# Tax Engine (Dynamics 365 for Operations)

This document will help you learn how to import and modify tax configurations from a Microsoft Dynamics Lifecycle Services (LCS) asset library.

Demo script Suzhen Zheng May 2017

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# Tax Engine (Dynamics 365 for Operations)

The new Tax Engine is an essential part of the configurable business application experience in Microsoft Dynamics 365 for Operations. The new Tax Engine is highly customizable. A business user, functional consultant, or power user can configure tax rules that determine tax applicability, tax calculation, tax posting, and tax settlement, based on legal and business requirements.

# Concepts

**Tax document:** A tax document is a transaction where tax details (lines and amounts) and the tax amount are distributed in a manner that is ready for consumption by any accounting system or framework.

# Tax applicability

**Tax type:** A tax type is analogous to a tax regime. For example, sales tax and value-added tax (VAT) are two of the most common sales tax types. Tax types are applicable only when specific conditions (**applicability rules**) are met.

**Tax components:** Tax components are like sub-tax types that a tax authority can levy within the same jurisdiction or a different jurisdiction. For example, in the US, sales tax is levied at different levels of jurisdiction, such as the state, country, or city level. Different tax components can be treated differently from accounting, tax reporting, tax settlement, and other perspectives.

### Tax calculation

**Measures:** Measures are the computation blocks for tax calculation. Measures can be of different types (**measure types**). The various measure types have different behavior and are used for different computational purposes. The following measure types are available:

- **Base Amount:** This measure type should be used to hold the amount that is the basis for tax calculation. Typically, **Base Amount** × **Rate** = **Tax Amount**.
- **Rate:** This special measure type is used to provide the applicable tax rate. It's a compound measure type and can also be used to hold threshold amount values as required.
- **Factor:** This special measure type is a subset measure type of **Rate**. It can be used to hold threshold amount values as required.
- **Tax Amount:** This measure type = **Base Amount** × **Rate**. This amount should then be distributed for accounting purposes as required.
- **Amount:** This measure type should be used for distributed tax amounts, such as the tax recoverable amount and the load on inventory amount.
- **Percentage:** This simple measure type can be used to hold any percentage values. Typically, it should be used for cases such as load on inventory percentage or expense percentage.

**Formulas:** After the measures have been defined, they can be used to create the tax calculation formulas. The formulas can be created in two notations:

- Simple assignment notation: For typical scenarios.
- Advanced linear equations: Specifically for price-inclusive tax calculation scenarios, such as Maximum retail price (MRP).

Additionally, formulas might have to be used conditionally. In this case, the user should add appropriate business conditions.

#### Key model attributes that should be assigned for calculation

The following table lists reserved keywords for attributes. When you create a new taxable document model, make sure that the model's attributes are defined as specified in the following table.

Attribute name	Data type
Base Amount	Real
Price includes tax	Real
Tax amount included in price	Real
Line tax amount	Real

These attributes are available in the Taxable Document (India) model that is provided by Microsoft.

- Base Amount: This attribute is an output attribute and is used as the base amount for tax calculation.
- **Price includes tax:** This attribute is more like a flag that tells the engine that the tax amount is included in the line amount.
- **Tax amount included in price:** This attribute is the tax amount that should be considered as included in the price, per the business practice or statutory laws. The engine uses this value to determine the invoice line amount and the amount that should be considered during accounting.
- Line tax amount: This attribute is the tax amount that is computed for the line. This value will remain the same across the price-exclusive and price-inclusive scenarios. Withholding tax amounts should not typically be considered when this attribute is initialized.

The following scenarios show how these attributes should be initialized and used in the tax document configuration.

