Advania LS Pay EFT

Advania



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1 ADVANIA LS PAY EFT CONNECTION

Advania LS Pay EFT Connection solution is designed to work with LS Pay app on different types of POS devices (devices used for credit card payment).

With this solution you can print, make payments, refund and void transactions through POS devices.

1.1 FIRST STEP: BEFORE WE CAN BEGIN IN BUSINESS CENTRAL

Before you can start using this app with LS Pay, some prerequisites are needed.

You will need to acquire a POS device to use for credit card payment. For testing purposes, setting up a mock device in LS Pay Service is enough.

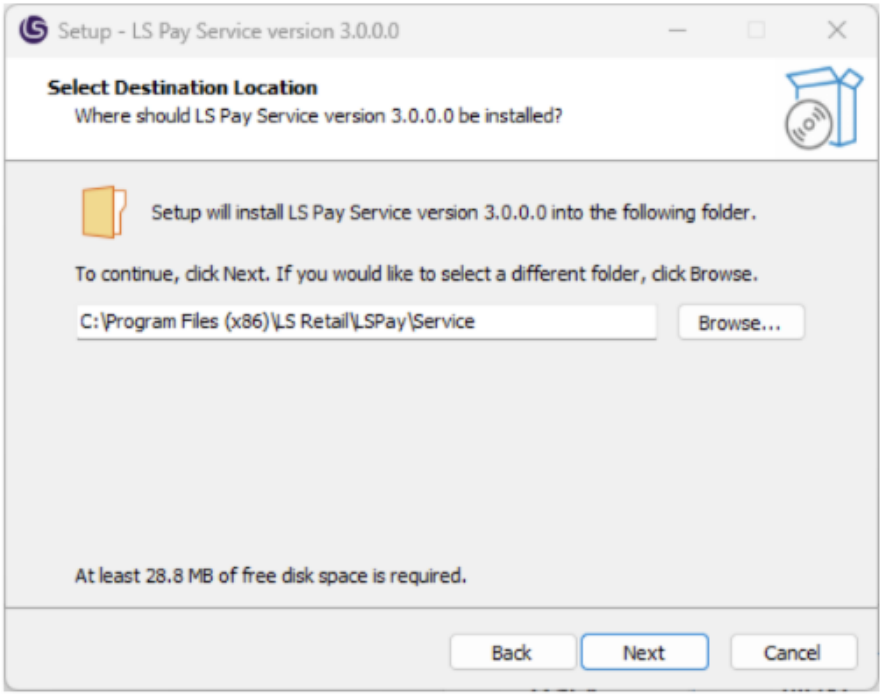
First, LS Pay Service needs to be installed and running.

System Requirements

- Windows 10 or later
- .NET 8.0 Runtime:
  - .NET Desktop Runtime (x86)
  - ASP.NET Core Runtime (x86)

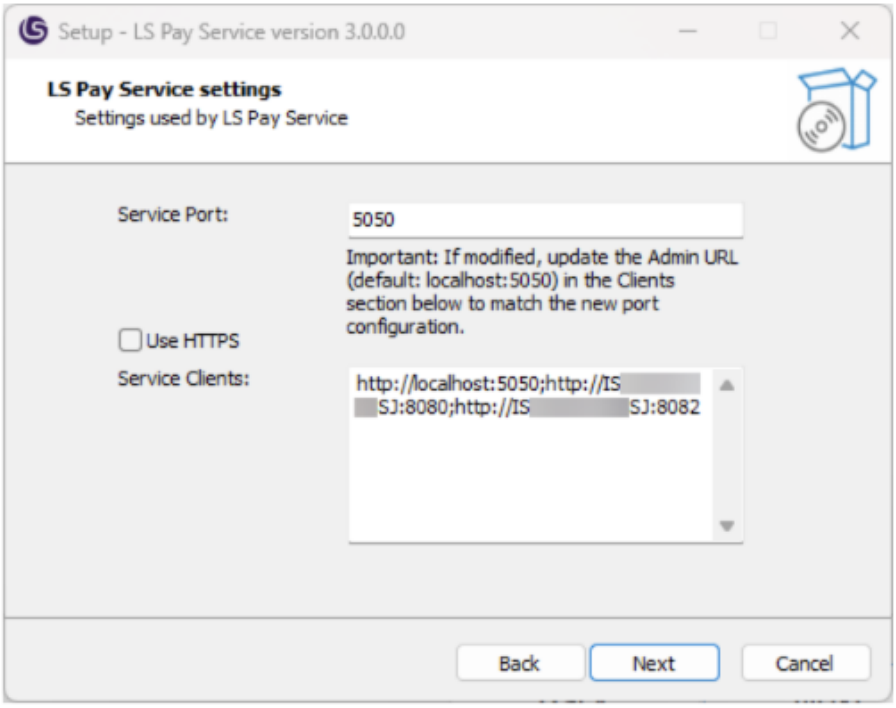
Installer

1. Launch the LS Pay Service installer.
2. Click "Next". The default installation directory is C:\Program Files (x86)\LS Retail\LSPay\Service, change this if needed.

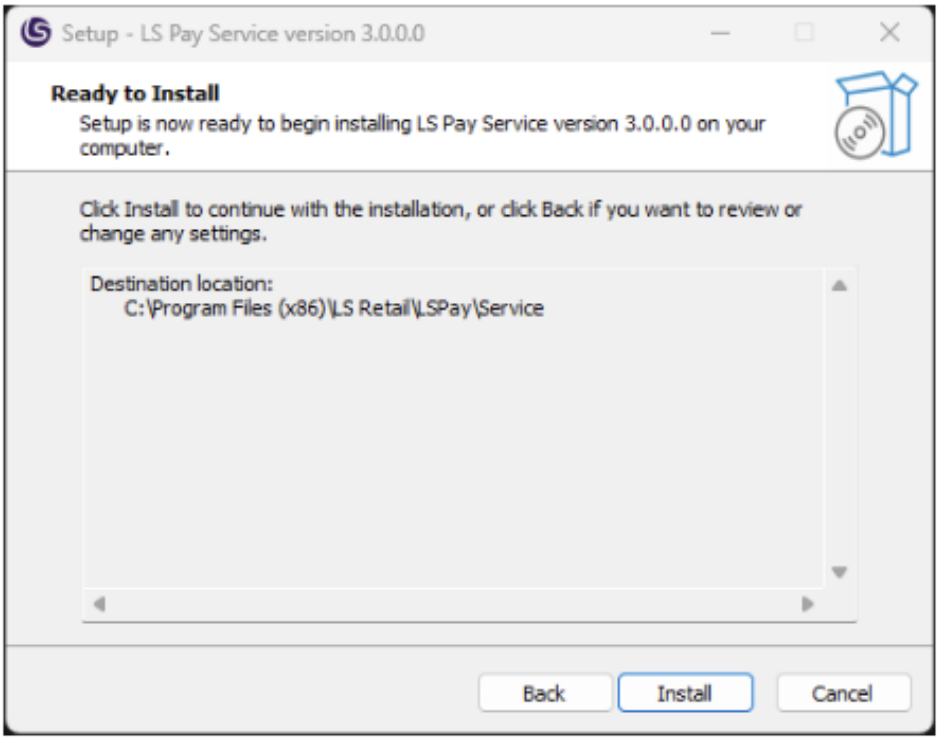


3. Click "Next". The Service Setting page allows you to configure the following settings:
   - **Service Port**: Default is 5050
   - **Use HTTPS**: Enable for secure connections
     - This will require a SSL certificate setup.
     - Note: HTTPS is required to communicate with Business Central running as SaaS.
   - **Service Clients**: Configure client endpoints that can access the service

- Default:
  `http://localhost:5050;http://<computername>:8080;http://<computername>:8082`
  - `http://<computername>:8080;http://<computername>:8082` are the default endpoints required for on-premise installations of Business Central. This can be removed or edited if needed.
  - **Note for Business Central Saas:** Make sure to add the URL where Business Central will be running.
- **Must include** `<http or https>://localhost:<Service Port>` for LS Pay Service admin portal access
- Update protocol of clients (http/https) to match HTTPS (on/off) setting

