

Worldpay Hosted Payments Integration Quick Start Guide

1. Overview

This document provides basic information for developers integrating hosted payments.

1.1. What Is Hosted Payments?

Hosted Payments allows an existing merchant with WorldPay credentials (**AccountID**, **AccountToken**, **AcceptorID**, **ApplicationID**) to enable their web server/e-commerce solution for payment acceptance by allowing the collection manually-typed credit card information into a secure WorldPay-hosted page. This credit card information can then be processed for a Sale, a Pre-Auth, or it can be tokenized for future payment requests.

1.2. IPS Payment Bridge

To use Hosted Payments, WorldPay must first certify the solution. To enable IPS customers immediate access to Hosted Payments without requiring them to certify their own web solution, IPS has certified a Payment Bridge with WorldPay. IPS customers can utilize the payment bridge to execute certified Hosted Payment requests with WorldPay. This is accomplished by posting transaction requests to **<https://hpb.idtechproducts.com/execute>** (**<https://uat.hpb.idtechproducts.com/execute>** for test transactions) with all required and optional parameters, the IPS Payment Bridge will then forward to WorldPay using certified logic. Requests can be made using NameValuePairs in the URL, or by formatting the body as a JSON packet and posting it to the target URL.

2. Transaction Parameters

The following list is of all parameters that can be passed to the IPS Payment Bridge. These parameters are defined by WorldPay.

Parameter Names	Type	Notes
AccountID	Required	
AccountToken	Required	
AcceptorID	Required	
License	Conditional	Needed if Live Transactions (isTest=0)
Amount	Required	
ReferenceNumber	Required	
DuplicateCheckDisableFlag	Optional	1 = true, 0 = false
DuplicateOverrideFlag	Optional	1 = true, 0 = false
MerchantSuppliedTransactionID	Optional	1 = true, 0 = false
TerminalID	Required	
LaneNumber	Required	
TransactionID	Conditional	For Completion (Type 10), Void (Type 12), Reverse (Type 11), Create Token (Type 14), Refund (Type 21)
PaymentAccountID	Conditional	Needed when updating PaymentAccount
PaymentAccountReferenceNumber	Conditional	Needed when creating or updating PaymentAccount
CardNumber	Conditional	For Customer Card Credit (Type 13)
ExpirationYear	Conditional	For Customer Card Credit (Type 13)
ExpirationMonth	Conditional	For Customer Card Credit (Type 13)
AddressEditAllowed	Optional	
BillingName	Optional	
BillingEmail	Optional	
BillingPhone	Optional	
BillingAddress1	Optional	Should be included with keyed transactions if AVS desired
BillingAddress2	Optional	
BillingCity	Optional	
BillingState	Optional	
BillingZipcode	Optional	Should be included with keyed transactions if AVS desired
ShippingName	Optional	
ShippingEmail	Optional	
ShippingPhone	Optional	
ShippingAddress1	Optional	

Parameter Names	Type	Notes
ShippingAddress2	Optional	
ShippingCity	Optional	
ShippingState	Optional	
ShippingZipcode	Optional	
CommercialCardCustomerCode	Optional	
TransactionSetup	Required	CreditCardSale = 1 CreditCardAuthorization = 2 CreditCardAVSOnly = 3 PaymentAccountCreate = 7 PaymentAccountUpdate = 8 Completion = 10 Reversal = 11 Void = 12 Credit = 13 PaymentAccountCreateTransID = 14 PaymentAccountQuery = 15 PaymentAccountRecordCount= 16 PaymentAccountRecordTokenReport= 17 PaymentAccountRecordDelete= 18 PaymentAccountSale= 19 PaymentAccountAuthorization= 20 Refund = 21
CVVRequired	Optional	1 = true, 0 = false
AutoReturn	Optional	1 = true, 0 = false
CompanyName	Optional	
LogoURL	Optional	
Tagline	Optional	
WelcomeMessage	Optional	
ReturnURL	Optional	
ReturnURLTitle	Optional	
OrderDetails	Optional	
ProcessTransactionTitle	Optional	
CustomCss	Optional	
isTest	Optional	1 = true, 0 = false. False by default Test transactions url: https://uat.hpb.idtechproducts.com/ Live transactions url: https://hpb.idtechproducts.com/
TipAmount	Optional	