#### Price-inclusive scenario

'Base Amount' = 'Assessable Value' – CGST.'Tax Amount' – 'SGST'.'Tax Amount' – 'IGST'.'Tax Amount' – CESS.'Tax Amount' – CGST\_TDS.'Tax Amount' – SGST\_TDS.'Tax Amount' – IGST\_TDS.'Tax Amount' – CESS\_TDS.'Tax Amount'

'Price includes tax' = 1.0

'Line tax amount' = CGST.'Tax Amount' + 'SGST'.'Tax Amount' + 'IGST'.'Tax Amount' + 'CESS'.'Tax Amount' + CGST\_TDS.'Tax Amount' + SGST\_TDS.'Tax Amount' + IGST\_TDS.'Tax Amount' + CESS\_TDS.'Tax Amount'

'Tax amount included in price' = CGST.'Tax Amount' + 'SGST'.'Tax Amount' + 'IGST'.'Tax Amount' + 'CESS'.'Tax Amount' + CGST\_TDS.'Tax Amount' + SGST\_TDS.'Tax Amount' + IGST\_TDS.'Tax Amount' + CESS\_TDS.'Tax Amount'

#### Price-exclusive scenario

'Base Amount' = 'Assessable Value'

```
'Price includes tax' = 0.0
```

'Line tax amount'=CGST.'Tax Amount' + 'SGST'.'Tax Amount' + 'IGST'.'Tax Amount'+BCD.'Tax Amount' + 'ECESS C'.'Tax Amount' + 'SHECESS C'.'Tax Amount' + 'CESS'.'Tax Amount' + CGST\_TDS.'Tax Amount' + SGST\_TDS.'Tax Amount' + IGST\_TDS.'Tax Amount' + CESS\_TDS.'Tax Amount'

For the price-exclusive scenario, the engine implicitly initializes the **Tax amount included in price** attribute to **0** (zero). Therefore, the equation doesn't have to be written explicitly.

# Tax accounting

**Tax accounting provider:** A tax accounting provider is the subledger that will be affected in the tax accounting scenario. For example, in the purchase flow, if tax must be paid to the vendor as part of the vendor invoice, the tax accounting provider will be **Party/Vendor**. Currently the following providers are supported:

- Party
- Inventory
- Tax
- Ledger

**Posting types:** When the Tax subledger is affected as part of the tax accounting process, the tax amount must be distrusted further for settlement, reporting, costing, and similar purposes. The list can also vary because of country/region-specific regulations that are based on tax types. For India, of the following posting types are supported:

- Tax Recoverable
- Tax Payable
- Tax Expense
- Interim Tax Payable
- Interim Tax Recoverable

# Tax credit pool



When the preceding configuration is used, the tax recoverable and payable amount will be accumulated on each of tax credit pool.

# Set-off rule

A set-off rule indicates how the tax recoverable should be used to set off tax payable. The following table shows the setup details.

Recoverable side	Payable side
IGST	IGST
	CGST
	SGST
CGST	CGST
	IGST
SGST	SGST
	IGST
CESS	CESS
CGST_TDS	CGST
SGST_TDS	SGST
IGST_TDS	IGST
CESS_TDS	CESS_TDS

# Prerequisites

- 1 Make sure that Microsoft Dynamics 365 for Operations version 1611 has been deployed, and that the Goods and Services Tax (GST) hotfix has been installed.
- 2 Switch to the INMF company context.

# Copy the GST configurations

- 1 On the computer that runs Dynamics 365 for Operations, create a folder, such as c:\India GST Configurations.
- 2 Put the GST configurations in c:\India GST Configurations.

# Activate the tax configurations

**1** Go to **Organization administration** > **Electronic reporting**.

Dynamics AX		
Expense management	▲ Workspaces	Global address book
Fleet management		Global address book parameters
Form Overlayering Test	Resource lifecycle	Address books
Foundation Forms Test	Thanagement	Name sequences
General ledger	Electronic reporting	Relationship types
Human resources Inventory management	Electronic reporting	Address and contact information purpose
Master planning		Translations
Organization administration Payroll	Session date and time Select currency	Addresses
Procurement and sourcing	Number sequences	Registration types
Product information management	Number sequences	▲ Resources
Production control	Segment configuration	

2 Click Electronic reporting parameters.

Localization configurations			
Configurations	Solutions		Related links
Reporting configurations	Microsoft http://microsoft.com	^	Solutions Electronic reporting destination Electronic reporting parameters Functional/Feature area tags Industry tags Localization blueprint Enable India GST Import GST configurations

3 On the Attachments tab, set the Configurations field to File.

 Dynamics 365 $\checkmark$ Operations		DAT	Q	Þ
☐ Save OPTIONS $P$				
Electronic reporting pa	arameters			
General	Document types			
Attachments	Configurations     Job archive     Others     Temporary       File     V     File     File     File		$\sim$	

- 4 Close the page.
- 5 Click Enable India GST.

