



API Specifications

Merchant Management

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Introduction

The purpose of this document is to provide an in-depth description of the Shift4 Merchant Management API. Shift4 Merchant Management API is a proprietary platform for partners to onboard and manage merchants

The Merchant Management API is a simple-to-use RESTful API. The API operates as a basic request-response service where the partner instructs the gateway to perform an operation and the platform replies with the request's acknowledgement. Once the merchant creation or update process is completed, the partner receives a notification with the merchant creation status.

Audience

The intended audience includes Shift4 partners who wish to onboard their merchants via API.

PF <i>Payment Facilitator</i>	<ul style="list-style-type: none">• The partner performs KYC processes to its merchants.• The partner settles to its merchants (requires PI license).• The merchant contracts with the partner.
PSP <i>Payment Service Provider</i>	<ul style="list-style-type: none">• Shift4 performs KYC processes to the partner's merchants.• Shift4 settles to the partner's merchants.• The merchant contracts with Shift4 and the partner.
SMB <i>Partner of Small and Medium Sized Businesses</i>	<ul style="list-style-type: none">• Manages large number of small businesses.• Shift4 performs KYC processes to the partner's merchants.• Shift4 settles to the partner's merchants.• The merchant contracts with Shift4 and the partner.• Particular need of fast onboarding.• Special parameters in this API are tagged SMB

API Version Control

The information provided in this document is accurate and reliable for standard processing as of its publication date. Any new implementations should thus avoid using previous versions of the API specification.

The API version number is a sequence-based identifier. Changes to the first part indicate major specification updates, while changes to the second part indicate minor updates.

The revision number reflects smaller specification changes, the correction of typing errors, or corrections that do not affect the API protocol itself.

Certification

All new implementations must go through a certification process in order to ensure the quality of their integrations and the integrity of merchant data.

An additional certification process will be required if new features are introduced.

Glossary

The following terms are used throughout the document.

Term	Definition
Authorised signatory	The individual who has legal permission to act on behalf of the business, and the one who will be signing the Contract. In cases where the partner is signing on behalf of its merchant, this function is not relevant for this API.
Corporate	An entity registered as business, which is a separated legal entity from the owner itself. The term includes various forms of registered businesses, such as: Limited liability Company, Partnership, Association, Foundation and so on.
Director	A member of the management staff of the merchant's business, that is listed as a director on the business. There can be one or more directors, and the director can sometimes also be a shareholder or ultimate beneficiary owner (UBO).
Shareholders	The owners of the company, each individual that owns at least 1 share of the company's stocks or mutual funds. All the shareholders' shares need to make up a sum of 100% of the ownership.
Corporate Shareholder	A business entity that has shares in another company. The corporate shareholder company itself is the one that owns the shares, and not any individual person.
Sole Trader	A type of business that is owned and run by one person, where there is no legal distinction between the owner and the business. In many cases, sole traders conduct business on their own name, and their name is the registered business name.
Partnership	A type of business that is a formal arrangement by two or more parties (known as partners), to manage and operate a business and share its profits.
Ultimate Beneficiary Owner (UBO)	An individual who holds 25% or more of the company's shares.

Implementation Guidelines

To ensure frictionless onboarding and underwriting processes, refer to [Appendix H – Implementation Guidelines](#), that outlines main issues and how to correctly reflect them through the API.

Gateway Interface

Introduction

Merchant management requests are sent online and in real-time using the HTTPS (Hypertext Transfer Protocol - Secure) protocol. The platform protocol, in turn, exposes multiple request types, including Create, Update, Get, and Upload.

Uniform Resource Locator (URL) Addresses

Integration URL	<a href="https://onboarding.int.sourcepayments.com/rest/setup/merchant/<action>">https://onboarding.int.sourcepayments.com/rest/setup/merchant/<action>
Production URL	<a href="https://onboarding.sourcepayments.com/rest/setup/merchant/<action>">https://onboarding.sourcepayments.com/rest/setup/merchant/<action>

Security/Authentication

All HTTP requests must be sent over a secure TLS (Transport Layer Security) 2.0 channel. The merchant management platform does not authenticate the TLS/SSL (Secure Sockets Layer) session using a client-based certificate, and thus does not employ a regular type of session authentication. Instead, the client is first authenticated by its source IP alongside a secondary authentication check that employs a cipher sent in the request header and used for pre-processing verifications. See [Appendix A: HMAC-SHA512 Request Signature](#) for further details.

Health Checks

The health of the *Shift4* Merchant Management production and integration environments can be checked by accessing the following URLs:

Production Environment	https://onboarding.sourcepayments.com/health
Integration Environment	https://onboarding.int.sourcepayments.com/health

The service will then respond with a JavaScript Object Notation (JSON) message.

One of the following responses will be provided:

- {"health":"OK"}
- {"health":"FAIL"}

Follow these guidelines when using health checks:

- A **maximum** of one health check is permitted every 10 seconds
- If no response is received within 20 seconds, consider the request timed out
- The *Shift4* Merchant Management service should be considered unavailable after 3 consecutive service failures

- In any event of unexpected service interruption, contact the Shift4 Support Team immediately at support.europe@shift4.com.

Timeout Handling

If a request takes too long to return a response, a timeout is initiated by the Gateway application and a result code “007” is returned. If many timeout result codes are received, please contact our support at support.europe@shift4.com

Implementing Merchant Management API

To integrate to Shift4's Merchant management API, the partner will go through the following steps:

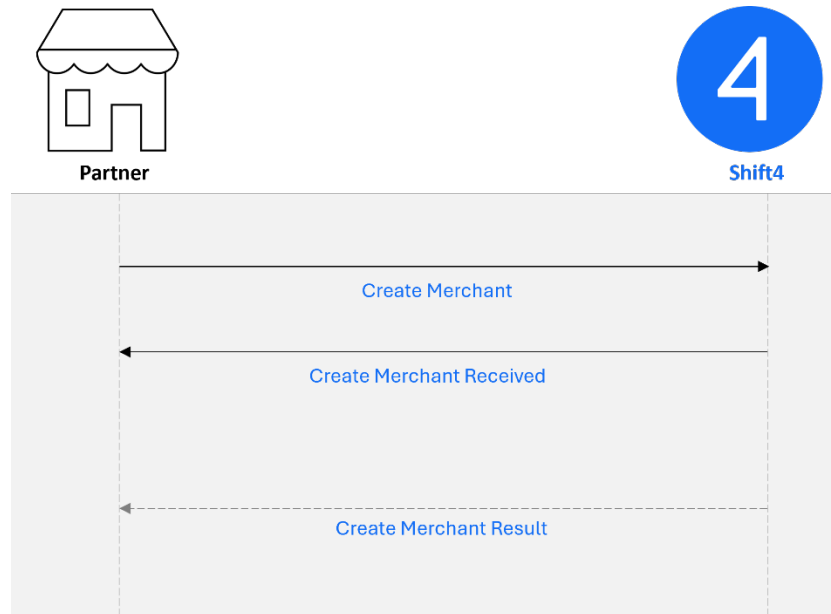
1. **Sign-up for the service:** contact your Shift4 Solution Architect and request to start using the Merchant Management API service
2. **API review and preparation:**
 - a. Review the API specifications listed in this document and plan your development process
 - b. Whitelist IPs and URLs required for the service
3. **Integration & certification:**
 - a. You will receive credentials for the integration environment (a partner ID and a secret key)
 - b. Develop and test the API in integration environment
 - c. Run through the certification process to ensure everything works before you go live
4. **Go-live:** You will receive credentials for production environment, and you are ready to go live!

General API Flows

The Merchant Management API supports two types of flows: a 3-legged flow and a 2-legged flow.

3-Legged Flows

3-Legged Flow Example



This flow is used for Create Merchant, Update Merchant and Upload Documents.

