SuiteScript file invoice.js. The invoice.js file can contain functions used by custom buttons.

```
<customCode>
  <scriptFile>[/SuiteScript/invoice.js]</scriptFile>
</customCode>
```

The following custom objects support the customCode and actionBar elements:

- addressForm
- entryForm
- transactionForm

For more information about defining the customCode and actionBar elements, see Custom Code Tab and Actions Tab in XML Definitions.

Sales and Purchase Custom Transactions Support

SuiteCloud Development Framework (SDF) supports the Sales and Purchase custom transaction types when defining custom transaction objects. For information about Sales and Purchase custom transactions

in NetSuite, see [Sales and Purchase Custom Transactions Available](#) and [Sales and Purchase Transaction Types Overview](#).

For information about defining customtransactiontype objects, see the help topic [Custom Transaction Record Types as XML Definitions](#).

Additional Transaction Type Forms Can Be Customized

Prior to this release, SDF supported a small number of transaction form types. As of 2020.1, SDF supports many more transaction forms.



Important: You should copy or modify a custom transaction form that you imported from your account. SDF does not support creating custom forms. To learn about importing an object, see the help topic [Account Component Imports](#).

The following table shows the new types of transaction forms that are supported by SDF. The columns show script ID and the record type that the form is applied to.

Script ID of Transaction Form Type	Record Type Associated with Transaction Form
STANDARDBLANKETPURCHASEORDER	Blanket Purchase Order
STANDARDCREDITCARDCHARGE	Credit Card
STANDARDCREDITMEMO	Credit Memo
STANDARDCUSTOMERDEPOSIT	Customer Deposit
STANDARDCUSTOMERREFUND	Customer Refund
STANDARDDEPOSIT	Deposit
STANDARDEXPENSEREPORT	Expense Report
STANDARDFULFILLMENTREQUEST	Fulfillment Request
STANDARDFULFILLMENTREQUESTPICKINGTICKET	Fulfillment Request Picking Ticket
STANDARDINVENTORYADJUSTMENT	Inventory Adjustment
STANDARDINVENTORYCOUNT	Inventory Count
STANDARDINVENTORYTRANSFER	Inventory Transfer
STANDARDINVENTORYWORKSHEET	Inventory Worksheet
STANDARDITEMFULFILLMENT	Item Fulfillment
STANDARDITEMRECEIPT	Item Receipt
STANDARDONLINEORDERINVOICE	Sales Order External
STANDARDOPPORTUNITY	Opportunity
STANDARDPACKINGSLIP	Packing Slip
STANDARDPICKINGTICKET	Picking Ticket
STANDARDPURCHASECONTRACT	Purchase Contract
STANDARDREQUISITION	Requisition

Script ID of Transaction Form Type	Record Type Associated with Transaction Form
STANDARDRETURNAUTHORIZATIONCASH	Return Authorization
STANDARDRETURNAUTHORIZATIONCREDIT	Return Authorization
STANDARDRETURNREQUESTCASH	Return Authorization (External)
STANDARDRETURNREQUESTCREDIT	Return Authorization (External)
STANDARDREVENUEARRANGEMENT	Revenue Arrangement
STANDARDSALESORDERPROGRESSBILLING	Sales Order
STANDARDSERVICEINVOICE	Invoice
STANDARDTRANSFERORDER	Transfer Order
STANDARDVENDORBILL	Bill
STANDARDVENDORCREDIT	Bill Credit
STANDARDWORKORDER	Work Order
STANDARDVENDORRETURNAUTHORIZATION	Vendor Return Authorization

To define the transaction form type in your object XML, continue using the same reference syntax supported by SDF: `scriptid="objectprefix_scriptid"standard="TRANSACTIONFORMID"`. Use one of the supported values listed in the tables earlier. These values are also found in `transactionform_standard`.

In the following example, 'Ultimate Sales Form' is the name of the custom transaction form. The customization is based on the standard sales order form in NetSuite. As specified by the `recordType` element, 'Ultimate Sales Form' is applied to the Sales Order record.

```
<transactionForm scriptid="custform_sales_335" standard="STANDARDSALESORDER">
  <name>Ultimate Sales Form</name>
  <recordType>SALESORDER</recordType>
  . . .
```

Note: Some transaction forms have feature requirements. You can use SDF project validation to determine if a feature is required to use a form. For information, see the help topic [SDF Project Validation](#).

For more information about custom transaction form objects, see the following topics:

- Supported Custom Transaction Form Objects
- `transactionform_standard`
- Referencing a Custom Transaction in XML Definitions
- Custom Transaction Form Example

Translatable Fields Support

SuiteCloud Development Framework (SDF) supports some translatable fields for `clientscript` and `workflow` custom objects. When creating custom objects in SDF that have translatable fields, you can reference translation strings from translation collections. After the custom objects and the translation collections are deployed to an account, the NetSuite UI displays the translation for each translatable field in the

account language. If a field has no translation in the account language, the default translation is displayed in the NetSuite UI.

For information about the supported translatable fields in custom objects, see [Translatable Fields in XML Definitions \(Beta\)](#).

Note: The field label translation reference format requires a translation collection object. For information about using translation collections in SDF, see the help topic [Translation Collections as XML Definitions](#).

The following example is a workflow custom object with a label field that contains a reference to the term approve in the translation collection `custcollection_approvals`:

```
<workflow scriptid="customworkflow1">
  <name>My custom workflow</name>
  <recordtypes>LEAD</recordtypes>
  ...
  <workflowstates>
  ...
    <workflowstate scriptid="workflowstate_approvalpending">
      <name>State 2: Pending Approval</name>
      ...
      <workflowactions triggertype="BEFORELOAD">
        <addbuttonaction scriptid="workflowaction_approvebutton">
          ...
          <label translate="T">[scriptid=custcollection_approvals.approve]</label>
          ...
        </addbuttonaction>
      </workflowactions>
    </workflowstate>
  ...
</workflowstates>
...
</workflow>
```

Map/Reduce Concurrency Limit is Adjusted to Target Account Limit

Prior to this release, your SDF project validation failed with an error if your SDF project contained a map/reduce object that sets the concurrency to a value that was greater than the target account limit. You also might have required multiple map/reduce script versions with different concurrency values specific to account limits you deploy to. Now you can deploy the same map/reduce script object to accounts limited to different concurrency values.

As of 2020.1, if your SDF project containing a map/reduce script object, SDF can adjust the concurrency value to the target account limit. Concurrency limits are specific to the account and SuiteCloud plus licenses.

Adjustment applies only to the deployment record of the account. The source concurrency value in the map/reduce object in your SDF project is not modified. The concurrency limit sourced from your SDF project is compared to the account limit. The deployment record in the account takes the lesser value of the two. Adjustment is done as necessary. When the concurrency value is equal to or less than the target account limit, there is no change to concurrency value. If the account concurrency limit increases, the

concurrency value is updated when the source value is larger. Adjustment no longer occurs when the concurrency field of deployment record is edited.

For example, if you set concurrency to 10 and deploy your SDF project to an account limited to 5, the deployment record in the account is set to 5. If you then download the map/reduce object as XML or import it to an SDF project, the concurrency value is unchanged. It remains set to 10.

For more information, see the following topics:

- [scriptdeployment](#)
- [mapreducescript](#)
- [Concurrency Limit](#)

Financial Institution Connectivity Plug-in Support

SuiteCloud Development Framework (SDF) supports customizing the Financial Institution Connectivity plug-in. The plug-in provides a way for NetSuite to use the Financial Institution Connectivity API to directly connect customers to a specific financial institution. For information about customizing and using the Financial Institution Connectivity plug-in in NetSuite, see [New Financial Institution Connectivity Plug-in API](#).

You can customize the plug-in in SDF by defining `fconnectivityplugin` objects. For information about the available fields, see `fconnectivityplugin`.

Each `fconnectivityplugin` custom object requires a `scriptfile` field reference to a SuiteScript file that implements the following interface functions: `getAccounts`, `getTransactionData`, and `getConfigurationiFrameUrl`.

