



Microsoft license Based Subscription Business Logic

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Microsoft license Based Subscription

Business Logic

This document containing an explanation of the business logic for implementing Microsoft license Based Subscription license in SoftTrend Marketplace:

Overview:

This feature allows users to view and try Microsoft license Based directly from our marketplace. Microsoft license Based subscription is the legacy model of subscription from Microsoft that retired on 1 March 2022 for purchasing new license and the renewal retired next year 2023.

How It Works:

1. Viewing License:

- When users browse our marketplace, they can subscribe to any Microsoft license Based license.
- From search you can enter name of any license you want

When a user starts to subscribe to any plan of Microsoft license Based, the process goes through several steps to ensure the payment is activated successfully.

Step 1 Validation Process:

1. Checking for user authentication:

- Checks user logged in or have an account on marketplace
- If not, it will go back him to the login page to login or create account.

2. Checking for a Microsoft Account:

- The system first checks if the user's company has a Microsoft Tenant Domain (essentially, if they have a Microsoft account connected to their business).
- If not, the user is shown an error message asking them to create one by registering through a link.

Then he will be asked to enter the quantity and term duration.

3. Checking for Subscription in sandbox version:

- The system Checks if user has 5 or more Subscriptions for sandbox accounts.
 - If the user exceeds this number, the user is shown an error message that
"You have exceeded maximum number of Sandbox subscriptions
(5 Subscriptions)".

- The system Checks if user enter quantity more than 25 seats.
 - If the user exceeds this number, the user is shown an error message that
- The system Checks if user already has this plan in his Microsoft subscription or pending order or cart item, the user is shown an error message that.

"You cannot purchase more than 25 seats per subscription in sandbox account!"

"You are already having this plan on your subscriptions or in Cart

4.Checking for Subscription in production version:

If he selects to add a plan already same as in his Microsoft subscription

"You cannot buy more than 2 subscriptions with the same plan."

5.Checking for License Agreement Type and Organization Type:

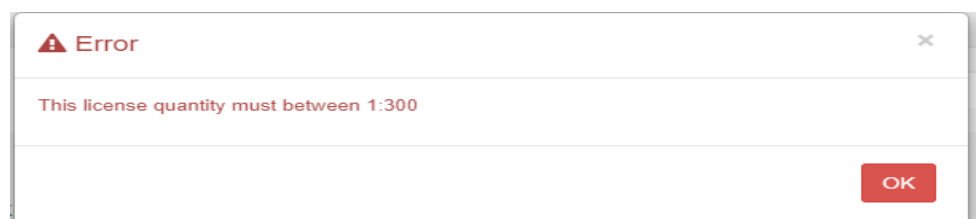
- If the user company not educational and he selected an academic license the user is shown an error message that:

"You cannot purchase this product because this product for education account only"

2. What Users Will See:

- **Logged-In Users with a Microsoft Tenant ID and don't have the same plan in his Microsoft subscription or any order in the cart:**
They can immediately start the process by clicking the "Add " button.
- **Not Logged-In Users:** They'll be prompted to register or log in first, then follow the process to start the subscription.
- **Not Logged-In Users with a Tenant ID:** They'll back to log in first, then follow the process to start the subscription.
- **Logged-In Users without a Tenant ID:** They'll be asked to register their Tenant ID (required by Microsoft) before starting the process of subscription.
- **Logged-In Users already have same plan in their Microsoft subscription or cart item:** if they click on "Add", They'll see message that they already have this subscription.
- **Logged-In Users already have more than 5 subscriptions:**
if they click on "Add", They'll see message that they already have 5 subscriptions in sandbox only.
- **Logged-In Users but enter quantity not between Minimum and Maximum Quantity in sandbox:**
An error message that:

"This license quantity must between 1 seat or 25 seats"
- **Logged-In Users but enter quantity not between Minimum and Maximum Quantity in production:**



3. Preparing shopping Cart:

- After user enter the quantity and term duration, the system prepares to add it to the user's shopping cart.
- The data added to the cart and the shopping cart will contain the vendor, order type, product description, price and quantity.
- Then check with Microsoft partner center to confirm country code with Microsoft tenant to get the branch or country that user finalize with.
- And display payment methods to the user to choose they way he want to pay through it.
- The system checks the type of billing cycle (monthly, annual, or trial) for the offer based on the user's selection.

if the selected offer is trail and payment method is balance
an error message shown that:

"You cannot purchase free product from balance payment method!"

