

## TaxInterest Engine™ Add-in for Excel

### I. Installation

To install and enable the TaxInterest Engine add-in:

1. Open Excel and enable add-ins if not already enabled.
2. Click on the attached file to unzip and install the TaxInterest Engine Add-in.
3. The functions of the TaxInterest Engine Add-in should now be available to use. If the TXIEngine does not appear in your list of available Add-ins within Excel, follow these steps (steps may vary depending on your version of Excel):
  - a. Go to the File menu and choose **Options** to display the Excel Options dialog
  - b. On the left side of the dialog, click **Add-Ins**
  - c. In the Manage field at the bottom of the dialog, select **Excel Add-Ins** and click **Go**
  - d. In the Add-Ins dialog, click **Browse** and navigate to the directory where the TaxInterest Engine is installed (e.g., C:\TXIEngine)
  - e. Select **TXIEngine.xla**

To see an example of some TaxInterest Engine functions within a spreadsheet:

1. Navigate to the directory where you installed the TaxInterest Engine Add-in (e.g., C:\TXIEngine)
2. Open the example spreadsheet titled **TXIEngineFin48Example01.xls**

### II. TaxInterest Engine Add-in Functions

The functions currently contained within the TaxInterest Engine Add-in are listed below along with the required parameters for each function.

Function Name	Function Description	Function Parameters
TXIBALANCE	Returns the balance (principal plus interest) of a given position on a given date	<b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file) <b>Amount</b> – Initial amount of the position, >0 for tax, <0 for overpayment <b>EventDate</b> – Date of position, starting date for interest computation <b>ComputeDate</b> – Compute date, ending date for interest computation
TXIBALANCEGATT	Returns the balance (principal plus interest) of a given position on a given date, with GATT enabled	<b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file) <b>Amount</b> – Initial amount of the position, >0 for tax, <0 for overpayment <b>EventDate</b> – Date of position, starting date for interest computation <b>ComputeDate</b> – Compute date, ending date for interest computation

TXIBALANCEHOT	Returns the balance (principal plus interest) of a given position on a given date, with Hot Interest	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>Amount</b> – Initial amount of the position, &gt;0 for tax, &lt;0 for overpayment</p> <p><b>EventDate</b> – Date of position, starting date for interest computation</p> <p><b>ComputeDate</b> – Compute date, ending date for interest computation</p> <p><b>HotInterestStartDate</b> – Hot Interest start date</p>
TXIBALANCEHOT2	Returns the balance (principal plus interest) of a given position on a given date, with Hot Interest and Hot Interest restart	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>Amount</b> – Initial amount of the position, &gt;0 for tax, &lt;0 for overpayment</p> <p><b>EventDate</b> – Date of position, starting date for interest computation</p> <p><b>ComputeDate</b> - Compute date, ending date for interest computation</p> <p><b>HotInterestStartDate</b> – Hot Interest start date</p> <p><b>HotInterestRestartDate</b> – Hot Interest restart date</p>
TXIBALANCEMULTIPLE	Returns the balance (principal plus interest) of a set of given positions on a given date. The last two parameters may be repeated as needed to describe multiple events.	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>ComputeDate</b> - Compute date, ending date for interest computation</p> <p><b>Amount</b> – Initial amount of the first position, &gt;0 for tax, &lt;0 for payment</p> <p><b>EventDate</b> – Date of the first position</p>
TXIINTERESTTODATE	Returns the interest on a given position on a given date	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>Amount</b> – Initial amount of the position, &gt;0 for tax, &lt;0 for overpayment</p> <p><b>EventDate</b> – Date of position, starting date for interest computation</p> <p><b>ComputeDate</b> – Compute date, ending date for interest computation</p>
TXIINTERESTTODATEGATT	Returns the interest on a given position on a given date, with GATT enabled	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>Amount</b> – Initial amount of the position, &gt;0 for tax, &lt;0 for overpayment</p> <p><b>EventDate</b> – Date of position, starting date for interest computation</p> <p><b>ComputeDate</b> – Compute date, ending date for interest computation</p>
TXIINTERESTTODATEHOT	Returns the interest on a given position on a given date, with Hot Interest	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>Amount</b> – Initial amount of the position, &gt;0 for tax, &lt;0 for overpayment</p> <p><b>EventDate</b> – Date of position, starting date for interest computation</p> <p><b>ComputeDate</b> – Compute date, ending date for interest computation</p> <p><b>HotInterestStartDate</b> – Hot Interest start date</p>

