SuiteCloud Platform Introduction
should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described in this document remains at the sole discretion of Oracle.

This document in any form, software or printed matter, contains proprietary information that is the exclusive property of Oracle. Your access to and use of this confidential material is subject to the terms and conditions of your Oracle Master Agreement, Oracle License and Services Agreement, Oracle PartnerNetwork Agreement, Oracle distribution agreement, or other license agreement which has been executed by you and Oracle and with which you agree to comply. This document and information contained herein may not be disclosed, copied, reproduced, or distributed to anyone outside Oracle without prior written consent of Oracle. This document is not part of your license agreement nor can it be incorporated into any contractual agreement with Oracle or its subsidiaries or affiliates.

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Sample Code

Oracle may provide sample code in SuiteAnswers, the Help Center, User Guides, or elsewhere through help links. All such sample code is provided "as is" and "as available", for use only with an authorized NetSuite Service account, and is made available as a SuiteCloud Technology subject to the SuiteCloud Terms of Service at www.netsuite.com/tos.

Oracle may modify or remove sample code at any time without notice.

No Excessive Use of the Service

As the Service is a multi-tenant service offering on shared databases, Customer may not use the Service in excess of limits or thresholds that Oracle considers commercially reasonable for the Service. If Oracle reasonably concludes that a Customer's use is excessive and/or will cause immediate or ongoing performance issues for one or more of Oracle's other customers, Oracle may slow down or throttle Customer's excess use until such time that Customer's use stays within reasonable limits. If Customer's particular usage pattern requires a higher limit or threshold, then the Customer should procure a subscription to the Service that accommodates a higher limit and/or threshold that more effectively aligns with the Customer's actual usage pattern.

Beta Features

Oracle may make available to Customer certain features that are labeled “beta” that are not yet generally available. To use such features, Customer acknowledges and agrees that such beta features are subject to the terms and conditions accepted by Customer upon activation of the feature, or in the absence of such terms, subject to the limitations for the feature described in the User Guide and as follows: The beta feature is a prototype or beta version only and is not error or bug free and Customer agrees that it will use the beta feature carefully and will not use it in any way which might result in any loss, corruption or unauthorized access of or to its or any third party's property or information. Customer must promptly report to Oracle any defects, errors or other problems in beta features to support@netsuite.com or other designated contact for the specific beta feature. Oracle cannot guarantee the continued availability of such beta features and may substantially modify or cease providing such beta features without entitling Customer to any refund, credit, or other compensation. Oracle makes no representations or warranties regarding functionality or use of beta features and Oracle shall have no liability for any lost data, incomplete data, re-run time, inaccurate input, work delay, lost profits or adverse effect on the performance of the Service resulting from the use of beta features. Oracle's standard service levels, warranties and related commitments regarding the Service shall not apply to beta features and they may not be fully supported by Oracle's customer support. These limitations and exclusions shall apply until the date that Oracle at its sole option makes a beta feature generally available to its customers and partners as part of the Service without a “beta” label.
Send Us Your Feedback

We'd like to hear your feedback on this document.

Answering the following questions will help us improve our help content:

- Did you find the information you needed? If not, what was missing?
- Did you find any errors?
- Is the information clear?
- Are the examples correct?
- Do you need more examples?
- What did you like most about this document?

Click [here](#) to send us your comments. If possible, please provide a page number or section title to identify the content you're describing.

To report software issues, contact NetSuite Customer Support.
# Table of Contents

SuiteCloud Platform Customization .................................................................................................................. 1  
Customization Tools ............................................................................................................................... 3  
Custom Coding ........................................................................................................................................... 3  
Point-and-Click Customization .................................................................................................................. 4  
Business Intelligence ..................................................................................................................................... 5  
Access Control ............................................................................................................................................... 7  
Distribution .................................................................................................................................................... 7  
Integrations ..................................................................................................................................................... 7  
Execution Contexts ......................................................................................................................................... 11  
  Execution Context Types ............................................................................................................................ 13  
  Execution Contexts in System Notes .......................................................................................................... 16  
SuiteCloud Records Reference Tools ........................................................................................................... 17  
  The SuiteScript Records Browser .............................................................................................................. 17  
  The SuiteAnalytics Connect Browser ........................................................................................................ 18  
  The SuiteTalk SOAP Schema Browser ....................................................................................................... 18  
  The REST API Browser ............................................................................................................................... 18  
  The SDF XML Reference ............................................................................................................................ 19  
SuiteCloud Platform Glossary ..................................................................................................................... 20
SuiteCloud Platform Customization

The SuiteCloud platform supports a number of tools you can use to adapt NetSuite for your organization and to create customization packages that can be distributed to others. You can complete the following tasks with the SuiteCloud Platform:

- Customize the NetSuite UI and business logic through scripting or through point-and-click options in the UI
- Find information in NetSuite
- Create custom roles to ensure users access only the tasks and pages needed for their jobs.
- Share your customizations with other accounts
- Integrate information from other systems into your NetSuite accounts.

The following graphic shows the SuiteCloud platform tools that can be used to create customizations.

In addition, the following references are available:

- A browser tool is available that contains the metadata related to the records, fields, sublists, search joins, and other data available through SuiteScript, the SuiteAnalytics Connect Service, and SOAP web services.
- The SuiteCloud Development Framework (SDF) XML reference also provides information about record-related metadata. For more information, see SuiteCloud Records Reference Tools.
- The REST API Browser contains a list of records accessible through REST web services. For more information, see the help topic The REST API Browser.