- Users also can remove the item from the cart.
- If everything is fine, the system proceeds to the checkout phase.
And The System will redirect the user to the order details page
- as shown in below screen shot from the Marketplace.

The screenshot displays a 'Shopping Cart' interface with a header bar. Below the header, the title 'Review your Cart' is visible. The main content area contains a table with the following columns: Vendor, Product Description, Quantity, Price, and Total. The table lists one item: 'Exchange Online (Plan 1)' from Microsoft, with a quantity of 5, a price of 48.00 USD, and a total of 240.00 USD. Below the table, there is a section for 'Please choose the branch you will use to transfer payment and receive invoice from'. This section includes a 'Branch' dropdown menu set to 'SoftTrend EGY (VAT:14.00%)' and a 'Payment Method' section with radio buttons for 'Cash', 'Cheque', and 'Wire Transfer'. To the right of the payment method section, there is a summary box showing the 'Total' (240.00 USD), 'VAT (14.00%)' (33.60 USD), and 'Final Total' (273.60 USD). Below the summary box, there is a 'Promo Code' input field with an 'Apply' button, and a 'Checkout' button at the bottom.

Vendor	Product Description	Quantity	Price	Total
Microsoft	Exchange Online (Plan 1) Vendor : Microsoft Order Type : New Description: Messaging, calendaring, and email archiving plan accessible from Outlook on PCs, the Web and mobile devices.	5	48.00 USD	240.00 USD

Please choose the branch you will use to transfer payment and receive invoice from

Branch: SoftTrend EGY (VAT:14.00%)

Payment Method: ☐ Cash ☐ Cheque ☐ Wire Transfer

Total: 240.00 USD
VAT (14.00%): 33.60 USD
Final Total: 273.60 USD

Promo Code:

Order Finalization Process:

➤ ***Partner Center Connection:***

- system first connects to Microsoft Partner Center to check the availability of the requested offer for the user's company, based on the company's country.

➤ ***Fetching Order Details:***

- The system retrieves the specific Microsoft offer details, including the product and SKU (a unique identifier for the license).

➤ ***Determining Billing Cycle:***

- The system checks the type of billing cycle (monthly, annual, or trial) for the offer based on the user's selection and country-specific settings

➤ ***Creating the Microsoft Partner Center Cart:***

- The selected license is added to a Microsoft Partner center cart. The cart includes information like the product, quantity (number of licenses), billing cycle, and term duration.

➤ ***Checking Out the Microsoft Partner Center Cart:***

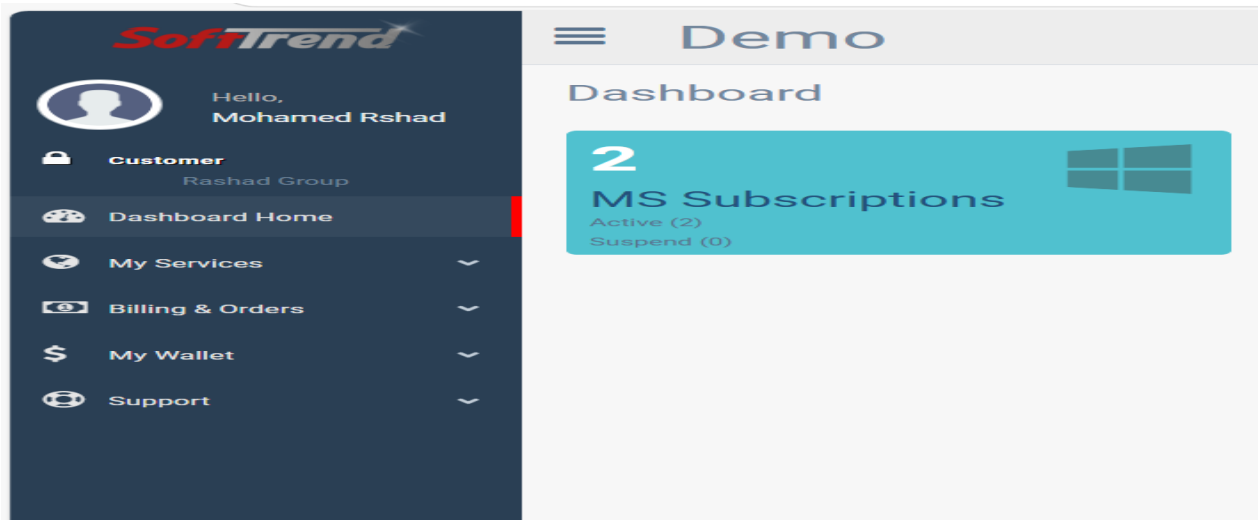
- The system attempts to finalize the purchase by checking out the cart with Microsoft Partner Center. If there are no errors, the system proceeds to the next step.

