

API Access Tool

Excel Implementation

Step by step instructions

Texas Instruments

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TI Information – Selective disclosure

PLEASE READ CAREFULLY

The final click in the tool releases an actual order !

API Access Tool

This tool is intended to show:

- An easily accessible way to pull TI store inventory information and place orders via the TI store API suite
- How to take full advantage of our API suite features like prioritized inventory.
- A visual understanding for customers on how our API can help them.
- An interim step to getting fully integrate with TI store API suite.

This tool is NOT:

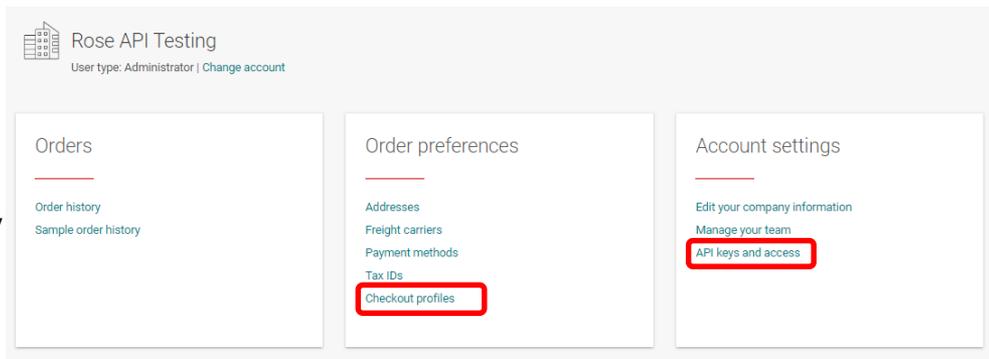
- A replacement for a complete implementation of our APIs into your ERP system.
- Taking advantage of all TI store API functionality.
- Push APIs cannot be used with this tool.

Note on Limitations and Security Features

- This Excel file does not work on MAC machines because of the macros and VB scripts that is being used. Please run ONLY on Windows machines.
- Your API Customer ID and Customer SECRET get stored with the file, if you save it after entering this data. You can prevent that by clicking „Clear Profile“ on the first tab before saving or forwarding. We recommend NOT to save the ID and SECRET with the file.
- Microsoft has recently changed the security settings for Excel to automatically block macros that come from an online resource (such as our file if you receive by email). In order to switch the macros back on, you need to close the file and go to it's properties. (Windows Explorer → Right-click on the file → Properties → Enable macros on the bottom of the message window)

What to do before using this tool:

- Set up a myTI company account on TI.com (*not your personal account*)
- Set up a complete checkout profile, which will hold information required for order and delivery like addresses, freight information, tax information, payment type etc.
- Apply for the TI store API key. This can be done in your company account.
- After approval, go to your myTI myTI dashboard on TI.com, you will need:
 - API key and secret
 - checkout profile ID



Checkout profiles

Filter checkout profiles

Copy checkoutProfileID	Ship to region ↓↑	Ship to currency ↓↑	Shipping address ↓↑	Billing address ↓↑	Tax information ↓↑	Shipping method ↓↑	Payment ↓↑	Status ↓↑
LII0829Testing	CN	CNY	LII0829Testing	BillingAddressTest		TI shipping		Complete

Description of the tool

- The tool is an Excel file with 3 tabs to do the following:
 1. Authentication and Checkout Profile selection
 2. Inventory and pricing information based on your BOM
 3. Checkout Cart to order the products you selected
- The 3 sections need to be stepped through in this order.
- Step by step instructions are following on these slides.
- Please open the tool and enable macro content before continuing.

Step 1: Checkout Profile and Authentication

1. Go to the first tab.
2. Enter your Checkout Profile ID. This can be found on the Dashboard on ti.com under Checkout Profiles. You will need to delete the field content and then paste directly into the field input.
3. Copy your Customer ID and SECRET into the respective fields. Again, you will need to delete the field content and then paste directly into the field input.
4. Click "Update Profile" to make sure the system switches to your correct Checkout Profile.
5. Go to the second tab (Inventory).
6. Click the "Login" button to transfer your Customer ID and SECRET to the TI API server and obtain a session Token. This Token will not be displayed for security reasons. The field will turn green with a success message.
7. Congrats, you are authenticated and ready to obtain inventory information !