Parameter Names	Type	Notes
SalesTaxAmount	Optional	
CashBackAmount	Optional	
Page	Optional	
Embedded	Optional	1 = true, 0 = false. False by default When true, the displayed form is optimized for mobile browsers

3. Transaction Setup Types

The **TransactionSetup** parameter is required and can contain a valid value from 1-20. The types of transaction are as follows:

- **CreditCardSale = 1**
 - Credit Card Sale; requires **Amount** > 0.00.
- **CreditCardAuthorization = 2**
 - Credit Card Pre-Auth; requires **Amount** > 0.00.
- **CreditCardAVSOnly = 3**
 - AVS Check Only. Requires **Amount** = 0.00.
- **PaymentAccountCreate = 7**
 - Requests a payment token to be returned from the entered credit card info.
- **PaymentAccountUpdate = 8**
 - Updates a previous payment token.
- **Completion = 10**
 - Completion from a previous pre-auth. Requires **TransactionID**.
- **Reversal = 11**
 - Reversal from a previous transaction. Requires **TransactionID**.
- **Void = 12**
 - Void from a previous transaction. Requires **TransactionID**.
- **Credit = 13**
 - Credit from card. Requires credit card number.
- **PaymentAccountCreateTransID = 14**
 - Create payment token from previous transaction. Requires **TransactionID**.
- **PaymentAccountQuery = 15**
 - Query payment token.
- **PaymentAccountRecordCount = 16**
 - Payment token count.
- **PaymentAccountRecordTokenReport = 17**
 - Payment token report.
- **PaymentAccountRecordDelete = 18**
 - Delete payment token.
- **PaymentAccountSale = 19**
 - Perform sale from a payment token.
- **PaymentAccountAuthorization = 20**
 - Perform a pre-auth from payment token.
- **Refund = 21**
 - Refund from a previous transaction. Requires **TransactionID**.

4. Request Format: Name Value Pairs (NVP)

The request format is as follows (UAT for test transactions):

```
https://uat.hpb.idtechproducts.com/execute?<param1=val>&<param2=val>&<paramX=val>
```

```
https://hpb.idtechproducts.com/execute?<param1=val>&<param2=val>&<paramX=val>
```

The parameters should include, but not limited to:

Parameter	Description
TransactionSetup	TransactionType values 1-20.
ReturnURL	The web page that will receive the results from the transaction.
AutoReturn	1 if the results are automatically returned to the ReturnURL , omit or set to 0 if results are displayed from WorldPay and another button is required to be clicked to execute the ReturnURL .
isTest	1 if running test transactions, omit or set to 0 if running live transactions.
Credentials	Provide AccountID , AccountToken , AcceptorID , ApplicationID (test or live, depending on isTest).
License	Provide if live transactions.
ReferenceNumber	Required unique value. Omit and a random value will be generated.
LaneNumber	Required value. Does not have to be unique.
TerminalID	Required value. Does not have to be unique.
Amount	Required value. Amount to charge.
CVVRequired	1 if CVV must be provided, omit or 0 if CVV is not required to be provided.
BillingAddress1	If AVS street address checking is desired, enter value for BillingAddress1 .
BillingZipCode	If AVS ZIP code checking is desired, enter a value for BillingZipCode .
Embedded	If running on mobile platform, setting Embedded=1 will optimize the credit card collection form for mobile viewing

The **ReturnURL** must be defined as a page on the merchant web service that will process the response. The response will be as follows.

```
<ReturnURL>?param1=val>&<param2=val>&...<paramX=val>
```

5. Transaction Example: Name Value Pairs (NVP)

Example Credit Card Sale transaction for \$16.00, IPS test credentials, requiring CVV and will use AVS, with an auto-return url defined as Google. Note: the example uses a UAT URL because this is a test transaction.

```
https://uat.hpb.idtechproducts.com/execute?isTest=1&ReturnURL=https://www.google.com&AutoReturn=1&AccountToken=E1EB3EFB049DFB599F1CB454E1CFC4FD14BF90BCE74456AE9E9490D7D609B466C81A3801&AcceptorID=364798674&AccountID=1188346&TransactionSetup=1&Amount=16.00&ReferenceNumber=001&TerminalID=002&LaneNumber=003&BillingAddress1=100&BillingZipcode=33606&CVVRequired=1
```