The following example defines a `fconnectivityplugin` custom object named "Financial Connectivity Profile 1" that specifies the SuiteScript file `connectionprofile.js`:

```
<fconnectivityplugin scriptid="customscript1">
  <description></description>
  <isinactive>F</isinactive>
  <loglevel>DEBUG</loglevel>
  <name>Financial Connectivity Profile 1</name>
  <notifyadmins>F</notifyadmins>
  <notifyemails></notifyemails>
  <notifyowner>T</notifyowner>
  <notifyuser>F</notifyuser>
  <runasrole></runasrole>
  <scriptfile>[/SuiteApps/com.example.yourapp/src/parser/connectionprofile.js]</scriptfile>
  <status>TESTING</status>
</fconnectivityplugin>
```

Parser Plug-in Support

SuiteCloud Development Framework (SDF) supports customizing the Parser plug-in to create parsers for different bank and credit card statement formats. For information about using the Parser plug-in, see the help topic [Parser Plug-in Overview](#).

You can customize the plug-in by defining `bankstatementparserplugin` objects in your SDF project. For information about the available fields, see `bankstatementparserplugin`.

Each `bankstatementparserplugin` custom object requires the `scriptfile` field reference to a SuiteScript file that implements an interface function. For more information, see the help topic [Creating the Parser Plug-in Script File](#).

The following example defines a bankstatementparserplugin custom object with the name “Statement Parser 1” that references the SuiteScript file statementparser1.js:

```
<bankstatementparserplugin scriptid="customscript2">
  <description></description>
  <isinactive>F</isinactive>
  <loglevel>DEBUG</loglevel>
  <name>Statement Parser 1</name>
  <notifyadmins>F</notifyadmins>
  <notifyemails></notifyemails>
  <notifyowner>T</notifyowner>
  <notifyuser>F</notifyuser>
  <runasrole></runasrole>
  <scriptfile>[/SuiteApps/com.example.yourapp/src/parser/statementparser1.js]</scriptfile>
  <status>TESTING</status>
</bankstatementparserplugin>
```

Minor Updates to Custom Objects

Note the following information about updates to SuiteCloud Development Framework (SDF) support for custom objects as of 2020.1:

Object	Field	Type	Notes
clientscript	localizationcontext	multi-select list	You can filter your scripts to run based on the localization context of your users. For more information, see Introducing Localization Context — User Event and Client Script Association and Localization Context Filtering for SuiteScript 2.x . For more information about the possible values for localizationcontext, see the help topic scriptdeployment.
usereventscript	alllocalizationcontexts	boolean	You can filter your scripts to run based on the localization context of your users. For more information, see Introducing Localization Context — User Event and Client Script Association and Localization Context Filtering for SuiteScript 2.x . For information about the possible values for alllocalizationcontexts and localizationcontext, see the help topic scriptdeployment.
	localizationcontext	multi-select list	
workflow	clienttriggerfieldssublist	single-select list	You can include workflows on the Expense sublist for Expense reports, by specifying the field value EXPENSEREPORT:EXPENSE. For more information about the Expense sublist, see Support for Expenses Sublist on Expense Report Record .
	sublist	single-select list	

SuiteApps (Bundles) Released by NetSuite

NetSuite 2020.1 includes the following enhancements to SuiteApps released by NetSuite:

- [Accounting SuiteApps](#)
- [Administration SuiteApps](#)
- [Banking SuiteApps](#)
- [SuitePeople SuiteApps](#)
- [Order Management SuiteApps](#)
- [Inventory Management SuiteApps](#)
- [Localization SuiteApps](#)
- [Manufacturing SuiteApps](#)
- [Projects SuiteApps](#)
- [Non-Profit SuiteApps](#)
- [Food and Beverage SuiteApps](#)
- [Taxation SuiteApps](#)

Accounting SuiteApps

Following is the 2020.1 accounting enhancement to SuiteApps:

SuiteApprovals Enhancements

SuiteApprovals version 5.00.0 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.

The following standard capabilities are supported for requisitions:

- Automatic approvals using employee and record amount limits
- Approval delegation
- Approve and finalize (Final Approval)
- One-level approval based on approver's approval limit (Skip Approval)
- **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 through the roles assigned to them. This enhancement enables 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 2019.2.

Administration SuiteApps

Following are the 2020.1 administration enhancements to SuiteApps:

- [Operation ID Field Added on Page Time Details](#)

- [Deprecation of Script Queue Monitor \(Beta\)](#)

Operation ID Field Added on Page Time Details

In Application Performance Management (APM) SuiteApp version 1.10.3, you can filter instances according to their operation ID on the Page Time Details tool.

Previously, you can open the Page Time Details page of an instance by going to the Customization > Performance > Page Time Summary, selecting the performance log instance, and clicking the corresponding view icon.

Like other tools, Page Time Details provides a link to Profiler Details, which lets you monitor the performance of the operation. To avoid getting an error before you click **Profiler Details** on the upper right corner of the page, ensure that the **Operation ID** field contains a value.

To start using Page Time Details, go to Customization > Performance > Page Time Details.

For more information, read the help topic Using Page Time Details.

Banking SuiteApps

Following is the 2020.1 banking enhancement to SuiteApps:

Bank Statement Parsers Enhancements

Bank Statement Parsers version 20.1 includes the following enhancements:

- **CAMT.053 Parser** - The new version of Bank Statement Parsers SuiteApp includes a parser plug-in for CAMT.053 in UTF-8 (Unicode) encoding. The CAMT.053 parser plug-in can parse bank statement files that use the CAMT.053.001.02 version and can recognize transactions in standard ISO bank transaction codes. The plug-in includes default field mappings for bank transactions imported into NetSuite. You can also create new mappings or override the default mappings.
- **BAI2 Parser Enhancement** – BAI2 files are now successfully imported even if the non-mandatory fields in Record 03 and Record 16 are blank.
- **OFX/QFX Parser Enhancements:**
 - **Import credit card statements** – The OFX/QFX plug-in implementation can now read and parse OFX credit card statement files. Statement files may contain single, multiple credit card accounts, or mixed of bank and credit card accounts.
 - **Support for multiple accounts** – The SuiteApp can now successfully import OFX/QFX statement files that use the <STMTRNRS> aggregator tag to separate multiple bank accounts in the file.
 - **Parser plugin name** – The OFX plug-in name has been changed from OFX Plugin Implementation to **OFX/QFX Plugin Implementation** to easily recognize that this parser supports QFX version.

SuitePeople SuiteApps

Following is the 2020.1 SuitePeople enhancement to SuiteApps:

Onboarding Checklist Enhancements

The latest update of the Onboarding Checklist SuiteApp includes enhancements to existing features and the renaming of the application to Onboarding/Offboarding Plans SuiteApp.

Onboarding/Offboarding Plans Version 1.01.0 (Bundle ID: 244690) helps businesses facilitate employee transitions by using dedicated plans and templates. HR professionals can use it to create employee plans, use premade plan templates or create their own, and receive notifications related to an employee transition.

The following table shows the enhancements included with the update.

Enhancements	Onboarding Checklist	Onboarding/Offboarding Plans
Updated bundle details	Onboarding Checklist Bundle ID: 244690	Onboarding/Offboarding Plans Bundle ID: 244690 Version: 1.01.0
Added the offboarding plan type (previously checklist)	Includes onboarding checklists for newly hired and transferring employees	Includes the following: <ul style="list-style-type: none"> Onboarding plans for newly hired and transferring employee Offboarding plans for exiting employees
Enhanced access for Administrators	Chief People Officer (CPO) and Human Resources Generalist (HRG) roles can view, edit, and delete checklists. Administrators have limited access.	CPO, HRG, and Administrator roles can view, edit, and delete plans and templates.
Updated navigation to create plans and templates	For HRGs and CPOs: <ul style="list-style-type: none"> To create a new checklist, go to Payroll and HR > Lists > Onboarding Checklist > New. To create a new template, go to Payroll and HR > Lists > Onboarding Checklist Template > New 	For HRGs and CPOs: <ul style="list-style-type: none"> To create a new plan, go to Payroll and HR > Lists > Onboarding/Offboarding Plan > New. To create a new template, go to Setup > Onboarding/Offboarding > Template > New. For Administrators: <ul style="list-style-type: none"> To create a new plan, go to Lists > Employees > Onboarding/Offboarding Plan > New. To create a new template, go to Setup > Onboarding/Offboarding > Template > New.
Updated page names	<ul style="list-style-type: none"> Onboarding Checklist Onboarding Checklist Template 	<ul style="list-style-type: none"> Onboarding/Offboarding Plan List Onboarding/Offboarding Template List
Updated navigation to view lists	<ul style="list-style-type: none"> Onboarding Checklist List Onboarding Checklist Template List 	<ul style="list-style-type: none"> Onboarding/Offboarding Plan Onboarding/Offboarding Template
Added the premade offboarding templates	Includes the Onboarding Checklist Template	Includes the following templates: <ul style="list-style-type: none"> Onboarding Plan Template Offboarding Plan Template
Updated fields used to determine due dates in a template	On the Onboarding Checklist Template page, the following information determine the due date of a task: <ul style="list-style-type: none"> Calculate Due Date From column on the Tasks subtab Days column on the Tasks subtab 	On the Onboarding/Offboarding Template page, the following information determine the due date of a task: <ul style="list-style-type: none"> Due Date Basis field on the header section Days from Due Date Basis column on the Tasks subtab

