Implementing State and Country/Territory Picklists

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INTRODUCING STATE AND COUNTRY/TERRITORY PICKLISTS

State and country/territory picklists let users select states, countries and territories from predefined, standardized lists, instead of entering state and country/territory data into text fields. State and country/territory picklists offer faster and easier data entry. They help to ensure cleaner data that can be harnessed for other uses—in reports and dashboards, for example. They protect data integrity by preventing typos, alternate spellings, and junk data—even in records updated through the API.

State and country/territory picklists are available in the shipping, billing, mailing, and "other" address fields in the account, campaign members, contact, contract, lead, order, person accounts, quotes, and service contracts standard objects. The picklists are also available for managing users and companies in Setup. To use the picklists, first choose the country or territory, and then choose from the options that automatically populate the state or province picklist.

You can use the state and country/territory picklists in most places that state and country/territory fields are available in Salesforce, including:

State and country/territory picklists can also be searched, and they're supported in Translation Workbench.

The picklists are available in all editions except Database.com.

To provide feedback on state and country/territory picklists, go to IdeaExchange.

State and Country/Territory Picklist Limitations

State and country/territory picklists include 239 countries and territories by default. They also include the states and provinces of the United States, Canada, Australia, Brazil, China, India, Ireland, Italy, and Mexico. State and country/territory picklists that contain more than 1,000 states or countries/territories can cause degraded performance. State and country/territory picklists don't work with:

- Salesforce to Salesforce
- Connect Offline
- Change sets

If your org uses Data.com, the Data.com records can contain states, countries, and territories not included in the standard state and country/territory picklists. If your org uses these states and countries, add them to the picklist before Data.com users can add or clean these records:

- American Samoa (AS)
- Guam (GU)
- Hong Kong (HK)
- Marshall Islands (MH)
- Netherlands Antilles (AN)
- Northern Mariana Islands (MP)
- Serbia and Montenegro (CS)
- United States Minor Outlying Islands (UM)

Picklist labels, not code values, are displayed in reports on state and country/territory fields. To display code value abbreviations wherever your users see state, country, and territory names, manually change your State Name or Country/Territory Name labels to your code values. You can access your records' state and country/territory code values by using the `StateCode` and `CountryCode` fields in Translation Workbench or the Data Loader.

How to Use This Guide

There are four steps involved in preparing and transitioning your organization to state and country/territory picklists:

- Configure the states, countries, and territories that you want to use in your organization.
- Scan your Salesforce data and customizations to see how they'll be affected by the switch from text fields to picklists, and then fix anything that the switch-over might break. Scanning and fixing can be an iterative process that you repeat several times.
- Convert existing, text-based state and country/territory data to picklist values so you can keep using your old data with the new fields.
- Turn on the picklists for your users.

This guide walks you through these four steps of setting up state and country/territory picklists for your organization. Then it shows you a little bit about how to work with the new fields so you can train your users.

All of the setup tasks in this guide require the "Modify All Data" permission. Scanning your organization also requires the "Create Documents" permission.

CONFIGURE STATE AND COUNTRY/TERRITORY PICKLISTS

Configuring picklists isn't required for you to enable state and country/territory picklists for users, but it's highly recommended. Configuring picklists helps ensure continuity and data integrity with existing state, country, and territory data and customizations.

When configuring states, countries, and territories, you start with countries and territories, and then drill down to their states or provinces. State and country/territory picklists include 239 countries and territories by default. They also include the states and provinces of the United States, Canada, Australia, Brazil, China, India, Ireland, Italy, and Mexico. State and country/territory picklists that contain more than 1,000 states or countries/territories can cause degraded performance.

📝 Note:
- Integration values for state and country/territory picklists can also be configured through the Metadata API. For more information, read about the AddressSettings component in the *Metadata API Developer Guide*.
- State and country/territory picklists aren't supported in Salesforce change sets or packages. However, you can move integration value changes for state and country/territory picklists between sandbox and production orgs by using the Metadata API. To edit the existing states and countries in a picklist, configure your state and country/territory picklists in your sandbox org. Then, use the Metadata API to retrieve the sandbox configurations, and deploy them to your production org. You can't deploy new ISO codes or update ISO code values using any API.