To see sample customizations created with SuiteCloud platform tools to get ideas of how to use the various tools, see the help topic Sample SuiteCloud Platform Customization Projects Overview
<table>
<thead>
<tr>
<th>Introductory Topics</th>
<th>Overview Topics</th>
<th>Setup Topics</th>
<th>Quick Start/Tutorial Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom Coding</td>
<td>What You Can Do with the SuiteScript API</td>
<td>Configuring NetSuite for SuiteScript</td>
<td>SuiteScript 2.0 Hello World</td>
</tr>
<tr>
<td></td>
<td>SuiteCloud Development Framework Overview</td>
<td></td>
<td>SuiteCloud Development Framework Tutorial</td>
</tr>
<tr>
<td>Point-and-Click Customization</td>
<td>SuiteBuilder Overview</td>
<td>Custom Forms</td>
<td>Creating Custom Record Types</td>
</tr>
<tr>
<td></td>
<td>SuiteFlow Overview</td>
<td>Working with Workflows</td>
<td>Creating Your First Workflow</td>
</tr>
<tr>
<td></td>
<td>Copy to Account Overview</td>
<td>Setting Up Copy to Account</td>
<td>Using Copy to Account</td>
</tr>
<tr>
<td>Business Intelligence</td>
<td>SuiteAnalytics Workbook Overview</td>
<td>Analytics Home Page</td>
<td>SuiteAnalytics Workbook Tutorial</td>
</tr>
<tr>
<td></td>
<td>Search Overview</td>
<td>Running Searches</td>
<td>Saved Search Examples</td>
</tr>
<tr>
<td></td>
<td>Reporting Overview</td>
<td>Working with Report Results</td>
<td>Report Customization</td>
</tr>
<tr>
<td></td>
<td>Dashboards Overview</td>
<td>Setting Up Dashboard Portlet Content</td>
<td>Dashboard Personalization</td>
</tr>
<tr>
<td>Access Control</td>
<td>NetSuite Access Overview</td>
<td>Customizing or Creating NetSuite Roles</td>
<td>NetSuite Account Access</td>
</tr>
<tr>
<td></td>
<td>NetSuite Roles Overview</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NetSuite Users Overview</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distribution</td>
<td>SuiteBundler Overview</td>
<td>SuiteApp Creation and Distribution</td>
<td>Creating a Bundle with the Bundle Builder</td>
</tr>
<tr>
<td>Integrations</td>
<td>SuiteTalk SOAP Web Services Platform Overview</td>
<td>SOAP Web Services Setup</td>
<td>SOAP Web Services Quick Start</td>
</tr>
<tr>
<td></td>
<td>CSV Imports Overview</td>
<td>Guidelines for CSV Import Files</td>
<td>Importing CSV Files with the Import Assistant</td>
</tr>
<tr>
<td></td>
<td>SuiteTalk REST Web Services Overview and Setup</td>
<td>REST Web Services Prerequisites and Setup</td>
<td></td>
</tr>
</tbody>
</table>

SAFE Guide

The SuiteApp Architectural Fundamentals & Examples Guide (often referred to as SAFE) is provided for ISVs (independent software vendors) who want to leverage the NetSuite platform and NetSuite's development tools to build custom SuiteApp solutions for deployment into customer accounts. This guide provides recommended practices for NetSuite customizations. This guide is available to members of the SuiteCloud Developer Network (SDN). Some of this guide's content also is available in SuiteAnswers article 46388, SuiteApp Architectural Fundamentals & Examples (SAFE).
Customization Tools

To develop your SuiteCloud Development Framework (SDF) projects, you can use SuiteCloud Software Development Kit (SuiteCloud SDK). SuiteCloud SDK include the following tools:

- SuiteCloud IDE plug-in (Integrated Development Environment) — provides code completion for SuiteScript and custom object XML definitions used in SuiteCloud projects. You can upload files to NetSuite, download files from the NetSuite File Cabinet, validate internal IDs, and manage custom object deployment to multiple NetSuite accounts. Currently, NetSuite has SuiteCloud IDE plug-ins for both Eclipse and Webstorm.
- SuiteCloud Command Line Interface (CLI) — for advanced users familiar with IDE plug-in to use with your own IDE.

For more information, see the help topic Getting Started with SuiteCloud SDK.

Custom Coding

Customize the NetSuite UI and business logic through scripting.

SuiteScript

You can use NetSuite's scripting language, SuiteScript, to extend and customize, search, and process your NetSuite data. SuiteScript enables full-featured application-level scripting capabilities that support sophisticated procedural logic on both the client and server sides, as well as robust debugging.

The latest version, SuiteScript 2.0, extends the capabilities provided by the initial SuiteScript 1.0 version, with an API architecture familiar to JavaScript developers. SuiteScript 2.0's modularity supports encapsulation, provides intuitive code organization, and ensures there are no global variable or method naming conflicts. Automatic dependency management enables you to concentrate on logic instead of dependencies and load order. SuiteScript 2.0 is designed to support all standard JavaScript as defined in the ECMAScript 5 (ES5) edition of the ECMAScript specification. The supplied SuiteScript 2.0 APIs give you programmatic access to NetSuite functionality. For generic logic, you can use custom modules to load your preferred third party JavaScript APIs.

SuiteScript 2.0 API enhances the APIs supported by the previous SuiteScript version with APIs for SFTP file transfer, data caching, search pagination, flat file streaming, and enhanced encryption, decryption, and hashing. SuiteScript 2.0 also provides asynchronous client-side processing through promises, map/reduce scripts that provide a structured framework for server-side scripts processing a large number of records, and support for all HTTP content types.

To get started with SuiteScript, see the help topic SuiteScript 2.0 API Introduction. For details about supported script types, see the help topic SuiteScript 2.0 Script Types. For SuiteScript 2.0 API reference documentation, see the help topic SuiteScript 2.0 Modules.

View the SuiteScript Help Overview video.

Note: You can't access all NetSuite fields and records using SuiteScript. The SuiteScript Records Browser provides a summary of all records, fields, sublists, search joins, search filters, search columns, and record transformations that are supported in SuiteScript. For information, see Using the SuiteScript Records Browser.

SuiteScript 2.1

A new version of SuiteScript is available. This new version, SuiteScript 2.1, is based on the ECMAScript 2018 (ES2018) edition of the ECMAScript specification. It includes new language capabilities and
functionality, and it supports all server 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.

This latest version of SuiteScript is separate from previous SuiteScript versions (1.0 and 2.0), and you can create and run SuiteScript 2.1 scripts alongside SuiteScript 1.0 and 2.0 scripts in your account. Your existing scripts are not affected. You can use the `@NApiVersion` JSDoc tag and a value of 2.1 to specify that your script uses SuiteScript 2.1.

To learn more about SuiteScript 2.1, see the help topic SuiteScript 2.1.

**SuiteCloud Development Framework**

SuiteCloud Development Framework (SDF) is a development framework that can customize your NetSuite account from an integrated development environment (IDE) on your local computer. For more information about getting started with SDF, see the help topic Getting Started with SuiteCloud Development Framework.