Enhancements	Onboarding Checklist	Onboarding/Offboarding Plans
	<p>On the Days column, you only need to enter the number of days.</p> <p>Example: Assignee must order a computer 14 days before the hire date.</p> <ul style="list-style-type: none"> ■ Checklist Type: Onboarding ■ Task Name: Order a computer ■ Calculate Due Date From: Employee Start Date - ■ Days from Due Date Basis: 14 	<p>The Due Date Basis field automatically changes according to plan type. For onboarding plans, it displays Hire Date. For offboarding plans, it displays Termination Date.</p> <p>Enter data based on when the task must be finished.</p> <ul style="list-style-type: none"> ■ Before the due date basis – Enter a minus sign (-) and the number of days. ■ On the same day as due date basis – Enter zero (0) ■ After the due date basis – Enter the number of days. ■ No defined due date – Leave blank. <p>The following lists some examples of tasks and the appropriate entries:</p> <ul style="list-style-type: none"> ■ Order a computer 14 days before the hire date – Enter -14. ■ Introduce the new hire on their hire date – Enter 0. ■ Complete profile five days after the hire date – Enter 5. ■ Submit an optional document – Leave blank.

If you have created a custom saved search to generate a list of onboarding checklists, add a filter to this saved search to exclude offboarding checklists.

For more information, read the help topic [Employee Onboarding and Offboarding Plans](#).

Order Management SuiteApps

Following are the 2020.1 order management enhancements to SuiteApps:

- [Electronic Bank Payments Enhancements](#)
- [Grid Order Management Enhancements](#)
- [Subscription Billing Bulk Operations](#)
- [Subscription Billing Pricing Interval UI Enhancements](#)

Electronic Bank Payments Enhancements

Electronic Bank Payments version 2020.1 includes the following features.

- [Electronic Bank Payments SuiteApp Templates Ownership Transfer to Localization SuiteApps](#)
- [Support for Processing Grouped Invoices](#)
- [Installment Payments Support for Accounts Receivables](#)
- [Primary Bank Setup for One World Accounts with Multiple Subsidiaries](#)
- [Positive Pay Processing using SuiteScript 2.0](#)

Electronic Bank Payments SuiteApp Templates Ownership Transfer to Localization SuiteApps

In NetSuite 2020.1, Electronic Bank Payments (EBP) SuiteApp templates are updated with the following changes.

- Ownership of 61 native templates that were previously managed by the Electronic Bank Payments (EBP) SuiteApp are transferred to country-specific localization SuiteApps.
- The **From Localization SuiteApp** field in the Template File is marked during the installation of a localization SuiteApp. The installation marker confirms that the template is localized.

For information on the list of templates that have been transferred, refer to the SuiteAnswers article **Electronic Bank Payment Templates Ownership Transfer to the Localization SuiteApp**, SuiteAnswers ID 89384.

For more information on changes to the templates, see (will add the help topic link once ready) Electronic Bank Payments SuiteApp Templates Ownership Transfer to Localization SuiteApps.

Support for Processing Grouped Invoices

Electronic Bank Payments SuiteApp version 2020.1 now supports processing of grouped invoices from the Invoice Payment Processing page.

If the Invoice Groups feature is enabled in your account, a new Grouped To column is added to the Invoice Payment Processing page. This column displays the ID of the grouped invoices when they are retrieved. This feature supports full and partial amount of grouped invoices.

For more information on group invoicing, see (Help topic link) Grouping Multiple Invoices into Single Invoice.

Installment Payments Support for Accounts Receivables

Installment Payments feature is now supported for Account Receivables in Electronic Bank Payments SuiteApp version 2020.1. You can now pay your invoices in installments using Invoice Payment Processing.

If you enable the Installment feature in your account, a new column is added to display the Installment Reference Number on the Invoice Payment File when the installment bills are retrieved.

For more information on Installment Payments Support for Accounts Receivables, see the help topic Installment Payment Support.

Primary Bank Setup for One World Accounts with Multiple Subsidiaries

In Electronic Bank Payments SuiteApp version 2020.1, the following changes have been made to NetSuite OneWorld accounts with multiple subsidiaries.

- You can now assign a primary bank to each subsidiary for multi-subsidary customer and vendor accounts.
- The Entity Bank Details page is renamed to Bank Details.
- A new required multi-select field, **Subsidiary**, has been added to this page.

You can perform the following actions after this update.

- Use the **Subsidiary** field to assign one or more subsidiaries to a bank. This enables you to assign one primary bank to each subsidiary for accounts with multiple subsidiaries.

- Create multiple bank records per entity based on the account's base country of operation.
- Process transactions that belong to a different subsidiary. You can do this only if the transaction's company and entity bank templates match the subsidiary and the entity bank is set to primary.

For more information on primary bank setup for multiple subsidiary accounts, see (help link) [Primary Bank Setup for One World Accounts with Multiple Subsidiaries](#).

Positive Pay Processing using SuiteScript 2.0

As of 2020.1, all functions for Positive Pay processing using the Electronic Bank Payments SuiteApp will use SuiteScript 2.0. Positive Pay is now enhanced to support a maximum of 5,000 transactions.

For more information on Positive Pay Processing using SuiteScript 2.0, see (help topic link) [Positive Pay Processing using SuiteScript 2.0](#).

Grid Order Management Enhancements

Grid Order Management SuiteApp version 6.01.1 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 preferred grid template assignment.
- **Preferred Grid Template** – You can now set a preferred grid template for inventory matrix items. You can set a preferred grid template on the item record, through CSV Import, or when creating or editing matrix templates. Having a preferred grid template simplifies the process of assigning a grid template to inventory matrix items.
- **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](#).

Subscription Billing Bulk Operations

SuiteBilling Enhancements version 20.1 includes support for bulk operations. Bulk operations enables you to remove charge, usage, and change order records that are no longer needed in the system. You can also update specific fields on charge and change order records.

You can perform the following bulk operations using mass update:

- **Delete Records** – Delete or void erroneous, obsolete, or irrelevant charge, usage, and change order records in the system.
- **Set Charge Stage to Non-Billable** – Change the value of the **Stage** field on charge records to Non-Billable.
- **Update Change Order Effective Date** – Change the value of the **Effective Date** field on change order records.

This feature also includes the Bulk Operations Summary page, which can help you keep track of the mass update operations performed in the system. From this page, you can access the Bulk Operations Audit Trail record for each bulk operation run. On the audit trail record, you can view information about each run including job name, operation type, record type, number of records successfully processed, details of the records that were included in the mass update, and details about when the job was created and who performed the job.

For more information, see [Performing Bulk Operations Using Mass Update](#).

