# Currency Toolkit User Guide

## Introduction

Currency Toolkit provides advanced multi-currency support for Salesforce custom fields and custom objects. It addresses the limitation of Salesforce currency conversion, which is only supported in standard fields on standard objects and which also has some limitations, for example when rolling up converted opportunity product values.

Currency Toolkit allows you to convert currency or number fields, from any source currency into any destination currency, using any date field as the basis for the conversion rate.

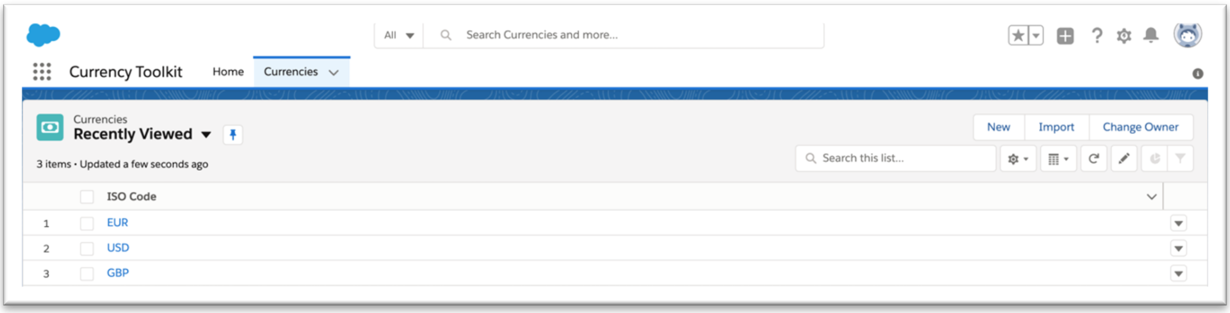
## Configuring Currency Toolkit

Configuring Currency Toolkit is done in two places:

1. Exchange Rates are set up in the main Salesforce user interface. There is a Currency Toolkit app which allows you to manage currencies and their rates.
2. Conversion profiles are set up using custom settings within Salesforce Setup.

### Setting Up Currencies

Navigate to the Currency Toolkit app using the App Launcher and click on the Currencies tab.

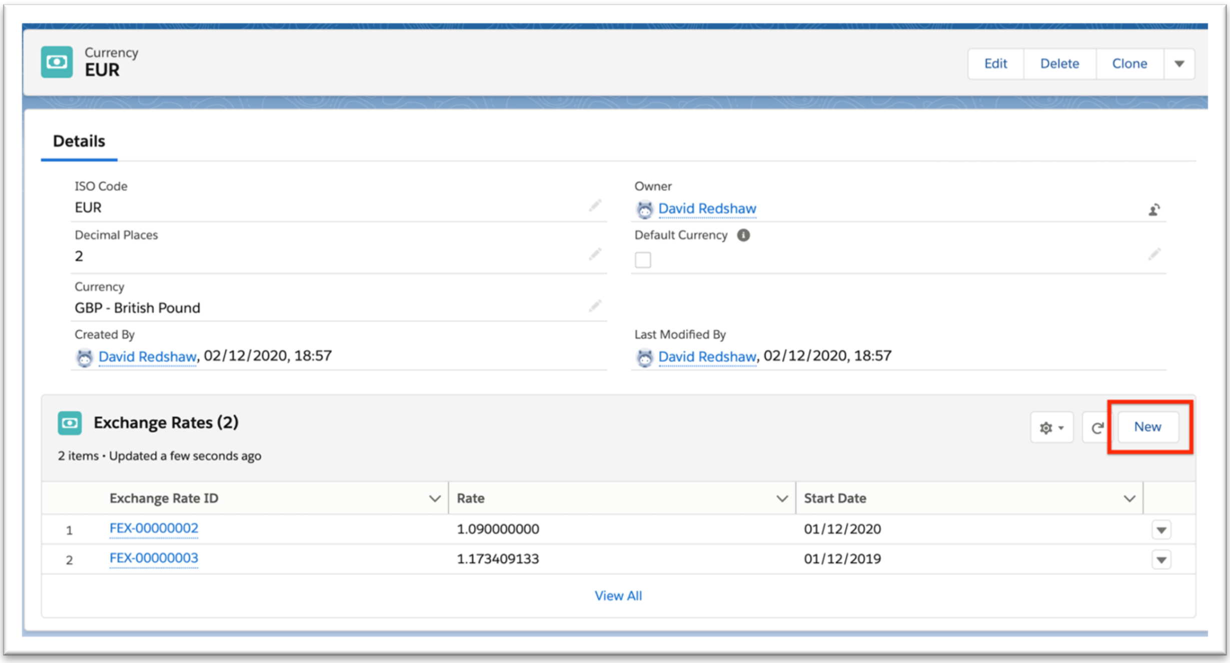



Use standard Salesforce functionality to create new currencies as required. There are some important points to note:

1. The Currency page has a **Default Currency** checkbox – you should tick this on your home currency.
2. You should use standard currency ISO codes in the ISO Code field.