Once the cart is checked out successfully, the system creates a subscription for the license. It stores important details like:

- The license nickname.
- The quantity of licenses.
- The renewal date (when the subscription needs to be renewed)
in this case no renewal date.
- After the order is finalized, the system sends a confirmation email to the user with the details of their new subscription. The email includes:
 - The subscription name.
 - The quantity of licenses.
 - The term duration.
 - The renewal date.
 - The Microsoft subscription ID.

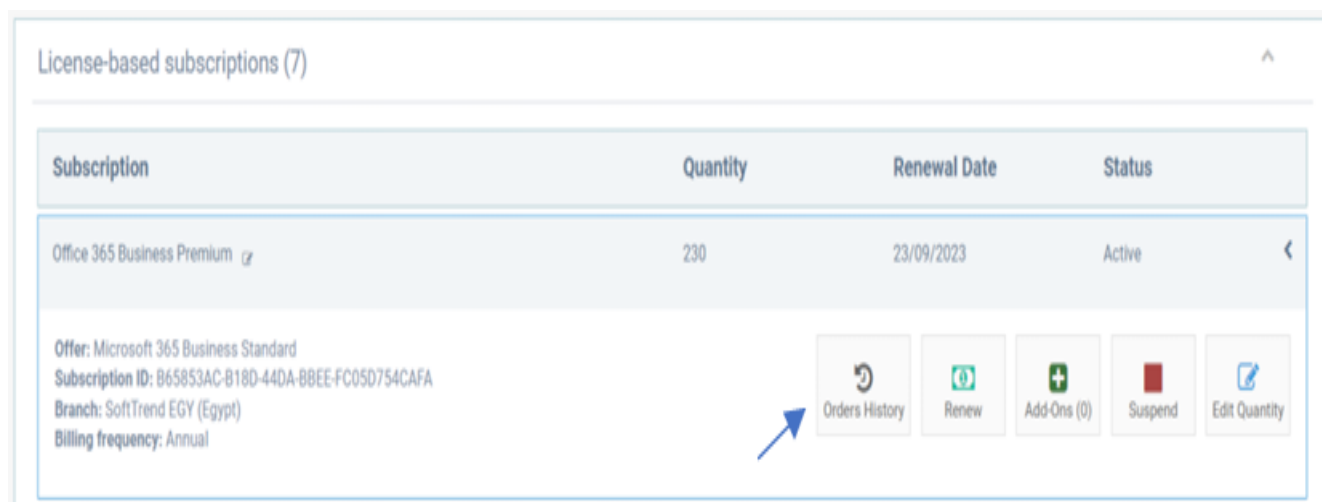
1. Managing license based Subscription:

- once the confirmation email was sent to the customer now, he can start to manage the subscription, in dashboard home from MS Subscription to see all his Microsoft subscription a screen shot from the Marketplace.



- Then, he can start to manage his subscription and see renewal date and also the ability to renew, addon, increase or decrease quantity and suspend license.

from license-based subscriptions (**see Figure 8**) a screen shot from the Marketplace.

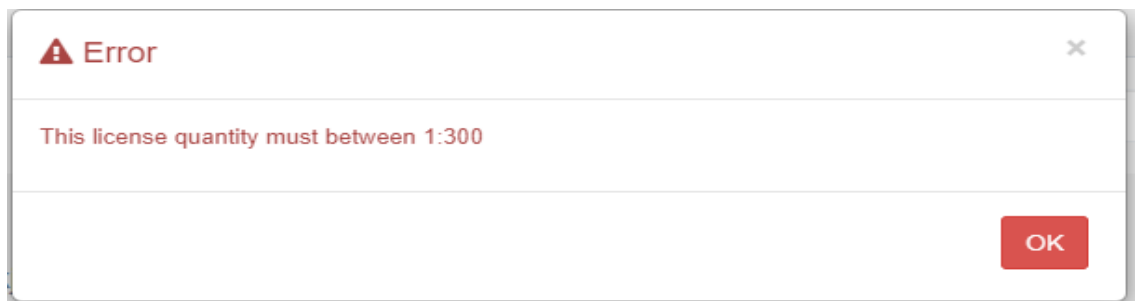


(Figure 8)

➤ **Edit Quantity:**

the customer can click on **Edit Quantity** button to increase or decrease quantity

- if the entered new quantity greater than the old quantity, the quantity will be upgraded after system
- check that the Subscription Status is Active.
 - check there is no Pending Or In progress Order Item order related to this subscription in cart.
 - Check that the new quantity is between Maximum Quantity or Minimum Quantity
- If not an error message:



- And will get order price based on daily price and days count.
 - So, If everything is fine, the order will added to the cart successfully
- And complete the checkout process of finalization as shown in the above.

