Resources and tips for migrating to Clover
Below are some helpful tips and links to reference along the way as you code to the Clover API.

- Safely collect credit card data and minimize PCI scope with our hosted iFrame tokenizer which you can access [here](#). We return a tokenized version of the card number, which can be used to run an authorization.
- Our hosted iFrame tokenizer authenticates merchant accounts with what we call a pakms key that is unique to each merchant. Learn how to obtain a unique pakms key for authentication [here](#).
- If you're also developing to the Rest Pay Display API, you can potentially save yourself overhead by setting up the proper Ecommerce permissions within that app. Learn more [here](#).
- Once you have a payment token, you will run authorizations against the eCommerce API. Find more details [here](#).
- Test a functioning iFrame sample [here](#). Remember to set the src value to point to the sandbox in order to [test in sandbox](#). Make sure to also update your pakms key, set const clover = ();
- Understand the breakdown of different Clover auth tokens and keys [here](#).
- Learn how to save tokens for future use [here](#).
- Clover often refers to this as an "app". To clarify, the "app" you are creating is a web app to drive authentication, rather than a traditional app.
- If you are uploading ERP reports via the API, you will have to use the Clover API link in this section

If you have any questions or need assistance with any of these steps, please reach out to your relationship manager.

API Merchants - Coding to the Clover API
If you are a First Data Global Gateway merchant who uses API integration, please follow the directions below to begin coding to the Clover API.

Get started with the Clover API
1. Begin by [creating your sandbox developer account](#)
   a. If you don't have a test merchant account, refer to this page [here](#).
2. Log into the [Clover Merchant Dashboard](#) and navigate to the Account & Setup section on the left. Confirm eCommerce and Business settings.

Test in the eCommerce Sandbox Environment
1. [Your developer dashboard](#) allows you to build and test your integration before you go live.
2. Create test merchants for different regions to simulate their different effects, including time zones, currencies, and permissions.

3. Utilize our sandbox environment to test your integration with Clover's payment functions. Our test payment gateway provides realistic responses to properly build your integration.

How to get started testing with Ecommerce APIs with Hosted iframe
1. Login into your test merchant account
    a. Go to the side menu, navigate to Account & Setup, click eCommerce, select **Ecommerce API tokens**.
    b. Select **Create New Token**.
    c. From the Integration Type dropdown, select Integration Type **API**.
    d. Select **Create Token** (this will be used as the bearer token for your API calls).
    e. For more information on the basics for Clover eCommerce, click [here](#).
2. Work on setting up [the Clover-hosted iframe](#) within your testing environment
    a. Once the iframe is configured, you will be able to generate a Card Source Token that can be used for Clover's Ecommerce APIs to place a payment on the tokenized card.
3. With the use of the Card Source Token that was created through the iframe, call our Charges endpoint
    a. Follow the steps mentioned [here](#) to create a charge.

Production instructions
1. Complete the same configurations you did for the sandbox environment, but now within our production environment.
    a. Log into your Clover account that was created for you and set up the eCommerce API token.
    b. Once that's complete, work on setting up the iframe within your production environment.
    c. Then configure the APIs your solution is planning on using.

If you have any questions or need assistance with any of these steps, please reach out to customer service.

How to continue recurring payments:

Your existing plans and subscriptions will be migrated to Clover.

If you have any questions or need assistance with any of these steps, please reach out to developer support.

Set up Hosted Checkout with Clover

If you are a First Data Global Gateway merchant who uses their Hosted Checkout solution, please follow the directions below to switch to Clover's Hosted Checkout API.

Click here to find instructions within Clover's developer portal on how to make this transition. If you have any questions or need assistance with any of these steps, please reach out to Customer Support.