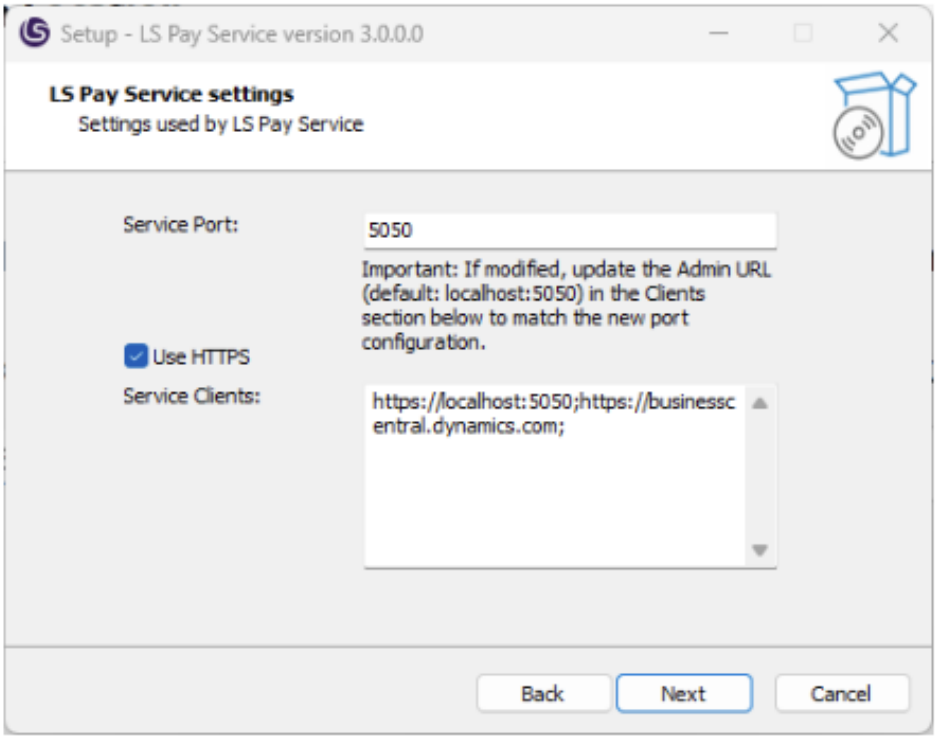


4. If HTTPS is **disabled**, click "Next" and then "Install".



The following instructions only apply if HTTPS is **enabled**.

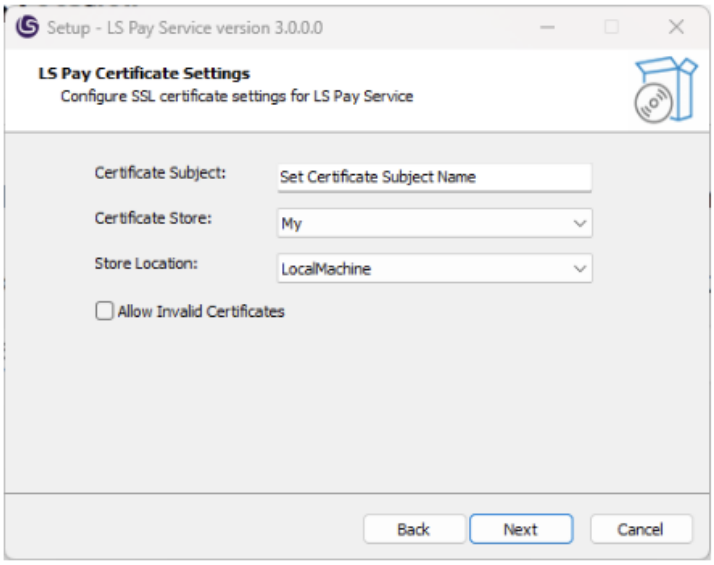
Click "Next"



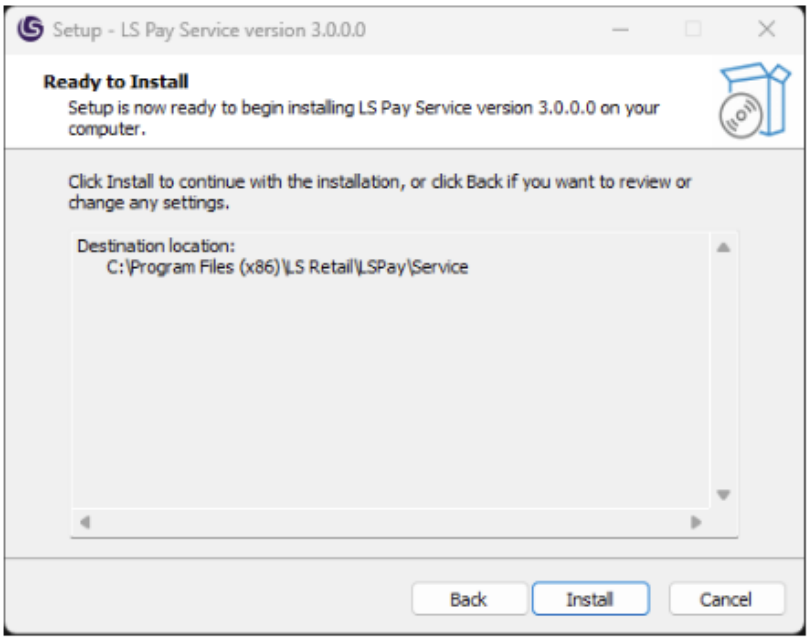
5. **Certificate Settings** (Only shown if HTTPS is enabled)

   For HTTPS communication, you need to set up the certificate the LS Pay Service should use.

   1. **Certificate Subject**: Subject name of your SSL certificate
   2. **Certificate Store**: Choose between:
      - `My` (Personal)
      - `Root`
   3. **Store Location**: Choose between:
      - `LocalMachine`
      - `CurrentUser`
   4. **Allow Invalid Certificates**: Enable for self-signed certificates

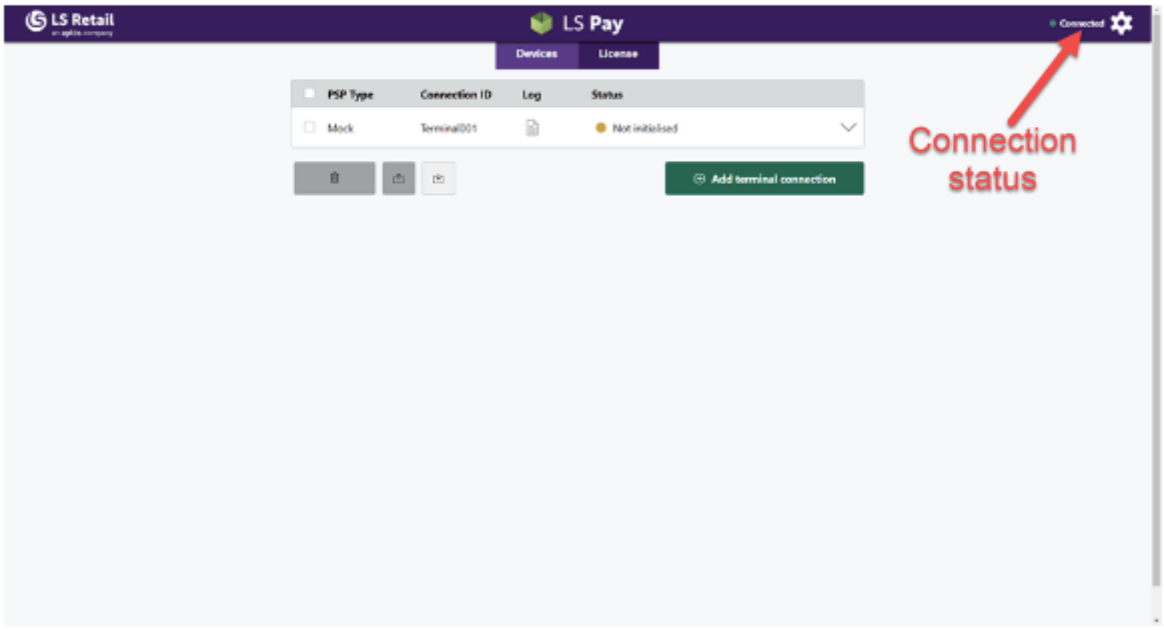


6. Click "Next" and then "Install"


Setup - LS Pay Service version 3.0.0.0
Ready to Install
Setup is now ready to begin installing LS Pay Service version 3.0.0.0 on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\Program Files (x86)\LS Retail\LSPay\Service
Back
Install
Cancel

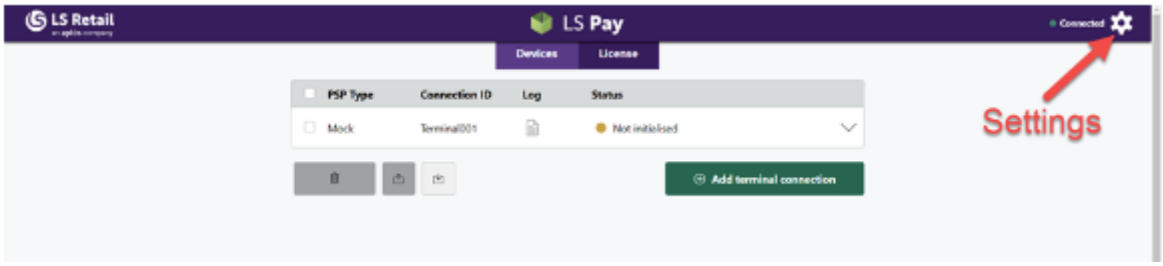
LS Pay Service configuration

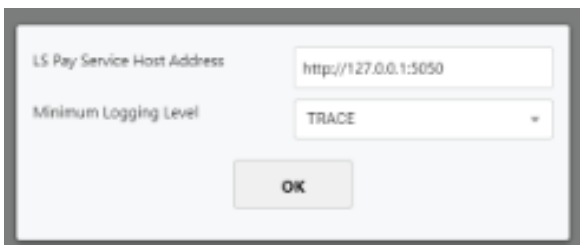
To configure the LS Pay Service, open a browser and type in "localhost:[port]/Admin". This will open the LS Pay Service Admin UI. If the Service is running on the same machine, then a connection the Service should already be established. The connection status is displayed in the top right corner of the Admin UI.



