



Secure Web Pay Checkout Integration Guide v1.10

Revision History

Document Version	Date	Changes
1.0	06/01/2015	Initial
1.1	07/02/2015	Added note explaining disparities or response hash signatures between version 1.0 and version 2.0 of SWP Checkout.
1.2	09/02/2015	Added the "Using Postback Information" section to the SWP Checkout chapter.
1.3	09/25/2015	Updated character length for the following fields: <ul style="list-style-type: none"> • pg_consumerorderid • pg_walletid • pg_merchant_data 1-4
1.4	11/16/2016	Instances of pg_return_URL changed to pg_return_url for consistency.
1.5	02/27/2017	<ul style="list-style-type: none"> • Removed references to CMI. • Updated the live URL for the SWP Embedded Capture Template • Updated the hash parameter to TSHash.
1.6	08/16/2016	<ul style="list-style-type: none"> • Removed references to SWP Embedded Charge Template, Embedded Capture Template, and SWP Redirect. • New layout to accommodate just the SWP Checkout section.
1.7	12/13/2017	<ul style="list-style-type: none"> • Added the formula for validating the pg_ts_hash_response parameter in postbacks. • Updated list of potential postback parameters
1.8	07/24/2018	Added the pg_receipt parameter
1.9	10/21/2020	Added the pg_entry_class_code parameter.
1.10	05/30/2021	Added U91 and U92 response codes.

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Introduction

Forte's Secure Web Pay (SWP) Checkout

- Captures purchase information via swipe or key entry
- Processes credit card, EFT, and recurring transactions
- Automatically responds to your point-of-sale machine approving or denying the transaction

Overview

SWP Checkout is easy to integrate with your browser-based applications. It works by calling a customizable Forte-hosted payment form where customers can enter and securely submit both ad-hoc and recurring transaction information. SWP Checkout includes customer authentication, tokenization support, and is PCI-DSS compliant.

Advantages of SWP Checkout

SWP Checkout enables web merchants to call a Forte-hosted payment form to capture and securely submit transaction information. Merchants can customize the look and feel of the hosted payment form by selecting either a predefined payment form style or passing in configuration fields with the call to the payment form.

With a SWP Checkout integration, merchants

- Do not have to maintain a Secure Sockets Layer (SSL) certificate
 - Reduce PCI scope and fraud liability
 - Enjoy enhanced security through Forte's PCI and NACHA audits
-

Understanding Checkout Parameters

The following table displays the types of parameters merchants can use in the SWP Checkout application. This table should be used in conjunction with the request and response parameter tables displayed in the following sections.

Parameter Type Definitions

Type	Description	Characters Allowed	Case Sensitive?
M	Money	0–9 (and an optional period)	N/A
N	Numeric	0–9 (no period allowed)	N/A
A	Alphanumeric	Any printable ASCII	Yes
L	List-Based Value	Value must be in the specified list	No
D	Date	Format: DD/MM/YYYY	N/A
T	True/False	True or False only	No

Forte uses specific parameters to populate values on the SWP Checkout payment page as read-only. Prefixing a parameter with an `e_` will allow the values to be shown as editable.

Request Parameters

Name	Description	Req	Type
Bill To			
<code>pg_billto_postal_name_company</code>	Company Name	O	A20
<code>pg_billto_postal_name_first</code>	First Name	R	A25
<code>pg_billto_postal_name_last</code>	Last Name	R	A25
<code>pg_billto_postal_street_line1</code>	Address1	O	A35
<code>pg_billto_postal_street_line2</code>	Address2	O	A35
<code>pg_billto_postal_city</code>	City	O	A25
<code>pg_billto_postal_stateprov</code>	State	O	A10
<code>pg_billto_postal_postalcode</code>	Postal Code	O	A10
<code>pg_billto_telecom_phone_number</code>	Phone Number (<i>nnn-nnn-nnnn</i> or <i>nnnnnnnnnn</i>)	O	A15
<code>pg_billto_online_email</code>	Email address	O	A40
Ship To			
<code>pg_shipto_postal_name</code>	Ship to Name	O	A35
<code>pg_shipto_postal_street_line1</code>	Ship to Address 1	O	A35
<code>pg_shipto_postal_street_line2</code>	Ship to Address 2	O	A35
<code>pg_shipto_postal_city</code>	Ship to City	O	A25
<code>pg_shipto_postal_stateprov</code>	Ship to State	O	A10
<code>pg_shipto_postal_postalcode</code>	Ship to Zip Code	O	A10