1. From Setup, enter `State and Country/Territory Picklists` in the Quick Find box, then select **State and Country/Territory Picklists**.
2. On the State and Country/Territory Picklists page, click **Configure States, Countries, and Territories**.
3. On the Configure States, Countries, and Territories page, select from the following options:

   `Active`
   Makes the country or territory available in the Metadata API so that records that contain the country or territory can be imported. However, unless you also set it as visible, the country or territory isn't available to users in Salesforce.

   `Visible`
   Makes the country or territory available to users in Salesforce. A country or territory must be active before you can make it visible.

4. Click **Edit** to view and edit details for the country, including to configure its states or provinces.
5. (Optional) Under Picklist Settings, select a `Default Country/Territory`. The Default Country/Territory automatically populates country/territory picklists for new records in your org, but users can select a different country or territory. Default countries and territories must be both active and visible.
6. To save your configuration, click **Save**.

📝 Note: Active states and countries not marked `Visible` are still valid filter lookup values. You can use invisible states and countries when creating filters in reports, list views, workflows, and so on.

CUSTOMIZE STATES AND COUNTRIES

To add or edit a state or province, navigate to its detail page through the detail page of its associated country.

1. From Setup, enter `State` in the Quick Find box, then select **State and Country/Territory Picklists**.
2. Click **Configure States, Countries, and Territories**.
3. To add a country, click **New Country/Territory**. To edit an existing country, click **Edit**.
4. Under Country/Territory Information, specify your options.

`Country/Territory Name`	By default, the ISO-standard name. The name is what users see in the Salesforce user interface.
`Country/Territory Code`	By default, the two-letter ISO-standard code. If you change an ISO code, the new value must be unique. Codes are case insensitive and must contain only ASCII characters and numbers. You can't edit the ISO codes of standard states or countries. You can edit the country/territory codes of custom states, countries, and territories only before you enable those states, countries, and territories for your users.
`Integration Value`	A customizable text value that is linked to a state or country/territory code. Integration values for standard states, countries, and territories default to the full ISO-standard state, country, and territory names. Integration values function similarly to the API names of custom fields and objects. Configuring integration values allows integrations that you set up before enabling state and country/territory picklists to continue to work.
	You can edit integration values to match values that you use elsewhere in your organization. For example, let's say that you have a workflow rule that uses `USA` instead of the default `United States` as the country name. If you manually set the integration value for country/territory code `US` to `USA`, the workflow rule doesn't break when you enable state and country/territory picklists.
	When you update a code value on a record, that record's `State/Province (text only)` or `Country (text only)` column is populated with the corresponding integration value. Likewise, when you update a state, or country `(text only)` column with a valid integration value, we keep the corresponding state or country/territory code column in sync. You can change your organization's integration values after you enable state and country/territory picklists. However, when you update your picklists' state and country/territory integration values, the integration values on your records aren't updated. Name values aren't stored on records. Instead, they're retrieved from Salesforce based on a record's `State Code` or `Country Code` value. If the states, countries, or territories in your picklists have different field values for `Name` and `Integration Value`, make sure your report or list view filters use the correct values. Use names in `State` and `Country` filters, and use integration values in `State (text only)` and `Country (text only)` filters. Otherwise, your reports can fail to capture all relevant records.
`Active`	Makes the country or territory available in the Metadata API so that records can be imported that contain the country. However, unless you also set it as visible, the country or territory isn't available to users in Salesforce.
`Visible`	Makes the country or territory available to users in Salesforce. A country or territory must be active before you can make it visible.

5. If you're adding a country, click **Add**.

6. If you're editing a country, specify the options for States:

Active	Makes the state available in the Metadata API so that records can be imported that contain the state. However, unless you also set it as visible, the state isn't available to users in Salesforce.
Visible	Makes the state available to users in Salesforce. A state must be active before you can make it visible.

7. Click either of the following, if desired.

- **New State** to add a custom state or province. On the New State page, specify a `State Name`, `State Code`, and `Integration Value`, and select whether the new state is `Active` or `Visible`. To save the new state, click **Add**.
- **Edit** to view and edit state or province details, including the `State Name`, `State Code`, and `Integration Value`.

8. Click **Save**.

BEFORE YOU SCAN YOUR ORGANIZATION

After you configure the states, countries, and territories that you want to use in picklists, it's time to scan your organization to see how it will be affected by the change.

This discovery process shows you where and how state, country, and territory data appears in your org. The process also shows where this data is used in customizations, such as list views and reports. After you've analyzed the scan results, you can plan to convert your data, update your customizations, and turn on state and country/territory picklists.