LS Pay Service settings

Open the settings by clicking on the wheel in the top right corner.





If the LS Pay Service is running on a separate machine, there are settings that need to be configured to establish a connection with the Service. Input the address and port where the LS Pay Service is hosted. The default port is 5050. If the LS Pay Service was set up to use HTTPS, make sure to set the URL to start with "https://" instead of "http://". After changing the settings, press OK and refresh the page to see if a connection has been established.

If the LS Pay Service is running on the same machine, the IP Address can be left as is. The port number should be the same as set during installation, the default port is 5050. If the LS Pay Service was set up to use HTTPS, make sure to set the URL to start with "https://" instead of "http://". Refresh the page to see if a connection has been established. After changing the settings, press OK and refresh the page to see if a connection has been established.

In the settings window it's also possible to set the minimum logging level for terminal connections.

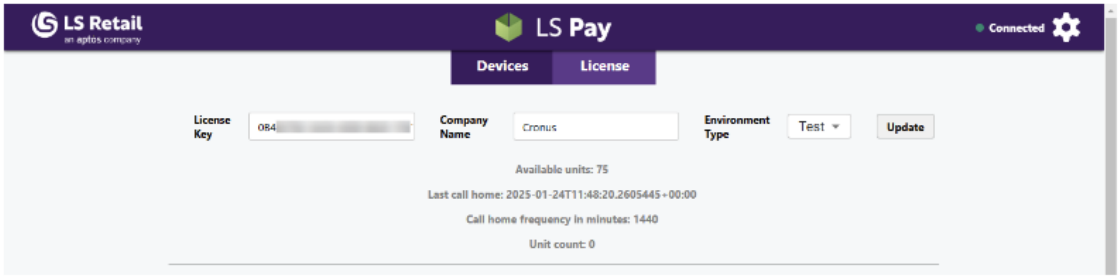
License

Under the **"License"** tab, enter your license key and Company Name.

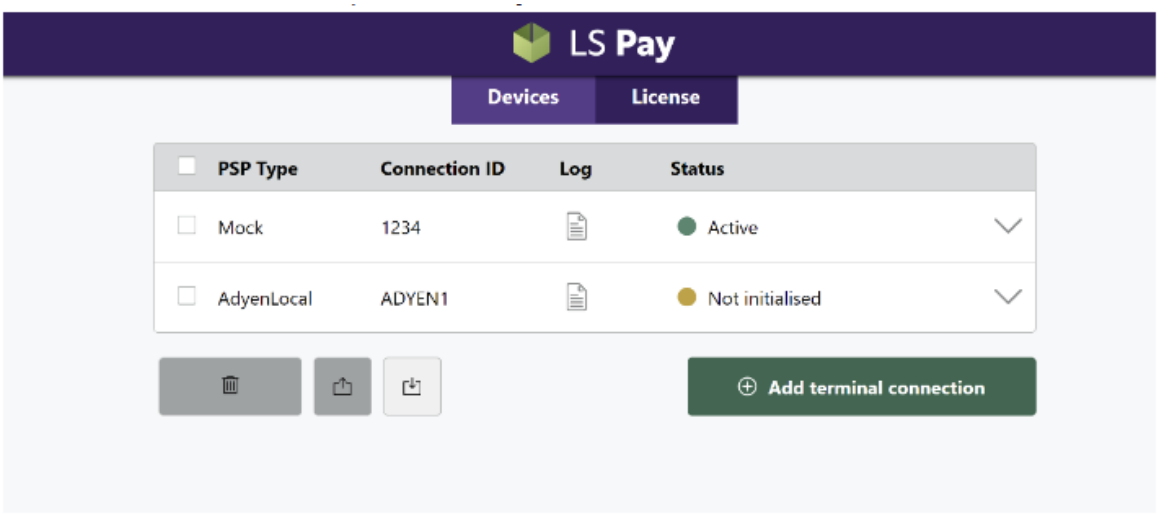
License key is acquired from LS Retail's licensing team.

Company Name should have the full name of your company. Ensure it is spelled correctly to help us easily identify your license to provide support when needed.

Next, set the **Environment Type** to either "Test" or "Production," depending on your use case. Finally, click **"Update"** to save your changes.



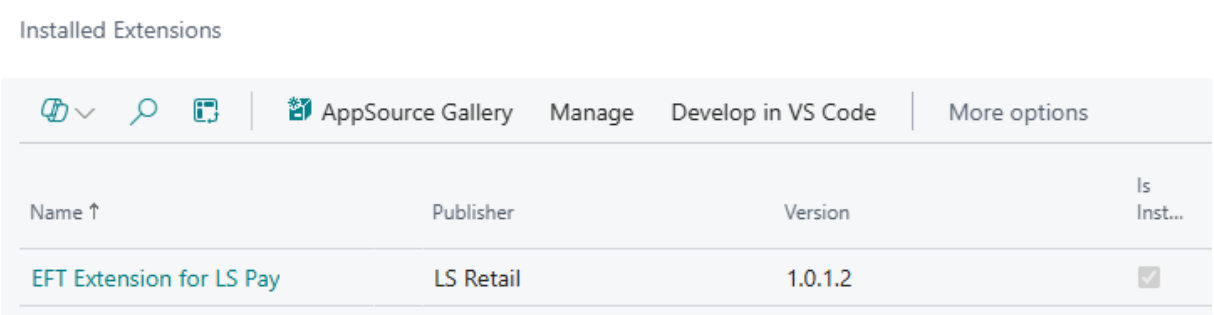
After LS Pay service has been successfully installed, we need to set up at least one EFT device.



- Note: There is a Mock "device" available for testing purposes which returns pre-programmed responses without connecting to a payment terminal. For most transaction amounts it returns an approved response, however it also has a list of trigger amounts to trigger specific types of responses:

Amount	Response
103.01	Authorization Status "Declined"
103.02	Authorization Status "Cancelled"
93.01	Amount verification
93.02	Signature verification
101.01-101.10	Transaction Status "Error"

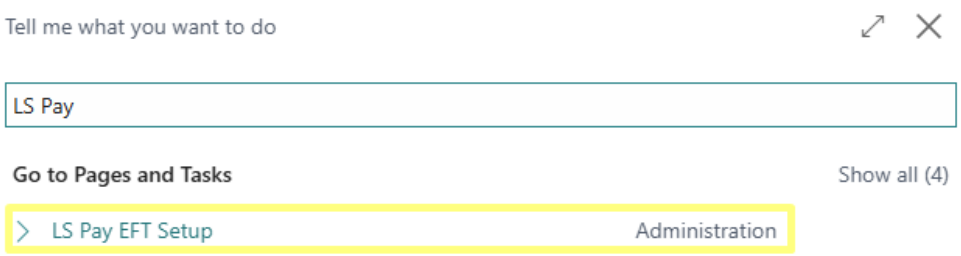
After setting up everything in the LS Pay Service, we need to make sure we have **EFT Extension for LS Pay** installed on the Business Central instance.



Installed Extensions

1.2 SETUP IN BUSINESS CENTRAL

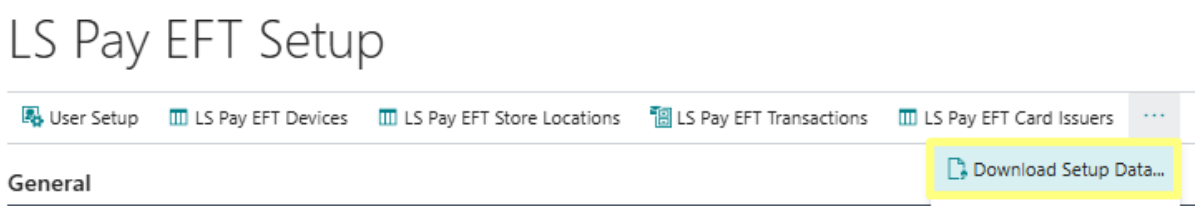
To start using *Advania LS Pay EFT Connection* solution, we need to configure the setup and enable it. We can find the setup by typing LS Pay in Tell me Search box.