Subscription Billing Pricing Interval UI Enhancements

Subscription Billing Enhanced UI version 20.1 includes the following pricing interval UI enhancements on subscription plan and subscription records:

- **Pricing Information On View** – Pricing information and tiers are readily available on the pricing interval. Previously, detailed pricing information and tiers are available as collapsible sections on the pricing interval.
- **Edit, Make Copy, and Delete Actions for Pricing Interval** – Click the ellipsis icon on the top right corner of the pricing interval to show the possible actions for the pricing interval. Previously, these actions are available as individual icons on the pricing interval.
- **Click the Pricing Interval to Edit or View** – Click anywhere on the pricing interval to open it for editing (if the subscription line is included) or viewing (if the subscription line is not included).
- **Add Pricing Interval** – To add a pricing interval, click the plus (+) icon on the right side of the last pricing interval of the subscription line.
- **Scroll Bars to Extend View** – Use the vertical scroll bar on the pricing interval to see the other details that are not available in the current viewing area. Use the horizontal scroll bar at the bottom of the subscription line to view pricing intervals that extend to the next page of the screen.
- **Filter, Quick View, and Add Item** – These buttons are available on the top left corner of the Lines subtab. Previously, the filter and quick view icons are on the top right corner of the Lines subtab, and the **+Add-On** button is at the bottom of the subscription lines.

For more information, see the help topic [Subscription Billing Enhanced UI](#).

Inventory Management SuiteApps

Following are the 2020.1 inventory management enhancements to SuiteApps:

- [Quality Management – High Volume Sampling](#)
- [Shelf-to-Sheet Inventory Count](#)
- [Warranty and Repairs Management Enhancements](#)
- [Warehouse Management System Enhancements](#)

Quality Management – High Volume Sampling

NetSuite 2020.1 Quality Management SuiteApp enables you to work with larger volumes of raw data sets. As an administrator you are able to distinguish sample data from summary or aggregate data and control whether sample data should be recorded in NetSuite or stored externally.

The Quality Inspection tablet interface update accommodates reasonably sized raw data sets with improved usability.

Administration and Setup

NetSuite High Volume Sampling is automatically available when you upgrade to Quality Management 2020.1. NetSuite automatically migrates all existing inspections and related data to 2020.1.

Inspection records are now maintained through standard record forms. Record customizations are available during setup or inspection maintenance.

Inspection Record Changes

The latest version of the Quality Management SuiteApp includes the following changes to the Inspection record.

Inspection Sampling

The following fields are available under Inspection Sampling:

- **Sampling Requirement** – Select either **No Sampling Required** or **Simple Sampling**.
 - **Simple Sampling** – Select this option to display the Sampling Rate and Allowable Failures fields where you can define the inspection parameters.
 - **No Sampling Required** – Select this option to disable the inspection sampling fields.
- **Create Samples** – Check this box to prompt the system to prepare all data records to collect sample data using the table. Clear this box if you want to use only summary data.

Data Fields

On the **Data Fields** subtab of the inspection record, you can select the type of view in the **View** field:

- **Sample Summary** – Select this option to review or add to the list of summary data fields that provide a high-level or aggregated evaluation for the inspection. For example, the number of units of inspected and the number defects or failures. The **Summary Field** column identifies summary field.

EDIT	FIELD NAME	DATA TYPE	SEQUENCE	INSTRUCTIONS	SUMMARY FIELD
Edit	Samples Inspected	Integer	1	Enter Number Of Samples Inspected	Yes
Edit	Defect Count	Integer	2	Enter Number Of Defects	Yes

- **Inspection Data Fields** – Select this option to display detailed inspection data that can be captured for each sample. This data can be stored and aggregated to determine sample summary data but is not used in pass/fail inspection evaluations.

EDIT	FIELD NAME	DATA TYPE	SEQUENCE	INSTRUCTIONS	SUMMARY FIELD
Edit	Height	Decimal	10		No
Edit	Length1	Integer	4		No
Edit	Length2	Integer	5		No
Edit	Length3	Integer	6		No
Edit	Note	Text	12		No

NetSuite 2020.1 restricts this data to display numbers, text, and check boxes.

Inspection Data Fields

The Inspection Data Field form displays a new **Is Sample Summary Field** box.

The screenshot shows the 'Inspection Data Field' configuration form. At the top, there are buttons for 'Save', 'Cancel', 'Reset', 'Change ID', and 'Actions'. Below that, the 'Selected Inspection' is set to 'test inspection 1'. The main form has three input fields: 'SEQUENCE' with the value '10', 'DATA FIELD NAME' with the value 'Height', and 'DATA TYPE' with the value 'Decimal'. To the right of these fields is a checkbox labeled 'IS SAMPLE SUMMARY FIELD', which is highlighted with a red rectangular box.

Tablet Changes

The NetSuite 2020.1 Quality Management inspection tablet interface displays a new summary data presentation section.

The screenshot displays the tablet interface for an inspection. At the top, it shows 'test inspection 1' and a progress indicator '1/3' along with 'Pass: 0 Fail: 0'. Below this, it indicates 'Inspection # 1 of 3' and 'Lot number: Lot1'. The main section contains two input fields: 'Samples Inspected' and 'Defect Count', both with the placeholder text 'Enter integer value'. To the right of these fields is a 'Sample Data' icon, which is a grid symbol. Below the input fields are a 'Record' button and a help icon. At the bottom of the form is a 'Finish Inspection' button.

Summary data is displayed as data fields for non-sampling inspections. The layout is defined during inspection setup. This new feature enables you to enter data into fields to drive inspection pass/fail behavior. Sample data is only supporting data.

The **Sample Data** grid icon appears when sample data collection is enabled. Click the Sample Data icon to display the sample data grid.

The screenshot shows the 'Sample Data Grid' interface. At the top, there are input fields for 'Samples Inspected' and 'Defect Count', both labeled 'Enter integer value'. To the right is a 'Sample Data' icon (a grid). Below this is the 'Inspection Sample Data' section, which is a table with the following structure:

#	Length1	Length2	Length3	Height	Note
1	2 ✓	12 ✓	12	12 ✓	one ✓
2	2 ✓	12 ✓	10 ✓	12 ✓	one ✓

At the bottom of the grid is a 'Record' button and a help icon.

The Sample Data Grid displays the following:

- The column layout follows the customer-defined sequence assigned to data fields.

- Field focus auto advances after each entry, from left to right, top to bottom.
- Pre-defined row count matches the number of samples required. The maximum number of rows is 50.
- When scrolling through data, the headers remain visible.
- The system applies validation rules as data is entered into the system. Fields are then highlighted by customer defined pass or fail colors. For example, green for pass, red for fail.
- The grid support numbers, text, and Boolean data types.

Sample Data Recording

With the release of NetSuite 2020.1, all sample data is now stored in the new Quality Data Samples record. Quality Data Detail and Quality Data Sample records are now separate records. This enhancement helps you generate more focused summary or details reports.

Migration

Quality Management inspection data will be migrated to 2020.1 in three stages.

- Inspection definitions will be moved to new definitions:
 - For inspections requiring sampling, the Create Sample box is checked by default.
 - Current fields will be treated as inspection data fields.
 - Default summary fields will be created for inspected samples and defect counts.
- All active inspections will be migrated.
- Historical inspections will be migrated. Sample data will be moved to new records.

Shelf-to-Sheet Inventory Count

The new Shelf-to-Sheet Count SuiteApp implements the shelf-to-sheet inventory count, which is a manner of recording the quantity of kit items, assembly items, or inventory items according to how they are stored or organized in locations, storage areas, and shelves.

The Shelf-to-Sheet Count SuiteApp includes the following components and features:

- **Shelf-to-Sheet Template** - Using this custom record that comes with the SuiteApp, you can create and organize virtual representations of storage areas, shelves, and items at a specific store or branch location. You can group items to be stored in shelves, and then group shelves in storage areas, as they are organized in the real-world scenario. Only one template can be set up for a combination of subsidiary and location.
- **Shelf-to-Sheet Count record** - Using this custom transaction also included in the SuiteApp, you can start the count of the items specified in the Shelf-to-Sheet Template by entering their quantity on the record. You can then complete the count and the record goes through an approval stage. For every Shelf-to-Sheet Count record, the SuiteApp automatically creates a corresponding Inventory Count record where, after completing a count, the items and their quantity are also recorded.

The SuiteApp requires the following Add-On Modules that you can request your NetSuite Account Manager to enable:

- Advanced Financials
- Advanced Inventory
- Light Manufacturing

Note: The Shelf-to-Sheet Count SuiteApp works best with the SuiteSuccess Restaurants and Hospitality (R & H) edition of NetSuite. If you are interested in SuiteSuccess R & H edition, contact your NetSuite Account Manager to request for the edition to be provisioned to your account.