Every org's discovery process is unique. For some orgs, transitioning from state and country/territory text fields to standardized picklists is straightforward and manageable. However, if state and country/territory metadata is used extensively throughout an org, the transition can be a complicated and time-consuming process. Salesforce recommends that you scan your org early and often so that you can transition smoothly to the new lists. Keep these recommendations and considerations in mind.

- Scanning doesn't convert data or fix your customizations. Convert your data separately, and update your customizations individually.
- You can continue to work normally in your org during the scan.
- The scanning process identifies affected managed packages but doesn't provide a mechanism for addressing packaging issues.
- Scanning doesn't find formulas that include state and country/territory metadata.
- You can't use display values in validation rules or workflow rules that use comparison formula functions. If your validation or workflow rules on state or country/territory fields use `BEGINS`, `CONTAINS`, `ISCHANGED`, or `REGEX`, use `ISPICKVAL` with state and country/territory code values in your comparison functions.
- Scanning doesn't find personal list views and reports that use state and country/territory metadata. Individual users must update those customizations themselves.
- Converted leads aren't scanned. State, country, and territory values aren't updated on converted lead records when you enable state and country/territory picklists.
- Scan your org multiple times. After you update a customization, rescan to make sure that your changes fixed the problem and didn't create new ones.

SCAN YOUR ORGANIZATION

For example, you can see all the ways United States is saved as a text value, such as U.S., US, America, Estados Unidos, and even misspelled entries like Untied States. In addition, scanning shows you where state and country data is used in customizations, including:

When the scan is complete, you receive 2 emails with links to detailed reports: one on address data and one on customizations. After analyzing the reports, begin the tasks of converting existing data to picklist values and updating customizations so that they work with the new picklist fields.

1. From Setup, enter *State and Country/Territory Picklists* in the Quick Find box, then select **State and Country/Territory Picklists**.

2. On the State and Country/Territory Picklists setup page, click **Scan for state and country/territory data**

3. On the Scan for Affected Data and Customizations page, click **Scan for State and Country/Territory Data**.

4. Wait for an email that contains the results.

   Depending on the size and complexity of your organization, the results take anywhere between a few minutes and a few hours to generate.

   > 📝 **Note:** The emails are sent from noreply@salesforce.com. They have the subject line, "Salesforce Address Data Scan" or "Salesforce Address Customization Scan." If you don't receive the emails, make sure that they weren't caught in a spam filter.

5. Click the link in each email to go to a document that contains the report of affected data or customizations.

6. On the Document detail page, click **View file**.

You can use the reports to understand and plan how to update your customizations so that you minimize disruptions to your users' productivity when picklists are enabled.

PREPARE TO CONVERT STATE AND COUNTRY DATA

Converting existing data allows you to keep working with the data after you switch to picklists.

For example, say you have a report that culls all your sales reps' leads in Washington state. The report is generated from state picklist value Washington. To ensure that records with text-based state values such as Wash., WA, and Washington are included in the report, convert text-based state data to standardized picklist values.

Converting existing state, country, and territory text data into standardized picklist values helps ensure data integrity after you enable picklists in your organization. Your users encounter validation errors when saving records that contain state, country, or territory values that aren't in your picklists. Also, reports become unreliable when records created before you enable state and country/territory picklists contain different state, country, and territory values than records created using picklists.

When you convert data, Salesforce starts with countries and territories, then goes on to states. As you go through the conversion process, here are a few things to keep in mind:

- Save frequently. You can exit the conversion tool and return to it at any time.
- You can continue to work normally in your organization while converting data.
- You can't convert data while you're scanning for affected data and customizations, or while state or country/territory picklists are being deployed.
- Steps can be repeated and undone at any time until you enable the picklists for users. After the picklists are enabled, you can't undo the conversion.
- If you use Data.com Clean, we recommend that you suspend Clean jobs until the conversion is finished.

Finally, before you convert state and country values, configure the picklists for your organization as described in Configure State and Country/Territory Picklists on page 3. That way, when picklists are enabled, all updated and new records use your specified integration value, helping to ensure consistent and accurate data in your organization.

CONVERT STATE AND COUNTRY DATA

To convert text-based state and country/territory data to picklist-compatible values, select specific text values and choose the standard values you want to map them to.

For example, you can select all occurrences of "USA" and change them to "United States."

Convert countries first, and then states and provinces.

You can convert up to 2,000 country/territory values and up to 2,000 state values. However, state and country/territory picklists that contain more than 1,000 states or countries can degrade performance.