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Understanding Checkout Parameters, Continued

Request
Parameters,
continued

Name	Description	Req	Type
Order Information			
pg_consumer_id	This field identifies the customer and can be searched for in Virtual Terminal. This is an API-only field and is not shown on the Payments page.	O	A15
pg_consumerorderid	Invoice number of the transaction. Shows up in Virtual Terminal as Consumer Order ID or your labelled field. This field should be numeric for First Data customers to prevent downgrading. Set in Virtual Terminal as Optional or Required to use.	O	A36
pg_wallet_id	Description of the transaction. Shows up in Virtual Terminal as Wallet ID or as your labelled field. Set in Virtual Terminal as Optional or Required to use.	O	A15
pg_merchant_data_1	Optional Field 1. This field is off by default. Set in Virtual Terminal as Optional or Required to use.	O	A255
pg_merchant_data_2	Optional Field 2. This field is off by default. Set in Virtual Terminal as Optional or Required to use.	O	A255
pg_merchant_data_3	Optional Field 3. This field is off by default. Set in Virtual Terminal as Optional or Required to use.	O	A255
pg_merchant_data_4	Optional Field 4. This field is off by default. Set in Virtual Terminal as Optional or Required to use.	O	A255
pg_line_item_header	Line items header. Example: name, quantity, price, etc.	O	A8000
pg_line_item_1	Line item 1–100. Example: alpha, 1, 1.00	O	—
pg_sales_tax_amount	Sales tax amount. This is an API-only field. It is a read-only field on the Payments page.	O	M
pg_entry_class_code	Use one of the following values if you want to pass an echeck transaction with another SEC code besides the default value WEB : <ul style="list-style-type: none"> • ARC • BOC • CCD • CIE • CTX • POP • POS • PPD • RCK • TEL <p>NOTE: Your merchant configuration must be set up to support the SEC code you select.</p>	O	A3

Continued on next page

Understanding Checkout Parameters, Continued

Request
Parameters,
continued

Name	Description	Req	Type
Recurring			
pg_scheduled_transaction	0 = not a scheduled transaction 1 = scheduled transaction	O	N1
pg_schedule_quantity	Quantity of transactions to be performed. Set to 0 for a single future transaction. This parameter is required for scheduled transactions.	R	N9
pg_schedule_frequency	10 = Weekly 15 = Bi-Weekly (Every 14 days) 20 = Monthly 25 = Bi-Monthly (Every 2 months) 30 = Quarterly (Every 3 months) 35 = Semi-Annually 40 = Annually Set to 0 for a single future transaction. This parameter is required for scheduled transactions.	R	L
pg_schedule_start_date	Specifies the start date of the next recurring transaction (MM/DD/YYYY). Today or greater. This parameter is required for scheduled transactions.	R	D
pg_schedule_continuous	0 = Not continuous 1 = Continuous Set to 0 for single future transaction.	O	N1
Authentication			
pg_api_login_id	API Login ID in the Virtual Terminal	R	
pg_transaction_type	10 = Credit Card Sale 20 = eCheck Sale 11 = Credit Card Authorization 21 = eCheck Authorization This field is optional for HTML integrations. If it is not sent, the customer will have both sale options available depending on the permissions in the Virtual Terminal. This parameter is required for signed transactions.	R	L
pg_version_number	Current version 1.0. This parameter is required for signed transactions.	R	A3
pg_total_amount	Total amount of transaction to be charged/credited to the customer. This parameter is required for signed transactions.	R	
pg_utc_time	UTC time in ticks (since 01/01/0001 00:00:00). This parameter is required for signed transactions.	R	

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Understanding Checkout Parameters, Continued