For more information, see the help topic Shelf-to-Sheet Count in the Help Center.

Warranty and Repairs Management Enhancements

Warranty and Repairs Management version 3.00.0 includes the following enhancements:

- **Support for Warranty Registration Through SuiteScript and Web Service** – You can now create warranty registration for invoice records processed through SuiteScript and web service. The same conditions apply for warranty to be registered for each item on the invoice:
 - Warranty tracking is enabled on the item record.
 - The item belongs to any of the supported types and there is available quantity on hand.
- **Support for Warranty Registration on Invoices Created or and Saved Through Bulk Process and Billing Schedules** – You can now create warranty registration through bulk processing of invoices using the Invoice Sales Order page, and through Billing Schedule processing. Warranty registration through these processes require enabling of the **Automatically Register Warranty on Invoice** preference.
- **Support for Customizing the Display of the Warranty Registration Subtab on the Invoice Record** – When creating an invoice, you can choose to show or hide the **Warranty Registration** subtab using the **Register Warranty** setting of line items.
- **Multi-Language Support** – The SuiteApp now supports the Multi-Language feature. You can set your preferred language on the **General** subtab of the Set Preferences page (Home > Set Preferences).

For more information, see the help topic Warranty and Repairs Management.

Localization SuiteApps

The following are 2020.1 localization enhancements to SuiteApps:

- Belgium Localization
- Contra Account Sheets (Beta)
- Country-Specific Reports (Beta)
- EMEA Localization
- France Localization
- Germany Central Bank Reports (Beta)
- Germany Localization (Beta)
- GL Matching
- Netherlands Localization
- New Simplified India GST Tax Return Reports
- Sweden Tax Reports
- United Kingdom Localization
- New Japan Trial Balance and Enhancements to Financial Statements
- Philippine Invoicing

Belgium Localization

The Belgium Localization SuiteApp delivers templates to generate the following Belgium-specific tax reports in English, French, and Dutch:

- Annual Client Listing Form 725
- EC Sales List
- Intrastat
- Belgium VAT Report: Return Form 625

Belgium Localization works with SuiteTax Reports by providing Belgium tax report templates that you can select from the list of country-specific templates on the Country Tax Reports page. Installing Belgium Localization requires EMEA Localization.

For more information, see the help topic Belgium Localization.

Contra Account Sheets (Beta)



Important: The Contra Account Sheets SuiteApp is currently only available in beta version. Its content is preliminary and may be significantly changed in the future. It is therefore strongly recommended to install this SuiteApp in a sandbox account. You should only install this SuiteApp to a production account after you are familiar with its individual features and overall performance. To get access to the Contra Account Sheets (Beta) SuiteApp, contact your professional services provider or your account administrator.

The Contra Account Sheets SuiteApp enables you to generate transaction records with contra account information. These records can be used by accountants for viewing the account balance or transactions. Records can be also filtered, for example, by customer, vendor, or employee. You can generate reports for various time periods and export them to PDF format.

Country-Specific Reports (Beta)



Important: The Country-Specific Reports SuiteApp is currently only available in beta version. Its content is preliminary and may be significantly changed in the future. It is therefore strongly recommended to install this SuiteApp in a sandbox account. You should only install this SuiteApp in a production account after you are familiar with its individual features and overall performance. To get access to the Country-Specific Reports (Beta) SuiteApp, contact your professional services provider or your account administrator.

The Country-Specific Reports SuiteApp enables administrators or NetSuite Professional Services teams to build customized financial, account balance based reports that meet country-specific requirements. You can then use this SuiteApp to view, filter out, and export these reports.


To build a new financial report, you must first create an initial HTML/XML report template (formatted table containing cells) and upload it to NetSuite. After uploading the template, use the Country-Specific Reports SuiteApp to set variables assigned to individual cells (as well as filters enabling you to arrange displayed data in different ways).

You can use your variables as text only, inserting them into your report as labels or captions. However, your variables can also be much more advanced, such as formulas. Values from various general ledger accounts are added or subtracted and the final count of each formula is displayed in the specified cell of the report.

You do not necessarily have to design new reports. Some reports are created by NetSuite developers and delivered through specific localization SuiteApps, such as Germany Localization. Localization SuiteApps developed by NetSuite work with the Country-Specific Reports SuiteApp by importing your data and delivering reports designed for the specific country. The predefined reports are not editable. However, you can use the Country-Specific Reports SuiteApp to create copies of the report and adjust them as needed.

EMEA Localization

The EMEA Localization SuiteApp provides custom lists and fields on transaction forms and item records to collect information. This information is used to generate EC Sales List, Intrastat, and VAT Reports for Germany and the United Kingdom. The SuiteTax Reports SuiteApp is required to use the tax-related features of EMEA Localization.

 **Note:** EMEA Localization is a prerequisite for the Germany Localization (Beta) and United Kingdom Localization SuiteApps. The collected information is used to deliver the country-specific tax reports.

For more information, see the help topic EMEA Localization.

France Localization

The France Localization SuiteApp provides features that address or comply with accounting and financial reporting requirements or standards specific to France.

The following features are available:

- **French Chart of Accounts or Plan Comptable** – A template that includes numerous common accounts is provided, giving companies in France the option to add subaccounts to the chart of accounts or to set up only the accounts they will use.
- **Customized Financial Reports** – The following standard NetSuite financial reports have been customized to comply with accounting laws in France:
 - France Account Detail
 - France General Ledger
 - France Income Statement
 - France Income Statement Detail
 - France Transaction Detail
 - France Trial Balance

The France Localization SuiteApp provides two versions of these reports: **validated** and **non-validated**. Validated reports display only transactions with a GL# assigned (which means that they are validated and aligned with the FEC).

- **Account number format validation** – For every account number, the validation is being performed to make sure that its format is compliant.
- **Memo field validation** – The Memo field is mandatory for every France subsidiary. If you try to save any transaction with this field left blank, an error is shown and you will not be allowed to proceed.
- **Open accounting periods check** – To comply with the accounting practice in France, you are not allowed to create a transaction and add it to a new accounting period (or year) if 24 accounting periods and 2 accounting years are already open. Also, to be fully compliant with French laws, French users are not allowed to have more than 23 accounting periods (months) within one accounting year.

For more information, see the help topic France Localization.

Germany Central Bank Reports (Beta)

Important: The Germany Central Bank Reports SuiteApp is currently only available in beta version. Its content is preliminary and may be significantly changed in the future. It is therefore strongly recommended to install this SuiteApp in a sandbox account. You should only install this SuiteApp to a production account after you are familiar with its individual features and overall performance. To get access to the Germany Central Bank Reports (Beta) SuiteApp, contact your professional services provider or your account administrator.

The Germany Central Bank Reports SuiteApp enables companies in Germany to track and report incoming and outgoing payments to fulfill the requirements of the Germany Central Bank.

Each month, German companies are required to report international payments for services of more than 12,500 EUR. For incoming payments, sums received from non-residents or from residents for the account of non-residents are reported. For outgoing payments, sums sent to non-residents or to residents for the account of non-residents are reported. The reporting documentation must be kept for at least three years to allow verification of compliance with the requirements.

The Germany Central Bank Reports SuiteApp enables you to generate these reports and to export them in different file formats. This SuiteApp also lets you specify an email address to which these reports are automatically sent for archiving purposes. Finally, it notifies users whenever any report is overdue.

Germany Localization (Beta)

Important: The Germany Localization SuiteApp is currently only available in beta version. Its content is preliminary and may be significantly changed in the future. It is therefore strongly recommended to install this SuiteApp in a sandbox account. You should only install this SuiteApp to a production account after you are familiar with its individual features and overall performance. To get access to the Germany Localization (Beta) SuiteApp, contact your professional services provider or your account administrator.

The Germany Localization SuiteApp provides features that comply with accounting and financial reporting requirements or standards specific to Germany. Two of the most important standards, the German SKR 03 and SKR 04 Chart of Accounts templates, are fully supported by the Germany Localization SuiteApp.

The templates provided include numerous common accounts, giving German companies the option to add subaccounts to existing charts of accounts or to set up only the accounts they will use.