1. From Setup, enter `State and Country/Territory Picklists` in the Quick Find box, then select **State and Country/Territory Picklists**.

2. On the State and Country/Territory Picklists page, click **Convert identified data**.
   Salesforce opens the Convert States, Countries, and Territories page. This page displays all the country and territory text values that appear in your org and the number of times each value is used.

3. Select `Change` for one or more values you want to convert. For example, select `Change` for all the iterations of United States.

4. In the `Change To` area, choose the country or territory that you want to convert the text values to and click **Save to Changelist**.

   > 📝 Note: If you map states or countries to `Unknown value`, users see states and countries in their records. However, your users encounter errors when they save records, unless they change each state, country, and territory to a valid value before saving.

5. Repeat Steps 3 and 4 for other country and territory values, such as for Canada.
   Salesforce tracks planned changes in the Changelist area.

6. When all the countries are mapped, click **Next** to convert state values.

   Use the Country of Origin column to identify the country or territory associated with that state or province.

7. To convert the values and turn on state and country/territory picklists in your org, click **Finish and Enable Picklists** on the Confirm Changes page. Or, to return to the State and Country/Territory Picklists page, click **Finish**.

A few words about undo:

- On the Convert Countries or Convert States page, click **Undo** at any time to revert values in the changelist.
- On the Convert States page, click **Previous** to return to the Convert States, Countries, and Territories page and change country and territory mappings.
- You can convert state, country, and territory values even after clicking **Finish**. After picklists are enabled, however, you can no longer edit your conversion mappings.

ENABLE AND DISABLE STATE AND COUNTRY/TERRITORY PICKLISTS

When you enable state and country/territory picklists, the picklists are immediately available to users.

However, it can take some time for Salesforce to populate the ISO code fields on existing records. If users try to edit the state or country/territory on a record before the code field is populated, they're prompted to select a code value.

1. From Setup, enter *State and Country/Territory Picklists* in the Quick Find box, then select **State and Country/Territory Picklists**.

2. On the State and Country/Territory Picklists setup page, click **Enable Picklists for Address Fields** to turn on the picklists.

   > Note: You can also enable picklists when you finish converting existing, text-based data to picklist values. See Convert State and Country Data on page 9.

3. To turn off state and country/territory picklists, click **Disable** on the State and Country/Territory Picklists setup page.

   > Important: If you disable state and country/territory picklists:
   > - For records that you haven't saved since enabling picklists, state and country/territory values revert to their original text values.
   > - For records that you have saved since enabling picklists, state, country, and territory integration values replace original text values.
   > - References to state and country/territory picklists in customizations—such as workflow field updates, email templates, and Visualforce pages—become invalid.
   > - Columns and filters that refer to picklist fields in reports and list views disappear.

USING STATE AND COUNTRY/TERRITORY PICKLISTS

After you set up and enable state and country/territory picklists, users work with them in much the same way as they currently work with other address fields and picklists in Salesforce standard objects. They can add or edit their values in records, use them to create list views and reports, search on them, and more. In most cases, using state and country/territory picklists don't present a steep learning curve.

> 📝 **Note:** After enabling state and country/territory picklists, users can see state and country/territory field names appended with `(text only)`. This means that:
>
> - The field contains old state and country/territory text values that you specified before picklists were enabled. Or,
> - The field contains the integration value that you specified as a picklist value.
>
> Choose picklist fields instead of text-only fields (in reports, list views, and so on) to ensure more consistent display of your state and country/territory data.
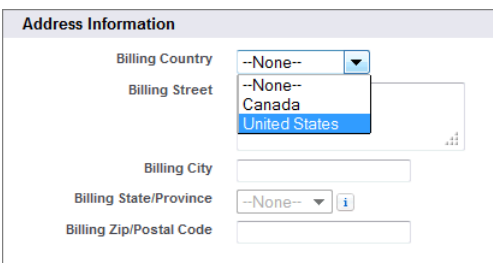
Creating Records Using State and Country/Territory Picklists

You can use state and country/territory picklists on all standard objects that have address fields. This means you can use them in records for accounts, campaign members, contacts, contracts, leads, person accounts, quotes, and service contacts. First you select the country, then the state or province.

1. Click the tab for a standard object, such as Accounts.
2. Click **New**.
3. For `Billing Country`, choose `United States`.