LS Pay EFT Setup

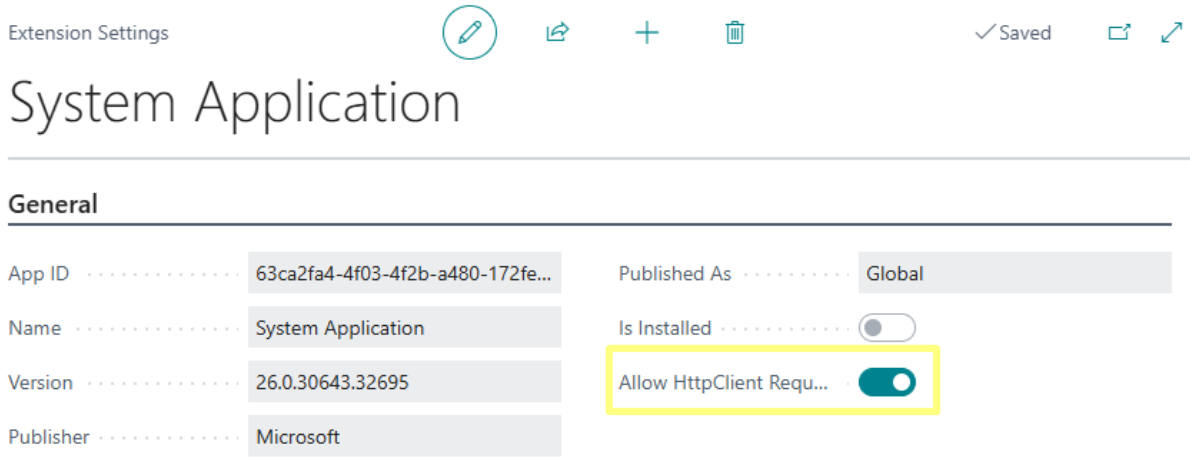
In *LS Pay EFT Setup* page, you have access to all setup options and pages.

Before we enable the setup, we should download a list of available Card Issuers with *Download Setup Data* action.



LS Pay EFT Setup page

***Note:** To be able to Download Setup Data, make sure that **System Application** has **Allow HttpClient Requests** property enabled in the **Extension Settings**. You can go there from the Extension Management page by clicking on the app name.*

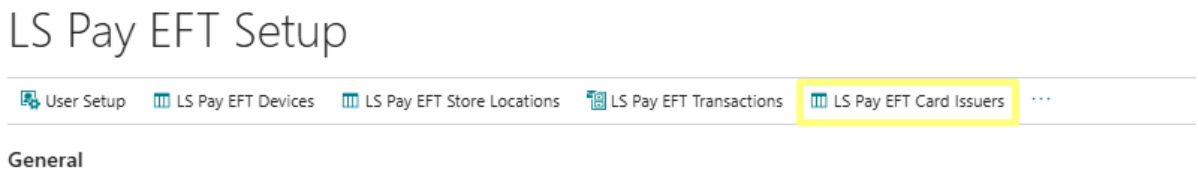


System Application extension settings page

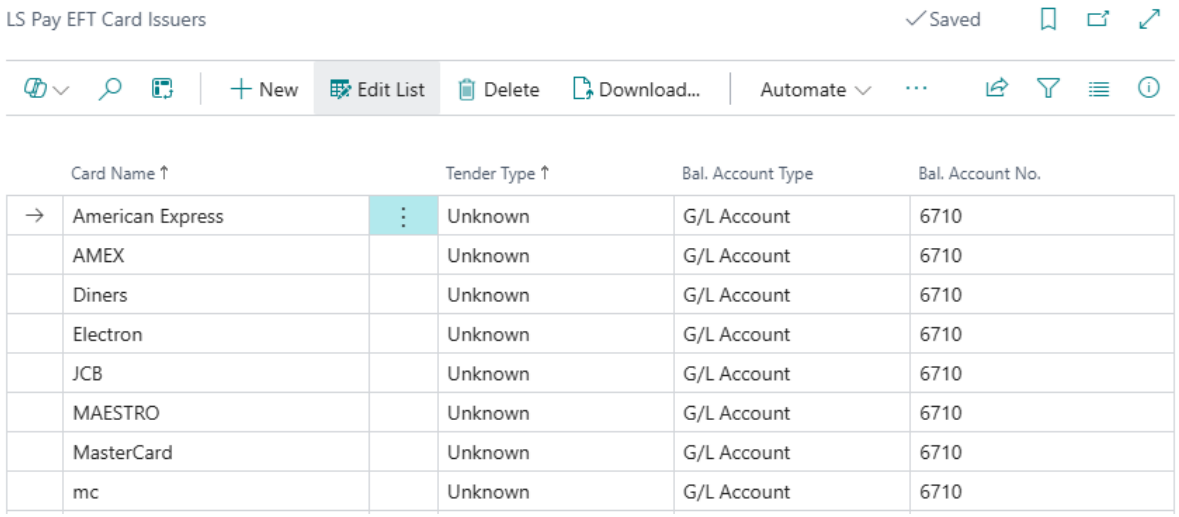
After *Download Setup Data* action is run, we will see a message on the screen.



Then we can finish setting up Card Issuers with specific Bal. Account Type and Bal. Account No. that we will use for each one when posting LS Pay EFT transactions. We also need to change Tender Type from Unknown to Credit, Debit or any other available type depending on the card usage.



LS Pay EFT Setup page

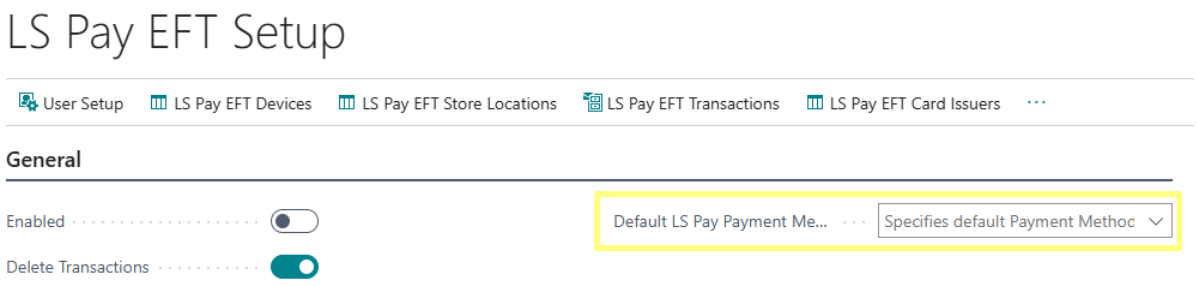


Card Name	Tender Type	Bal. Account Type	Bal. Account No.
American Express	Unknown	G/L Account	6710
AMEX	Unknown	G/L Account	6710
Diners	Unknown	G/L Account	6710
Electron	Unknown	G/L Account	6710
JCB	Unknown	G/L Account	6710
MAESTRO	Unknown	G/L Account	6710
MasterCard	Unknown	G/L Account	6710
mc	Unknown	G/L Account	6710

LS Pay EFT Card Issuers page

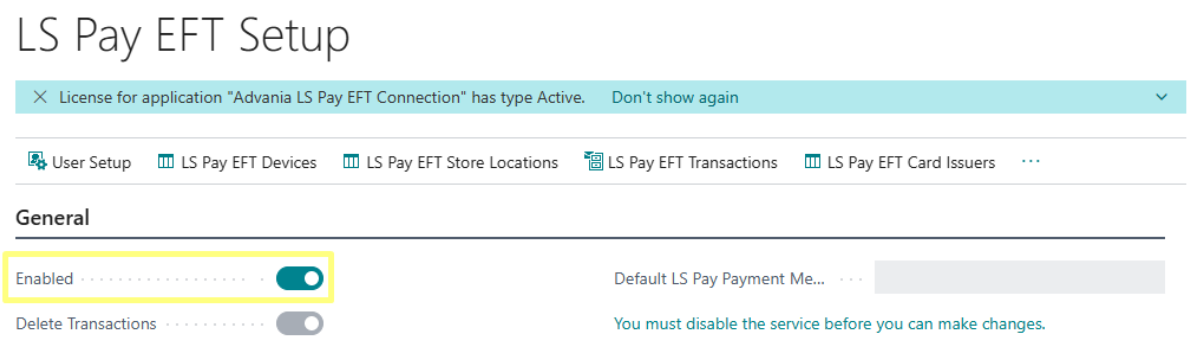
***Note:** If Card Issuers are set up, transactions will be automatically posted along with the standard posting process. However, if we don't set this up, the transaction posting will fail for that Card Issuer. In that case, after adding a specific Bal. Account No. to Card Issuers, we will need to use the custom Post Transaction action in the LS Pay EFT Transactions page for each transaction that failed in posting. After posting, we will need to manually apply payment customer ledger entries to a specific invoice.*

Default LS Pay Payment Method specifies Payment Method Code that is added to sales header if payment is added to the sales header. If this is empty in settings, the payment method that comes from the customer card is used (standard function).