Request Parameters, continued

Name	Description	Req	Type
Authentication			
pg_transaction_order_number	Random number identifying the transaction. This parameter is required for signed transactions.	R	
pg_ts_hash	The hash generated by the transaction signing fields. This parameter is required for signed transactions.	R	
Other			
pg_return_url	The page the customer will be returned to after a transaction has completed. This page should contain a server-side script to parse the data being posted to it; however, it can be a static HTML page as well. If this field is not set or is invalid, the entire transaction is completed on Forte's side. The URL sent must match at least one of the URLs set in Virtual Terminal.	O	A100
pg_continue_url	After any payment has been completed (Pass or Fail), this will be the URL the customer is directed to when he/she presses the Return button.	O	A100
pg_continue_description	The text of the button used for the Continue URL . If not passed, the default value is Return .	O	A25
pg_return_method	The return method for the postback. Use AsyncPost for reliability and security. The AsyncPost method does not rely on the user's browser to perform a postback.	O	A10
pg_cancel_url	The page the customer will be returned to after the customer selects the Abort button. The Abort button is shown on failed transactions. The default value is forte.net .	O	A100
pg_save_client	1 = Create payment method token 2 = Create client and payment method tokens If the merchant does not pass this field, tokens are not created for this transaction.	O	N

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Understanding Checkout Parameters, Continued

Request Parameters, continued

Name	Description	Req	Type
pg_customer_ip_address	The ip address from which the transaction originated.	O	A80
pg_swipe	Supported values equal True or False . If True , swipers are enabled. Forte supports Magtek model #30050200 and #21073062. Swipers must be purchased from Forte. If True , two buttons will appear on the payment form. The Keyed Entry button allows for manual entry via a keyboard. The Swipe button allows for both swiping the credit card and using the IPAD PIN pad.	O	T
pg_tc_show	Supported values equal True or False . If False , no Terms and Conditions are displayed. The default value is True .	O	T
pg_signature_show	Supported values equal True or False . If True , a signature line will show on the receipt. The default value is False .	O	T
pg_receipt	Defines the type of receipt you want to generate for successful transactions. Supported options include the following: <ul style="list-style-type: none"> 1 = 8.5-inch receipt 2 = 3-inch receipt 	O	N1

Recurring Transactions

The recurring fields of the Recurring Transaction Template are used to establish recurring, scheduled transactions. Transactions will be created and processed at the stated frequency (as long as the recurring transaction is in an "active" state). The transactions will be created and processed until the specified quantity is reached (if it is non-zero) or until the transaction is suspended or deleted by the merchant. Voided and declined transactions do not count towards the specific quantity. Recurring transactions must have both `pg_scheduled_quantity` and `pg_schedule_frequency`, but the `pg_schedule_start_date` parameter is optional.

Understanding Response Parameters

Overview

Depending on the data passed in the request, SWP Checkout posts the following data to the `pg_return_url` page:

- Billing and shipping address data
 - Up to four merchant data fields, if passed
 - `pg_consumerorderid` and `pg_wallet_id` – the invoice number and transaction description for easy transaction tracking
 - Last four digits of the credit card or echeck account number
 - The client token (i.e., `pg_client_id`) and the payment method token (i.e., `pg_payment_method_id`) if the merchant sends `pg_save_client=2` in the request or just the payment method token if the merchant sends `pg_save_client=1` in the request
 - `pg_response_code` – The transaction response code. See below.
-