Dynamics 365 V Operations		
OPTIONS P		
Electronic reporting Configurations	Configuration providers	Related links Configuration providers
Reporting configurations	Repositories ✓ Set active	Electronic reporting destination Electronic reporting parameters Functional/Feature area tags Industry tags Localization blueprint Enable India GST

6 Set the Enable GST option to Yes, and then click OK in the message box.



7 Set the Work directory field to the folder where the India GST configurations are saved.

### Enable India GST Enable GST Yes Work directory C:\India GST Configurations

- 8 Click OK.
- 9 Click Import GST configurations to import the configurations.

Localizatio	n configura	ations			
Configurations		Solutions			Related links
Reporting configurations	Tax configurations	M htt	icrosoft p://microsoft.com	Î	Solutions Electronic reporting destination Electronic reporting parameters Functional/Feature area tags Industry tags Localization blueprint Enable India GST Import GST configurations

#### 10 Click Import.



11 Click Yes.

Are you sure you want to import the '43.85.131' version of the 'Tax (India GST)' configuration and all its parent and related configuration versions recursively from the repository?



#### 12 Click Solutions.

	Dynamics 365 🗸	Operations		
=	OPTIONS ,O			
	Localization Configurations	configurati	ONS Solutions	Related links
	Reporting configurations	Tax configurations	✓ Microsoft http://microsoft.com	Solutions     Electronic reporting destination     Electronic reporting parameters     Functional/Feature area tags     Industry tags     Localization blueprint     Enable India GST     Import GST configurations

**13** Create a new solution, and enter the required information.

Solutions	
Filter	
Name	Internet address
Contoso	http://contoso.com
Microsoft	http://microsoft.com

#### 14 Click Set active to activate your solution.

Localizatio	n configura	ations			
Configurations		Solutio	ns		Related links
			Contoso	^	Solutions Electronic reporting destination
Reporting	Тах	$\sim$	http://contoso.com		Electronic reporting parameters
configurations	configurations	V Set a	active		Functional/Feature area tags
			Microsoft http://microsoft.com		Localization blueprint
					Enable India GST

# Define the tax configuration for GST

- 1 Configure a taxable document model, or use the taxable document model that Microsoft or your partner provided.
- **2** Use another taxable document model to extend the taxable document model so that it supports specific tax requirements, as required. Again, you can use the taxable document that Microsoft or your partner provided.
- **3** Any attribute that is relevant to any of the tax pillars (tax applicability, calculation, posting, or settlement) should form part of one of the taxable document models, based on the scope of the attribute.
- 4 Configure the tax document model by extending the next-to-last taxable document model.

The tax document model should have the following characteristics:

- Applicability:
  - All the applicable tax types
  - All the applicable tax components
  - Applicability rules for the tax types and tax components
- Formulas:
  - Rate and Percentage measure types, and any lookup structures
  - All the tax calculation logic for all the tax types and tax components, together with any conditions
  - All the tax distribution formulas, together with any conditions
- Accounting:
  - Define the accounting treatment for the computed tax amount and distributed tax amounts, together with the conditions when this accounting treatment should be applied.
  - For the lookup, define attributes that the business uses to determine the main account that the distributed tax amounts should be accounted to.

# Scenario: Extend the tax configuration

Contoso manufactures and sells goods and services in India, and these transactions are subject to several taxes. In this scenario, you will learn how to configure Contoso's tax requirements for the **GST** tax type for extra components.

### Task 1.1: Create an extension configuration

- 1 Open the Localization configurations workspace.
- 2 Click Tax configurations.

3 Navigate to the Tax (India GST) configuration, and then click Create configuration.



**4** Select the **Derive from Tax configuration** option, and then enter the name of the configuration, e.g. Tax (India GST contoso).