The Germany Localization SuiteApp also supports several German financial statements. These statements are designed and created using the Country-Specific Reports SuiteApp. The Country-Specific Reports SuiteApp is developed by NetSuite and is a prerequisite for the Germany Localization SuiteApp.

Available statements are as follows:

- Balance Sheet mapped to SKR 03 Chart of Accounts
- Income Statement in total costs format mapped to SKR 03 Chart of Accounts
- Income Statement in the cost of sales format mapped to SKR 03 Chart of Accounts
- Balance Sheet mapped to SKR 04 Chart of Accounts
- Income Statement in total costs format mapped to SKR 04 Chart of Accounts
- Income Statement the cost of sales format mapped to SKR 04 Chart of Accounts
- SuSa Report (trial balance report for Germany)

These financial statements show aggregated data drawn from relevant accounts defined in the chart of accounts. To display them, go to Reports > Financial > Country-Specific Reports, select a report from the

dropdown list, and click the Show Report button. You can also use the same button to recalculate the balances in the financial statements to include the latest updates within a defined accounting period.

GL Matching

The GL Matching SuiteApp provides transaction matching capability to accommodate the accounting practice known as “Lettrage” in France or “account reconciliation” in other countries, especially in Europe.

GL Matching splits transactions from one account into smaller groups of transaction lines. These groups are then evaluated to ensure the sum of the credit entries is equal to the sum of the debit entries (so the total balance is zero). Every evaluated group is assigned a unique matching code and matching status, which are required in France. GL Matching supports the Multiple Currencies and Full Multi-Book Accounting features for NetSuite OneWorld accounts.

The SuiteApp delivers a GL Matching Dashboard where transaction lines can be searched and matched. Installing the GL Matching SuiteApp also adds a new GL Matching subtab to every supported non-custom transaction record. It contains GL Matching-related information about the selected transaction.

The following features are included in the GL Matching SuiteApp:

- **Large-group matching capability** – You can match a large group of more than 50 transaction lines through a backend asynchronous operation.
- **Matching In Progress and History subtabs** – In the dashboard, you can check the status of the SuiteApp process and review the last 100 actions done.
- **Access to summary of results** – You can get and create a summary of the GL Matching results using a saved search.
- **Inconsistency checker** – It is a fail-safe system to check and notify you if a group of transaction lines is found to be associated with multiple accounts, subsidiaries, or both.

For more information, see the help topic GL Matching.

Netherlands Localization


The Netherlands Localization SuiteApp delivers templates to generate the following Netherlands-specific tax reports:

- EU Sales List
- Intrastat
- Periodic VAT return OB 69

Netherlands Localization works with SuiteTax Reports by providing Netherlands tax report templates that you can select from the list of country-specific templates on the Country Tax Reports page. Installing Netherlands Localization requires EMEA Localization.

For more information, see the help topic Netherlands Localization.

New Simplified India GST Tax Return Reports

 **Note:** This feature requires the India Localization SuiteTax Engine (Bundle ID 253246) and SuiteTax Reports (Bundle ID 237699) SuiteApps installed. For more information, see the help topic Installing India Localization SuiteTax Reports.

In compliance with the new India GST Simplified Return Filing system, the India Localization SuiteTax Reports version 2.00.0 added the following India GST simplified tax reports:

- GST ANX-1 3A B2C
- GST ANX-1 3B B2B
- GST ANX-1 3C & 3D EXP
- GST ANX-1 3E & 3F
- GST ANX-1 3H RCM
- GST ANX-1 3I IMP
- GST ANX-1 3J
- GST ANX-1 3K IMPG SEZ

The new India GST tax reports serve as a template for the GST ANX-1 section of the main GST RET-1 simplified GST tax return form. These reports can be viewed, edited, and exported through the Country Tax Reports generation page. For more information, see the help topic India Goods and Services Tax (GST) Reporting.

Sweden Tax Reports

The Sweden Tax Reports SuiteApp delivers templates to generate the following Sweden-specific tax reports:

- EU Sales List
- Intrastat
- Periodic VAT return Form 4700

Sweden Tax Reports works with SuiteTax Reports by providing Sweden tax report templates that you can select from the list of country-specific templates on the Country Tax Reports page. Installing Sweden Tax Reports requires EMEA Localization.

For more information, see the help topic Sweden Tax Reports SuiteApp.

United Kingdom Localization

The United Kingdom Localization SuiteApp delivers templates to generate the following UK tax reports:

- UK VAT100
- EC Sales List
- Intrastat

United Kingdom Localization works with SuiteTax Reports by providing UK tax report templates that you can select from the list of country-specific templates on the Country Tax Reports page. Installing United Kingdom Localization requires EMEA Localization.

For more information, see the help topic United Kingdom Localization.

New Japan Trial Balance and Enhancements to Financial Statements

Japan Financial Statements SuiteApp version 2.0 includes the following enhancements:

- [New Japanese Trial Balance](#)

- [Support for Accounting Context in Japan Financial Statements](#)
- [Classification Fields in Japan Financial Statements](#)

New Japanese Trial Balance

The Japanese Trial Balance is available from Reports > Financial > Japanese Trial Balance (New). This report shows active account balances in credit and debit columns, for a specific period. You can run this report before preparing actual financial statements to ensure that debits and credits balance out. For more information, see the help topic Japanese Trial Balance (New).

Support for Accounting Context in Japan Financial Statements

If you select an accounting context from Home > Set Preferences, then the Japan Balance Sheet, Income Statement, and Trial Balance can reference and apply it when generating reports. For more information, see the help topic Support for Accounting Context.

Classification Fields in Japan Financial Statements

All Japan financial statements now have Department, Class, and Location fields that you can specify as parameters in generating any of the reports.

Philippine Invoicing

The Southeast Asia Localization SuiteApp version 3.00 includes the following features that support Philippine invoicing:

- [Philippine Invoicing Templates](#)
- [Document Numbering](#)
- [Inclusive Serial Number and PTU Number](#)

Philippine Invoicing Templates

The SuiteApp comes with localized and customizable templates for Philippine invoicing. Using the templates, Philippine VAT-registered persons or businesses can generate and print VAT invoice or VAT official receipt in PDF or HTML, which are pre-formatted to comply with BIR requirements. Philippine invoicing templates only work with or must be used on the following document types:

- Sales Invoice
- Billing Statement
- Collection Receipt
- Official Receipt
- Credit Memo

You must map these document type templates to corresponding transaction forms. When you print those transactions, the output will be pre-formatted based on the template used.

The templates support system-generated documents for users or businesses with Computerized Accounting System (CAS). You can also print pre-formatted forms for non-CAS users or businesses with loose-leaf books of accounts.

For more information, see the help topics Philippine Invoicing and Philippine Transaction Form Mapping.

Document Numbering

The Philippine Document Numbering feature automatically generates and assigns a document number to supported document types, which can help further identify transactions. To enable this feature, go to Setup > Company > Auto-Generated Numbers and check the Allow Override box of the document type that you want to have numbering. Then, set up document numbering on Philippine subsidiary records and on the Philippine Document Numbering page. In the set up, you can customize document numbering by:

- Adding a prefix or suffix to the document number
- Setting an initial number greater than the default minimum of 100,000
- Setting the number of digits greater than the default minimum of 6

For more information, see the help topic Philippine Document Numbering Setup.

Inclusive Serial Number and PTU Number

You can set up and include the serial number or PTU (Permit To Use) information, issued by the BIR, to your VAT invoice or VAT official receipt to be generated by the invoicing templates. The serial number or PTU information can be included on transactions according to subsidiary or location, depending on which classification engages with your customers and is authorized to issue invoices or receipts for your company.

For more information, see the help topic Philippine Inclusive Serial Number and PTU Information Setup.

Manufacturing SuiteApps

Following is the 2020.1 manufacturing enhancement to SuiteApps:

Manufacturing Mobile

The introduction of the NetSuite 2020.1 Manufacturing Mobile SuiteApp enables you to use mobile scanners to report manufacturing shop floor data. This solution compliments the existing Advanced Manufacturing scanner to provide improved performance, scalability, customization support, and streamlined production activities.