Understanding Response Parameters, Continued

Code	Description	Comments	Test Parameters
U03	DAILY TRANS LIMIT	Merchant daily limit exceeded (EFT only)	Not available
U04	MONTHLY TRANS LIMIT	Merchant monthly limit exceeded (EFT only)	Not available
U05	AVS FAILURE ZIP CODE	AVS State/Zip Code check failed	Set pg_avs_method=00200 and send a state and zip code that do not match.
U06	AVS FAILURE AREA CODE	AVS State/Area Code check failed	Set pg_avs_method=00200 and send a state and area code that do not match.
U07	AVS FAILURE EMAIL	AVS anonymous email check failed	Set pg_avs_method=00200 and send an email for Hotmail.com.
U10	DUPLICATE TRANSACTION	Transaction has the same attributes as another transaction within the time set by the merchant.	Send the same transaction twice within five minutes.
U11	RECUR TRANS NOT FOUND	Transaction Types 40–42 only	Not available
U12	UPDATE NOT ALLOWED	Original transaction cannot be voided or captured	Send a void transaction for a declined transaction.
U13	ORIG TRANS NOT FOUND	Transaction to be voided or captured was not found.	Send void transaction for the following trace number: 00000000-0000-0000-0000-000000000000
U14	BAD TYPE FOR ORIG TRANS	Void/Capture and original transaction types do not agree (CC/EFT)	Send a void credit card transaction for an echeck transaction.
U15	ALREADY VOIDED ALREADY CAPTURED	Transaction was previously voided or captured	Void the same transaction twice.
U18	UPDATE FAILED	Void or Capture failed	Send a transaction for \$19.18 or \$1918
U19	INVALID TRN	Account ABA number is invalid	Send echeck transaction with TRN of 123456789.
U20	INVALID CREDIT CARD NUMBER	Credit card number is invalid	Send a credit card transaction with a card number of 11111111111111111111.
U21	BAD START DATE	Date is malformed	Send a transaction with scheduling data but a start date of 13/1/2008 or 1/1/2001.
U22	SWIPE DATA FAILURE	Swipe data is malformed	Send credit card transaction with pg_cc_swipe_data=ABC123.

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Understanding Response Parameters, Continued

Code	Description	Comments	Test Parameters
U23	INVALID EXPIRATION DATE	Malformed expiration date	Send credit card transaction with Ecom_Payment_Card_ExpDate Month=13.
U25	INVALID AMOUNT	Negative amount	Send a transaction for a negative amount (-\$1.00).
U26	INVALID DATA**	Invalid data present in the transaction	Send a void transaction with pg_original_authorization code=.
U27	CONV FEE NOT ALLOWED	Merchant configured for convenience fee but did not send one	For merchant configured to accept a convenience fee, send a transaction with an incorrect convenience fee in the pg_convenience_fee parameter.
U28	CONV FEE INCORRECT	Merchant configured for convenience fee but did not send one	For merchants configured to accept a convenience fee, send a transaction with an incorrect convenience fee in the pg_convenience_fee parameter.
U29	CONV FEE DECLINED	Convenience fee transaction failed – SplitCharge model only	N/A
U30	PRINCIPAL DECLINED	Principle transaction failed – SplitCharge model only	N/A
U51	MERCHANT STATUS	Merchant is not “live”	Send a transaction for a non-live Merchant ID.
U52	TYPE NOT ALLOWED	Merchant not approved for transaction type (credit card or EFT)	Send a transaction of a type (credit card or echeck) that the account is not allowed to process.
U53	PER TRANS LIMIT	Transaction amount exceeds merchant’s Per Transaction Limit (EFTs only)	Send a transaction that exceeds the merchant’s eCheck Limit(s).
U54	INVALID MERCHANT CONFIG	Merchant’s configuration requires updating – call Customer Support	Send a transaction for \$19.54 or \$1954.
U80	PREAUTH DECLINE	Transaction was declined due to preauthorization (Forte Verify) result	Send a transaction for \$19.80 or \$1980.

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Understanding Response Parameters, Continued