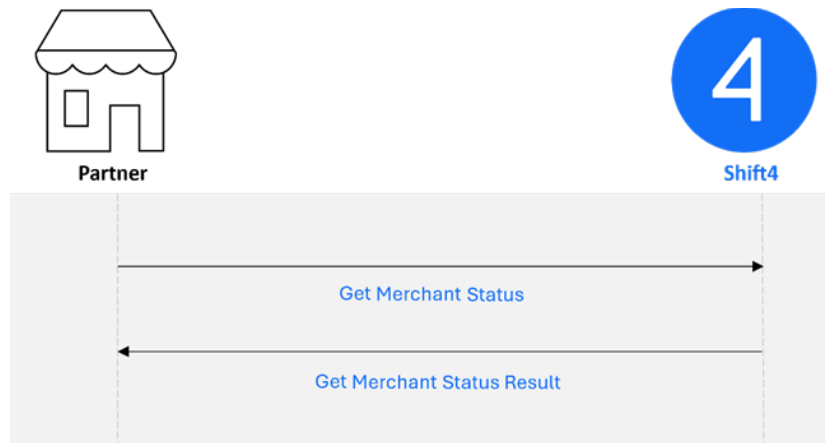
The partner sends a request to the Shift4 merchant management platform.

Shift4 instantly responds with an acknowledgment that the request was received successfully. In case the request was not received successfully in this step (due to validation errors such as incorrect format in parameters, API structure etc.) the partner will receive a sync detailed response.

Once the request handling process is complete, the partner receives a notification with the request status. The notification is sent from Shift4 notification engine. For more details about the Shift4 notification engine please refer to the Data Open API Specifications guide on the [Shift4 Developer Portal](#).

2-Legged Flows

2-Legged Flow Example



This flow is used for Get Merchant Status and Get Connectivity Details.

1. The partner sends a request to the Shift4 merchant management platform.
2. Shift4 instantly responds with a synchronous response with the information requested

Merchant Management API Workflows

Partners can use the Merchant management API to onboard merchants, update existing merchants and check their status.

Onboarding a Merchant

This flow enables a partner to onboard merchants with Shift4.

Step 1 – Creating Merchant

1. The partner sends a [Create Merchant](#) API call that includes all the merchant's details.
2. Shift4 sends an automatic sync response to acknowledge that the API call was received.
3. Up to four hours later, Shift4 notifies the partner that a merchant ID was created in Shift4 for this merchant. This ID, included in the notification, must be sent in all subsequent API calls relating to that merchant.

Step 2 – Uploading Supporting Documents

1. The partner then sends each document required for onboarding using an [Upload Document](#) API call.
In the last Upload Document API call, the partner also sends the “submitMerchant” parameter.
2. Shift4 sends an automatic synchronic response to acknowledge each API call upon receipt.

Step 3 – Onboarding Complete

1. Shift4 sends the partner a notification that the onboarding process is complete and the merchant can start processing.
2. Based on the notification, the partner sends a [Get Connectivity Details](#) API call to receive the connectivity details which the merchants needs for processing.

Updating a Merchant

If an existing merchant's details or settings have changed, the partner can update Shift4 with the changes as follows:

1. The partner sends an [Update Merchant](#) API call with the updated details of the existing merchant.
2. Shift4 sends an automatic synchronic response to acknowledge that the API call was received.
3. Up to four hours later, Shift4 notifies the partner that the update request was created in Shift4 and the approval process has begun.

Querying for a Merchant's Onboarding Status

The partner can query Shift4 for a merchant's onboarding status, as follows:

1. The partner sends a [Get Merchant Status](#) API call to retrieve the merchant's current onboarding status.
2. Shift4 replies with the current status of the merchant.

Business Flows

The Merchant Management API supports the following business flows:

Main Business Flows

Create Merchant

A Create Merchant request creates a new merchant on Shift4's system. The merchant is automatically related to the requesting partner.

Update Merchant

The Update Merchant request enables you to request an update of an existing merchant's details and settings, as described below:

- Update merchant details
- Add / cancel a merchant bank account (to which funds from processing are transferred)
- Add / cancel / update a merchant contact
- Add / Update a merchant individual
- Add / deactivate a product
- Update product configuration
- Update merchant pricing
- Add / cancel a merchant requirement
- Update the number of Card Present (POS) devices
- Update the address of Card Present (POS) devices
- Update the address of a related corporate

Upload Document

The Upload Document request enables a partner to send relevant documents related to the merchant onboarding or update process.

Get Merchant Status

The Get Merchant Status request retrieves the merchant onboarding status.

Get Connectivity Details

The Get Connectivity Details request retrieves the merchant connectivity details credentials to start processing after setup is completed. This API call is available only when the onboarding and setup process for the merchant is complete.

Additional Flows

Pricing Management

Pricing is managed during merchant creation and merchant update.

When Creating a Merchant

When creating a merchant you must assign a pricing to the merchant. The basic pricing assignment is based on pre-defined pricing templates set up for your partner account (sometimes referred to as “fixed pricing” or “partner terms”).

1. The `partner_terms_id` defines which fixed pricing template should be used for this merchant
2. You can assign a unique pricing ID for the merchant you are creating, using the `merchant_terms_identifier`
3. You can override the fixed terms with unique ones using the pricing functionality

When Updating a Merchant

You can make pricing updates using the pricing object in a merchant update flow. Refer to the [Update Merchant](#) chapter for more details.

Message Format

General

The Merchant Management API is a JSON-formatted REST API.

Note that the Merchant Management API structure and fields might be updated from time to time without prior notice. Such changes may include the addition of new objects, fields and values.

Headers

Each request should contain the following headers:

- Target host.
Host: onboarding.sourcepayments.com
- Content type – Payload content type, for POST requests.
Content-Type: application/json
- Content length – Payload length, for POST requests.
Example: Content-Length: 123
- Date – date in RFC-1123 format.
Example: Date: Tue, 8 Feb 2022 04:59:40 GMT
- Authorization header: contains the hashed string that signs the request. See [Appendix A: HMAC-SHA512 Request Signature](#) for more information.
- Partner ID example: CEID-0000200332

Example

Host: onboarding.sourcepayments.com

Content-Type: application/json

Content-Length: 123

Date: Tue, 8 Feb 2022 04:59:40 GMT

Authorization: HMAC-SHA512 Credential= partnerID,

Signature=f8fa88335f76d3d2673575e3cb4e2c6bfcaf58869074fd9f42cbcd47a3be487626742eae68644e8acce565276392bf236353593f1c75926dce98a89d4ccc9ce4

Body

Valid JSON message. For more details about the possible objects and fields in a message see the [Requests and Responses](#) chapter.

Server-2-Server Notification

General

The response from Shift4 regarding merchant creation or merchant update is received after the request was successfully saved by Shift4's system. Shift4 initially returns an acknowledgement with response code 000, indicating that the request was received and is being processed. The full and final response is returned in a separate notification message, see [Appendix C: Result Codes](#).

The *Shift4* gateway expects to receive a response of "200: OK" status code (without body) in response to the notification it sends.

**Note:**

To setup the notification service contact your Shift4 Solution Architect to set up the notification URL.

Notification Format

The notification format is based on the response format of each request type (Create Merchant, Update Merchant, and Upload Document).

IP Allowlist

In order to accept notifications allow the following IP on the partner side:

Integration IP	52.209.227.163
Production IP	199.233.202.161, 199.233.203.161

'Create Merchant' Notifications

As part of the merchant onboarding flow, the partner gets 3 types of notifications from Shift4:

1. A sync notification as part of the API response (for example, result code 000).
2. An async notification, in which Shift4 notifies the partner that a merchant ID was created in Shift4 for this merchant.
3. An onboarding-complete notification, triggered when the merchant status changes to 'processing'.

Requests and Responses

The following chapters describe the required parameters for each type of API request flow.