Disclaimer: To be filled by your Company Authorized Person having Access to TI API, TI Credit Terms. If you are not among them, please reach out to TI for right contact from your component sourcing team. Please do not update any information on your own and do not click "Update Profile" button. Tool may not work as expected.

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Update Profile Inventory Check

Checkout Profile ID*	Profile updated on 11-11-2022 11-11-2022 19:00:32
API Key*	Key updated on 11-11-2022 11-11-2022 19:00:32
API Secret*	Key updated on 11-11-2022 11-11-2022 19:00:32
Currency*	USD

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6 LOGIN

Login Status : **Reset complete....Generate Access Token**

↓

Login Status : **Access Token Generated Successfully...**

Step 2/3: The Inventory Screen

LOGIN

RESET

COMPANY PROFILE

Login Status : Access Token Generated Successfully...
 Error Code :
 Error Message :

USER FILEDS

 COMPUTED FIELDS

 COMPUTED / USER OVERRIDE

BoM Import

 Refresh Inventory

 Add to Cart

 Clear All

* click on individual rows "Status" column (COLUMN D) to know more on the error code details

COMPANY LOGO		BILL OF MATERIALS & TI.COM INVENTORY																		Update	
SI No	TI Part Number	Customer Part Number	Req Quantity	Status	GPN	Inventory	Limit	Currency	Quantity Vs Price								MOQ	SPQ	Price as per Req Qty	Package	Add to Cart (Y)
1	OPA333AIDBVR	CPN_001	50	ACTIVE	OPA333	332	50	USD	<100	2.061	100-249	1.702	250-999	1.223	>1000+	0.920	1	3000	2.061	OPA333AIDBV_5_SOT-23_DBV	
2	OPA333AIDBVR	CPN_002	1	ACTIVE	OPA333	332	50	USD	<100	2.061	100-249	1.702	250-999	1.223	>1000+	0.920	1	3000	2.061	OPA333AIDBV_5_SOT-23_DBV	
3	TLV333IDR	CPN_003	21	ACTIVE	TLV333	74615		USD	<100	1.171	100-249	0.901	250-999	0.663	>1000+	0.474	1	2500	1.171	TLV333ID_8_SOIC_D	
4	TLV333	CPN_004	12	INVALID																	
5	TLV333IDR	CPN_005	10000	ACTIVE	TLV333	74615		USD	<100	1.171	100-249	0.901	250-999	0.663	>1000+	0.474	1	2500	0.474	TLV333ID_8_SOIC_D	Y
6	TLV333IDR	CPN_006	12	ACTIVE	TLV333	74615		USD	<100	1.171	100-249	0.901	250-999	0.663	>1000+	0.474	1	2500	1.171	TLV333ID_8_SOIC_D	
7	TPS5430DDAR	CPN_007	23	ACTIVE	TPS5430	0		USD	<100	3.226	100-249	2.827	250-999	1.982	>1000+	1.597	1	2500	3.226	TPS5430DDA_8_HSOIC_DDA	
8	AM3352BZCEA30	CPN_008	1	ACTIVE	AM3352	3	3	USD	<100	11.205	100-249	9.788	250-999	7.547	>1000+	6.750	1	160	11.205	AM3352BZCEA30_298_NFBGA_ZCE	
9	AM3352BZCEA30	CPN_009	1	ACTIVE	AM3352	3	3	USD	<100	11.205	100-249	9.788	250-999	7.547	>1000+	6.750	1	160	11.205	AM3352BZCEA30_298_NFBGA_ZCE	
10	TLV333IDR	CPN_010	12	ACTIVE	TLV333	74615		USD	<100	1.171	100-249	0.901	250-999	0.663	>1000+	0.474	1	2500	1.171	TLV333ID_8_SOIC_D	Y
11	AM3352BZCEA60	CPN_011	1	ACTIVE	AM3352	0		USD	<100	11.721	100-249	10.238	250-999	7.894	>1000+	7.061	1	160	11.721	AM3352BZCEA60_298_NFBGA_ZCE	
12	TPS5430DDAR	CPN_012	52	ACTIVE	TPS5430	0		USD	<100	3.226	100-249	2.827	250-999	1.982	>1000+	1.597	1	2500	3.226	TPS5430DDA_8_HSOIC_DDA	
13	TPS549B22RVFR	CPN_013	8	ACTIVE	TPS549B22	2075	50	USD	<100	7.415	100-249	6.045	250-999	4.751	>1000+	4.030	1	2500	7.415	TPS549B22RVF_40_LQFN-CLIP_RVF	
14	AM3352BZCEA30	CPN_014	1	ACTIVE	AM3352	3	3	USD	<100	11.205	100-249	9.788	250-999	7.547	>1000+	6.750	1	160	11.205	AM3352BZCEA30_298_NFBGA_ZCE	
15	ADC10D1000CCMLS	CPN_015	2	ACTIVE	ADC10D1000	218		USD	<100	#####	Oct-99	#####	100-1	#####	>0+	0.000	1	1	26078.976	ADC10D1000CCMLS_376_CCGA_NAA	