SDF lets you create customizations and deploy SuiteCloud projects to your NetSuite accounts. These projects are file-based and use XML representations of NetSuite objects, such as custom record types, custom record instances, workflows, and other customizations. The SDF XML reference guide describes how to structure these XML files, and the fields that are available. For more information, see the help topics Customizations Supported by SuiteCloud Development Framework and the SuiteCloud Development Framework XML Reference.

SDF also supports inclusion of templates and SuiteScript files. You can build, validate, and deploy SuiteCloud projects locally using SDF. SDF improves code portability and provides a streamlined deployment process across various NetSuite account types.

While SDF provides developers with the benefits of using code to customize objects and deploy them to an account, distribution and object copying is also available.

- To distribute a SuiteApp to accounts, see Distribution.
- To copy a single custom record (including its dependencies) from one account to another account, see Copy to Account.

**Point-and-Click Customization**

Customize the NetSuite UI and business logic through point-and-click options in the UI.

**SuiteBuilder**

SuiteBuilder lets you adapt NetSuite to meet your company's business process with a point-and-click interface. For information about SuiteBuilder, see the help topic SuiteBuilder Overview.

You can create the following:

- Custom fields and forms to enter information in NetSuite. See the help topics Custom Fields and Custom Forms.
- Custom record types to create records specific to the needs of your business. See the help topic Custom Records.
- Custom transaction types for your business needs. See the help topic Custom Transactions.
- Custom segments, which are custom classification fields similar to class and department. See the help topic Custom Segments.
Point-and-Click Customization

- Advanced PDF/HTML templates to customize printed and emailed transactions. See the help topic Advanced PDF/HTML Templates.
- Dashboards and custom centers to provide for each user the pages and links that they need to do their jobs. See the help topics Dashboards Overview and Custom Centers.

SuiteFlow

Workflows provide automation of a custom business process for a NetSuite record. For example, transaction approval, lead nurturing, and record management.

You define workflows for a record type and the stages, or states, of a record as it moves through the business process. In each state, actions specified in the workflow definition are performed before the workflow completes or transitions to another state. A workflow can move between different states, or transition, depending on the business process requirements. The actions and transitions can contain conditions that must be met before the action or transitions execute.

Triggers are events that occur when records are viewed, created, or updated and dictate when the workflow should perform certain tasks. Server triggers and client triggers specify when a workflow should initiate, when actions should be performed, or when a record should transition to another state. You can also run workflows on a schedule.

For more information, see the following topics:
- SuiteFlow Overview
- Workflow Elements
- Workflow Samples

Copy to Account

Copy to Account is an administrator tool that can copy a custom record (custom object) between your accounts. From the NetSuite application, you can select a target account, choose dependencies, select to include record instances, then preview and deploy the custom record. The tool can copy one custom object (including dependencies and instances) at a time to an account from which you have administrator access.

Copy to Account is powered by SuiteCloud Development Framework (SDF) and available to production, development, and sandbox account types. You can use Copy to Account if the object is supported by SDF and is not locked, hidden, or part of another SuiteApp. For a list of supported object types, see the help topic Customizations Supported by SuiteCloud Development Framework.

For more information, see the help topic Copy to Account.

Copy to Account provides administrators with the benefits of distributing a customization between accounts they own. If you want to use code to customize objects and deploy them to an account, or bundle custom objects and distribute them to multiple accounts, the following development tools are available:
- SuiteCloud Development Framework
- Distribution

Business Intelligence

When you need to find information about your business, you have several tools available to you in NetSuite.
Workbook

Use SuiteAnalytics Workbook to create highly customizable workbooks that combine datasets, pivot tables, and charts using a single tool. With the SuiteAnalytics Workbook user interface, users with limited knowledge of record schemas and query language can create complex workbooks and datasets through actions such as drag and drop editing. For more information, see SuiteAnalytics Workbook Overview.

Dashboards

You can create a unique dashboard setup to ensure maximum efficiency for your NetSuite users. Dashboard content is displayed in a variety of portlets or dynamic data display windows. Some portlets provide direct access to raw data, and others display data that has been synthesized into critical business metrics, such as key performance indicators (KPIs), performance scorecards, trend graphs, chart-based workbooks, and report snapshots. Other portlets enable you to display data from website RSS feeds. For more information, see the help topic Dashboards Overview.

Searches

To find information in NetSuite, you can use a simple search to find instances of specific record types and then filter the results by one or more field values.

For searches that will be run repeatedly by you or other users, create a saved search. Saved searches support advanced search features such as formulas containing SQL expressions and joins to other records. You can perform searches in the UI, or create searches programmatically using SuiteScript or SOAP web services.

For more information about performing searches, see the following topics:
- Search Overview
- Defining a Saved Search
- N/search Module for SuiteScript 2.0
- search for SOAP web services

Reports

NetSuite includes a variety of reporting capabilities that you can use to retrieve, present, and analyze real-time business results. You can run prebuilt reports as is, or modify them by setting per-user preferences, selecting per-report viewing options, or defining custom reports in the Report Builder tool. For more information, see the help topics Reporting Overview and Working with Report Results.

SuiteAnalytics Connect

If you want to use a third-party reporting tool, the SuiteAnalytics Connect Service provides a read-only method for obtaining NetSuite data. Oracle NetSuite offers drivers that you can use to archive, analyze, and report on NetSuite data using a third-party tool or any custom-built application. The SuiteAnalytics Connect Browser lists all standard SuiteAnalytics Connect tables and columns, providing information about primary keys, foreign keys, and the related tables. For more information, see the help topics SuiteAnalytics Connect and Working with the SuiteAnalytics Connect Browser.
Access Control

A role is a defined access configuration that can be assigned to users. A role includes sets of permissions for viewing and editing data. Roles and their permissions determine the pages that users can see in NetSuite and the tasks that they can complete. Each role is associated with a center, a user interface designed for a specific business area.

Custom roles let you tailor the level of access you give to users. Custom roles also provide the ability to modify a role without having to change multiple users' role assignments, which simplifies maintenance. Use the standard roles provided as templates to create custom roles to assign to users in your account.

For more information, see the help topic Customizing or Creating NetSuite Roles.

Distribution

Share your customizations with other accounts.

SuiteBundler

SuiteBundler lets you package groups of objects, called bundles or SuiteApps, for distribution to other accounts. There are two types of bundles:

- Customization bundle - Group of custom objects that implement customized behavior in NetSuite.
- Configuration bundle - Group of selected NetSuite account setup entries and preferences.