TXIINTERESTTODATEHOT2	Returns the interest on a given position on a given date, with Hot Interest and Hot Interest restart	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>Amount</b> – Initial amount of the position, &gt;0 for tax, &lt;0 for overpayment</p> <p><b>EventDate</b> – Date of position, starting date for interest computation</p> <p><b>ComputeDate</b> - Compute date, ending date for interest computation</p> <p><b>HotInterestStartDate</b> – Hot Interest start date</p> <p><b>HotInterestRestartDate</b> – Hot Interest restart date</p>
TXIINTERESTTODATEMULTIPLE	Returns the interest on a given set of positions on a given date. The last two parameters may be repeated as needed to describe multiple events.	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>ComputeDate</b> - Compute date, ending date for interest computation</p> <p><b>Amount</b> – Initial amount of the first position, &gt;0 for tax, &lt;0 for payment</p> <p><b>EventDate</b> – Date of the first position</p>
TXIQUARTERLYINT	Returns the interest on a given position accrued during a given calendar quarter	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>Amount</b> – Initial amount of the position, &gt;0 for tax, &lt;0 for overpayment</p> <p><b>EventDate</b> – Date of position, starting date for interest computation</p> <p><b>Year</b> – Year of interest (e.g., 2013)</p> <p><b>Quarter</b> – Quarter of interest (1-4)</p>
TXIQUARTERLYINTGATT	Returns the interest on a given position accrued during a given calendar quarter, with GATT enabled	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>Amount</b> – Initial amount of the position, &gt;0 for tax, &lt;0 for overpayment</p> <p><b>EventDate</b> – Date of position, starting date for interest computation</p> <p><b>Year</b> – Year of interest (e.g., 2013)</p> <p><b>Quarter</b> – Quarter of interest (1-4)</p>
TXIQUARTERLYINTHOT	Returns the interest on a given position accrued during a given calendar quarter, with Hot Interest	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>Amount</b> – Initial amount of the position, &gt;0 for tax, &lt;0 for overpayment</p> <p><b>EventDate</b> – Date of position, starting date for interest computation</p> <p><b>Year</b> – Year of interest (e.g., 2013)</p> <p><b>Quarter</b> – Quarter of interest (1-4)</p> <p><b>HotInterestStartDate</b> – Hot Interest start date</p>

TXIQUARTERLYINTHOT2	Returns the interest on a given position accrued during a given calendar quarter, with Hot Interest and Hot Interest restart	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>Amount</b> – Initial amount of the position, &gt;0 for tax, &lt;0 for overpayment</p> <p><b>EventDate</b> – Date of position, starting date for interest computation</p> <p><b>Year</b> – Year of interest (e.g., 2013)</p> <p><b>Quarter</b> – Quarter of interest (1-4)</p> <p><b>HotInterestStartDate</b> – Hot Interest start date</p> <p><b>HotInterestRestartDate</b> – Hot Interest restart date</p>
TXIQUARTERLYINTMULTIPLE	Returns the interest on a given set of positions accrued during a given calendar quarter. The last two parameters may be repeated as needed to describe multiple events.	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>ComputeDate</b> - Compute date, ending date for interest computation</p> <p><b>Amount</b> – Initial amount of the first position, &gt;0 for tax, &lt;0 for payment</p> <p><b>EventDate</b> – Date of the first position</p>
TXIPERIODINT	Returns the interest on a given position accrued during a given period	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>Amount</b> – Initial amount of the position, &gt;0 for tax, &lt;0 for overpayment</p> <p><b>EventDate</b> – Date of position, starting date for interest computation</p> <p><b>PeriodStartDate</b> – Start date of the period of interest</p> <p><b>PeriodEndDate</b> – End date of the period of interest</p>
TXIPERIODINTGATT	Returns the interest on a given position accrued during a given period, with GATT enabled	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>Amount</b> – Initial amount of the position, &gt;0 for tax, &lt;0 for overpayment</p> <p><b>EventDate</b> – Date of position, starting date for interest computation</p> <p><b>PeriodStartDate</b> – Start date of the period of interest</p> <p><b>PeriodEndDate</b> – End date of the period of interest</p>
TXIPERIODINTHOT	Returns the interest on a given position accrued during a given period, with Hot Interest	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>Amount</b> – Initial amount of the position, &gt;0 for tax, &lt;0 for overpayment</p> <p><b>EventDate</b> – Date of position, starting date for interest computation</p> <p><b>PeriodStartDate</b> – Start date of the period of interest</p> <p><b>PeriodEndDate</b> – End date of the period of interest</p> <p><b>HotInterestStartDate</b> – Hot Interest start date</p>

TXIPERIODINTHOT2	Returns the interest on a given position accrued during a given period, with Hot Interest and Hot Interest restart	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>Amount</b> – Initial amount of the position, &gt;0 for tax, &lt;0 for overpayment</p> <p><b>EventDate</b> – Date of position, starting date for interest computation</p> <p><b>PeriodStartDate</b> – Start date of the period of interest</p> <p><b>PeriodEndDate</b> – End date of the period of interest</p> <p><b>HotInterestStartDate</b> – Hot Interest start date</p> <p><b>HotInterestRestartDate</b> – Hot Interest restart date</p>
TXIPERIODINTMULTIPLE	Returns the interest on a given set of positions accrued during a given period. The last two parameters may be repeated as needed to describe multiple events.	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>ComputeDate</b> - Compute date, ending date for interest computation</p> <p><b>Amount</b> – Initial amount of the first position, &gt;0 for tax, &lt;0 for payment</p> <p><b>EventDate</b> – Date of the first position</p>
TXITABLEENDDATE	Returns a string representing the last day for which the given rate table contains valid rate information	<p><b>Jurisdiction</b> – Name of jurisdiction for which to determine end date (also name of .TB3 file)</p>
TXIF2FILEPENALTYBALANCE	Returns the penalty balance (penalty plus interest) of a given position on a given date	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>Amount</b> – Initial amount of the position</p> <p><b>ExtendedDueDate</b> – Original due date, including extensions</p> <p><b>DateReceived</b> – Date IRS received return</p> <p><b>ComputeDate</b> – Compute date, ending date for interest computation</p>
TXIF2PAYPENALTYBALANCE	Returns the penalty balance (penalty plus interest) of a given position on a given date	<p><b>Jurisdiction</b> – Name of jurisdiction to determine rate (also name of .TB3 file)</p> <p><b>Amount</b> – Initial amount of the position</p> <p><b>DueDate</b> - Original due date</p> <p><b>ComputeDate</b> – Compute date, ending date for interest computation</p>