The inventory screen will be used to authenticate (top section), add your BOM, pull TI inventory information (bottom table), and add parts to the cart for ordering (right column and buttons on the top).

Find the instructions how to use this screen on the following slides.

Step 2: Obtaining inventory info for your BOM

- Fill the BOM with your list of parts (Column B). This can either be done through BOM import or directly in the yellow fields of the table. Please make sure to put TI orderable part number only. Wrong or incomplete part numbers will throw an error when trying to pull inventory.
- You are free to enter your CPN (Customer Part Number) next to the TI OPN (Orderable Part Number) in Column C if you wish to. These will appear on the invoice and package list as well.
- Enter a requested quantity into Column D. The tool will later compare the requested quantity to available inventory and potential order limits. Please know that we are working hard to have enough inventory on the TI store to be able to remove order limits in all cases.
- When done, click “refresh inventory”. This will now release the Inventory API and fill the table with inventory and pricing information. It can take a few seconds, depending on the length of your list and it will display a success message when done.

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BoM Import

SI No	TI Part Number	Customer Part Number	Req Quantity
1	OPA333AIDBVR	CPN_001	50
2	OPA333AIDBVR	CPN_002	1
3	TLV333IDR	CPN_003	21
4	TLV333	CPN_004	12
5	TLV333IDR	CPN_005	10000
6	TLV333IDR	CPN_006	1
7	TDS5420DDAR	CPN_007	1

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Refresh Inventory

Step 3: Selecting the parts that you wish to order

- You should now see a completely filled table with all the inventory and pricing information for your BOM.
- Please know, that you will only be able to select those parts for your Checkout Cart, where the inventory and ordering limit exceed your requested quantity. The other lines with red or yellow boxes with not be open for order. (red: not enough inventory, yellow: invalid orderable part number)
- The blue boxes in Column Y and Z are showing what you can order at which price, based on your requested quantity, inventory and possibly an order limit. If you change your requested quantity AFTER pulling the inventory information, then you will need to click "Update" to see the correct buy price.
- Go to Column AA and put a "Y" in the green boxes of the lines that you wish to add to your Checkout Cart for ordering.
- When done, click the "Add to cart" button on top of the screen.
- Now, you can go to the next tab, which is your Checkout Cart.

SI No	TI Part Number	Customer Part Number	Req Quantity	Status	GPN	Inventory	Limit	Currency	Quant
1	OPA333AIDBVR	CPN_001	50	ACTIVE	OPA333	332	50	USD	<
2	OPA333AIDBVR	CPN_002	1	ACTIVE	OPA333	332	50	USD	<
3	TLV333IDR	CPN_003	21	ACTIVE	TLV333	74615		USD	<
4	TLV333	CPN_004	12	INVALID					<
5	TLV333IDR	CPN_005	10000	ACTIVE	TLV333	74615		USD	<
6	TLV333IDR	CPN_006	12	ACTIVE	TLV333	74615		USD	<
7	TPS5430DDAR	CPN_007	23	ACTIVE	TPS5430	0		USD	<
8	AM3352BZCEA30	CPN_008	1	ACTIVE	AM3352	3	3	USD	<
9	AM3352BZCEA30	CPN_009	1	ACTIVE	AM3352	3	3	USD	<
10	TLV333IDR	CPN_010	12	ACTIVE	TLV333	74615		USD	<
11	AM3352BZCEA60	CPN_011	1	ACTIVE	AM3352	0		USD	<
12	TPS5430DDAR	CPN_012	52	ACTIVE	TPS5430	0		USD	<



Update
Add to Cart (Y/N)
Y
Y
Y



Update
Add to Cart (Y/N)