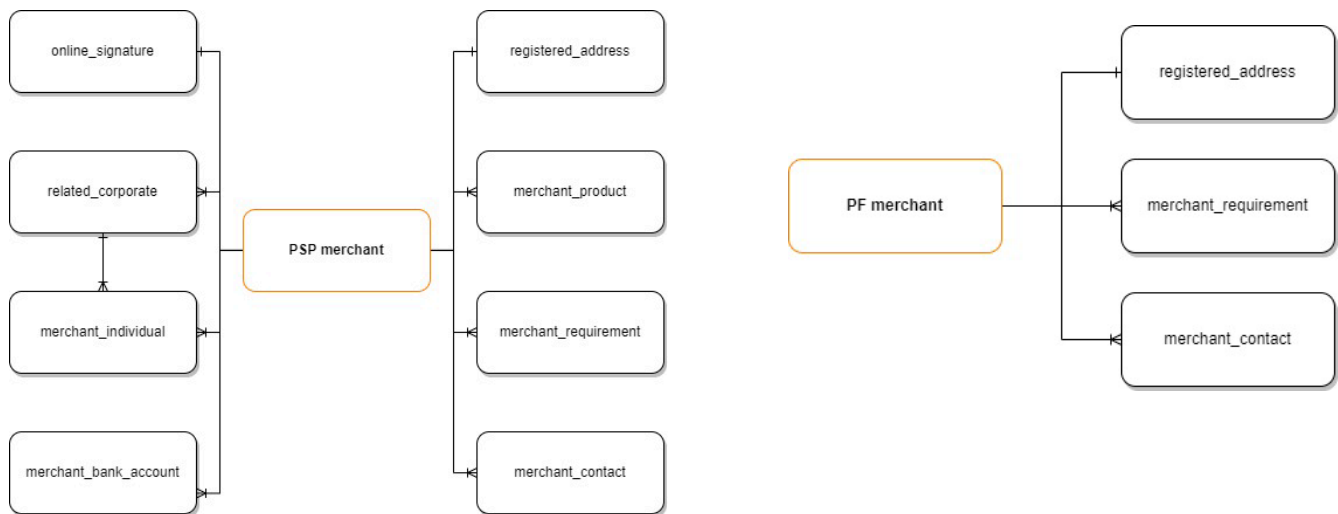
The tables describe the API parameters and specify whether the field is mandatory (M), conditional (C), optional (O), or not used (-), according to the partner type (Payment Facilitator, PSP/SMB).

Create Merchant

Integration URL	https://onboarding.int.sourcepayments.com/setup/merchant/create
Production URL	[POST] https://onboarding.sourcepayments.com/setup/merchant/create

Request fields

The required request fields depend on the type of partner assigned to you by Shift4, PSP/SMB or PF (Payment Facilitator).



Root level fields and objects

The following table lists the root level fields and objects. The root level fields are listed in the order they should be sent in the request.

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
merchant_name	[A-Z a-z 0-9 - _.:&/*<=?%,+]	(1,120)	The merchant's name. Can contain letters, numbers, or symbols.	M	M
company_registration_name	[A-Za-z0-9.< (+ & *) ; - , % _ > ? : ' =]	(1,50)	The official company registration name of the merchant's business.	M	O

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
company_registration_number	[A-Z a-z 0-9]	(1,255)	The official company registration/incorporation number of the merchant's business. Note: In case the merchant's jurisdiction doesn't have a registration number, add a VAT number or '0000'.	M	O
country_of_incorporation	[A-Z]	(3,3)	The country where the merchant is incorporated/registered, in ISO alpha 3 Code format.	M	O
business_type	Value from list: <ul style="list-style-type: none"> corporation sole_trader partnership 	(9,11)	Specifies the merchant's business type. Note: Sole trader is a business that has only one owner. If the business has more than one owner, list it as "Corporate". For more information about these business types refer to the Glossary .	M	-
business_model_description	[A-Z a-z 0-9 - _():&/*<='?%,+]	(1, 32000)	A description of the merchant's business activity.	M	M
average_item_value_eur	[0-9]	(1,9)	The average value of an item sold by the merchant, in Euro (a number).	M	O
expected_monthly_turnover	[0-9] A decimal number with 2 decimal places.	(1,9)	The merchant's expected monthly turnover, in Euro. For example: 100.50 Note: We recommend to not pre-populate this field with a generic number for all your merchants, as an inaccurate number can cause issues in the underwriting process.	M	M
date_of_incorporation	yyyy-mm-dd	(10,10)	The date when the merchant's business was incorporated/registered. For example: 2014-10-20	M	O
registered_address	Object		Object that holds the registered_address details	M	M
online_signature	Object		Object that holds the online_signature details	M	-

Parameter Name	Type	Length (min,max)	Description	PSP/ SMB	PF
merchant_contact	Object		A list object that holds the merchant_contact details. One contact with the role of Primary Contact must be sent. You can send additional contacts but their role cannot be Primary Contact.	M	M
merchant_individual	Object		A list object that holds the merchant_individual details. This object needs to be sent at least once. Send this object for: <ul style="list-style-type: none"> • An Authorised Signatory of the merchant (= the individual who will sign the contract). • Every shareholder who is an individual with over 25% holding in a corporate. • Every director in the corporate. Note: It is important to fill in the details for all the individuals who are the owners or directors of the business, to accurately depict the business structure.	M	-
related_corporate	Object		Object that holds the related_corporate details. Mandatory when business_type = corporate (for sole traders, the related_corporate object is not required). Send this object at least once for the onboarded merchant itself, and if relevant, then also for every merchant shareholder or director which is a corporate. See Appendix D: Related Corporate and Merchant Individual Scenarios .	C	-
merchant_product	Object		A list object that holds the merchant_product details. Send this object for every product the merchant needs to have in Shift4 (according to the Partner products). This object includes a nested product_configuration object.	M	-

Parameter Name	Type	Length (min,max)	Description	PSP/ SMB	PF
merchant_bank_account	Object		A list object that can be sent more than once. It holds the merchant_bank_account details (also referred to as settlement bank account). This object includes a nested beneficiary_address object.	C	-
pricing	Object		A list object that holds the merchant pricing details. Send this object at least once, for creating a merchant pricing from the partner's fixed pricing. This object includes a nested optional fee_list object, to be sent only if you would like to override the fixed pricing.	M	-
merchant_requirement	Object		A list object that holds the merchant_requirement details (also referred to as payment channel). Send this object for every MCC, site (URL), and store of the merchant. This object includes a nested pricing object. For a card present channel, it also includes a nested pos_device object.	M	M
top_4_countries	Object	-	A list object that holds the main countries the merchant is processing in.	C (M for SMB)	-
purchase_charge_timing	Value from the list: <ul style="list-style-type: none"> When placing the order When order is shipped When order is received 	(21,22)	The timing in which the cardholder is charged for the purchase.	C (M for SMB)	-
avg_delivery_days	[0-9]	(1,999)	The average number of days of delivery duration.	C (M for SMB)	-

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
primary_sector	[0-9]	(3,3)	3-digit numeric code that represents the primary sector in which the merchant operates. Refer to Appendix G: Primary Sector Codes List for the full list.	C (M for SMB)	-
primary_payment_channel	Value from the list: <ul style="list-style-type: none"> • MOTO • WEB • Card Present 	(3,12)	The primary channel through which cardholders pay the merchants.	C (M for SMB)	-
average_transaction_value	[0-9]	(1,18)	The average transaction amount expected for the merchant.	C (M for SMB)	-
vat_number	[A-Z a-z 0-9 -]	(1,12)	Merchant VAT (Value Added Tax) identification number. Example: AB123456789	O	-
maximum_transaction_value	[0-9]	(1,10)	The maximum transaction value defined for this merchant.	C (Mandatory for SMB)	-
number_of_employees	[1-4]	(1,1)	The company's number of employees range. Possible values: "1" - Less than 10 "2" - 10 – 50 "3" - 50 – 250 "4" - More than 250	O	-
annual_turnover	[1-4]	(1,1)	The company's annual turnover range. Possible values: "1" - Less than EUR 2M "2" - EUR 2M – EUR 10M "3" - EUR 10M – EUR 50M "4" - More than EUR 50M	O	-