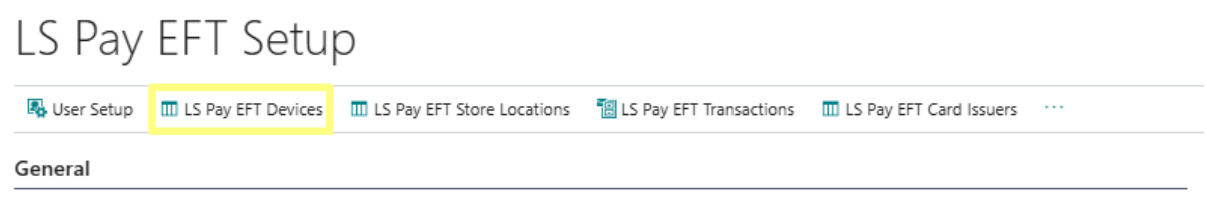
LS Pay EFT Setup page

Now we can enable the setup.



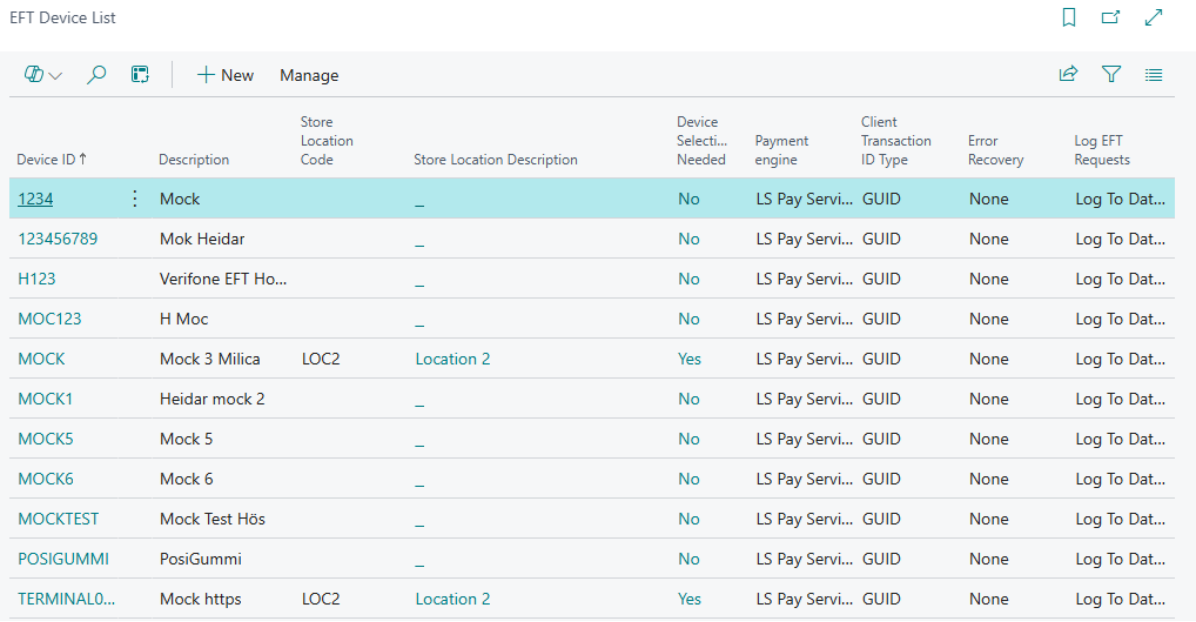
LS Pay EFT Setup page

To add LS Pay EFT devices and their POS information, click on *LS Pay EFT Devices* action (or search for it via Tell me search box).



LS Pay EFT Setup page

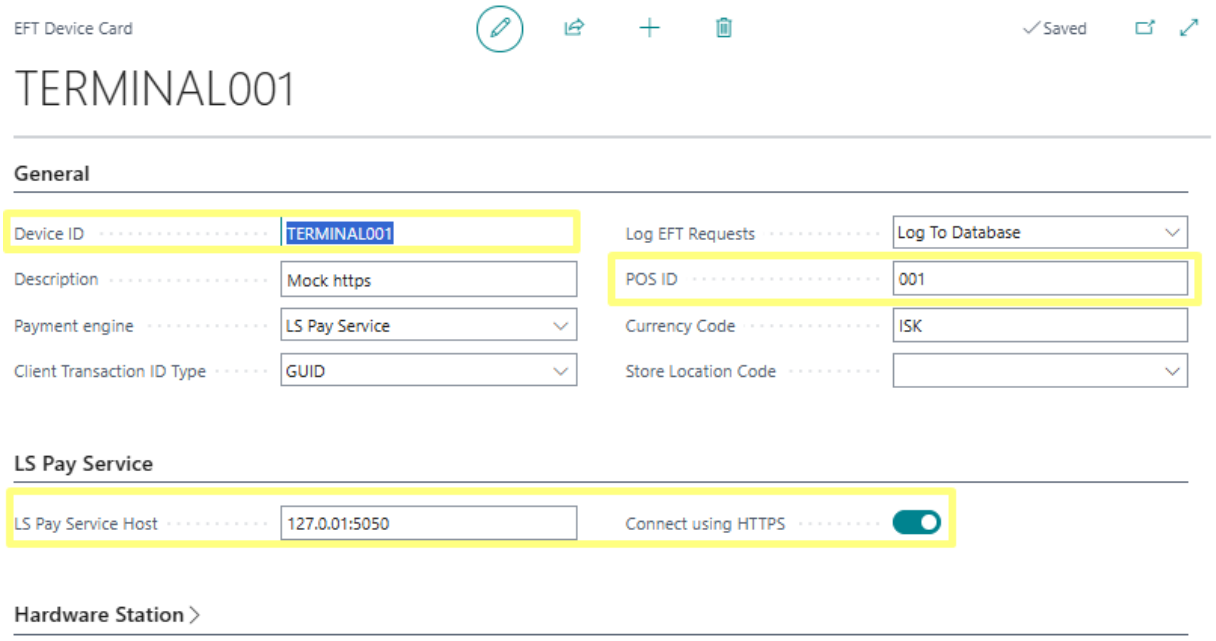
In the *EFT Device List* page, it is necessary to add all the devices that are set up in the LS Pay service and their required information.



Device ID	Description	Store Location Code	Store Location Description	Device Selecti... Needed	Payment engine	Client Transaction ID Type	Error Recovery	Log EFT Requests
1234	Mock		_	No	LS Pay Servi...	GUID	None	Log To Dat...
123456789	Mok Heidar		_	No	LS Pay Servi...	GUID	None	Log To Dat...
H123	Verifone EFT Ho...		_	No	LS Pay Servi...	GUID	None	Log To Dat...
MOC123	H Moc		_	No	LS Pay Servi...	GUID	None	Log To Dat...
MOCK	Mock 3 Milica	LOC2	Location 2	Yes	LS Pay Servi...	GUID	None	Log To Dat...
MOCK1	Heidar mock 2		_	No	LS Pay Servi...	GUID	None	Log To Dat...
MOCK5	Mock 5		_	No	LS Pay Servi...	GUID	None	Log To Dat...
MOCK6	Mock 6		_	No	LS Pay Servi...	GUID	None	Log To Dat...
MOCKTEST	Mock Test Hös		_	No	LS Pay Servi...	GUID	None	Log To Dat...
POSIGUMMI	PosiGummi		_	No	LS Pay Servi...	GUID	None	Log To Dat...
TERMINAL0...	Mock https	LOC2	Location 2	Yes	LS Pay Servi...	GUID	None	Log To Dat...

EFT Device List page

All the setup values that you need to enter in the fields are values from LS Pay service.



EFT Device Card

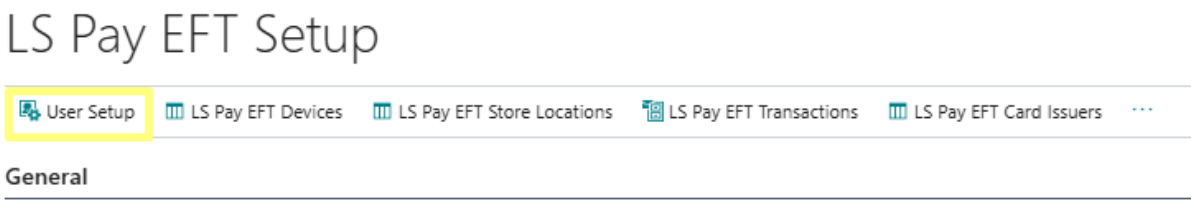
The field ***Device ID*** is used to identify each EFT device, and we copy it from *Connection ID* field of the terminal added to LS Pay service.