The Bundle Builder steps you through the process of creating bundles, defining bundle properties, and selecting objects to be included.

After bundle authors create a bundle, they set its availability and copy the bundle to a central repository hosted by Oracle NetSuite. Users with the SuiteApp Marketplace permission can install a bundle from the repository if it has been copied there and the publisher has made it available to the public, or to the user.

For information, see the help topics SuiteBundler Overview and SuiteApp Creation and Distribution.

While SuiteBundler provides developers with the benefits of bundling custom objects and distributing them to accounts, code deployment and object copying is also available.

- To use code to customize objects and deploy them to an account, see SuiteCloud Development Framework.
- To copy a single custom record (including its dependencies) to another account that you administer, see Copy to Account.

Integrations

To integrate NetSuite with information from other systems, you can use:

- CSV Import
- SuiteTalk SOAP Web Services
- SuiteTalk REST Web Services
- RESTlets
RESTlets vs. Other NetSuite Integration Options

RESTlets provide one option for integration with NetSuite. Other options include SOAP-based web services, REST web services, and Suitelets.

<table>
<thead>
<tr>
<th>Attribute</th>
<th>RESTlets</th>
<th>SOAP web services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supported Operations</td>
<td>get, search, add, update</td>
<td>get, search, add, update, delete</td>
</tr>
</tbody>
</table>

Important: The concurrency limits that apply to SOAP and REST web services and RESTlets are unified. For information about concurrency governance, see the help topic Web Services and RESTlet Concurrency Governance.

Note: For a comparison of RESTlets with REST web services, see the help topic REST Web Services and Other Integration Options.
### Integrations

<table>
<thead>
<tr>
<th>Attribute</th>
<th>RESTlets</th>
<th>SOAP web services</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authentication Supported?</td>
<td>Yes (token-based authentication)</td>
<td>Yes (user credentials, token-based authentication)</td>
</tr>
<tr>
<td>Supported HTTP Methods</td>
<td>GET, PUT, POST, DELETE</td>
<td>POST</td>
</tr>
<tr>
<td>Passing of Login Details</td>
<td>in authorization header</td>
<td>in body (SOAP)</td>
</tr>
<tr>
<td>Passing of Parameters</td>
<td>GET parameters on URL</td>
<td>all parameters in body (SOAP)</td>
</tr>
<tr>
<td>Supported Content Types</td>
<td>JSON, text/xml (explicit)</td>
<td>text/xml (explicit)</td>
</tr>
<tr>
<td>Environment</td>
<td>lightweight, more suitable for mobile devices, bundleable</td>
<td>heavy programming and deployment environment (C#, Java) no coding and script deployment needed on the server side</td>
</tr>
<tr>
<td>URL Clarity?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>(Note that for clients hosted by NetSuite, use the relative URL that does not include the domain.)</td>
<td></td>
</tr>
<tr>
<td>Performance</td>
<td>RESTlets are the fastest integration channel. All actions required for a business flow can be executed within a single call and generic mechanisms adding overhead are avoided.</td>
<td>SOAP web services require more calls to accomplish a business flow.</td>
</tr>
</tbody>
</table>

**Note:** SOAP web services is recommended for system-to-system integrations.

### RESTlets Compared to Suitelets

The following table compares the characteristics of RESTlets with those of Suitelets:

<table>
<thead>
<tr>
<th>Attribute</th>
<th>RESTlets</th>
<th>Suitelets</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supported Operations</td>
<td>get, search, add, update</td>
<td>get, search, add, update</td>
</tr>
<tr>
<td>Authentication Supported?</td>
<td>Yes</td>
<td>No, when available without login and executed as admin programmatically Yes, when accessed from a browser by a logged-in NetSuite user</td>
</tr>
<tr>
<td>Script Functions and HTTP Methods</td>
<td>individual script function for each HTTP method</td>
<td>one script function for all HTTP method</td>
</tr>
<tr>
<td>Content Handling</td>
<td>built-in handling of JSON input/output</td>
<td>must write code to convert JSON input/output</td>
</tr>
<tr>
<td>Governance</td>
<td>5,000 usage units per script</td>
<td>1,000 usage units per script</td>
</tr>
<tr>
<td>URL Clarity?</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>(Note that for clients hosted by NetSuite, use the relative URL that does not include the domain.)</td>
<td></td>
</tr>
</tbody>
</table>

**Note:**
CSV Import

Comma-Separated Value (CSV) import is the most commonly used method for transferring small to medium-sized data sets from other applications into NetSuite. The CSV import process saves time and prevents errors by submitting data in a CSV file. This data can add or update many records at one time, avoiding the need for manual data entry.

You can use the Import Assistant for most CSV data imports. The assistant steps you through the import process and provides verification of each step. After you complete the steps, you can run the import immediately or save the import to run later.

If you save an import, you can reuse its mapping for later import jobs and share it with other users. You can also programmatically import CSV file data using that mapping. For SuiteScript 2.0, use `N/task Module`.

For large or ongoing data migration projects, and for migrating data for record types not currently supported for CSV import, use SOAP web services.

For more information, see the following topics.

- SuiteTalk SOAP Web Services Platform Guide.
- CSV Imports Overview
- Importing CSV Files with the Import Assistant

SuiteTalk SOAP Web Services

SOAP web services provides programmatic access to your NetSuite data and business processes through a SOAP-based services API. SOAP web services is appropriate for integration scenarios where you regularly need to bring large amounts of data into NetSuite or send large amounts of data out of NetSuite.

As with any SOAP-based API, you can develop your integration using the language of your choice. Oracle NetSuite provides sample applications in C# and Java.

In addition, tools are available to assist in the development of PHP applications that interface to the SOAP web services platform. The NetSuite PHP toolkit for SOAP web services is a core library containing all classes, objects and methods parsed from the WSDL of a SOAP web services endpoint.

The SOAP Schema Browser provides a summary of all records, sublists, and other objects available in SOAP web services.

For more information, see the following topics.

- SuiteTalk SOAP Web Services Platform Overview
- SOAP Web Services Quick Start
- PHP Toolkit Overview
- SOAP Schema Browser

SuiteTalk REST Web Services

The NetSuite REST web services provide an integration channel that extends the capabilities of SuiteTalk. REST web services provide a REST-based interface for interacting with NetSuite.