Parameter Name	Type	Length (min,max)	Description	PSP/ SMB	PF
balance_sheet_total	[1-4]	(1,1)	The company's balance sheet total range. Possible values: "1" - Less than EUR 2M "2" - EUR 2M – EUR 10M "3" - EUR 10M – EUR 43M "4" - More than EUR 43M	O	-
support_subscription	[true false]	(1,5)	Specifies whether the merchant supports subscriptions (web merchants only).	O	
free_membership_trials	[true false]	(1,5)	Specifies whether the merchant offers free membership trials (web merchants only).	C (M if support_subscription = true)	-
automatic_billing_after_trial	[true false]	(1,5)	Specifies whether the merchant automatically charges the cardholder after the trial (web merchants only).	C (M if support_subscription = true)	
automatic_recurring_payments	[true false]	(1,5)	Specifies whether the merchant automatically charges recurring payments (web merchants only).	C (M if support_subscription = true)	-
charging_frequency	[1-4]	(1,1)	The subscription charging cycle. Possible values: "1" - Monthly "2" - Quarterly "3" - Twice-yearly "4" - Annual	C (M if support_subscription = true)	-

merchant_bank_account object

PSP and SMB onboarding merchants must send at least one active bank account per merchant. This is the account to which the funds from the merchant's processing activity are transferred.

PFs are not required to send this object.

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
settlement_currency	[A-Z]	(3,3)	The currency in which funds are deposited in the merchant's bank account, in ISO alpha 3 Code format. For example: GBP	M	-
active	[true false]	(4,5)	Specifies whether the merchant's bank account is currently active. In a Create Merchant request send 'true'.	M	-
beneficiary_name	[A-Z a-z 0-9 - =: ? _ %, () + . ; / *]	(1,50)	The name of the beneficiary of the merchant's bank account.	M	-
bank_name	[A-Z a-z 0-9 - =: ? _ %, () + . ; / *]	(1,70)	The name of the merchant's bank.	M	
bank_country	[A-Z]	(3,3)	The country in which the merchant's bank is located, in ISO alpha 3 Code format. For example: GBR	M	-
iban	[A-Z 0-9]	(1,40)	The IBAN number of the merchant's bank account, should be according to bank_country, using capital letters and numbers only. Either the IBAN or the account number should be sent.	C	-
swift	[A-Z 0-9]	(1,11)	The SWIFT code of the merchant's bank. Either the SWIFT code or the routing number should be sent.	C	-

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
use_merchant_address	[true false]	(4,5)	Specifies whether to use the merchant's address for the bank account's beneficiary_address . If you set this parameter to "true", do not send a beneficiary_address object. The beneficiary address details are taken from the address fields of the merchant_individual object.	M	-
beneficiary_address	Object		Object that holds the beneficiary_address details.	O	-
partner_terms_identifier	[A-Z a-z 0-9 -]	(9, 10)	The ID of the fixed merchant pricing terms you are using to assign pricing to this merchant. The ID always begins with a leading 'MPS-' and continues with max 6 digits. For example: MPS-660832. NOTE: You receive these IDs as part of your connectivity details before go-live.	M	-
account_number	[A-Z 0-9]	(1,18)	The merchant's bank account number. Either the IBAN or the account number should be sent.	C	-

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
merchant_terms_identifier	[A-Z a-z 0-9 -]	(1,10)	Identifier assigned by the partner and used to link between merchant requirements , merchant pricing and merchant bank accounts . Within this object, use the same value used in a pricing object to link this bank account to a specific pricing, or leave blank if you want to link it to all the merchant pricings of this merchant.	O	-
routing_number	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,9)	The routing number of the merchant's bank. Either the SWIFT code or the routing number should be sent.	C	-
sort_code	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,24)	The sort code of the merchant's bank account.	O	-

beneficiary_address object

This object needs to be sent only if the beneficiary's bank account address is different than the merchant address.

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
city	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,80)	Beneficiary's city.	M	-
state	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,5)	Beneficiary's state.	O	-
postcode	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,80)	Beneficiary's postal code.	M	-
country	[A-Z]	(3,3)	Beneficiary's country, in ISO alpha 3 Code format. For example: GBR	M	-

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
address_line_1	[A-Z a-z 0-9 - =':?_%,)&+.<> /*]	(1,255)	Beneficiary's street name.	M	-
address_line_2	[A-Z a-z 0-9 - =':?_%,)&+.<> /*]	(1,255)	Beneficiary's street number.	O	-

merchant_contact object

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
first_name	[A-Z a-z 0-9 - =':?_%,)&+.<> /*]	(1,40)	First name of the merchant's contact person.	M	M
last_name	[A-Z a-z 0-9 - =':?_%,)&+.<> /*]	(1,80)	Last name of the merchant's contact person.	M	M
email	[A-Z a-z 0-9 - =':?_%,)&+.<> /*]	(1,80)	Email of the merchant's contact person.	M	M
phone	[0-9]	(1,40)	Primary phone number of the merchant's contact person (landline or mobile).	M	M
active	[true false]	(4,5)	Specifies whether the merchant's contact person is currently active. For contacts in a Create Merchant request the value should be 'true'.	M	M
role	Possible values: <ul style="list-style-type: none"> primary_contact cbk_contact general insights 	(7,49)	This field specifies the Role of the merchant's contact person. One contact with the role of primary_contact must be sent. You can send additional contacts but their role cannot be primary_contact. <ul style="list-style-type: none"> If the contact has several roles, enter them as a list separated by semicolons (" ; ") if role=general, no other roles can be indicated for the contact 	M	O

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
mobile_phone	[0-9]	(1,40)	Mobile phone number of the merchant's contact person	O	M

merchant_individual object

PSPs must send this object at least once for either corporate or sole trader merchant types.

For a corporate type of merchant, send the details of the following individuals:

- An individual who is an **authorized signatory** of the merchant (the individual who will sign the contract); and
- For every **UBO - shareholder** with over 25% holding in a corporate; and
- For every **director** in the corporate.

Note:



- When the type of merchant = sole trader, only one individual is applicable.
 - When the type of merchant = corporate, it is important to fill in the details for all the individuals who are the owners and directors of this business, to accurately depict the business structure.
 - When the type of merchant = partnership, individual_type can be *authorized signatory* or *partner*. At least two individuals who are partners need to be sent.
-

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
first_name	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,25)	Individual's first name.	M	-
last_name	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,80)	Individual's last name.	M	-
nationality	[A-Z]	(3,3)	Individual's nationality, in ISO alpha 3 Code format. For example: GBR	M	-
date_of_birth	YYYY-MM-DD	(10,10)	Individual's date of birth. For example: 1988-04-28	M	-

Parameter Name	Type	Length (min,max)	Description	PSP/ SMB	PF
place_of_birth	[A-Z]	(3,3)	The Individual's place of birth, in ISO alpha 3 Code format. For example: GBR	M	-
official_id_type	Possible values: <ul style="list-style-type: none"> Passport ID Card Driver's license Residence permit Asylum seekers document Other document 		The type of official ID used by the individual.	M	-
official_id_number	[A-Z a-z 0-9 -]	(1,50)	The ID number/passport of the official ID used by the individual.	M	-
individual_type	Possible values: <ul style="list-style-type: none"> director UBO_ownership authorised_signatory sole_trader partner 	(8,20)	The individual's type. Note: If the individual is of several types, enter them as a list separated by semicolons (";"). For example: shareholder;director	M	-
city	[A-Z a-z 0-9 - =':?_%,()&+.<>/*]	(1,80)	Individual's city of residence.	M	-
state	[A-Z a-z 0-9 - =':?_%,()&+.<>/*]	(1,5)	The individual's state.	O	
postcode	[A-Z a-z 0-9 - =':?_%,()&+.<>/*]	(1,11)	The individual's postal code.	M	
country	[A-Z]	(3,3)	Individual's country of residence, in ISO alpha 3 Code format. For example: GBR	M	
address_line_1	[A-Z a-z 0-9 - =':?_%,()&+.<>/*]	(1,255)	Individual's street name.	O	