We also need to enter ***POS ID***. Copy the value of *Terminal ID* field of the terminal added to LS Pay service (click on the terminal to find this property value). Any id is enough for testing with the mock device.

Connect using HTTPS should be enabled in case we have installed an https LS Pay Service.

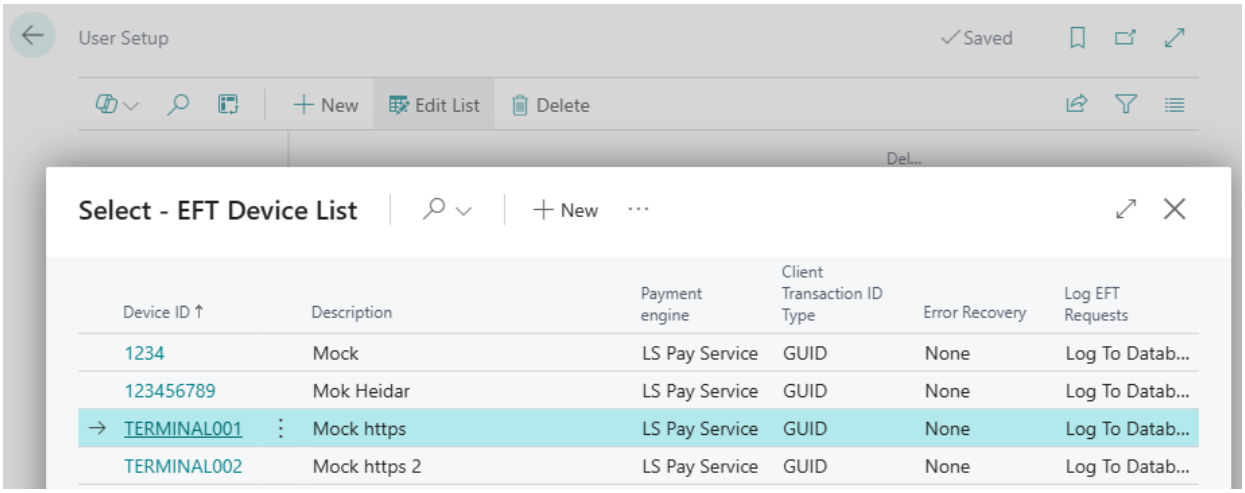
LS Pay Service Host should be copied from LS Pay Service settings tab (without https:// in front) – it can be found by clicking on the wheel icon in the upper right part of the LS Pay service page.

After EFT devices are added to *EFT Device List* page, they should be assigned to specific users in the *User Setup* page. To do that, run *User Setup* from the setup page (or via search box).

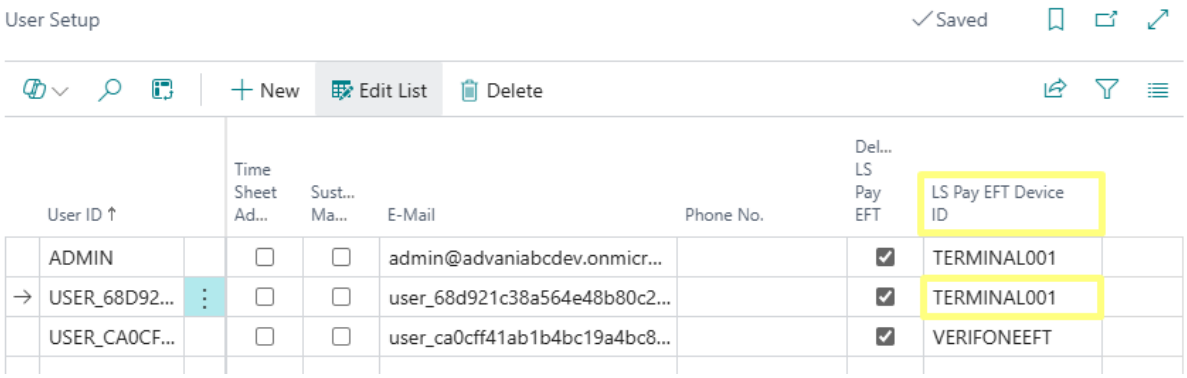


LS Pay EFT Setup page

In the *User Setup* page, go to the field *LS Pay EDT Device ID* and select the right EFT device for each user (same EFT device can be selected for multiple users).

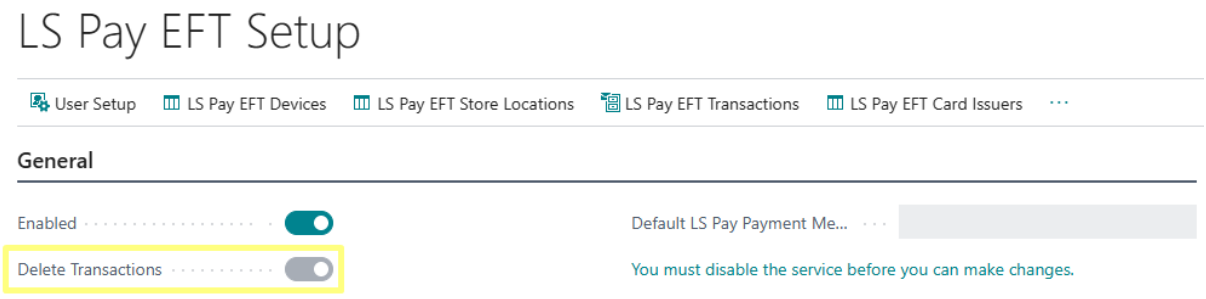


User Setup page



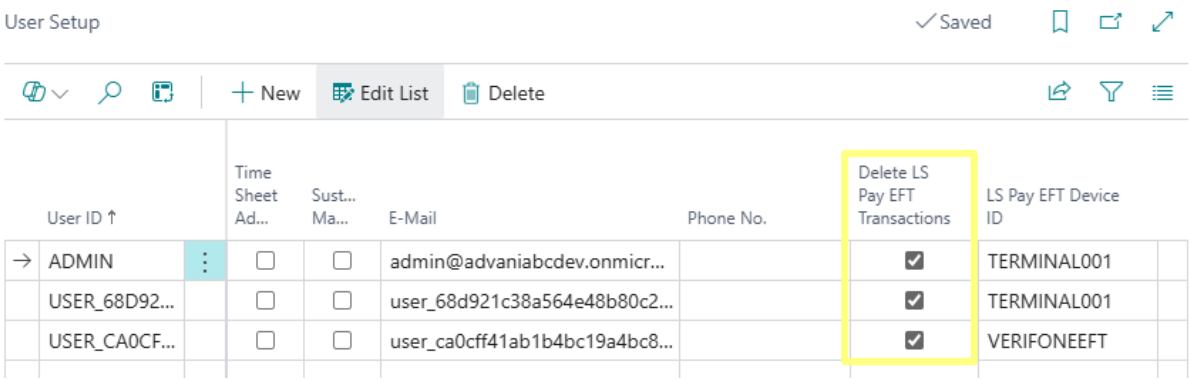
User Setup page

In the *LS Pay EFT Setup* page, the field *Delete Transactions* should be activated if you want to enable specific users to delete Authorized LS Pay EFT Transactions.



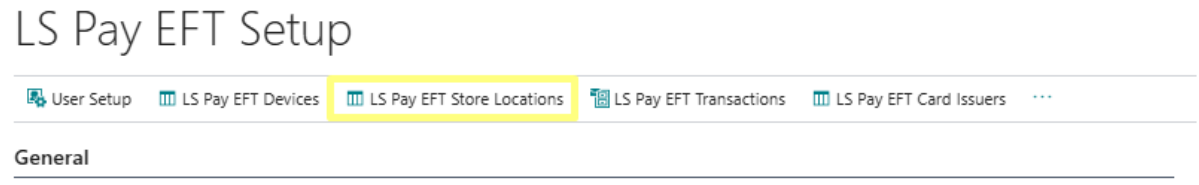
LS Pay EFT Setup page

After the field *Delete Transaction* is activated, it's necessary to go to the *User Setup* page and select the users that will be able to delete Authorized LS Pay EFT Transaction. This is done by activating the field *Delete LS Pay EFT Transactions* for selected users.