The main benefits of REST web services include the following:
Integrations

- Simple access to records metadata. This includes user and company-specific metadata. For more information about working with records metadata, see the help topic Working with Resource Metadata.
- Easier handling of custom records and custom fields.
- Easy to navigate API.
- In contrast to RESTlets, you do not need to write, deploy, and run custom scripts.

For more information, see the following topics:
- SuiteTalk REST Web Services Overview and Setup
- REST Web Services Prerequisites and Setup
- Working with REST Web Services Using Postman

RESTlets

The RESTlet script type lets you create custom logic and make it available to external applications over HTTP. The RESTful integration supports stateless communication between client and server.

A RESTlet deployed in your account cannot be accessed without authentication, letting you control which external clients can access your RESTlet. External clients can authenticate using token-based authentication in the HTTP header. Any application that can communicate over HTTP can access a RESTlet.

RESTlet requests can also be sent with JSON, which integrates well with browsers and JavaScript.

RESTlets offer ease of adoption for developers familiar with SuiteScript. A RESTlet provides you with a broad range of behavior – you can use anything that can be achieved with server-side SuiteScript. RESTlets are also more secure than Suitelets, which can be made available to users without login. For more information, see the following topics:
- SuiteScript 2.0 RESTlet Script Type
- Sample RESTlet Code
- RESTlet Authentication
- REST Services Overview

Execution Contexts

Execution contexts provide information about how or when a SuiteScript script or SuiteFlow 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.

You can specify that a script or workflow should execute only in certain contexts, and this filtering can improve performance in contexts where the script or workflow is not required. You can also determine the execution context for a running script programmatically and use different logic depending on the context.

There are many execution contexts available in NetSuite. The Scheduled context indicates that a script or workflow was triggered in response to a scheduled script. The Debugger context indicates that the script was triggered using deployed or on-demand debugging in the SuiteScript Debugger. The following contexts were added recently to provide more control over script and workflow execution:
- Bank Connectivity
- Bank Statement Parser
- Financial Institution Connectivity
- Platform Extension
REST Web Services

SOAP Web Services

Revenue Management

**Important:** The Web Services context, which was available in previous releases, is no longer available. It has been renamed to SOAP Web Services.

For a full list of execution contexts, see *Execution Context Types*.

The execution context value for a script or workflow is dynamic and can change each time the script or workflow runs. The execution context value depends on how the script or workflow was triggered. For example, consider a context script that is deployed on customer records and uses the `beforeLoad(scriptContext)` entry point. When you edit a customer record using the NetSuite UI, the `beforeLoad(scriptContext)` entry point is triggered and the context script runs. For this execution of the script, the execution context value is User Interface. In this case, a UI event (editing a customer record) triggered the execution of the context script through the `beforeLoad(scriptContext)` entry point.

However, the `beforeLoad(scriptContext)` entry point can be triggered in other ways. This entry point is triggered immediately before a record of the associated type (in this example, a customer record) loads, but the loading action does not need to occur in the NetSuite UI. If you create a scheduled script that runs every day and loads a record, the `beforeLoad(scriptContext)` entry point is triggered each time the scheduled script runs. The context script runs in response to this trigger. For these executions of the context script, the execution context value is Scheduled. In this case, an event from a scheduled script (loading a customer record) triggered the execution of the context script through the `beforeLoad(scriptContext)` entry point.

Execution context filtering behavior is 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.

When the information on a record changes, you can use system notes to determine the execution context that was used for the change. For more information, see *Execution Contexts in System Notes*.

For more information about execution contexts in SuiteScript and SuiteFlow, see the following help topics:

- Execution Contexts in SuiteScript
- Execution Contexts in SuiteFlow

**Execution Contexts in SuiteScript**

For SuiteScript scripts, you set up execution context filtering on the Context Filtering tab when you create or edit a script deployment record:
Execution context values are available programmatically in scripts using the `runtime.executionContext` property and the `runtime.ContextType` enum. The REST Web Services context is used with SuiteTalk Web Services. For more information, see the help topic Using the REST Web Services SuiteScript Execution Context.

**Note:** Execution contexts are available only for client scripts and user event scripts.

You can use execution contexts in SuiteScript in two ways:

- **Set up execution context filtering on the Context Filtering tab** — You can select the contexts in which you want your script to execute. Your script will not execute if it is triggered in a context that is not selected. For more information, see the help topic Using the Context Filtering Tab.
- **Determine the current execution context programmatically** — You can determine the context in which your script is currently executing, compare the context to the available context values in the `runtime.ContextType` enum, and take appropriate action. For more information, see the help topic `runtime.executionContext`.

### Execution Contexts in SuiteFlow

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

![Event Definition](image)

For more information, see Execution Contexts in SuiteFlow.

### Execution Context Types

Use the following descriptions to determine which contexts are important for your script or workflow to execute in.

For SuiteScript scripts, each execution context type has an associated value in the `runtime.ContextType` enum. You can use these values to programmatically determine the context in which a script is
executing and customize your script logic based on the context. For more information, see the help topic `runtime.executionContext`.

The following table describes the available execution context types. The table also includes usage notes (if appropriate) and links to other help topics to help you further understand the contexts.