Code	Description	Comments	Test Parameters
U81	PREAUTH TIMEOUT	Preauthorizer not responding (Verify Only transactions only)	Send a transaction for \$19.81 or \$1981.
U82	PREAUTH ERROR	Preauthorizer error (Verify Only transactions only)	Send a transaction for \$19.82 or \$1982.
U83	AUTH DECLINE*	Transaction was declined due to authorizer declination	Send a transaction for \$19.83 or \$1983.
U84	AUTH TIMEOUT	Authorizer not responding	Send a transaction for \$19.84 or \$1984.
U85	AUTH ERROR	Authorizer error	Send a transaction for \$19.85 or \$1985.
U86	AVS FAILURE AUTH	Authorizer's AVS Check failed	Send a transaction for \$19.86 or \$1986.
U87	AUTH BUSY	Authorizing vendor busy; may be resubmitted (credit card only)	Send a transaction for \$19.87 or \$1987.
U88	PREAUTH BUSY	Verification vendor busy; may be resubmitted (type 26 only)	Send a transaction for \$19.88 or \$1988.
U89	AUTH UNAVAIL	Vendor service unavailable (credit card only)	Send a transaction for \$19.89 or \$1989.
U90	PREAUTH UNAVAIL	Verification service unavailable (type 26 only)	Send a transaction for \$19.90 or \$1990.
U91	Credit Card Not Allowed	Merchant account is configured to process only Debit Cards. Credit Cards not allowed	N/A
U92	Debit Card Not Allowed	Merchant account is configured to process only Credit Cards. Debit cards not allowed	N/A

, continued

*pg_response_description will contain the text of the vendor's response.

**pg_response_description will contain a more specific message.

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Understanding Response Parameters, Continued

The following table displays the codes returned when Forte finds formatting errors. The response description field will actually list all the offending fields in the message (to the 80-character limit). The description field will be formatted as follows:

```
<code>:<fieldname>[,<code>:<fieldname> ...]
```

Formatting Error Responses

The `pg_response_code` will contain the first error type encountered. All formatting errors begin with an `F`.

Code	Description	Comments
F01	MANDATORY FIELD MISSING	Required field is missing.
F03	INVALID FIELD NAME	Name is not recognized.
F04	INVALID FIELD VALUE	Value is not allowed.
F05	DUPLICATE FIELD	Field is repeated in message.
F06	CONFLICTING FIELD	Fields cannot both be present.

The following table displays exceptions that will stop the processing of a well-formed message due to security or other considerations. All fatal exceptions begin with `E`.

Fatal Exception Responses

Code	Description	Comments
E10	INVALID MERCH OR PASSWD	Merchant ID or processing password is incorrect.
E20	MERCHANT TIMEOUT	Transaction message not received (I/O flush required?)
E55	INVALID TOKEN	Specified token was invalid, could not be located, or may have been deleted.
	<i>Client Token Transactions</i>	For client token transactions where neither payment fields nor a payment token were specified, the client record does not have a Default Payment Method matching the transaction type.
	<i>Payment Token Transactions</i>	For payment token transaction where no client token is specified, the payment token must be clientless.
	<i>Both Client and Payment Tokens Present</i>	For transactions with client and payment tokens, the specified payment token is not associated with the client or is clientless.
E90	BAD MERCH IP ADDR	Origination IP not on merchant's approved IP list.
E99	INTERNAL ERROR	An unspecified error has occurred.

Integrating with SWP Checkout

Overview

SWP Checkout supports two methods of integration: an HTML web form or transaction signing.

The HTML Integration method is the easiest way to integrate to the Forte platform. Merchants build a standard web page with a form that submits customer information to Forte. This integration method requires less work to implement and is ideal for charitable donations and simple, low-cost sales.

The transaction signing integration method requires a server-side technology to sign the message. The transaction needs to be hashed with an HMAC-MD5 signature using the secure transaction key set in Virtual Terminal.

URLs

Use the following URLs when testing and submitting live transactions.

Environment	URL
Sandbox	https://sandbox.paymentsgateway.net/swp/co/default.aspx
Live	https://swp.paymentsgateway.net/co/default.aspx

Using the HTML Integration Method

Use the following sample code with this integration method:

```
<FORM METHOD="post" ACTION="https://sandbox.paymentsgateway.net/swp/co/default.aspx">
<input name="pg_billto_postal_name_first" type="text" value="Bob"/>
<input name="pg_billto_postal_name_last" type="text" value="Smith"/>
<input type="hidden" name="pg_api_login_id" value="APILOGINID"/>
<input TYPE=SUBMIT>
</FORM>
```

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Integrating with SWP Checkout, Continued

The transaction signing method requires server-side technology to add a signature to the message. The signature hash is calculated with an HMAC-MD5 algorithm using keys created and maintained in Virtual Terminal (the **API Login ID** and the **Secure Transaction Key**).