Sample response to above, when using Visa 4445222299990007, exp 12/22, CVV 382:

```
https://www.google.com/?HostedPaymentStatus=Complete&TransactionSetupID=AAEE184C-6779-4572-89B7838D20086146&TransactionID=159599897&ExpressResponseCode=0&ExpressResponseMessage=Approved&AVSResponseCode=Y&CVVResponseCode=M&ApprovalNumber=289337&LastFour=0007&ValidationCode=BD46141F887E4653&CardLogo=Visa&ApprovedAmount=16.00&BillingAddress1=100&BillingZipcode=33606&Bin=444522&Entry=Manual&NetTranID=221860112425222&TranDT=2022-07-05%2011:24:25
```

6. Request Format: JSON

The request format is as follows (using UAT for test transactions):

Test URL: <https://uat.hpb.idtechproducts.com/execute>

Live URL: <https://hpb.idtechproducts.com/execute>

The parameters should include but are not limited to:

Parameter	Description
TransactionSetup	TransactionType values 1-20.
ReturnURL	The web page that will receive the results from the transaction.
AutoReturn	1 if the results are automatically returned to the ReturnURL , omit or set to 0 if results are displayed from WorldPay and another button is required to be clicked to execute the ReturnURL .
isTest	1 if running test transactions, omit or set to 0 if running live transactions.
Credentials	Provide AccountID , AccountToken , AcceptorID , ApplicationID (test or live, depending on isTest).
License	Provide if live transactions.
ReferenceNumber	Required unique value. Omit and a random value will be generated.
LaneNumber	Required value. Does not have to be unique.
TerminalID	Required value. Does not have to be unique.
Amount	Required value. Amount to charge.
CVVRequired	1 if CVV must be provided, omit or 0 if CVV is not required to be provided.
BillingAddress1	If AVS street address checking is desired, enter value for BillingAddress1 .
BillingZipCode	If AVS ZIP code checking is desired, enter a value for BillingZipCode .
Embedded	If running on mobile platform, setting Embedded=1 will optimize the credit card collection form for mobile viewing

The **ReturnURL** must be defined as a page on the merchant web service that will process the response. The response will be a JSON object.

7. Transaction Example: JSON

Example Credit Card Sale transaction for \$16.00, IPS test credentials, requiring CVV and will use AVS, with an auto-return URL defined as Google. Note: the example uses a UAT URL because this is a test transaction.

Test URL: (POST) <https://uat.hpb.idtechproducts.com/execute>

Body:

```
{
  "isTest": 1,
  "ReturnURL": "https://www.google.com",
  "AutoReturn": 1,
  "AccountToken":
  "E1EB3EFB049DFB599F1CB454E1CFC4FD14BF90BCE74456AE9E9490D7D609B466C81A3801",
  "AcceptorID": "364798674",
  "AccountID": "1188346",
  "TransactionSetup": 1,
  "Amount": "16.00",
  "ReferenceNumbe": "001",
  "TerminalID": "002",
  "LaneNumber": "003",
  "BillingAddress1": "100",
  "BillingZipcode": "33606",
  "CVVRequired": 1
}
```

The request returns a URL. You must redirect your browser to this URL. Example response:

```
{
  "url": "https://certtransaction.hostedpayments.com/?TransactionSetupID=07F1740A-1705-4718-AD6D-8126D6193825"
}
```

After the transaction is complete, the JSON response object will be returned to the ReturnURL specified in the request. Example:

```
{
  "HostedPaymentStatus": "Complete",
  "TransactionSetupID": "AAEE184C-6779-4572-89B7838D20086146",
  "TransactionID": "159599897",
  "ExpressResponseCode": 0,
  "ExpressResponseMessage": "Approved",
  "AVSResponseCode": "Y",
  "CVVResponseCode": "M",
  "ApprovalNumber": "289337",
  "LastFour": "0007",
  "ValidationCode": "BD46141F887E4653",
  "CardLogo": "Visa",
}
```

```
"ApprovedAmount": "16.00",  
"BillingAddress1": "100",  
"BillingZipcode": "33606",  
"Bin": "444522",  
"Entry": "Manual",  
"NetTranID": "221860112425222",  
"TranDT": "2022-07-05%2011:24:25"  
}
```