The new scanner solution is not dependent on the Advanced Manufacturing SuiteApp, so you do not have to purchase an Advanced Manufacturing license. The manufacturing mobile solution is built using the same mobile technology as NetSuite WMS. Both the WMS and Manufacturing mobile features can coexist in one scanner solution.

This initial release of the Manufacturing Mobile SuiteApp enables shop floor operators to use components to produce assembly items. Operators can start and end assigned work and report production quantity and consumed component quantity for a date and a shift. Production Managers can review data entered by production operators and control inventory and financial record updates in NetSuite. They can also respond to inaccurate data or errors to initiate processes to correct discrepancies and reprocess data.

This release of the Manufacturing Mobile SuiteApp only supports non-WIP work orders. It also supports Uncontrolled and Lot Controlled Items but does not support Serial Number Controlled Items.

To reduce operator error and fatigue, Manufacturing Mobile scanners are used on the shop floor to collect only relevant, commonly available information. Operators can focus on reporting only what happened on the shop floor. For example, system reports can show that no material is staged in the bin. However, the operator reported that they consumed material from the bin and completed the production transaction. When the operator ends their work, the NetSuite Manufacturing Mobile SuiteApp checks for

any inconsistencies at the end of the process. This ensures that inventory and financial records are not updated with inconsistent data.

Administration

To access the Manufacturing Mobile SuiteApp, install the Manufacturing Mobile bundle and the latest SCM Mobile bundle. To access the Advanced Manufacturing SuiteApp, install the Advanced Manufacturing bundle.

NetSuite Administrators will need to enable the following NetSuite features: Locations, Bins, Work Centers, and [Work Orders](#):

- **Work Centers** — The Manufacturing Mobile SuiteApp leverages standard NetSuite Work Center definitions for non-WIP Work Orders.
- **Bins** — All consumed quantity is assigned to a staging bin and produced quantities are assigned to production bins
- **Locations** — A work center is associated to a location. A location represents an organization's warehouse or production facility.

Setting Work Order Context

Establishing a time bound work effort helps operators and managers to distinguish shop floor data and scope financial and inventory transactions. Multiple operators can work on one work order at the same time. Managers can then use the application to identify what each employee produced and consumed for that work order.

The Manufacturing Mobile SuiteApp enables shop floor operators to choose to tap the **Start Work** button to initiate work on the selected work order.



Tapping **Resume Work** enables operators to resume uncompleted work where they left off. For example, the shift ended before the work was completed. When the next shift resumes, the operator taps **Resume Work** and picks up the job where they previously left it.

After work is started, the **Report Work** screen (see [Reporting Work Order Context](#)) displays the work order number, assembly number, and the employee who started the work.



Reporting Work Order Context

The Manufacturing Mobile SuiteApp enables you to separate shop floor activities and reporting from transaction processing. The Consumption and Production options can be selected independently. You can also partially report production and consumption.

After completing your assigned work, go to the **Report Work** screen to formally end your work in the Manufacturing Mobile SuiteApp.



Inventory and Financial Records

After work has ended, NetSuite automatically transacts and updates all reported production and consumption data.

- **Adhoc Builds** — NetSuite 2020.1 supports expedited updates to inventory and costing anytime before the work order ends. Production managers can use a NetSuite custom forms to initiate an Adhoc Build. They cannot do this in the scanner. For example, a customer agreement may require you to ship products as soon they are finished. Work order production continues as products are shipped.
- **Real-Time Builds** — Real-time builds to inventory and costing can be triggered to run automatically from the work order interface.
- **Backflush Component Quantity During Build** — Component quantities can be back flushed based on the production quantity. This functionality can be set in the work order interface.
- **Validate Data, Review Exceptions, and Correct Data** — The 2020.1 Manufacturing Mobile SuiteApp does not allow data to be corrected from the scanner interface.

Only the Production Manager can correct data recorded in the Manufacturing Mobile SuiteApp. The manager uses a NetSuite custom form to validate data to ensure the data is consistent in both NetSuite and the scanner. They will then review the data for any exceptions and potential build errors.

After a data error is identified, the manager can correct the data, revalidate the data, and then trigger the build process.

Projects SuiteApps

Following is the 2020.1 projects enhancement to SuiteApps:

Preferred First Day of a Week Available for RACG Calendar

In NetSuite 2020.1, the Resource Allocation Chart/Grid calendar now respects the First Day of a Week preference by default.

For more information, see the help topic Resource Allocation Chart/Grid SuiteApp.

Non-Profit SuiteApps

Following are the 2020.1 non-profit enhancements to SuiteApps:

- [Social Impact Standard Edition](#)
- [Non-Profit Financials](#)

Social Impact Standard Edition

The Social Impact Standard Edition is the advanced version of Non-profit Social Impact releases. It provides additional roles and the ability to track relations between two constituents and manage households.

In addition to the CEO, CFO, and Grant Administrator roles, the Social Impact Standard Edition contains following new roles:

- Controller
- Program Manager
- A/P Clerk
- A/R Clerk

The Constituent Management feature of Social Impact Standard edition consists of the following:

- **Constituent relationships** - You can create and track relationships between different constituents.
- **Households** - The Households feature provides the ability to aggregate the information of all the constituents of a family.

For more information, see the help topic Social Impact Standard Edition.

Non-Profit Financials

The following Financial Accounting Standards Board (FASB) Reports which are developed from Financial Statement Builder are now moved to a separate SuiteApp called NFP Reports:

- Statement of Activity
- Statement of Cashflow
- Statement of Financial Position
- Statement of Functional Expenses
- Grant Statement of Activity

Following are the details of the NFP Reports SuiteApp:

- Bundle Name: NFP Reports
- Bundle ID: 301502

For more information, see the help topic Non-Profit Financial Management

Food and Beverage SuiteApps

Following is the 2020.1 food and beverages enhancement to SuiteApps:

- [Auto Close Back Orders](#)
- [Route Delivery](#)

Auto Close Back Orders

If a line item on a sales order is partially fulfilled, the remaining quantity is saved as back order. However, in many organizations, such back order quantities are not fulfilled, and the sales order is closed. The Auto Close Back Orders SuiteApp enables you to close such partially fulfilled back orders automatically, post billing. The SuiteApp also enables you to maintain a list of items to exclude from automatic closure of back orders.

Following are the bundle details:

- Bundle Name: Auto Close Back Orders
- Bundle ID: 300047
- Version number: 1.00.0
- Availability: Public

For more details, see the help topic [Auto Close Back Orders](#)

Route Delivery

Using the Route Delivery SuiteApp, you can create delivery truck and route records and include the route and truck details to the sales orders. The SuiteApp also determines the earliest possible ship date and route for specified location and shipping address.

Following are the bundle details:

- Bundle Name: Route Delivery
- Bundle ID: 290640
- Version number: 1.00.0
- Availability: Public

Route Delivery is a managed SuiteApp that is automatically updated whenever enhancements or new features are added.

For more details, see the help topic [Route Delivery](#).

Taxation SuiteApps

Following are the 2020.1 taxation enhancements to SuiteApps:

- [Portugal Tax Audit Files Field Mapping Page Update](#)
- [Philippines Certificate of Creditable Tax Withheld at Source \(Form 2307\) Update](#)
- [Cyprus VAT Return Enhancement](#)
- [Singapore Goods and Services \(GST\) F5 Return Update](#)
- [Germany VAT Return Update](#)
- [Tax Reporting Category for Country Tax Reports](#)
- [Tax Reporting Category Support for Australia and Philippines Tax Reports](#)

- SuiteTax Support for Tax Groups
- SuiteTax Reports Enhancements
 - Tax Point Date Support for SuiteTax Reports
 - JAPAC Support for SuiteTax Reports
 - EMEA Tax Audit Files Support for SuiteTax Reports

Portugal Tax Audit Files Field Mapping Page Update

In Tax Audit Files SuiteApp version 1.76.0, the Audit Files Field Mapping page for PT SAF-T Account Grouping category is updated with the following added filters:

- Account Type
- Subsidiary

You can map Account instead of Account Type to the Grouping Category list available on the Value column of the Mapping page. Summary Accounts that have sub-accounts can now be mapped with different Grouping Category values.