Adding Exchange Rates to Currencies

Navigate to the relevant Currency page. There is a related list of Exchange Rates. Simply click the New button to add a new Exchange Rate:



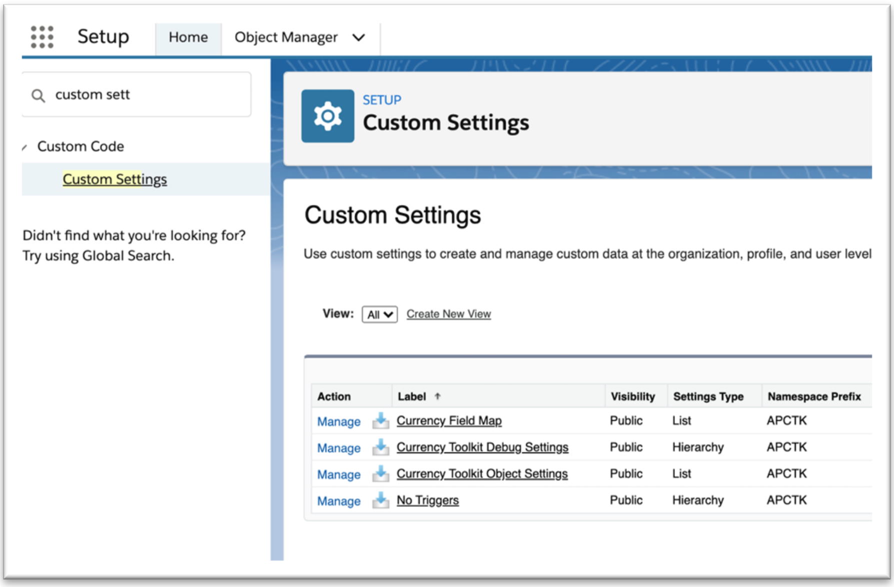

There are three fields on the Exchange Rate:

- Currency: Lookup field relating to the Currency that this Exchange Rate applies to.
- Rate: The rate, relative to the base currency.
- Start Date: The date from which this date becomes effective.

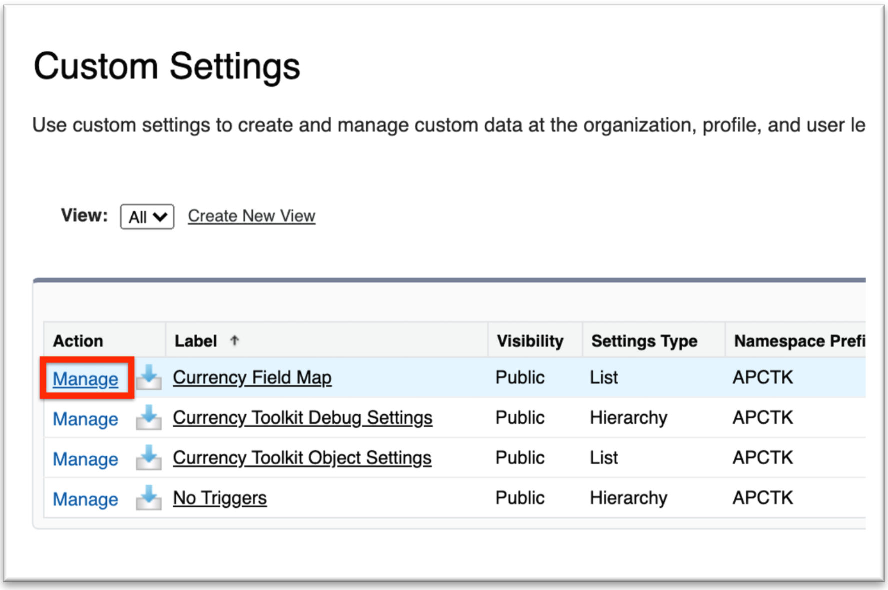
Currency Toolkit will use an Exchange Rate up to the next Start Date. We recommend you initially add default Exchange Rates with a Start Date of 01/01/1970 or a suitably early date that will cover all historic dates in your system.

