

Express Checkout Integration Guideline

How Express Checkout Works

Express Checkout is a combination of the checkout process on your website, Express login and review pages, and Express Web Services RESTful API requests/responses.

To explain how Express Checkout works, this section presents a generalized checkout process and details how Express Checkout can be implemented with it. Each numbered step in the diagram coincides with what this guide refers to as Express Checkout Integration Points 1 and 2.

The Integration Points occur in the following sequence. Your customer always starts and completes his order on your website.

1. When a customer clicks Checkout with Express, he is transferred to Express to log in.
2. The customer logs in with his Express Id or his Google, Facebook Id.
3. The customer review his payment details and enter an OTP (One-time Password) sent to him via SMS or achieved by using Google Authenticator App on either iOS or Android.
4. Express then returns the customer to your website to finalize the order.

At each Integration Point, you must set certain required API element values, and you can affect the behavior and usefulness of Express Checkout by setting optional elements.

After a succinct description of the technical view of implementing Express Checkout, the remainder of this section includes detailed steps for each of the Integration Points.

Step	Description
1a	After selecting products to purchase, your customer clicks the Checkout with Express button on your website.
1b	Integration Point 1 You make an API call to pass Express Checkout the transaction details. You then transfer the customer to Express via an HTTP redirect. Your customer is transferred to Express.
2	Your customer signs in Express Checkout to approve the use of Express Checkout.
3a	The customer reviews transaction details.
3b	The customer enters the sent OTP via SMS or by Google Authenticator App to complete the order.
4	Integration Point 2 Express transfers your customer to your order confirmation page.

Table 1: Steps in Integrating Express Checkout

Step 1a: Customer Selects Express on Your Website

A customer with an authorized account in Express Checkout System is able to complete the purchase.

Step 1b: Integration Point 1

Integration Point 1 is where you transfer a customer's browser to Express Checkout

Integration Point 1 consists of the following events and actions:

1. The customer clicks the *Checkout* with Express Checkout button.
2. You send *SetCheckout request* to Express.
3. Express Checkout returns the *SetCheckout response*.
4. You redirect the customer's browser to Express Login page.

Usage Notes About SetCheckout Elements

The following is important usage information about some elements in the first RESTful request for Express Checkout. Checkout System provides RESTful webservice with JSON format. For complete details about all elements, see Express Checkout API Reference.

SetCheckout Request

Key	Value	Notes
method	SetCheckout	The method enables Checkout system initialize a transaction.
merchant	Username and signature	The value for 'merchant' including merchant credentials (username and signature) is attached to pass the authentication phase
invoice	Invoice Id, description and invoice item details	In the invoice, there are InvoiceId, invoice description and item list. Each item has SKU, name, price and quantity.

returnUrl	URL string	URL to which the customer's browser is returned after completing the purchase. Express recommends that the value of the required ReturnURL element be the order confirmation page.
cancelUrl	URL string	URL to which the customer is returned if he decides to cancel the purchase or if the transaction failed.

Table 2: SetCheckout Request Usage

SetCheckout Response

Success Response

Key	Value	Notes
data	checkoutId, status, refId, detail	<ul style="list-style-type: none"> - CheckoutId is a timestamped token by which you identify to Express that you are processing this payment with Express Checkout. - status of a transaction will be from 'initial', 'placed', 'reviewed', 'processing', 'completed', 'failed', 'canceled', 'refunded' - refId refers to transaction id of Checkout System. - detail describes some extra information.

Table 3: Success Response

Error Response

Key	Value	Notes
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error	defined error string	<ul style="list-style-type: none"> - SERVICE_UNAVAILABLE : server is busy - NOT_SUPPORTED_METHOD : the method described in the request is not in the supported method list - NON_EXISTED_MERCHANT : w r o n g merchant - WRONG_MERCHANT_CREDENTIALS: wrong signature - CHECKOUT_NOT_FOUND : given checkout id is not found in the system
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Table 4: Error Response

Transferring Your Customer to Login Page

After you receive a successful response from Express, you should add the value of the checkoutId from SetCheckout Response as a name/value pair to the following URL, and redirect your customer's browser to it:

https://<Host>/web/login.htm?checkoutId=value_from_SetCheckoutResponse

Step 2: Customer Approves the Use of Express Checkout

The next step after redirecting the customer's browser to Express with the response checkoutId is for the customer to approve Express as the payment method for his purchase. The customer is redirected to the Express login page to enter his Express Id and password as shown in Figure 1.

The customers can user their existing Google Id or Facebook Id as Express Id to log in Express Checkout System

Step 3a: Customer Reviews Transaction Details

The customer then:

1. Review the purchase
2. Click 'Pay' to complete the purchase

Figure 3: Review Page

Figure 2: Express Login Page

Step 3b: Customer Enter One-Time Password (OTP)

The customer is asked to enter the OTP via SMS or Google Authenticator to confirm the purchase.

Figure 4: Two factor Authentication

Step 4: Integration Point 2

Express transfers your customer to your order confirmation page which is set in the 'returnUrl' of 'SetCheckout' Request in step 1b.