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
holding_percent	[0-9.] Decimal: 3 digits + 2 decimal places	(1,6)	Specifies the Individual's percentage of ownership of the corporation. Mandatory if individual_type = 'UBO_ownership'	C	
passport_place_of_issue	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,255)	The place of issue of the Individual's passport. Mandatory if official_id_type = 'Passport'	C	
active	[true false]	(4,5)	Specifies whether the individual is currently active. For merchant creation individuals the value is 'true'	M	
house_number	[A-Z a-z 0-9 -]	(1,9)	Individual's house number.	O	
official_id_expiry_date	YYYY-MM-DD	(10,10)	The expiry date of the official ID used by the individual. For example: 2030-03-24	O	
related_corporate	[A-Z a-z 0-9 -]	(1,80)	Specify here the company_registration_number of the corporate to which this individual is related. The value in this field should match the company_registration_number in the related_corporate object. If the type is corporate you must send the related company_registration_number. If the type is sole trader this field is optional.	C	
email_address	[A-Z a-z 0-9 + - _ ~]	(1,80)	Individual's email address, in email format.	C (M for SMB)	

merchant_product object

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
product	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(3,80)	The type of product. See Appendix B: Product for the list of all possible products. Note that the partner must have the product in order for the merchant to have it.	M	-
active	[true false]	(4,5)	Specifies whether the product needs to be setup as active for the merchant. In a Create Merchant request, send 'true'.	M	-
product_configuration	Object		Object that holds the product_configuration details (also referred to as technical setup). In case product configuration for the merchant is similar to the partner's, there is no need to send this Object (configuration is inherited from the partner to the merchant).	O	-

product_configuration object

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
3ds_adviser_rba_amount_threshold	[0-9]{1,3}{?:[0-9]{1,2}}	(1,6)	The threshold value for initiating 3D Secure when using a Risk Based approach. Only relevant if the partner is registered for this service, and the merchant intends to use the service.	O	-

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
3ds_adviser_smartguard_score_threshold	[0-9]	(1,4)	Specifies the risk score threshold for Shift4's SmartGuard service. Only relevant if the partner is registered for this service, and the merchant intends to use the service.	0	-
3ds_enable_notification	[true false]	(4,5)	Specifies whether to implement a 3D Secure notification mechanism to automatically retrieve updates on the transaction processing progress without initiating another call to the gateway. Only relevant if the partner is registered for this service, and the merchant intends to use the service.	0	-
3ds_notification_url	[A-Z a-z 0-9 - =':?_%,)&+.<> /*]	(1,255)	The URL to which 3D Secure notifications from Shift4 should be sent. Only relevant if the partner is registered for this service, and the merchant intends to use the service.	0	-
allowed_operations	[0-9]	(1,3)	List of all operations that the merchant should inherit from the partner. If all, leave empty. For example : 2,3,12,13 See Appendix E: Operation codes for the full list.	0	-
apm_allowed_operations	[A-Z a-z 0-9 - =':?_%,)&+.<> /*]	(1,3)	The payment methods allowed for this merchant. Only relevant if the partner is registered for this service, and the merchant intends to use the service.	0	-

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
apm_notification_address	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,255)	The address to which APM notifications from Shift4 should be sent. Only relevant if the partner is registered for this service, and the merchant intends to use the service.	0	-
apm_notification_mode	[true false]	(4,5)	Specifies whether to implement an APM notification mechanism for receiving an update about a transaction's status after the shopper's action. Only relevant if the partner is registered for this service, and the merchant intends to use the service.	0	-
crx_acquiring_multi_capture	[true false]	(4,5)	Specifies whether the merchant may capture a payment multiple times (for example, for an order with items that can be shipped at different times).	0	-
hpp_code_3d_secure_required	[true false]	(4,5)	Specifies whether the merchant requires 3D Secure on its HPP code hosted payment page.	0	-
hpp_code_enable_smartguard	[true false]	(4,5)	Specifies whether to enable SmartGuard if the merchant uses an HPP code solution.	0	-
hpp_code_enable_token	[true false]	(4,5)	Specifies whether to enable token usage if the merchant uses an HPP code solution.	0	-

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
hpp_code_shopping_cart	[A-Z a-z 0-9 - =':?_%,)&+.<> /*]	(1,255)	The type of shopping cart solution if the merchant uses an HPP code solution. The available options include: <ul style="list-style-type: none"> • Magento • WooCommerce 	0	-
hpp_form_3d_secure_required	[true false]	(4,5)	Specifies whether the merchant requires 3D Secure on its HPP form hosted payment page.	0	-
hpp_form_enable_notification	[true false]	(4,5)	Specifies whether the merchant requires registration for its HPP form notification service.	0	-
hpp_form_enable_smart_guard	[true false]	(4,5)	Specifies whether to enable SmartGuard if the merchant uses an HPP form solution.	0	-
hpp_form_enable_token	[true false]	(4,5)	Specifies whether to enable token usage if the merchant uses an HPP form solution.	0	-
hpp_form_skin_name	[A-Z a-z 0-9 - =':?_%,)&+.<> /*]	(1,255)	The name of the skin for setting up this merchant.	0	-
pbl_allow_email	[true false]	(4,5)	Specifies whether the merchant is allowed to have the email PayByLink functionality.	0	-
pbl_allow_sms	[true false]	(4,5)	Specifies whether the merchant is allowed to have the phone message PayByLink functionality.	0	-
pbl_allow_vpos	[true false]	(4,5)	Specifies whether the merchant is allowed to have the email virtual POS functionality.	0	-
pbl_countries_of_payers	[A-Z]	(3,3)	The countries which the payer can be from, in ISO 3-letter country code format.	0	-

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
pbl_countries_of_payers_default	[A-Z]	(3,3)	The default payer country, in ISO 3-letter country code format.	0	-
pbl_currency	[A-Z]	(3,3)	The currencies in which payment can be accepted, in ISO 3-letter currency code format.	0	-
pbl_default_currencies	[A-Z]	(3,3)	The default currency or currencies, in ISO 3-letter currency code format. To specify multiple currencies, enter them as a comma separated list.	0	-
pbl_languages	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,2)	The languages in which the payment page can be sent, in ISO 2-letter language code format.	0	-
pbl_language_default	[A-Z]	(1,2)	The default payment page language, in ISO 2-letter language code format.	0	-
pbl_notification_address	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,255)	The address to which payment notifications will be sent.	0	-
pbl_notification_mode	[true false]	(4,5)	Specifies whether to activate notification mode.	0	-
pbl_sender_email	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,255)	The email address from which emails will be sent.	0	-
pbl_skin_type	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,255)	The type of skin used for the payment page.	0	-
pbl_thankyou_email_content	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,1024)	The content of the email which will be sent on behalf of the merchant after the payment is done. Relevant only if pbl_allow_email=true.	0	-