After updating your account to Tax Audit Files SuiteApp version 1.76.0, the previous Grouping Category values mapped to the Account Type will be retained and applied to all Accounts under that Account Type.

To learn more, see the help topic Mapping Standard NetSuite fields to SAF-T PT Required Categories.

Philippines Certificate of Creditable Tax Withheld at Source (Form 2307) Update

Withholding Tax SuiteApp version 1.44.0 includes enhancements for the Philippine Bureau of Internal Revenue (BIR) Form No. 2307 as part of the implementation of the Tax Reform for Acceleration and Inclusion (TRAIN) Law.

Withholding Tax Reports 1.44.0 includes the following enhancements:

Previous 2307 Form	Updated 2307 Form
<p>Report footer declaration:</p> <p>We declare, under the penalties of perjury, that this certificate is made in good faith, verified by me, and to the best of my knowledge and belief, is true and correct, pursuant to the provisions of the National Internal Revenue Code, as amended, and the regulations issued under authority thereof.</p>	<p>Updated to:</p> <p>We declare under the penalties of perjury that this certificate has been made in good faith, verified by us, and to the best of our knowledge and belief, is true and correct, pursuant to the provisions of the National Internal Revenue Code, as amended, and the regulations issued under authority thereof. Further, we give our consent to the processing of our information as contemplated under the *Data Privacy Act of 2012 (R.A. No. 10173) for legitimate and lawful purposes.</p>

The updated BIR Form 2307 also includes additional manual input fields to show the Signatory Details in the PDF format of the form:

- Payor/Authorized Representative/Tax Agent
- Tax Agent Accreditation No./Attorney's Roll No.
- Payee/Authorized Representative/Tax Agent
- Tax Agent Accreditation No./Attorney's Roll No.

To learn more, see the help topic Setting Up Tax Groups in SuiteTax Engine.

Cyprus VAT Return Enhancement

International Tax Reports version 3.112.0 includes enhancements for the latest VAT return for Cyprus. The update includes automatic provisioning of the following tax reduced rates tax codes for newly-created Cyprus subsidiaries.

- R1-CY – Reduced Rate, Rate of 9%, Available on both Sales and Purchases
- 2-CY – Special Reduced Rate, Rate of 5%, Available on both Sales and Purchases

The update also reflects the correct reporting of the Cyprus tax codes:

Box	Reported Tax Codes
1	Tax amount of sales S, R1, R2 Notional tax amount of purchases RC, IS
4	Tax amount of purchases S, R1, R2 Notional tax amount of purchases ES, RC, IS, ESSP, ESSS
6	Net amount of sales S, R1, R2, E,O, Z, ES, ESSS, EZ, RC Net amount of purchases IS, ESSP
7	Net amount of purchases S, R1, R2, E, Z, I, IS, ES, ESSS, EZ, ESSP, RC
9	Net amount of sales Z, O

To learn more, see the help topic [Cyprus Tax Codes](#) [Cyprus Tax Codes](#) and [Cyprus VAT Report](#) under [Cyprus Help Topics](#).

Singapore Goods and Services (GST) F5 Return Update

International Tax Reports version 3.112.0 is updated to support Singapore's implementation of reverse charge on imported services and taxing B2C digital services (overseas vendor registration regime).

Effective January 1, 2020, Singapore will implement Goods and Services Tax (GST) on the following imported services:

- Reverse Charge (RC) mechanism to tax services imported by GST-registered persons (B2B)
- Overseas Vendor Registration (OVR) regime to tax digital services imported by non-GST persons including private individuals

The SRRC-SG and SROVR-SG tax codes are reported in the following boxes of the GST F5 return:

Box Number	Label/Description	Reported Tax Codes
1	Total value of standard-rated supplies	Net amount SROVR-SG, SRRC-SG
5	Total value of taxable purchases	Net amount purchase SRRC-SG
6	Output tax due	Tax amount SROVR-SG, notional tax amount SRRC-SG
7	Input tax and refunds claimed	Notional tax amount SRRC-SG

The GST F5 return update supports the new boxes related to the new tax codes:

- Box 14: Did you import services subject to GST under Reverse Charge?

- **Box 15:** Did you operate an electronic marketplace to supply digital services subject to GST on behalf of third-party suppliers?

To learn more, see the help topic [Singapore GST Report](#).

Germany VAT Return Update

International Tax Reports version 3.112.0 is updated to enhance the XML version of the Germany Monthly/Quarterly and Annual VAT returns.

The update for the XML version is necessary to align it with the new FormularDepotXI version 15, which will enable users to continue submitting their VAT returns online.

To learn more, see the help topic [Submission of VAT Returns in Germany](#).

Tax Reporting Category for Country Tax Reports

SuiteTax Reports version 2.00.2 introduces the Tax Reporting Category feature which enables you to further classify transactions for VAT reporting requirements. On the Item subtab of transaction records, you can assign a category according to your local VAT reporting guidelines in the Tax Reporting Category column.

The Tax Reporting Category varies per country and therefore requires support from the regional or country-specific localization SuiteApp. For more information about Tax Reporting Category and to see the list of countries that support this feature, see the help topic [Assigning a Tax Reporting Category](#).

Tax Reporting Category Support for Australia and Philippines Tax Reports

SuiteTax Country Tax Reports JAPAC version 1.00.1 supports the Tax Reporting Category feature for Australia and Philippines. You can now segregate purchases of capital goods from other transactions and report it separately in the tax report by selecting the following categories in the Tax Reporting Category column:

- **AU – Capital Goods** - category for reporting capital purchases in Australia
- **PH - Capital Goods** – category for reporting purchases of capital goods in the Philippines

To learn more about assigning a tax reporting category to your transactions, see the help topic [Assigning a Tax Reporting Category](#).

The tax return templates for Australia and Philippines are also updated with the preselected Tax Reporting Category filters. For more information about using the Tax Reporting Category as a tax return filter, see the help topic [Customizing Localized Tax Returns](#).

SuiteTax Support for Tax Groups

In SuiteTax Engine version 2.00.1, you can now create tax groups. A tax group enables you to combine and use several tax codes as a single tax code on the tax schedule. The tax group is used either as an entity default tax code or a nexus default tax code.

Tax groups are beneficial when you need to apply multiple tax codes. For example, you can combine GST and PST rates for relevant provinces in Canada.

The tax records permission is required to create tax groups.

For further information, see the help topic [Setting Up Tax Groups in SuiteTax Engine](#).

SuiteTax Reports Enhancements

SuiteTax Reports SuiteApp version 2.00.0 includes the following enhancements:

- [Tax Point Date Support for SuiteTax Reports](#)
- JAPAC Support for SuiteTax Reports
- EMEA Tax Audit Files Support for SuiteTax Reports

Tax Point Date Support for SuiteTax Reports

SuiteTax Reports version 2.00.0 now supports generation of country tax reports using tax point dates. The tax point date (time of supply) is the date when VAT becomes due. For more information about tax point dates in SuiteTax, see the help topic [Tax Point Dates](#).

When you generate a country tax report, you can now choose a tax point start and end date on the period filters. To learn more about generating a tax report using the tax point date, see the help topic [Generating Localized Country Tax Reports](#).

The Use Tax Point Date feature is automatically enabled for VAT/GST returns, supplementary VAT/GST reports, and EU cross-border reports. To set up this feature, see the help topic [Setting Up Country Tax Reporting Preferences](#).

JAPAC Support for SuiteTax Reports

The SuiteTax Country Tax Reports JAPAC SuiteApp provides the JAPAC tax report templates and localization for SuiteTax Reports version 2.00.0. If you have SuiteTax Reports and you install SuiteTax Country Tax Reports JAPAC in your account, you can generate localized tax reports for Australia, Japan, New Zealand, Philippines, and Singapore. For more information, see the help topic [SuiteTax Country Tax Reports JAPAC](#).

EMEA Tax Audit Files Support for SuiteTax Reports

The SuiteTax EMEA Audit Files SuiteApp provides the France and Germany tax audit file support for SuiteTax Reports version 2.00.0. If you have SuiteTax Reports and you install SuiteTax EMEA Tax Audit Files in your account, you can generate the France FEC and Germany GoBD reports. For more information, see the help topic [SuiteTax EMEA Audit Files](#).