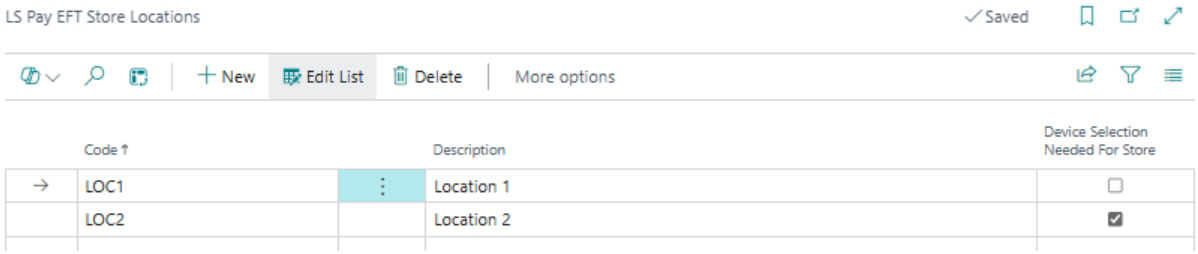


User Setup page

LS Pay EFT Store Locations can be defined in the setup, so that EFT payments can be routed to a specific device within a store, based on the user's assigned store location. When a store is configured to require device selection, the cashier is prompted to pick the target device at payment time; otherwise, the existing payment flow is unchanged.

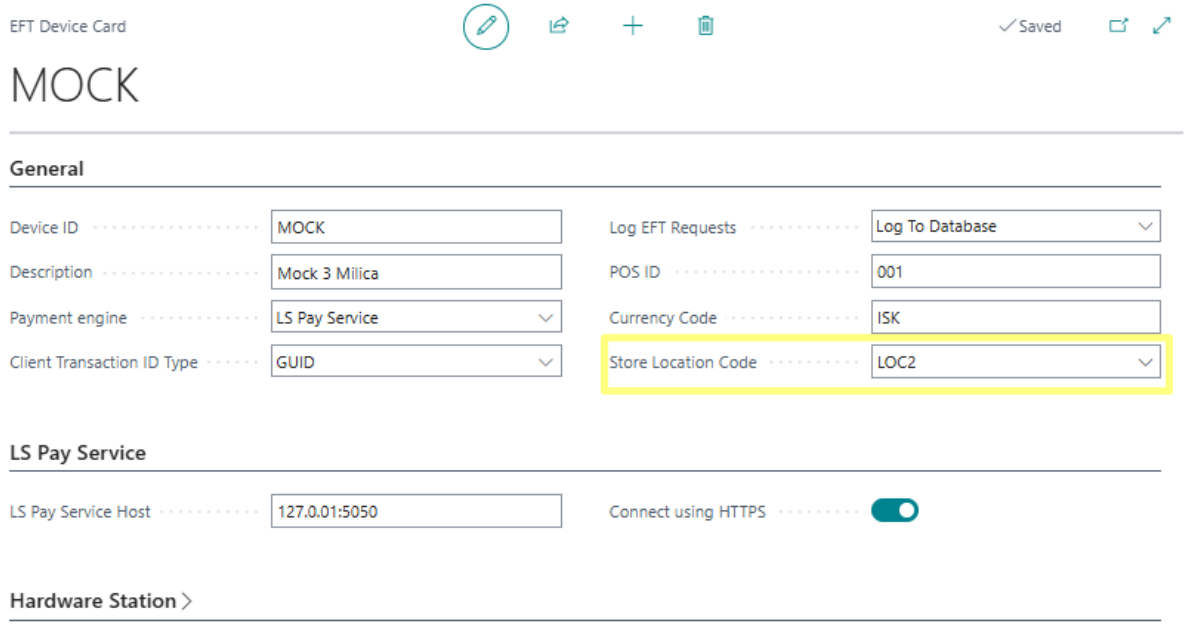


LS Pay EFT Setup page



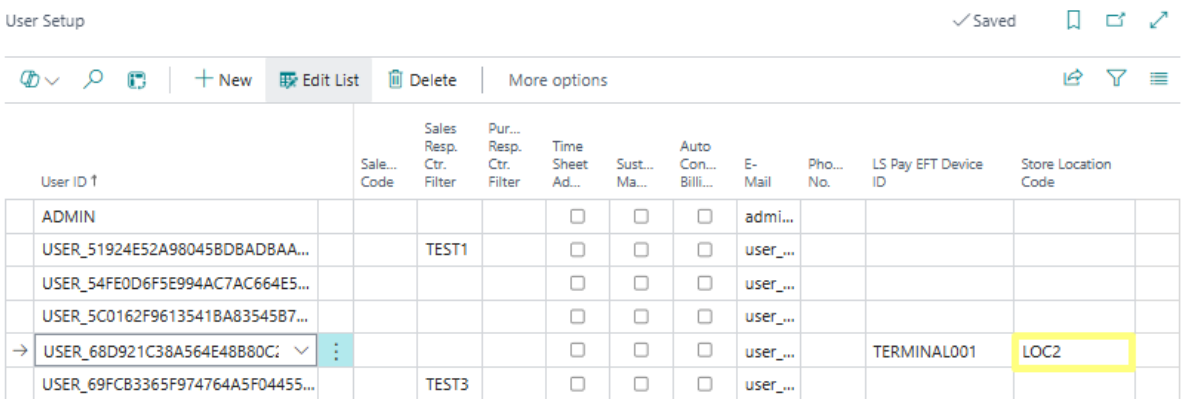
LS Pay EFT Store Locations page

After defining *LS Pay EFT Store Locations,* they can be assigned to a specific device.



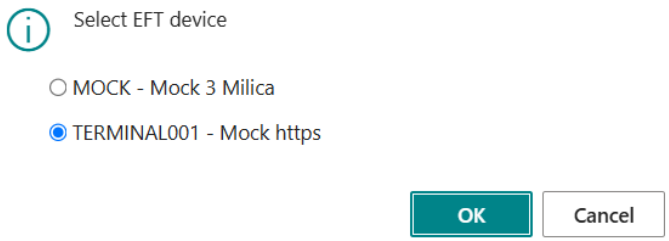
EFT Device Card page

If there is a *Store Location Code* assigned to a user in *User Setup,* devices linked to this store location will be available for payment for this user.



User Setup page

If there are multiple devices linked with the same store location, the user will be prompted to pick a device upon payment, but the one that is defined as default in the user setup will be selected automatically.

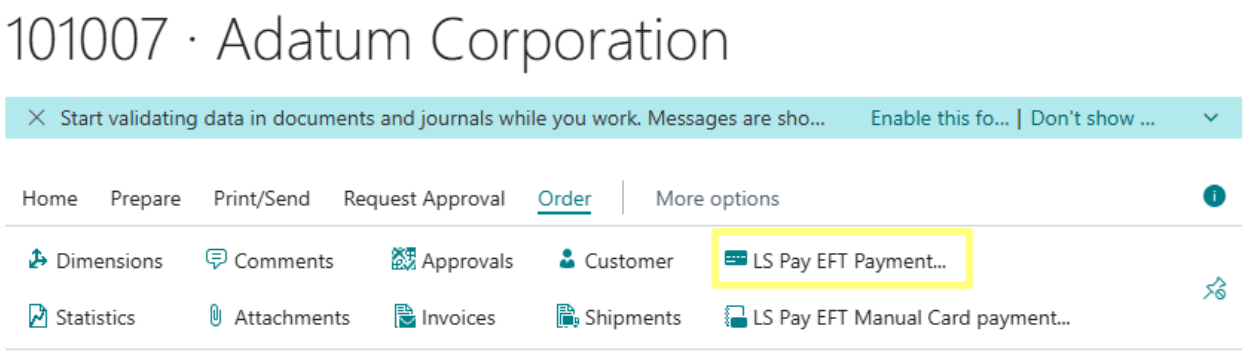


With this, the setup is complete.

1.3 ADVANIA LS PAY EFT CONNECTION FEATURES

Advania LS Pay EFT Connection solution enables Sales Orders, Sales Invoices, Sales Credit Memos and Sales Return Orders to be processed into POS Payments/Returns. There is also an option to Void Transactions. To show the process we will take a Sales Order as an example.

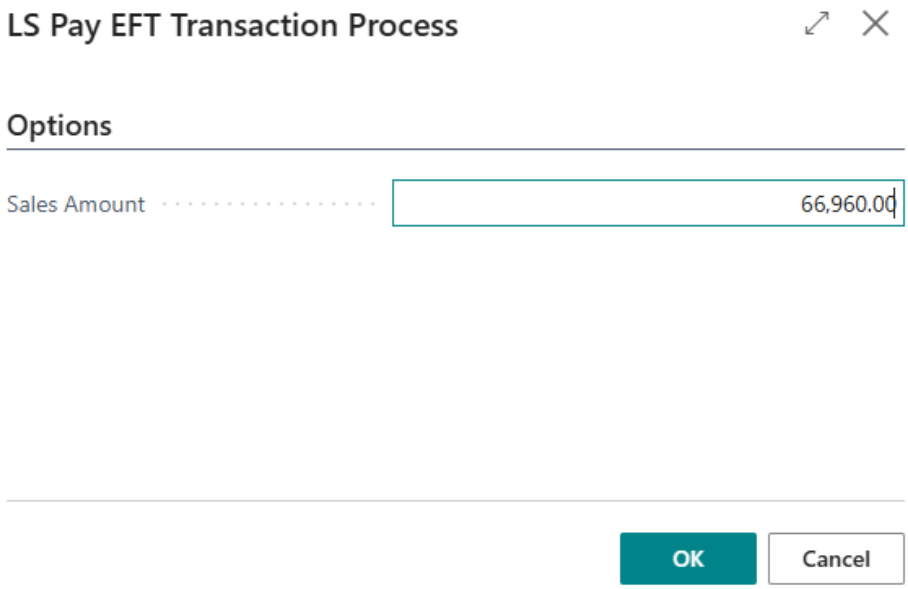
We start by opening *Sales Orders* page and creating a new Sales Order. After we have selected the customer and added items to the Sales Order, we go to the action *Orders* and then select *LS Pay EFT Payment*.