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
pbl_thankyou_sms_content	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,1024)	The content of the message which will be sent on behalf of the merchant after the payment is done. Relevant only if pbl_allow_sms=true.	0	-
smart_guard_blocking_threshold	[0-9]	(1,4)	The SmartGuard risk score threshold. Transactions with a SmartGuard risk score equal to or higher than this threshold will be blocked. Only relevant if the partner is registered for this service, and the merchant intends to use the service.	0	-
smart_guard_ml_standalone	[true false]	(4,5)	Indicates whether the merchant is enrolled for the standalone SmartGuard service.	0	-
smart_guard_review_threshold	[0-9]	(1,4)	The SmartGuard transaction review threshold. Transactions with a SmartGuard risk score lower than this threshold will be automatically passed. Transactions with a SmartGuard risk score equal to or higher than this threshold, but lower than the smart_guard_blocking_threshold, will be passed and reviewed. Only relevant if the partner is registered for this service, and the merchant intends to use the service.	0	-
token_skip_card_validation	[true false]	(4,5)	Indicates whether the merchant is allowed to create tokens without card validation.	0	-

merchant_requirement object

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
pricing	Object	-	Object that holds the pricing details. When sending the pricing object under a merchant requirement, send only the partner_terms_identifier and merchant_terms_identifier that are related to this merchant requirement.	M	M
merchant_requirement_id	[A-Z a-z 0-9 - =':?_%,()&+.<>; /*]	(1,85)	The partner's assigned ID for this merchant_requirement object. This parameter value should be 1 for the first merchant requirement ID and the consecutive ID number for each additional merchant requirement objects sent for the merchant.	M	M
active	[true false]	(4,5)	Specifies whether this merchant_requirement is active. Note: When creating a new merchant always send 'true'.	M	M
payment_channel	(WEB MOTO CP)	(2,4)	Indicates whether transactions are sent from WEB, MOTO or CP.	M	M
mcc_code	[0-9]	(4,4)	The requested merchant category code (MCC).	M	M
descriptor_dba_name	[A-Z a-z 0-9 - =':?_%,()&+.<>; /*]	(1,22)	The portion of the merchant descriptor that identifies the merchant's "Doing Business As" (DBA) name.	M	M
descriptor_city	[A-Z a-z 0-9 - =':?_%,()&+.<>; /*]	(1,13)	The portion of the merchant descriptor that identifies the city in which the merchant's business is located.	M	M
url	[A-Z a-z 0-9 - =':?_%,()&+.<>; /*]	(1,255)	The merchant's site URL. Relevant only if the payment channel is WEB. URL format: <ul style="list-style-type: none"> • must start with HTTP / HTTPS • must contain WWW For example: https://www.nicepictures.dk/	C	C

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
pos_device	Object	-	Object that holds the pos_device details. Must be sent if the payment channel is CP.	C	C
sub_merchant_id	[0-9]	(1,15)	The sub merchant ID assigned to the merchant. For example: 246338000011008	-	M

pos_device object

This object is mandatory if you send a merchant_requirement object with a card present (CP) payment channel. It will be sent nested under the merchant_requirement object and will contain the POS device data.

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
address_line_1	[A-Z a-z 0-9 - =':?_%,()&+.<>*/]	(1,80)	House number and street where the POS device is located.	M	M
city	[A-Z a-z 0-9 - =':?_%,()&+.<>*/]	(1,80)	City in which the POS is located.	M	M
country	[A-Z]	(3,3)	Country in which the POS is located, in ISO alpha 3 Code format. For example: GBR	M	M
number_of_devices	[0-9]	(1,4)	Number of POS devices of this type (=api_code), and at the this location.	M	M
postcode	[A-Z a-z 0-9 - =':?_%,()&+.<>*/]	(1,11)	Postal code of POS location.	M	M
state	[A-Z a-z 0-9 - =':?_%,()&+.<>*/]	(1,5)	State in which the POS is located.	O	O
api_code	[0-9]	(1,4)	The code identifying the type of POS device as received from Shift4. For example: 009	M	M

pricing object

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
partner_terms_identifier	[A-Z a-z 0-9 -]	(9, 10)	<p>The ID of the fixed merchant pricing terms you are using to assign pricing to this merchant.</p> <p>The ID always begins with a leading 'MPS-' and continues with max 6 digits.</p> <p>For example: MPS-660832</p> <p>NOTE: Enter here the same value as the one you entered in parameter partner_terms_identifier in the merchant_bank_account object.</p>	M	-
merchant_terms_identifier	[A-Z a-z 0-9 -]	(1,10)	Identifier assigned by the partner, and used to link between merchant requirements , merchant pricing and merchant bank accounts .	M	-
settlement_frequency	Possible values: <ul style="list-style-type: none"> • Monthly • Weekly • Daily • Twice a week 	(5,12)	The frequency in which the settlement is paid to the merchant in this merchant pricing.	O	-
max_trx_value	[0-9.] Decimal: Max 10 digits + 2 decimal places	(1,13)	<p>The maximum transaction value which is allowed for the merchants in this merchant pricing.</p> <p>Send this parameter to override the maximum transaction value of the fixed pricing. Overriding your fixed pricing values requires additional approval from Shift4, which may prolong the onboarding process.</p> <p>Note: We recommend not pre-populating this field with a generic number for all your merchants, as an inaccurate number can cause issues in the underwriting process.</p>	O	-

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
fee_list	object	-	A fee_list object that holds the fee name and the fee value of fees you want to have in this merchant pricing. Send this object to override fee values of the fixed pricing (also referred to as “partner terms”) assigned to this merchant.	O	-

fee_list object

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
fee_name	[A-Z a-z]	(12,12)	The name of the fee you want to set up for the merchant. Possible values: <ul style="list-style-type: none"> Discount Fee Note: If the discount fee pricing set for your merchant has a different breakdown (for Card Scheme, Region, Card Type), using this object will override all the values with the value you set through the API.	O	-
fee_value	[0-9.] Decimal, Max 2 decimal places	(1,6)	The value of the fee assigned for this merchant terms. Note: For discount fee the max value is 100 (reflecting the percentage).	C (M if you fill in ‘fee name’)	-

online_signature object

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
date_timestamp	YYYY-MM-DDThh:mm:ss.000Z	(24,24)	The timestamp from the partner's system, recording when the partner request is sent. Example: 2021-10-30T15:27:02.000Z	M	M
service_agreement_version	[A-Z a-z 0-9 - =!:_%,()&+.<> /*]	(1,255)	The version of the service agreement to which this merchant is subject. For example: v1	M	M

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
signer_ip	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,255)	The IP address of the signer of the merchant creation request.	M	M

registered_address object

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
city	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,80)	The merchant's city.	M	M
country	[A-Z]	(3,3)	The merchant's country, in ISO alpha 3 Code format. For example: GBR	M	M
street	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,255)	The merchant's street.	M	M
house_number	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,255)	The merchant's house number.	M	M
apartment_number	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,255)	The merchant's apartment number.	O	O
postcode	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,11)	The merchant's postal code.	M	M
state	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,5)	The merchant's state (for US and Canada merchants).	O	O

related_corporate object

This object is only required for merchants defined as corporate (not sole traders). Use it to provide the merchant's company details as well as the details of any corporate director or shareholder.



Note: It is important to send this object to accurately depict the merchant's business structure. Not sending this object with the necessary details can cause issues and declines in the underwriting process.

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
company_registration_name	[A-Z a-z 0-9 - =':?_%(),)&+.<> /*]	(1,80)	The corporate's registration name.	M	-
related_corporate	[A-Z a-z 0-9]	(1,255)	<ul style="list-style-type: none"> If this field is sent for a corporate with a holding in the merchant, specify here the company_registration_number of the merchant. If this field is sent for the onboarded merchant itself, send Null value. See Appendix D: Related Corporate and Merchant Individual Scenarios .	M	-
company_registration_number	[A-Z a-z 0-9 -]	(1,80)	The corporate's registration number.	M	-
country_of_incorporation	[A-Z]	(3,3)	The corporate's country of incorporation, in ISO alpha 3 Code format. For example: GBR	M	-
date_of_incorporation	YYYY-MM-DD	(10,10)	The corporate's data of incorporation. For example: 2017-05-20	M	-
city	[A-Z a-z 0-9 - =':?_%(),)&+.<> /*]	(1,80)	The corporate's city.	M	-
state	[A-Z a-z 0-9 - =':?_%(),)&+.<> /*]	(1,5)	The corporate's state.	O	-
postal_code	[A-Z a-z 0-9 - =':?_%(),)&+.<> /*]	(1,11)	The corporate's postal code.	M	-
country	[A-Z]	(3,3)	The corporate's country, in ISO alpha 3 Code format. For example: GBR	M	-
address_line_1	[A-Z a-z 0-9 - =':?_%(),)&+.<> /*]	(1,255)	The corporate's address line 1.	M	-
house_number	[0-9]	(1,3)	The corporate's house number.	M	-
active	[true false]	(4,5)	Specifies whether this corporate is active. In a Create Merchant request send 'true'.	M	-

top_4_countries object

This object is only required for SMB. Use it to provide the main countries the merchant is processing in. Indicate the percentage of transactions for each country you list. The object can hold up to 4 countries, sending at least one country is mandatory.