- if the entered new quantity less than the old quantity, the quantity will be downgraded after system
- check that the Subscription Status is Active.
 - check there is no Pending Or In progress Order Item order related to this subscription in cart.
 - Check that the new quantity is between Maximum Quantity or Minimum Quantity
- If not an error message:
- And will get order price based on daily price and days count.

- Check if new quantity < from old quantity and days count > 0 then will prepare shopping cart
- So, If everything is fine, the order will added to the cart successfully

And complete the checkout process of finalization as shown in the above.

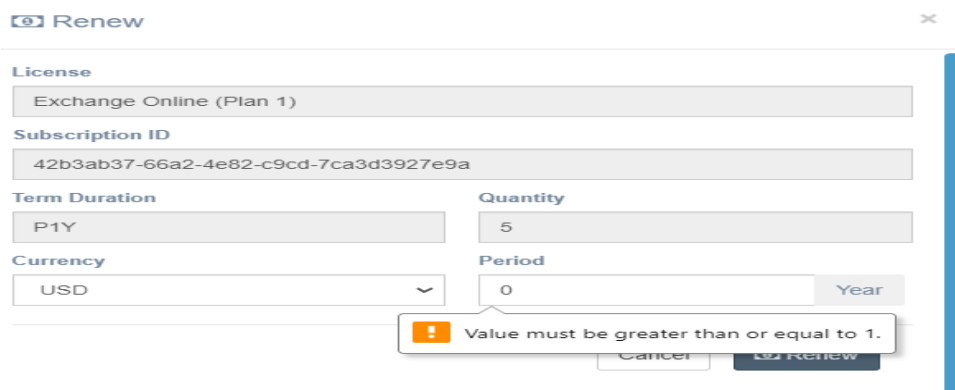
And confirmation message shown:

"Your decrease order from old Quantity to new Quantity has placed successfully and it is in progress. The refunded amount will be added to your balance once the order finished."

➤ Renew :

the customer can click on **Renew** button to renew his license

- He will asked to enter period that he want to renew
- System check that this period greater than one.



The screenshot shows a 'Renew' dialog box with the following fields:

- License:** Exchange Online (Plan 1)
- Subscription ID:** 42b3ab37-66a2-4e82-c9cd-7ca3d3927e9a
- Term Duration:** P1Y
- Quantity:** 5
- Currency:** USD
- Period:** 0 (with a 'Year' unit selector)

A validation error message is displayed at the bottom: "Value must be greater than or equal to 1." The error points to the 'Period' field, which currently contains the value '0'. There are 'Cancel' and 'Renew' buttons at the bottom right of the dialog.

- After that if he enters valid period, the system will check the below to continue process of renewing the license:
 - Check for the current subscription
 - Check for current user authentication
 - check that the Subscription Status is Active.
 - check there is no Pending or In progress Order Item order related to this subscription in cart.

- Check if License Agreement Type is Corporate and renewal date is greater than max renewal date (2023, 1, 4)
an message shown:

"Sorry, you cannot renew this subscription!"