Use the following hashing formula for your transaction signature:

```
pg_ts_hash = HMAC-MD5(pg_apilogin_id|pg_transaction_type|
pg_version_number|pg_total_amount|pg_utc_time|
pg_transaction_order_number,pg_secure_transaction_key)
```

To validate the hash in the postback, take the values of the `pg_utc_time` and the `pg_trace_number` parameters in the postback and insert them into the following formula:

```
pg_ts_hash_response = HMACMD5(pg_apilogin_id|pg_trace_number|
pg_total_amount|pg_utc_time,pg_secure_transaction_key)
```

The value of your validation hash should match the value of the postback parameter `pg_ts_hash_response`.

Using the Transaction Signing Integration Method

NOTE: Clients validating the response hash signature on merchant accounts set up with convenience fees will use the `pg_total_amount` value in the postback (which includes the convenience fee). For example, if the principal payment amount is \$100 and the merchant account card fee is 2.5%, in the transaction signature the `pg_total_amount` is \$100.00, but in the response hash validation the `pg_total_amount` will be \$102.50.

Use the following sample code with this integration method:

```
<FORM METHOD="post" ACTION="https://sandbox.paymentsgateway.net/swp/co
/default.aspx">
<input name="pg_billto_postal_name_first" type="text" value="Bob"/>
<input name="pg_billto_postal_name_last" type="text" value="Smith"/>
<input type="hidden" name="pg_api_login_id" value="APILOGINID"/>
<input type="hidden" name="pg_transaction_type" value="10"/>
<input type="hidden" name="pg_version_number" value="1.0"/>
<input type="hidden" name="pg_total_amount" value="5.00"/>
<input type="hidden" name="pg_utc_time" value="634094514514687490"/>
<input type="hidden" name="pg_transaction_order_number"
value="100055"/>
<input type="hidden" name="pg_ts_hash" value="4bac0b9badbea7730cd41c33
4384bdfa"/>
<input TYPE=SUBMIT>
</FORM>
```

Using Postback Information

Overview

The following data can be provided in postbacks for both credit card and echeck transactions. As a best practice, Forte recommends sending an account number or other identifier (e.g., utility bill number, etc.) in either the `pg_consumerorderid` or `pg_wallet_id` fields.

Sample Credit Card Transaction Postback

The following code sample displays an example credit card transaction postback:

```
pg_billto_postal_name_first=John
pg_billto_postal_name_last=Doe
pg_billto_postal_street_line1=500 W Bethany
pg_billto_postal_street_line2=Suite 200
pg_billto_postal_city=Allen
pg_billto_postal_stateprov=TX
pg_billto_postal_postalcode=75013
pg_billto_telecom_phone_number=866-290-5400
pg_billto_online_email=integration@forte.net
pg_consumerorderid=5
pg_wallet_id=5
pg_total_amount=0.01
pg_response_description=APPROVED
pg_response_code=A01
pg_response_type=A
pg_trace_number=c07d219e-edba-40f3-ada7-c66ef25d10b9
pg_transaction_type=10
pg_authorization_code=809965
pg_last4=7062
pg_payment_card_type=visa
pg_payment_card_expdate_month=07
pg_payment_card_expdate_year=2016
```

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Using Postback Information, Continued

The following code sample displays an example echeck transaction postback:

Sample eCheck Transaction Postback

```
pg_billto_postal_name_first=Jane
pg_billto_postal_name_last=Doe
pg_billto_postal_street_line1=500 W Bethany
pg_billto_postal_street_line2=Suite 200
pg_billto_postal_city=Allen
pg_billto_postal_stateprov=TX
pg_billto_postal_postalcode=75013
pg_billto_telecom_phone_number=866-290-5400
pg_billto_online_email=integration@forte.net
pg_consumerorderid=3
pg_wallet_id=4
pg_total_amount=1.00
pg_response_description=APPROVED
pg_response_code=A01
pg_response_type=A
pg_trace_number=cc351c20-3c35-4adc-8652-fe9d684b3485
pg_transaction_type=20
pg_authorization_code=21042701
pg_last4=3333
```