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
country	[A-Z]	(3,3)	A main country in which the merchant is processing, in ISO alpha 3 Code format.	C (M for SMB)	-
percentage	[0-9] - Integer	(1,2)	The percentage this country holds out of all the merchants processing as an Integer between 0-100. Example: For 58% send 58. The total sum of the top 4 countries percentage needs to be 100.	C (M for SMB)	-

Code Examples for Create Merchant**Create Merchant: Body Example**

```
{
  "merchant_name": "Smoke {{merchant_name}}",
  "company_registration_name": "Nicehair ApS",
  "company_registration_number": "33061102",
  "country_of_incorporation": "DNK",
  "business_type": "corporate",
  "business_model_description": "Selling beauty products onlin 31231",
  "average_item_value_eur": "0",
  "expected_monthly_turnover": "64105",
  "date_of_incorporation": "2010-02-07",
  "registered_address": {
    "city": "Esbjerg",
    "country": "DNK",
    "street": "Randersvej",
    "house_number": "30",
    "apartment_number": "22",
    "postcode": "6700"
  },
  "online_signature": {
    "date_timestamp": "2021-10-30T15:27:02.000Z",
    "service_agreement_version": "0",
    "signer_ip": "0"
  }
}
```

```
},
"merchant_contact": [
  {
    "first_name": "Mie",
    "last_name": "Henriksen",
    "email": "mie@nicehair.dk",
    "phone": "0",
    "active": true,
    "role": "principal_contact",
    "mobile_phone": "0"
  },
  {
    "first_name": "Mie",
    "last_name": "Nicehair ApS",
    "email": "wbyaulwwqkjedclyenxdbeionbro@credoraxreadonly.jpgatb",
    "phone": "0",
    "active": true,
    "role": "general",
    "mobile_phone": "0"
  }
],
"merchant_individual": [{
  "first_name": "Tonny Nielsen",
  "last_name": "Bruun",
  "nationality": "DNK",
  "date_of_birth": "1978-07-02",
  "place_of_birth": "DNK",
  "official_id_type": "Passport",
  "official_id_number": "210755174",
  "individual_type": "director",
  "city": "Esbjerg",
  "state": "IL",
  "postcode": "6710",
  "country": "DNK",
  "address_line_1": "Sandbakk",
  "holding_percent": "0",
  "passport_place_of_issue": "DNK",
  "active": true,
  "house_number": "412",
  "official_id_expiry_date": "2028-06-19",
  "related_corporate": "33061102",
  "email_address" : "alona@asd.com"
}],
"related_corporate": [
  {
    "company_registration_name": "Nicehair ApS",
    "related_corporate": null,
    "company_registration_number": "33061102",
    "country_of_incorporation": "DNK",
    "date_of_incorporation": "2010-02-07",
```

```
    "city": "Esbjerg",
    "postal_code": "6700",
    "country": "DNK",
    "address_line_1": "Randersvej",
    "house_number": "30",
    "active": true
  },
  {
    "company_registration_name": "TONNY BRUUN",
    "related_corporate": "33061102",
    "company_registration_number": "33057636",
    "country_of_incorporation": "DNK",
    "date_of_incorporation": "2010-02-07",
    "city": "Esbjerg",
    "postal_code": "6710",
    "country": "DNK",
    "active": true
  },
  {
    "company_registration_name": "TONNY BRUUN",
    "related_corporate": "33061102",
    "company_registration_number": "13589100",
    "country_of_incorporation": "DNK",
    "date_of_incorporation": "1989-01-11",
    "city": "Copenhagen East",
    "postal_code": "2100",
    "country": "DNK",
    "address_line_1": "Strodamvej",
    "house_number": "46",
    "active": true
  },
  {
    "company_registration_name": "Tonny",
    "related_corporate": "33061102",
    "company_registration_number": "75272014",
    "country_of_incorporation": "DNK",
    "date_of_incorporation": "1984-05-09",
    "city": "Copenhagen K",
    "postal_code": "1120",
    "country": "DNK",
    "address_line_1": "Trolley Street",
    "house_number": "11",
    "active": true
  }
],
"merchant_product": [
  {
    "product": "Acquiring services",
    "active": true
  },
],
```

```
{
  "product": "Gateway Services",
  "active": true
},
{
  "product": "3D Secure",
  "active": true,
  "product_configuration": {
    "allowed_operations": "92;98"
  }
}
],
"merchant_bank_account": [
  {
    "settlement_currency": "EUR",
    "active": true,
    "beneficiary_name": "Nicehair ApS",
    "bank_name": "Danske Bank",
    "bank_country": "DNK",
    "iban": "DK0230004394082104",
    "swift": "DABADKKKXXX",
    "use_merchant_address": true,
    "beneficiary_address": {
      "city": "Esbjerg",
      "postcode": "6710",
      "country": "DNK",
      "address_line_1": "Sandbakken",
      "address_line_2": "10"
    },
    "partner_terms_identifider": "MPS-676669",
    "account_number": "DK62010800000099999999",
    "merchant_terms_identifider": "SSS-555"
  }
]
,
"pricing": [
  {
    "partner_terms_identifider": "MPS-676669",
    "merchant_terms_identifider": "SSS-555",
    "settlement_frequency": "Weekly",
    "max_trx_value": "9999",
    "fee_list": [
      {
        "fee_name": "Discount Fee",
        "fee_value": "0.3"
      }
    ]
  }
]
],
"merchant_requirement": [
```

```
{
  "pricing": {
    "partner_terms_identifier": "MPS-676669",
    "merchant_terms_identifier": "SSS-555"
  },
  "merchant_requirement_id": "1234",
  "active": true,
  "payment_channel": "WEB",
  "mcc_code": "3177",
  "descriptor_dba_name": "{{merchant_name}}",
  "descriptor_city": "DNK",
  "url": "https://www.nicehair.dk/"
},
"top_4_countries": [
  {
    "country": "DEU",
    "percentage": "40"
  },
  {
    "country": "ITA",
    "percentage": "60"
  }
],
"purchase_charge_timing": "When placing the order",
"avg_delivery_days": "100",
"primary_sector": "100",
"primary_payment_channel": "MOTO",
"average_transaction_value": "15",
"vat_number": "Aa123456789",
"maximum_transaction_value": "10000",
"number_of_employees": "1",
"annual_turnover": "1",
"balance_sheet_total": "1",
"support_subscription": true,
"free_membership_trials": true,
"automatic_billing_after_trial": true,
"automatic_recurring_payments": true,
"charging_frequency": "1"
}
```

Create Merchant: Response Examples

Create succeeded

[Sync response \(immediate\):](#)

```
{"crx_request_id": "c424665c9336410e9f7459031b1003ef", "original_request_time": "2022-10-28T13:41:44.097", "result": {"response_code": "000", "response_description": "Request is successful"}}
```

ASync response (Up to 4 hours), via webhook notification:

```
{"type": "Merchant onboarding API", "event_id": "b342417170704c4dbe54bc9166569ed",  
"event_status_code": "03", "event_status_description": "Merchant was created successfully for  
merchant CEID-0000008335", "event_additional_fields": {"operation_type": "Merchant Creation",  
"result.merchant_id": "CEID-0000251426"}}
```

Create failed**Sync response (immediate):**

```
{"crx_request_id": "2c2ff3e8beec4173b2affe1c2f890093", "original_request_time": "2022-10-  
28T13:42:09.571", "result": {"response_code": "012", "response_description": "At least one of input  
parameters is malformed.", "response_details": ["company_registration_name parameter has to be  
equal to the merchant upsert value in this case.", "company_registration_name parameter is  
required."]}}
```

ASync response (Up to 4 hours), via webhook notification:

```
{"type": "Merchant onboarding API", "event_id": "140761842829451e99625b3bab3b1b7b",  
"event_status_code": "05", "event_status_description": "Merchant was not created successfully for  
merchant CEID-0000008335", "event_additional_fields": {"operation_type": "Merchant  
Creation", "failure_message": "Account, You're creating a duplicate record. We recommend you use  
an existing record instead."}}
```


Update merchant

The 'Update Merchant' service allows you to manage merchants during onboarding or when already processing.