## Configuring a Conversion

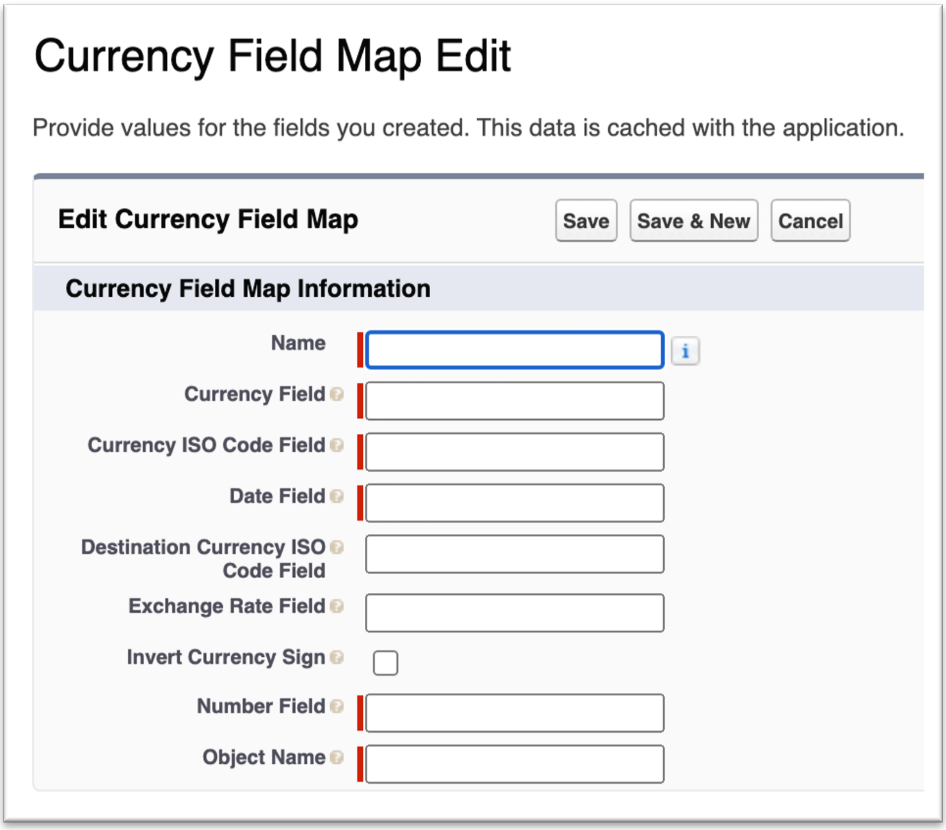
Open Salesforce Setup and search for **Custom Settings** to access the Custom Settings screen shown below.




Click the **Manage** link next to **Currency Field Map**, then click **New** to create a new record. You will need to create a new record for each conversion that you want the application to perform.




The screen below will allow you to configure the conversion for the required field.




You should populate the fields with details as follows:

- **Name**: This field is for your reference only. Use it so that you recognise each conversion easily in the user interface.
- **Currency Field**: Enter the API name of the field that contains the source value for conversion. Note that this field does not need to be a currency field. We recommend either a currency or number field.
- **Currency ISO Code Field**: Enter the API name of the field that contains the currency ISO code of the source value.
- **Date Field**: Enter the API name of the field that contains the date that you wish to use as the basis for conversion.
- **Destination Currency ISO Field**: Enter the API name of the field that contains the currency ISO code that you wish to convert into.
- **Exchange Rate Field**: If you would like to store the exchange rate that was used for conversion, enter the field API name here.
- **Invert Currency Sign**: If you would like to invert the value as it is converted, check this box. This may be used for reporting, where you may wish to display converted debits or credits using the alternative sign.
- **Number Field**: Enter the API name of the field where you would like to store the result of the conversion. **We recommend this is a number field because currency fields will display the record currency symbol**.
- **Object Name**: Enter the API name for the Object on which the conversion will operate.

## Troubleshooting

If currencies do not convert, please check the following:

- Are the Exchange Rate Field (if populated) and Number field both editable by the user editing the record. Currency Toolkit obeys user permissions.
- If you are using fields on a custom object, have you created the required trigger as detailed below.

## Enabling Conversion on Additional Objects

Currency Toolkit comes with built-in support for the following objects:

- Account
- Opportunity
- Opportunity Product
- Order
- Order Product

We are happy to add support for additional standard objects to the package – please contact us if you need this.

Alternatively, or for custom object support, you can easily create a trigger to add real time conversion. We have provided an example trigger and test class on the following page.

Example: Adding conversion to a custom object called Project (Project__c). We have highlighted items in red that you should change to match the name of your object.

Create a new trigger with the code below:

```
trigger ProjectCurrencyTrigger on Project__c (
      before insert,
      before update,
      before delete,
      after insert,
      after update,
      after delete,
      after undelete) {


CurrencyToolkitTriggerHandler.CurrencyToolkitConvert('Project__c');

}
```

You should also create a test class with the code below (if you have validation rules, or an autonumber Name field on the object, you may need to adjust this accordingly). Currency Toolkit already provides full test coverage for the trigger handler class provided with the application:

```
@IsTest
private class ProjectTriggerTest {


    @IsTest static void testTrigger() {

       Project__c testRecord = new Project__c(Name='Test Record');
       insert testRecord;

       System.assert(![SELECT Id FROM Project__c].isEmpty());

    }

}
```

## Additional Questions

**Can Currency Toolkit convert one value into multiple destination currencies?**

Yes – simply add multiple conversion profiles in the custom settings, using the same source fields but different destination fields.

**Can currency toolkit convert use dates or currency codes on related objects in performing the conversion?**

Yes – simply create a formula field referencing the value on the related object and enter the API name of the formula field  in the conversion profile.

**Can Currency Toolkit convert to a currency other than the default currency?**

Yes – simply enter the desired destination currency code field in the conversion profile. Currency Toolkit will convert via the base currency.