<table>
<thead>
<tr>
<th>Context</th>
<th>Description</th>
<th>Notes</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Action</td>
<td>Represents a workflow action</td>
<td></td>
<td>Working with Actions</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SuiteScript 2.0 Workflow Action Script Type</td>
</tr>
<tr>
<td>Bank Connectivity</td>
<td>Represents the Bank Connectivity plug-in or Bank Connectivity SuiteApp</td>
<td></td>
<td>Bank Connectivity Plug-in</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bank Connectivity SuiteApp</td>
</tr>
<tr>
<td>Bank Statement Parser</td>
<td>Represents the Parser plug-in or Bank Statement Parsers SuiteApp</td>
<td></td>
<td>Parser Plug-in</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bank Statement Parsers SuiteApp</td>
</tr>
<tr>
<td>Bundle Installation</td>
<td>Represents a bundle installation script</td>
<td></td>
<td>Using Bundle Installation Scripts</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SuiteScript 2.0 Bundle Installation Script Type</td>
</tr>
<tr>
<td>Client</td>
<td>Represents a client script</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SuiteScript 2.0 Client Script Type</td>
</tr>
<tr>
<td>CSV Import</td>
<td>Represents a CSV import task</td>
<td>To use this context, you must enable the Run Server SuiteScript and Trigger Workflows preference at Setup &gt; Import/Export &gt; CSV Import Preferences.</td>
<td>CSV Imports</td>
</tr>
<tr>
<td>Custom GL Lines</td>
<td>Represents the Custom GL Lines plug-in</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Custom GL Lines Plug-in</td>
</tr>
<tr>
<td>Custom Mass Update</td>
<td>Represents a mass update script</td>
<td></td>
<td>SuiteScript 2.0 Mass Update Script Type</td>
</tr>
<tr>
<td>Debugger</td>
<td>Represents the SuiteScript Debugger</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Capture</td>
<td>Represents the Email Capture plug-in</td>
<td></td>
<td>Email Capture Plug-in</td>
</tr>
<tr>
<td>Financial Institution Connectivity</td>
<td>Represents the Financial Institution Connectivity plug-in</td>
<td></td>
<td>Financial Institution Connectivity Plug-in</td>
</tr>
<tr>
<td>Map/Reduce</td>
<td>Represents a map/reduce script</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>Represents a context that is not one of</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Context</td>
<td>Description</td>
<td>Notes</td>
<td>Additional Information</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-------------</td>
<td>----------------------------------------------------------------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>Payment PostBack</td>
<td>Represents a payment postback task</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Payment Processing</td>
<td>Represents a payment processing task</td>
<td></td>
<td>Payment Processing</td>
</tr>
<tr>
<td>Platform Extension</td>
<td>Represents a platform extension customization in Commerce</td>
<td></td>
<td>Extensions</td>
</tr>
<tr>
<td>Promotions</td>
<td>Represents a portlet script</td>
<td></td>
<td>SuiteScript 2.0 Portlet Script Type</td>
</tr>
<tr>
<td>Promotions</td>
<td>Represents a promotion in Commerce</td>
<td></td>
<td>Promotions</td>
</tr>
<tr>
<td>Rate Adjustor</td>
<td>Represents a currency rate adjustor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REST Web Services</td>
<td>Represents a REST Web Services request</td>
<td></td>
<td>SuiteTalk REST Web Services API Guide</td>
</tr>
<tr>
<td></td>
<td>Represented by REST Web Services request</td>
<td></td>
<td>Using the REST Web Services SuiteScript Execution Context</td>
</tr>
<tr>
<td>RESTlet</td>
<td>Represents a RESTlet script</td>
<td></td>
<td>SuiteScript 2.0 RESTlet Script Type</td>
</tr>
<tr>
<td>Revenue Management</td>
<td>Represents an Advanced Revenue Management task</td>
<td></td>
<td>Advanced Revenue Management</td>
</tr>
<tr>
<td>Scheduled Script</td>
<td>Represents a scheduled script</td>
<td></td>
<td>SuiteScript 2.0 Scheduled Script Type</td>
</tr>
<tr>
<td>SDF Installation</td>
<td>Represents an SDF installation script</td>
<td></td>
<td>SuiteScript 2.0 SDF Installation Script Type</td>
</tr>
<tr>
<td>Shipping Partners</td>
<td>Represents a shipping partners task</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOAP Web Services</td>
<td>Represents a SOAP Web Services request</td>
<td>To use this context, make sure that the Disable Server SuiteScript and Workflow Triggers preference is not enabled at Setup &gt; Integration &gt; SOAP Web Services Preferences.</td>
<td>SuiteTalk SOAP Web Services Platform Guide</td>
</tr>
<tr>
<td>Suitelet</td>
<td>Represents a Suitelet</td>
<td></td>
<td>SuiteScript 2.0 Suitelet Script Type</td>
</tr>
<tr>
<td>Tax Engine</td>
<td>Represents a SuiteTax Engine task</td>
<td></td>
<td>SuiteTax Engine</td>
</tr>
</tbody>
</table>
### Execution Contexts

<table>
<thead>
<tr>
<th>Context</th>
<th>Description</th>
<th>Notes</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>User Event Script</td>
<td>Represents a user event script</td>
<td>This context type represents cases in which records are generated on the backend (as opposed to being generated by the NetSuite UI). For example, the User Event Script context represents the case in which a bill payment record is submitted as part of a non-record page. In contrast, the User Interface context represents the case in which a single bill payment record is submitted from the UI. User event scripts cannot be executed by other user event scripts. Script deployments or workflows with the User Event Script context type cannot execute other user event scripts.</td>
<td>SuiteScript 2.0 User Event Script Type</td>
</tr>
<tr>
<td>User Interface</td>
<td>Represents an event in the NetSuite UI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Web Application</td>
<td>Represents a web application task in Commerce</td>
<td></td>
<td>Store Front Install Your Commerce Web Store Applications</td>
</tr>
<tr>
<td>Web Store</td>
<td>Represents a web store task in Commerce</td>
<td></td>
<td>Store Front Install Your Commerce Web Store Applications</td>
</tr>
<tr>
<td>Workflow</td>
<td>Represents a SuiteFlow workflow</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Execution Contexts in System Notes

Each record in NetSuite includes a System Notes subtab that tracks any changes made to the record. A system note for a change on a record captures information such as the date when the change was made, the type of change, and the old and new value in the record. For more information, see the help topic System Notes Overview.

A system note also captures the execution context in which a change was made. Examining this context can be useful if you need to troubleshoot unexpected changes to a record. The following screenshot shows an example of the System Notes subtab on a customer record. The Context column lists the execution context in which each change was made.
SuiteCloud Records Reference Tools

In every release, the metadata related to the records, fields, sublists, search joins, and other data available through SuiteScript, the SuiteAnalytics Connect Service, and SOAP web services is collected in a browser. The browser is a single tool with three separate tabs containing the data related to SuiteScript, the SuiteAnalytics Connect Schema, and SOAP web services. You can access the browser from the individual help pages of records in the Help Center, and you can also use the following direct link: SOAP Schema Browser.

**Tip:** Bookmark this link for easy access to the Records, Connect, and SOAP Schema Browsers.

The browser tool is separate from the information available in the Help Center, and you do not need to be logged in to your NetSuite account to access it.