+ Create configuration $ imes$	ᆒ Delete
Create configuration	
New	
Derive from Tax configuration	ation
Name	
Tax (India GST contoso)	
Description	
Configuration provider	
Cotoso	
Create configuration	

### Task 1.2: Add new tax components

- 1 Navigate to the Tax (India GST contoso) configuration, and then click Designer.
- 2 Navigate to the Tax document/Header/Lines/GST node, click Add, and then click Tax component.

$+$ Add $\sim$	🗓 Delete	↑ Move up	
Add			
🔺 Tax d	ocument		
Тах	component		

- **3** Enter a name and description for the component:
  - Name: CESS-CGST
  - **Description:** CESS CGST

Parameters		^
Name	Description	
CESS-CGST V	CESS CGST	

- 4 Click OK.
- **5** Save the configuration.

# Task 1.3: Configure measures

1 Navigate to the Tax document/Header/Lines/GST/CESS-CGST node, click Add, and then click Tax measure.

🔚 Save	Expert mode	Validate	OPTIONS
тах (іме Тах	documer	nt	
+ Add	i 🗸 📋 Delete	1 Move	up
Add			
4	Tax document		
	Tax measure		

2 Add a new measure, or select an existing measure in the list.

- **3** Add the following measures:
  - Base Amount
  - Rate
  - Tax Amount

Tax (INDIA GST CONTOSO) : 1 Tax document		
$+$ Add $\checkmark$ $+$ Add Tax measure $\cdots$	PROPERTIES LOOKUPS FORMULA	S
<ul> <li>Tax document</li> </ul>	Туре	
▲ Header	Tax measure	
<ul> <li>Lines</li> </ul>	Name	
Custom Duty	Base Amount	
▲ GST	Description	
▷ CGST		
▷ SGST	Tax measure type	
▷ IGST	Base amount	
✓ CESS-CGST	:	
Base Amount		
Rate		
Tax Amount		
Miscellaneous Charge Line		

- **4** Save the configuration.
- 5 Advanced scenario: Add measures for load on inventory:
  - Load on Inventory Percentage
  - Load on Inventory Amount
  - Load on Inventory Remaining Amount

# Task 1.4: Configure tax applicability lookups

- 1 Navigate to the Tax document/Header/Lines/GST/CESS-CGST node, and then click the Lookups tab.
- 2 Click Columns.

#### 3 Select Inter-State and HSN code as lookup columns.

I ADIEIO		$\rightarrow$	SELECTED COLUMNS	$\uparrow$
Tax Account Number(TAN)	^	$\leftarrow$	Inter-State	$\downarrow$
Tax Identification Number			ITSIN Code	
Transaction Currency				
Transaction Date				
VAT Commodity Code				
VAT Item Type				
VAT Schedule				
Nature of Goods and Service				
Residency Status	:			
Section Code				
Tax Document Purpose				
Price includes tax				
Line tax amount				
Tax amount included in price				
Exempt				
GST Registration Number	а.			
HSN Code	~			
SAC >				

- 4 Click OK.
- 5 Set the **Source type** field to **User data**.

Details			
ource type			
Jser data 🗸 🗸			
Columns 🕂 Add 볩 Delete			
Line Inter-State	HSN Code		
	We didn't f	ind anything	
	to sho	w here.	

**6** Save the configuration.

# Task 1.5: Configure formulas

Formulas can be configured at the level of either group nodes (line, tax component, or tax type) or measure nodes. We recommend that you always configure tax calculation formulas at the group node level. You can configure tax amount distribution formulas at either the group node level or the measure node level.

- 1 Navigate to the Tax document/Header/Lines/GST/CESS-CGST node, and then click the Formulas tab.
- 2 Click Add Tax formula.
- 3 In the **Details** section, click **Edit** (the pencil symbol) to enter the formula.

For our example, add the following formulas for CESS-CGST:

- 'Base Amount'=CGST.'Tax Amount'
- 'Tax Amount'='Base Amount'\*'Rate'
- 4 Optional: Enter a description for the formula.
- 5 Save the tax document. The formulas should appear as shown in the following screenshot.