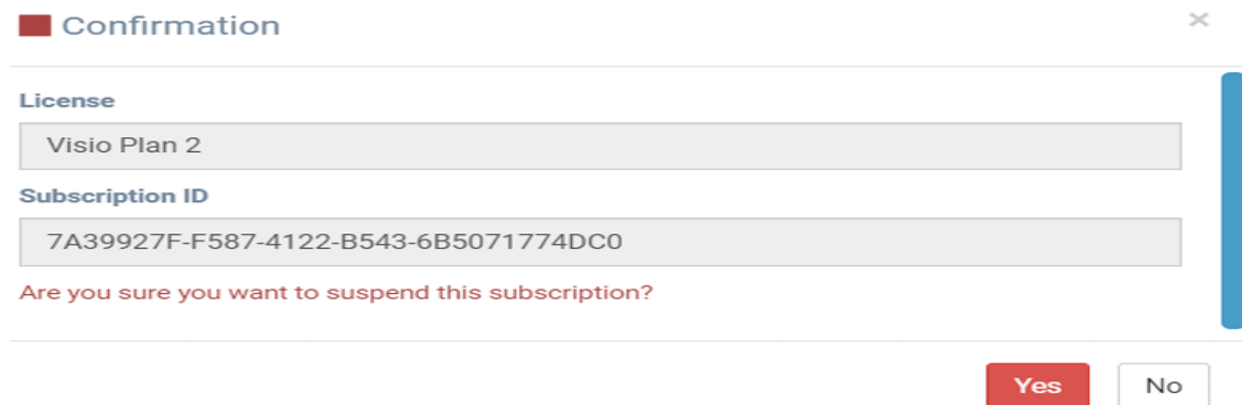
- So, If everything is fine, the order will added to the cart successfully

And complete the checkout process of finalization as shown in the above.

➤ **Suspend:**

the customer can click on **Suspend** button to stop his license

- He will ask to confirm that he wants to Suspend the license.



A confirmation dialog box titled "Confirmation" with a close button (X) in the top right corner. It contains two input fields: "License" with the value "Visio Plan 2" and "Subscription ID" with the value "7A39927F-F587-4122-B543-6B5071774DC0". Below these fields is a red text prompt: "Are you sure you want to suspend this subscription?". At the bottom right are two buttons: "Yes" (red) and "No" (gray).

- if click yes, the system will check the below to continue process of suspend the license:
 - ✓ Check for current user authentication
 - ✓ check that the Subscription Status is Active.
 - ✓ check there is no Pending or In progress Order Item order related to this subscription in cart.
 - ✓ Then check for the days count from now till renewal date.
 - ✓ So as days count is > 0 , the system will build the shopping cart.
 - ✓ Then will calculate the refunded price to create the negative paid order to be credit note in the finalize phase and reflect to the customer wallet.

- ✓ So, the order will added to the cart successfully And complete the checkout process of finalization as shown in the above.
- ✓ But the order payment method always will be balance and status in progress.
- Also the customer can reactivate it again by click the same button that will be named Reactivate and continue process of check out as above

➤ **Add-on:**

the customer can click on **Add-on** button and see the availables to **Add-on** to his license

The screenshot shows a modal window titled "Add-On" with a close button (X) in the top right corner. The modal contains a table with the following columns: "Addon", "Quantity", "Term Duration", and "Price".

Addon	Quantity	Term Duration	Price
Office 365 Data Loss Prevention	1	1 Year	36.00 USD

Below the table, there is a blue button with a shopping cart icon and the text "Add".

The background of the modal shows a list of add-ons with descriptions and pricing options:

- Office 365 Data Loss Prevention**: With a data loss prevention policy, Office 365 identifies sensitive data and helps protect it. Priced per gigabyte, Office 365 offers additional file storage options to support an organization's file growth.
 - 0.24 USD Per month
 - 2.40 USD Per year
- Scheduler** (New Commerce Experience): Scheduler enables users to email Cortana to a mailbox set up inside their tenant and delegate their scheduling needs to a digital personal assistant, including scheduling and re-scheduling personal appointments and meetings with people inside and outside of their organization. To enable Scheduler admins must set up a new mailbox and run a PowerShell cmdlet. The service can take up to 24 hours to start working after you run the cmdlet. Purchasing the service does not immediately enable it.
 - 12.00 USD Per month
 - 120.00 USD Per year
- SharePoint Syntex** (New Commerce Experience): This per-user offer enables customers to get access to Advanced AI and machine teaching to amplify human expertise, automate content processing, and transform content into knowledge; and Content centers, digital image processing, form processing, document understanding, advanced taxonomy services, content connectors.

At the bottom of the modal, there are two buttons: "Cancel" and "Save".

- And add it to the cart and continue process of finalization as discussed in the above.

➤ **Order history:**

the customer can click on **Order history** button and see **Order history** to his license

Orders History

License

Subscription ID

Microsoft 365 Business Basic

f3b69696-2022-4c41-d55f-6ccc3b399a24

Term Duration

Quantity

Status

Monthly

2

Active

Order#	Date	Type	Status	Total	
SANDBOX-ORD-1-USD-277	11/11/2024 08:39:16 AM	New	Completed	16.42 USD	<div></div>

OK