Sales Order page

When running this action, a window for entering Sales Order amount for payment will appear.

If you want to pay the remaining amount with LS Pay EFT you just select OK, otherwise, type in the amount you want to pay through the LS Pay EFT.



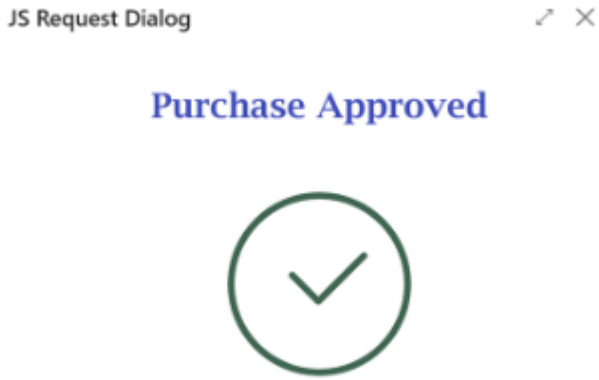
LS Pay EFT Transaction Process window

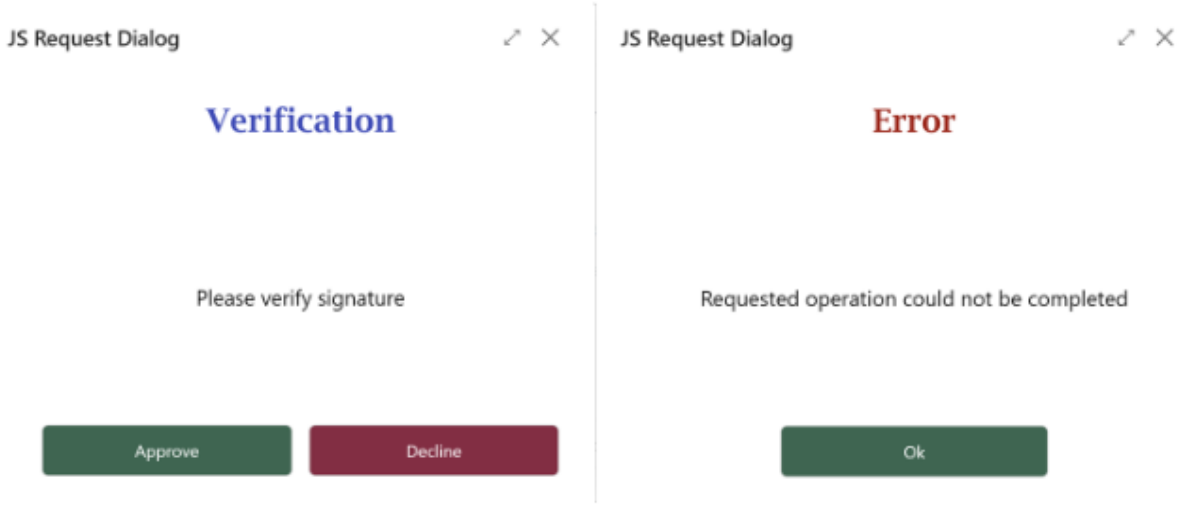
If the amount is 0 or you choose to cancel the action, the window closes and no attempt at communication with LS Pay is made.

If the amount is chosen and OK button is selected, the transaction goes to LS Pay and BC waits for the transaction to be completed there.



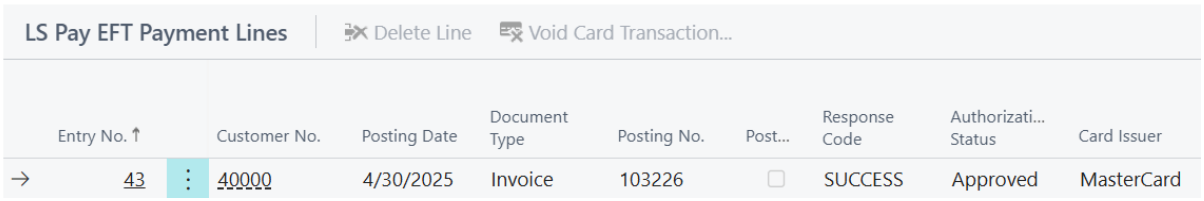
After that, the confirmation of payment or some other message will appear (e.g., if a card is rejected).





The option to print receipt will appear on the POS device (if it is equipped with printer).

After the transaction is done, you will get a new LS Pay EFT Transaction Line with information about the transaction (if it was successful/failed, plus other information) which you can see on the Sales Order under *LS Pay EFT Payment Lines*.



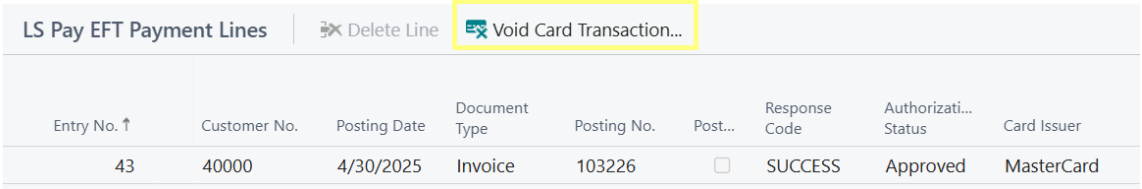
LS Pay EFT Payment Lines

When Sales Order is posted, the *LS Pay EFT Connection* solution will also post the LS Pay EFT Transaction as Payment.

The process for Sales Invoices, Sales Credit Memo and Sales Return Order is the same.

If you want to void a transaction, you can do so in the sales document, under *LS Pay EFT Payment Lines*. Select the line you want to void and then click *Void Card Transaction*.

This will send a Void command to the POS device and a new LS Pay EFT Transaction line will be added to the transaction lines.



LS Pay EFT Payment Lines

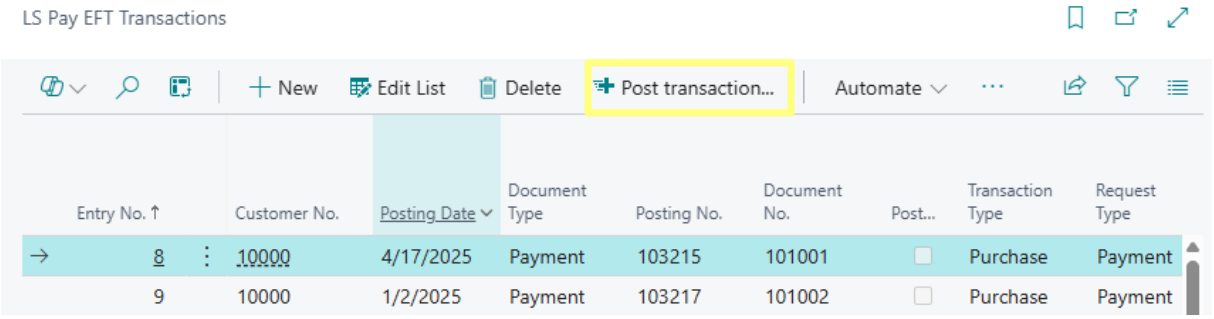
If a Transaction line has already been Voided or the transaction line is not approved by LS Pay, you will not be able to select the *Void Card Transaction* action.

If you want to access a list of all the transactions lines, you can do that by searching for *LS Pay EFT Transactions*.



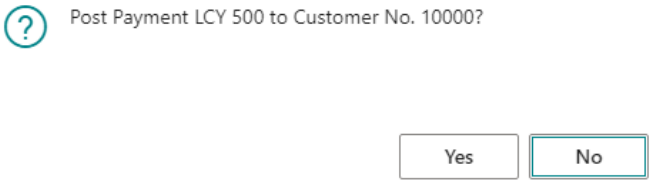
LS Pay EFT Transactions

If, for some reason, a Transaction Line didn't post with the posted document (e.g., if Card Issuer wasn't set up in *LS Pay EFT Card Issuers* page), you have the option to post it manually. To do that, you need to filter on the line you want to post and click *Post Transaction*.



LS Pay EFT Transactions

After that, you will get a confirmation window with the amount and Customer No.



By confirming this dialog window, the selected transaction will be posted as payment (or refund, depending on the type).