	Dynamics 365 🗸	Operation	s								l	JSMF	Q	Þ	٢	٢
=	Save Show details	Validate OP	TIONS	Q											J	00
7	tax (india gst contoso) Tax docume	nt														
	$+$ Add $\vee$ $+$ Add Ta	x measure		PROPER	TIES	LOOKUPS FO	RMULAS	POSTING	GS ACCOUNT	ING CREDIT POO	DL TAX PER	IOD				
	∡ Tax document			Over	view											
	✓ Header			+ Add	Tax forn	nula 볩 Delete	e 个 Move	eup↓	Move down							
	▲ Lines			-	Sort order	Description			Formula		Condition					
	Custom Duty				1	Base amount			'Base Amount'	=Lines.'Base Amo						
	⊿ GST				2	Tax amount			'Tax Amount'='	'Base Amount'*R						
	▷ CGST															
	▷ SGST			$\square$												)
	▹ IGST			Detai	ls											
	CESS-CGST		:	Formula	a category											
	Base Amo	unt		Calcu	lation	$\sim$										
	Rate			Û	Ø Fo	rmula										
	Tax Amou	nt			16	Base Amount'=0	CGST.'Tax A	mount'								
	Miscellaneou	is Charge Line														
				ĨĤ	O Co	ondition										
				_												
				Descrip	tion											

- 6 Navigate to the Tax document/Header/Lines node, and then click the Formulas tab.
- 7 Update the Tax amount Exclusive formula as shown here:

'Line tax amount'=CGST.'Tax Amount' + 'SGST'.'Tax Amount' + 'IGST'.'Tax Amount' + BCD.'Tax Amount' + 'IGST CVD'.'Tax Amount' + 'ECESS C'.'Tax Amount' + 'SHECESS C'.'Tax Amount' + <mark>'CESS-CGST'.'Tax Amount'</mark>

- 8 Repeat step 7 to update other formulas accordingly.
- **9** Save the configuration.

10 Advanced scenario: Add formulas for load on inventory measures:

- 'Load on Inventory Amount'='Tax amount'\*'Load on Inventory Percentage'
- 'Load on Inventory Remaining Amount'='Tax amount'-'Load on Inventory Amount'

# Task 1.6: Configure rate/percentage lookups

- 1 Navigate to the Tax document/Header/Lines/GST/CESS-CGST/Rate node, and then click the Lookups tab.
- 2 As you did for lookups of the **Tax document/Header/Lines/GST/CESS-CGST** node, click **Columns** to add columns that determine the rate. Because the rate of CESS-CGST is fixed at 10 percent, no columns are required here.

**Note:** Values that you enter here have no effect on the actual rate table. This table should be set up in the ERP system.

- **3** Save the configuration.
- 4 Advanced scenario: Add a lookup for the load on inventory percentage:
  - HSN code column

### Task 1.7: Configure a posting profile

Tax component nodes support a posting profile definition.

- 1 Navigate to the Tax document/Header/Lines/GST/CESS-CGST node, and then click the Postings tab.
- 2 Click Add Posting profile to create a posting profile definition.
- 3 Enter Purchase-Registered dealer as the description of the posting profile.

PROPERTIES	LOOKUPS	FORM	ULAS POSTIN	GS ACCOUNTIN	G CREDIT POC	DL TAX PERIOD				
+ Add Posting profile III Delete ↑ Move up ↓ Move down										
Sort orde	r Description	1		Postings		Condition				
	Purchase-	Register	ed dealer	Tax Amount:Tax F	Recoverable/In	AND(NOT(Header	Lines.'Party G			
Details										
🕂 Add  🗎 D	+ Add 🔟 Delete 🖉 Edit									
Tax measure 1			Debit		Credit					
Tax Amount		$\sim$	Tax Recoverable	~	Vendor	~				

- 4 On the **Details** tab, click **Add**.
- 5 Enter the accounting treatment for the various tax measures that you defined in the previous task.
- 6 Enter the names of debit and credit accounting subledgers.