A new version of the browser tool is released twice a year, for each NetSuite version. A new version is published about a month after the new SOAP web services endpoint is generally available. The availability of the SOAP web services endpoint is announced in the SOAP web services release notes and in the Integration Newsletter, which is sent to SOAP web services users.

**Note:** The REST API browser is available as a separate browser tool.

Besides the browser tool, the SuiteCloud Development Framework (SDF) XML reference also provides information about record-related metadata. SDF lets you create XML representations of NetSuite objects, such as custom record types, custom record instances, workflows, and other customizations both for internal use and for commercial distribution.

See the following sections for details about the three tabs of the browser and about the SDF XML reference.

- The SuiteScript Records Browser
- The SuiteAnalytics Connect Browser
- The SuiteTalk SOAP Schema Browser
- The REST API Browser
- The SDF XML Reference

The SuiteScript Records Browser

The SuiteScript Records Browser describes the records that are generally available for use in SuiteScript. It includes a reference page for each record exposed to SuiteScript.

**Note:** Records in limited release features may not be available in the Records Browser.

The SuiteScript Records Browser must be used in conjunction with the SuiteScript reference guide. Within the Records Browser, you find all available fields, sublists, and search filter fields for that record. The Records Browser also provides field-level help for many fields that appears on the record, and contains the IDs needed to reference NetSuite records, fields, sublists, search filters, permissions, features, and so on, in SuiteScript.

You can use the Records Browser online, or you can download it.

Only the Records Browser for the most recent release of NetSuite is supported. Older versions may still be accessible, but they are not supported.
From the Records Browser, you can check if a record is also supported in SOAP web services or SuiteAnalytics Connect by clicking the SOAP Schema Browser or the Connect Browser tab, respectively.

Go to the SuiteScript Records Browser.

For more information, see the help topic Working with the SuiteScript Records Browser.

The SuiteAnalytics Connect Browser

The SuiteAnalytics Connect Browser includes a summary of NetSuite data available through the SuiteAnalytics Connect Service. The Browser provides a page for each of the standard tables in the Connect schema. The Connect Browser is integrated with the SuiteScript Records Browser and the SOAP Schema Browser, which enables you to compare records type support across SuiteScript, SOAP web services, and SuiteAnalytics Connect.

Go to the SuiteAnalytics Connect Browser.

You can use the Connect browser online, or you can download it. Only the Connect Browser for the most recent release is supported. Older versions may still be accessible, but the data may not be accurate.

From the Connect Browser you can check if a record is also supported in SOAP web services or SuiteScript by clicking the SOAP Schema Browser or the Records Browser tab, respectively.

For more information, see the help topic Working with the SuiteAnalytics Connect Browser.

The SuiteTalk SOAP Schema Browser

The SOAP Schema Browser provides a summary of all records, sublists, and other objects available in SOAP web services. Information about each object is displayed as a series of tables, both for ease of browsing and to provide additional details compared with what is available in the WSDL. The SOAP Schema Browser is integrated with the SuiteScript Records Browser and the SuiteAnalytics Connect Browser, which enables you to compare records type support across SuiteScript, SOAP web services, and SuiteAnalytics Connect.

Go to the SOAP Schema Browser.

The SOAP Schema Browser is not maintained after it is released. Older versions of the browser are still accessible, but they are not updated after their release.

Besides the details about a record, you can also find details of sublists, search objects, enumerations, and data types such as RecordRef and BaseRef.

For more information, see the help topic SOAP Schema Browser.

The 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 data presented in the REST API browser is based on OpenAPI 3.0 metadata.

The REST API browser provides information about the support level of records, the available operations, field names, field types, the structure of potential HTTP responses, and a summary of all records, sublists, schema definitions and other objects.

Go to the REST API Browser.
The SDF XML Reference

SuiteCloud Development Framework (SDF) is a development framework that can customize your NetSuite account from an integrated development environment (IDE) on your local computer. For detailed information, see the help topic SuiteCloud Development Framework Overview.

Go to the SuiteCloud Development Framework XML Reference.

Each SDF-supported NetSuite object can be defined in an XML file. The SDF XML reference guide describes how to structure these XML files, and the fields that are available. It includes information about the feature requirements and fields, including their structure, properties, possible values, default values, attributes, and other details.

For more information, see the help topic Customizations Supported by SuiteCloud Development Framework.
SuiteCloud Platform Glossary

**Account-Specific Domains:** Domain for NetSuite that contains the account ID as part of the domain name.

**Application Performance Management (APM):** A SuiteApp that lets you see and manage the performance of your NetSuite customizations and business critical operations. APM provides a dashboard, data visualizations, page time summary, script analysis, and script queue monitor to help you review the speed of the NetSuite UI.

**Copy to Account:** A tool that lets you copy one custom object between your accounts. You can select a target account, choose dependencies, opt to include record instances, and then preview and deploy the custom object. You can copy any object that is supported by SDF provided that it is not locked, hidden, or part of another SuiteApp.

**CSV:** Comma separated value. A file format you can use for importing and exporting data in and out of NetSuite.

**Dynamic defaults:** When working with custom free-form text, text area, rich text, or hypertext fields, you can include NetSuite tags in the default definition. These tags are populated with field values when the page is loaded or saved.

**Dynamic hyperlink:** A hyperlink field that has a dynamic default defined for it. This is useful when the exact URL is unknown until information is collected for the record or if information specific to the current logged in session is required as part of a URL parameter.

**Governance:** Refers to mechanisms in place to monitor and control the use of automated functions, such as web services calls or the execution of SuiteScript scripts, to optimize NetSuite application and database servers.

**Integration record:** A record used to represent any application that sends SOAP web services requests to your NetSuite account. An integration record can also be used to represent any application that calls RESTlets. You can use integration records to manage applications, view activity logs, and more. The integration record enhances your ability to manage and monitor SOAP web services requests sent to your NetSuite account. This capability is useful if you have more than one application that sends requests.

**KPI:** Key Performance Indicators are quantifiable measurements that reflect the critical success factors of an organization. They help you define and measure progress toward organizational goals.

**Permission:** Grants access to a specific record type, task, or page. You specify permissions on custom roles.

**Managed SuiteApp:** An SDF SuiteApp for which you automatically receive updates for fixes and enhancements without any need to update the SuiteApp manually or migrate for future releases.