Add to Cart

Step 4: The Checkout Cart Screen

Company		Fetch Profile	1	Date	11/14/2022
Checkout Profile ID*					

Customer Purchase Order#		manual entry			
Customer Order Comments	Order API Test	manual entry			
Expedite Shipping Flag	TRUE				

Payment Method	Bank Transfer Bank Transfer
Billing Currency	USD

Shipping Address	

Billing Address	

Estimated Value	6573.70	
Estimated Shipping Cost	43.00	
Estimated Taxes	545.87	
Estimated Discount	0.00	
Estimated Total Value	USD 7162.57	

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Get Estimated Cost

4

Place Order

Clear Cart

Validate Cart

2

ERRORS	
ERROR CODE	
TI Part Number	
Reason	
Detail	

ORDER ITEMS NOTIFICATIONS	
TI Part Number	TLV333IDR
Topic	Custom Reel
Detail	Sorry, custom reel option is not available. You

Bank Details	
Bank Approver Email	
Beneficiary	
Bank Routing And Transit No	
Swift Code	
Account Number	
Bank Address	

Order Details Summary	
Order Number	
Order Value	
Cart ID	
Order Placed Date	
Order Status	
Ordered By as per profile ID	

SI	TI Part Number	Customer Part Number	Line Item Comments	Package	Quantit	Currency	Unit Price	Total Amount
1	TLV333IDR	CPN_005		CUT TAPE	10000	USD	0.47	4,740.00
2	TLV333IDR	CPN_010		CUSTOM REEL	12	USD	0.47	5.69
3	SN74CBTLV3861PWR			CUT TAPE	9828	USD	0.19	1,828.01

*CUSTOM REEL WILL INCUR ADDITIONAL CHARGES IF FULLFILLED

The cart tab provides all functionality required to place an order. You will be able to validate your cart, fetch the checkout profile information to verify your billing and shipping address, select package options, update cost in case of custom packaging and then place the order, which gets executed immediately. **Please know, that once you placed the order, it will ship and cannot be changed or cancelled.** See instruction on the following slide. (Red boxes on this slide have been added to protect confidential information that we used for testing.)

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Step 4: Verifying your cart and placing your order

17. In this tab, you should see the parts that you selected in the cart list.
18. As a first step here, you will fetch your Checkout Profile data to validate shipping address, billing address etc. Click the button (1) to execute.
19. Then please click (2) "Validate Cart". In case of broken quantities in your Checkout Cart, you will need to select either "Cut Tape" or "Custom Reel" from the dropdown menu in your Product line Column E. Please know that selecting "Custom Reel" will add cost.
20. Once done, click (3) "Estimated Cost" which will update your Checkout Cart and the Cost summary in the middle, displaying the final checkout value.
21. If no errors and you are okay with the summary, click (4) "Place Order". A popup will appear and ask you to type "I UNDERSTAND" to confirm that you understood this is placing an actual real life order with TI.
22. When executed, the order information will be displayed on the right side of the screen.

The screenshot shows a checkout form with several sections. Callout 1 points to the 'Fetch Profile' button. Callout 2 points to the 'Validate Cart' button. Callout 3 points to the 'Get Estimated Cost' button. Callout 4 points to the 'Place Order' button. Below the form is a table with the following data:

SI	TI Part Number	Customer Part Number	Line Item Comments	Package	Quantity	Currency	Unit Price	Total Amount
1	0P4338AIDBVR	CPN_002			1	USD	2.06	2.06
2	AM3352BZCEA30	CPN_009		TRAY	1	USD	11.21	11.21
3	AM3352BZCEA30	CPN_014		TRAY	1	USD	11.21	11.21

Below the table, there is a summary section with the following data:

Estimated Value	
Estimated Shipping Cost	
Estimated Taxes	
Estimated Discount	
Estimated Total Value	

A red banner below the summary states: *CUSTOM REEL WILL INCUR ADDITIONAL CHARGES IF FULLFILLED

The screenshot shows two sections: 'Bank Details' and 'Order Details Summary'. The 'Bank Details' section has a red box covering the beneficiary information. The 'Order Details Summary' section has a red box covering the order number, value, and status. A red circle with the number 22 is overlaid on the bottom right of the 'Order Details Summary' section.

Bank Details	
Bank Approver Email	
Beneficiary	
Bank Routing And Transit No	
Swift Code	
Account Number	
Bank Address	

Order Details Summary	
Order Number	
Order Value	
Cart ID	
Order Placed Date	
Order Status	
Ordered By as per profile ID	