4. For `Billing State`, choose a state.

Creating List Views That Use State and Country/Territory Picklists

You can create and edit list views, reports, and use other business process features that are filtered by state and country/territory picklist values. For example, create a list view that displays only contacts with a mailing address in California or New York.

1. On the Contacts tab, click **Create New View**.

   First, select the filter criteria.

2. For Field, choose `Mailing State/Province`.

3. For Operator, choose `equals`.

4. For Value, click the lookup icon and select United States from the pop-up menu on the Lookup page. Then, select `California` and `New York` from the list of available states and click **Insert Selected**.
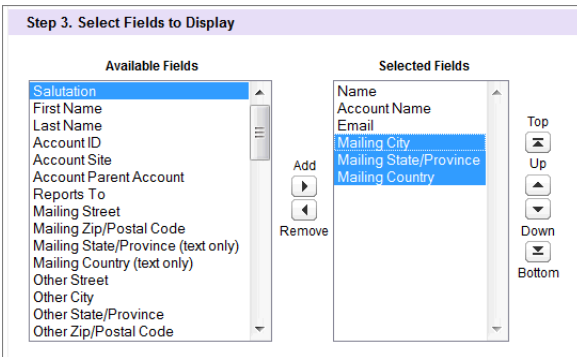

   Next, select the fields to display.

5. In the Available Fields list, select `Mailing City`, `Mailing State/Province`, `Mailing Country`, and add them to the Selected Fields list.

The resulting list view looks something like this.

Searching on State and Country/Territory Picklists

You can search on state and country/territory picklist values using the Advanced Search feature. For example, use Advanced Search to find all contacts in New York or all accounts in Nova Scotia.

1. Click **Advanced Search** in the sidebar.
2. Type a state or country/territory in the `Search` field. You can enter the two-character ISO code or the label. For example, search `NY` or `New York`.

    > 📝 **Note:** You can only search ISO codes of two or more characters. You can't search one-character codes.

3. Under Scope, select the object or objects you want to search.
4. Click **Search**.

Salesforce displays all of the records with those state or country/territory picklist values.

Useful Formulas for State and Country/Territory Picklists

Some of the formulas you relied on when working with text-based state and country/territory fields might not be necessary after you switch to picklists. For example, you don't need a formula to validate that a user has entered a legitimate two-digit state code, or that they've entered a state that is part of the specified country. Other formulas, whether they're used in validation rules or other business processes, might need to be updated to work with the `ISPICKVAL` operator.

> 📝 **Note:** You'll need to use `ISPICKVAL` with state and country/territory code values (rather than display values) to make comparisons on state and country/territory picklist fields after converting to state and country/territory picklists. For example, use

```
ISPICKVAL(ShippingCountryCode, "US") instead of ISPICKVAL(ShippingCountryCode, "United
States").
```

The following table provides an example of a formula that validates a five- or nine-digit ZIP code in a record that uses state picklists.

Field	Value
Description:	Validates that the account `Billing Zip/Postal Code` is in 99999 or 99999-9999 format if the `Billing Country` is the standard ISO picklist value for the United States.
Formula:	<pre>AND(
 OR(ISPICKVAL (BillingCountryCode, 'US')),
  OR(
   AND(LEN(BillingPostalCode) <>5,
      LEN(BillingPostalCode) <> 10),
   NOT(CONTAINS("0123456789",
      LEFT(BillingPostalCode, 1))),
   NOT(CONTAINS("0123456789",
      MID(BillingPostalCode , 2, 1))),
   NOT(CONTAINS("0123456789",
      MID(BillingPostalCode , 3, 1))),
   NOT(CONTAINS("0123456789",
      MID(BillingPostalCode , 4, 1))),
   NOT(CONTAINS("0123456789",
      MID(BillingPostalCode , 5, 1))),
   AND(
    LEN(BillingPostalCode) = 10,
   OR(
    MID(BillingPostalCode , 6, 1) <> "-",
    NOT(CONTAINS("0123456789",
      MID(BillingPostalCode , 7, 1))),
    NOT(CONTAINS("0123456789",
      MID(BillingPostalCode , 8, 1))),
    NOT(CONTAINS("0123456789",
      MID(BillingPostalCode , 9, 1))),
    NOT(CONTAINS("0123456789",
      MID(BillingPostalCode , 10, 1)))
)
)
)
)</pre>
Error Message:	ZIP code must be in 99999 or 99999-9999 format.
Error Location:	`Billing Zip/Postal Code`