**Plug-in:** Functionality, defined by an interface, that can be customized. Oracle develops core plug-ins and typically releases them as part of a major release cycle. After it is installed, a third party can override the plug-in’s default logic with logic that suits its specific needs. A custom plug-in is customizable functionality that is defined by an interface. When an interface is defined, third-party solution providers can develop custom plug-in implementations and bundle them as part of a SuiteApp. After the SuiteApp is installed in an account, a solution implementer can define one or more alternate implementations. These implementations allow the solution implementer to edit the custom plug-in’s logic to suit specific business needs.

**REST Web Services:** A REST-based integration channel that extends the capabilities of SuiteTalk. Using REST web services, you can:

- Perform business processing on NetSuite records
- Navigate dynamically between records
- Get and process the API definition and record metadata
- Execute NetSuite queries on records.

**RESTlet:** A script type that lets you create custom logic and make it available to external applications over HTTP. The RESTful integration supports stateless communication between client and server.

**Restriction:** Specified when creating a custom role, restrictions limit access to certain records, based on content in the records. Restrictions may also limit the values that this role can assign to fields on these records. After permissions are assigned on a role, the restrictions specify which instances of that record type can be accessed by the role.

**Role:** A set of permissions that gives access to specific areas of your data to employees, customers, partners, or vendors. Standard roles are usually named for positions in your company. The predefined permissions and levels of access assigned to these roles are based on common employee positions. For example, the A/P Clerk role lets users enter bills and vendor credits, pay bills and sales tax, and view the A/P and inventory reports. Standard roles cannot be modified, so use standard roles as templates to create your own customized roles that you assign to users in your account.

**SDF SDK:** The former name of SuiteCloud CLI for Java.

**Segment:** A custom classification field used to classify records, similar to class, department, and location. You can define possible values for each segment and add the segments to specific record types.

**SOAP Web Services:** Provides programmatic access to your NetSuite data and business processes through an XML-based application programming interface (API). SOAP web services have the following characteristics:

- Document style, or Doc style, encoding
- Doc style encoding consists of message-oriented exchanges where an XML schema specified within the SOAP message defines the structure of any messages sent between two applications.
- HTTPS Transport: currently the only transport supported is HTTPS as defined in the WSDL document.

**Sourcing:** Fields can be set to source information from another record in your account. When a field is defined to source information from another record, the information populated into the field is then dependent on fields associated with a record selected on another field within that form. Some standard fields automatically source information. Custom fields can be defined to source information as needed.

**SuiteAnalytics:** Feature area that includes SuiteAnalytics Workbook, Dashboards, Searches, Reports, and SuiteAnalytics Connect.

- SuiteAnalytics Workbook – Analytical tool in NetSuite that enables you to create highly customizable workbooks by combining queries, pivot tables, and charts.
- Dashboards – A dashboard displays a collection of real-time, accurate data that is relevant to the page and to the role of the user viewing the page. Users can view the date on their dashboards, to make decisions, and edit records.
- Search – A tool used to retrieve real-time data from your account. You can search for a single record by keywords, return a set of records that match filters you define, customize the display of search results, export results to other applications, email results to other users, and save search definitions for reuse.
- Reports – Capabilities that you can use to retrieve, present, and analyze real-time business results. You can run prebuilt reports or modify them by setting per-user preferences, selecting per-report viewing options, or defining custom reports in NetSuite’s Report Builder and Financial Report Builder tools.
- SuiteAnalytics Connect – Exposure of NetSuite data for ODBC, JDBC, and ADO.NET access. With one of the NetSuite drivers installed, you can use external applications to access views of NetSuite data and generate reports.
**SuiteApp Control Center:** A singular location to define and manage your SuiteApp distribution. The SuiteApp Control Center lets you define and manage your SuiteApp distribution process.

**SuiteApp Marketplace:** A channel where all NetSuite users can view SuiteApps available to install.

**SuiteBuilder:** A set of features that provide a point-and-click interface for creating custom objects, such as fields, forms, record types, transaction types, segments, form layouts, centers, and advanced templates. These features allow you to adapt NetSuite to meet your company’s business processes.

**SuiteBundler:** Allows NetSuite users to package together groups of objects for distribution to other accounts. These packages are called SuiteApps or bundles. SuiteApps authors may be internal developers creating customizations for their companies or independent software vendors distributing solutions to their customers.

**SuiteCloud CLI:** A command line interface within SuiteCloud SDK used to develop SDF projects. You can also create batch and shell scripts that use command line interface commands to automate SDF project validation and deployment processes. It is intended for experienced SDF users and users who are familiar with the SuiteCloud IDE plug-in.

**SuiteCloud Development Framework (SDF):** A development framework that lets you customize your NetSuite account from an integrated development environment (IDE) on your local computer. SDF lets you create customizations and deploy them to your NetSuite accounts.

**SuiteCloud IDE Plug-in:** A plug-in within SuiteCloud SDK used to develop SDF projects in your integrated development environment (IDE).

**SuiteCloud Platform:** A set of tools you can use to adapt NetSuite for your organization and to create customization packages that can be distributed to others.

**SuiteCloud SDK:** The package of tools available to develop SDF projects. SuiteCloud SDK includes the SuiteCloud CLI and the SuiteCloud IDE Plug-ins.

**SuiteFlow:** A tool to automate business processes using visual workflow management. You can use SuiteFlow to create workflows that track the states of records of a selected type throughout a business process and perform specified actions when records reach different states. You can model workflow states, transitions between states, and actions in a workflow diagrammer.

**SuiteScript:** The JavaScript-based scripting platform for NetSuite solutions. SuiteScript includes custom code capabilities to automate processes in NetSuite, build custom components, or connect with third-party systems.

**SuiteSignOn:** The outbound single sign-on implementation in NetSuite. Users are authenticated in the NetSuite user interface, and then they can move directly from a link in NetSuite to an external user-authenticating web application. No additional authentication is required.

**SuiteTalk:** See REST Web Services and SOAP Web Services.

**Translation Collections:** A customization object that stores translation strings with their translations. A translation string consists of a key and a value pair. The key is the identifier, and its value is a source string. Keys contain one string that can be translated into multiple languages.

**Unmanaged SuiteApp:** An SDF SuiteApp that requires you to manually update it in NetSuite.

**Web Services:** See REST Web Services and SOAP Web Services.