7 Add the following condition for the posting profile:

AND(NOT(Header.Lines.'Party GST Registration Number'=""), Header.Lines.'Tax Direction'="Sales tax receivable", Header.Lines.Postable="Yes", Header.'Taxable Document Type'<>"Invent transfer order receive", Header.'Taxable Document Type'<>"General ledger - vendor payment")



- **8** Save the configuration.
- 9 Advanced scenario: Adding postings for the following scenarios:
  - Purchase Unregister dealer
  - Sales invoice

### Task 1.8: Configure accounting lookups (Optional)

Tax type and tax component nodes support an accounting lookup definition.

- 1 Navigate to the Tax document/Header/Lines/GST/CESS-CGST node, and then click the Accounting' tab.
- 2 Click **Columns**, and then follow steps 3 through 4 in task 1.4 to add **Consumption State Code** as a lookup column for accounting.



We didn't find anything to show here.

**Note:** Don't click **Add**. Values that you enter here have no effect on the actual rate table. This table should be set up in the ERP system.

**3** Save the configuration.

# Task 1.9: Configure a credit pool

Tax component nodes support a credit pool lookup definition.

- 1 Navigate to the Tax document/Header/Lines/GST/CESS-CGST node, and then click the Credit Pool tab.
- 2 Click **Columns**, and then follow steps 3 through 4 in task 1.4 to add **GST Registration Number** as a lookup column for the credit pool that will be used for tax settlement.

PROPERTIES	LOOKUPS	FORMULAS	POSTINGS	ACCOUNTING	CREDIT POOL	TAX PERIOD
Details						
Columns	+ Add 📋 🛙	Delete				
	ine GST Regist	ration Number				

**Note:** Don't click **Add**. Values that you enter here have no effect on the actual rate table. This table should be set up in the ERP system.

**3** Save the configuration.

# Task 1.10: Configure a tax period lookup (Optional)

Tax component nodes support a tax period lookup definition.

- 1 Navigate to the Tax document/Header/Lines/GST/CESS-CGST node, and then click the Tax period tab.
- 2 Click **Columns**. A list of attributes that are relevant to the tax period of this component appears. For example, a relevant attribute might be the tax registration number. Additionally, tax authorities and periods might have to be defined for each state. In this case, the same GST setup must be mapped to multiple tax authorities and periods.

For our example, we don't have to add any column for the tax period.

**Note:** Don't click **Add**. Values that you enter here have no effect on the actual rate table. This table should be set up in the ERP system.

**3** Save the configuration.

# Task 1.11: Complete the tax document configuration

- 1 Save the configuration, and close the designer.
- 2 In the Configurations workspace, click Change status, and then select Complete.

Versions								43.85.131.1	Initial version
Change status	Delete	Get this version	Compare with o	draft	Run	Rebase	Exchang	e Atta	achments
Complete	Status	Effective fr	om	Version	created			Description	
Discontinue	Draft			3/24/2	017 04:0	3:34 AM		Initial version	
Share									

- 3 Click OK.
- 4 If there are any errors, open the designer, click Validate, and fix the errors.

- 5 Repeat steps 1 through 4 until no errors occur.
- 6 After the status is updated to **Complete**, the configuration is ready for deployment.

### Task 1.12: Download the tax document configurations

- 1 In the **Versions** grid, select the completed configuration.
- 2 Click Change status, and then select Share.

Versions							43	.85.131.1 Initial version
Change status	Delete	Get this version	Compare with o	Iraft	Run	Rebase	Exchange	Attachments
Discontinue	Status	Effective	from	Version	created		Desc	ription
Share	Draft			3/24/2	017 04:	08:22 AM		
43.85.131.1	Completed			3/24/2	017 04:	08:22 AM	Initia	al version

#### 3 Click Yes.

Are you sure you want to upload the 'Tax (India GST contoso)' configuration 43.85.131.1 version and all it's parent configuration versions recursively into the 'Tax file system' repository?



**Note:** The configurations will be saved in the "c:\India GST configurations folder. All configurations are currently in 'c:\India GST Configurations'. Copy the folder to the Microsoft Dynamics AX environment where the configuration must be applied.

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