

## **Accepting 3-D Secure payments**

#### **Overview**

<u>Card payments</u> via the Checkout can also be used with 3-D Secure authentications. 3-D Secure 1 and 2 are supported, with automatic fallback in case the card is not enrolled for 3-D Secure 2.

### **Customer requirements**

To process 3-D Secure authentications, it is required to add a customer to the Checkout creation call. Customer records can be created and managed via the <u>Customer APIs</u>. The table below details the required fields and their formats for creating a customer record to be compatible with 3-D Secure.

**Note:** You should make sure that all required fields are provided in their correct formats, else the page would result in a failure once the Customer tries to submit a payment with it. The field requirements below take priority over the API schema described in the <u>Customer API reference</u>.

Required = R, Optional = O, Conditional = C

Field name	Description	Status	Observation	Specification
billing.address_1	Customer's billing address information.	R		String (50)
billing.address_2	Customer's billing address information.	С	Required if information is available.	String (50)
billing.address_3	Customer's billing address information.	С	Required if information is available.	String (50)
[billing.city]	Customer's city on their billing address.	R		String (50)
billing.country_code	Customer's alpha 2-digit ISO 3166 country code. (e.g., United States = US)	R	Customer's alpha 2-digit ISO 3166 country code.	String (2)
billing.first_name	Customer's billing first name.	R	Required in case that companyName is not provided.	String (50)
[billing.last_name]	Customer's billing last name.	R	Required in case that companyName is not provided.	String (50)
billing.phone	Customer's phone number for billing address. This should be unformatted without hyphens. (e.g., 4422345678)	С	Required if information is available. This should be un formatted without hyphens.	String (20)



Field name	Description	Status	Observation	Specification
[billing.postal_code]	Customer's postal code of their billing address.	С		String (10)
[billing.state]	Customer's state or province of their billing address. Should be the country subdivision code defined in ISO 3166-2. If this field is not provided, the 3DS service will try to automatically populate it, based on the billing.countryCode and billing.postalCode values.	С	Required if information is available.	String (50)
company_name	Company name.	С	If [billing.firstName] or [billing.lastName] are not provided.	String (100)
company_registration_	company, recognized by the government. Known as CoC (Chamber of Commerce) number in some countries.	O		String
[date_of_birth]	The date of birth of a person, 10 characters, ISO-8601 (YYYY-MM-DD).	0		String (10)
email_address	Customer's email address.	R		String (255)
entity_id	The entityId obtained from Verifone Central. The Entity ID can be found in Verifone Central under Administration → Organisations. The 'Organisation ID' listed is the Entity ID.	R		String
phone_number	Cardholder's mobile phone number.	С		Number (25)



Field name	Description	Status	Observation	Specification
shipping.address_1	Customer's shipping address information.	С	Required if information is available.	String (50)
shipping.address_2	Customer's shipping address information.	С	Required if information is available.	String (50)
shipping.address_3	Customer's shipping address information.	С	Required if information is available.	String (50)
shipping.city	Customer's city of their shipping address.	С	Required if information is available.	String (50)
shipping.first_name	Customer's shipping first name.	0		
shipping.last_name	Customer's shipping first name.	0		
shipping.country_code	Customer's alpha 2-digit ISO 3166 country code. (e.g., United States = US)	С	Required if information is available.	String (2)
shipping.postal_code	Customer's postal code of their shipping address.	С	Required if information is available.	String (10)
shipping.state	Customer's state or province of their shipping address. (e.g., Ohio = OH, Texas = TX) Should be the country subdivision code defined in ISO 3166-2. If this field is not provided, the 3DS service will try to automatically populate it, based on the shipping.countryCode and shipping.postalCode values.	С	Required if information is available.	String (3)
title	mr or ms	0		String
work_phone	Customer's work phone number.	С	Required if information is available.	Number (25)

Here is an example request with the required fields for creating a customer for 3-D Secure:



```
{
"billing": {
    "address_1": "Street 1",
    "city": "Amsterdam",
    "country_code": "NL",
    "first_name": "John",
    "last_name": "Gilmore",
    "postal_code": "1016 AB",
    "state": "NH"
},
    "email_address": "john.gilmore@test.com",
    "entity_id": "{entityId}",
    "phone_number": "31123456789",
}
```

The response for creating the customer will look like this:

```
{
"id": "string",
"billing": {
"address_1": "Street 1",
"city": "Amsterdam",
"country_code": "NL",
"first_name": "John",
"last_name": "Gilmore",
"postal_code": "1016 AB",
"state": "NH"
},
"created_at": "2020-07-01",
"email_address": "john.gilmore@test.com",
"entity_id": "{entitytd}",
"phone_number": "31123456789",
"updated_at": "2020-07-01"
}
```

#### **Required 3-D Secure fields**

To configure Checkout for accepting 3-D Secure card payments, the following fields are required in addition to the fields required for a standard Card payment:

- configurations.card.threed\_secure.threeds\_contract\_id This ID can be found in the portal or given to you by a Verifone employee. This object stores the credentials for connecting to the 3-D Secure service.
- [configurations.card.threed\_secure.enabled] Has to be set to [true].
- configurations.card.threed\_secure.transaction\_mode

The complete list of 3-D Secure and other optional fields can be found in the Create Checkout API.

Example request:



```
{
  "amount": 9998,
  "currency_code": "EUR",
  "entity_id": "{{entity_id}}",
  "customer": "{{customer_id}}",
  "configurations": {
  "card": {
  "payment_contract_id": "{{payment_contract_id}}",
  "threed_secure": {
  "enabled": true,
  "threeds_contract_id": "{{3ds_contract_id}}",
  "total_items": "01",
  "transaction_mode": "S"
  }
},
  "merchant_reference": "ORDER-1234",
  "return_url": "{{merchant_return_url}}"
}
```

# **Handling responses**

Upon completion of a 3DS checkout, a redirection occurs including an additional query parameter "authentication\_id" which can be used to retrieve the 3DS complete details from the 3DS service.

See Handling card responses for all possible Checkout outcomes.