- For onboarding merchants, use this service to complete onboarding with missing data or documents or to update information you submitted before, in accordance with available fields.
- For processing merchants, use this service to update some information about the merchants, in accordance with available fields.

Production [POST] <https://onboarding.sourcepayments.com/setup/merchant/update/<merchant id>>

Integration <https://onboarding.int.sourcepayments.com/rest/setup/merchant/update/<merchant id>>

Request Fields

When sending an Update merchant call, you must send all the root level fields listed below, as well as the relevant object(s) (depending on the type of update).

- For adding a new object
 - Active = true
 - Is_update= false
 - Send all the fields you would send in the creation
- For updating an existing object:
 - Active = true
 - Is_update= true
 - Send only the fields you want to update as well as the field to identify the object
- For cancelling an existing object:
 - Active = false
 - Is_update= true

Root level fields and objects

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	Presence - PF
is_update	[true false]	(4,5)	At the root level, set this to is_update=true	M	M

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	Presence - PF
merchant_id	[A-Z a-z 0-9 -]	(15,15)	The merchant ID, as provided in the notification returned to the partner once the merchant creation is successful. For example: CEID-0000190628	M	M
partner_id	[A-Z a-z 0-9 -]	(15,15)	The Shift4 assigned ID of the partner creating the merchant. For example: CEID-0000190325	M	M
merchant_bank_account	Object		A list object that can be sent more than once. It holds the merchant bank account details (also referred to as settlement bank account). This object includes a nested beneficiary_address object.	O	-
merchant_contact	Object	-	Object that holds the merchant_contact details.	O	O
merchant_individual	Object	-	Object that holds the merchant_individual details.	O	-
merchant_product	Object	-	Object that holds the merchant_product details.	O	-
merchant_requirement	Object	-	Object that holds the merchant_requirement details (also referred to as Payment Channel).	O	O
registered_address	Object	-	Object that holds the registered_address object details.	O	O
related_corporate	Object	-	Object that holds the related_corporate details.	O	-

merchant_bank_account object

Using this object in the Update merchant API call, you can add or cancel a merchant bank account (i.e., a settlement bank account).

- To add a settlement bank account, specify **active=true**, **is_update=false**, and all the fields you would send in the [merchant_bank_account](#) object of a **Create merchant** call.
- To cancel a settlement bank account, **specify active=false, is_update=true**, as well as the **settlement_currency** field to identify the bank account, as described in the table below:

Parameter Name	Type	Length (min,max)	Description	Presence-PSP/SMB	Presence-PF
active	[true false]	(4,5)	Specifies whether a merchant bank account is being added (active=true), or cancelled (active=false)	M	-
is_update	[true false]	(4,5)	Specifies whether to create a new object of this type (is_update=false), or cancel an existing object (is_update=true). The existing object is identified by its settlement_currency . Specifies whether a merchant bank account is being added (active=true), or whether a merchant bank account is being cancelled (active=false). To create a new object of this type, send all the fields you would send in the merchant_bank_account object of a Create merchant call.	M	-
settlement_currency	[A-Z]	(3,3)	The currency in which funds are deposited in the merchant's bank account, in ISO alpha 3 Code format. For example: GBP	M	-

merchant_contact object

Using this object in the Update merchant API call, you can add, update or cancel a merchant contact.

- To add a merchant contact, specify **active=true, is_update=false**, and the rest of the fields listed below.
- To update a merchant contact, specify **active=true, is_update=true**, the **email** field to identify the contact, and the fields you wish to update from those listed below.
- To cancel a merchant contact, specify **active=false, is_update=true**, as well as the **email** field to identify the contact.

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
active	[true false]	(4,5)	Specifies whether a merchant contact is being added or updated (active=true), or whether a merchant contact is being cancelled (active=false).	M	M
is_update	[true false]	(4,5)	Specifies whether to create a new object of this type (is_update=false), overwrite the values of an existing object (is_update=true), or cancel an existing object (is_update=true). The existing object is identified by its email .	M	M
first_name	[A-Z a-z 0-9 - =':?_%,)&+.<> /*]	(1,40)	First name of the merchant's contact person.	M	M
last_name	[A-Z a-z 0-9 - =':?_%,)&+.<> /*]	(1,80)	Last name of the merchant's contact person.	M	M
mobile_phone	[0-9]	(1,40)	Mobile phone number of the merchant's contact person.	O	M
phone	[0-9]	(1,40)	Landline phone number of the merchant's contact person.	M	M
email	[A-Z a-z 0-9 - =':?_%,)&+.<> /*]	(1,80)	Email of the merchant's contact person.	M	M
role	Possible values: <ul style="list-style-type: none"> primary_contact cbk_contact general insights 	(7,49)	This field specifies the Role of the merchant's contact person. Keep in mind that the merchant must have one contact with the role of primary_contact. <ul style="list-style-type: none"> If the contact has several roles, enter them as a list separated by semicolons (" ; ") if role=general, no other roles can be indicated for the contact 	M	O

merchant_individual object

Using this object in the Update merchant API call, you can add or update a merchant individual.

- To add a merchant individual, specify **active=true**, **is_update=false**, and **all the fields** you would send in the **merchant_individual** object of a **Create merchant** call.
- To update a merchant individual, specify **active=true**, **is_update=true**, the **official_id_number** to identify the individual, and the fields you wish to update from among those listed below.

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
active	[true false]	(4,5)	Specifies whether a merchant individual is being added or updated (active=true).	M	-
is_update	[true false]	(4,5)	Specifies whether to create a new object of this type (is_update=false), or overwrite the values of an existing object (is_update=true). The existing object is identified by its official_id_number .	M	-
address_line_1	[A-Z a-z 0-9 - =!:_%,()&+.<>/*]	(1,255)	Individual's street name.	O	-
house_number	[0-9]	(1,9)	Individual's house number.	O	-
city	[A-Z a-z 0-9 - =!:_%,()&+.<>/*]	(1,80)	Individual's city of residence.	M	-
state	[A-Z a-z 0-9 - =!:_%,()&+.<>/*]	(1,5)	The individual's state.	O	-
country	[A-Z]	(3,3)	Individual's country of residence, in ISO alpha 3 Code format. For example: GBR	M	-
postcode	[A-Z a-z 0-9 - =!:_%,()&+.<>/*]	(1,11)	The individual's postal code.	M	-
holding_percent	[0-9.] Decimal: 3 digits + 2 decimal places	(1,6)	Specifies the Individual's percentage of ownership of the corporation.	O	-

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
official_id_number	[A-Z a-z 0-9 -]	(1,50)	The ID number/passport of the official ID used by the individual.	M	-
official_id_expiry_date	YYYY-MM-DD	(10,10)	The expiry date of the official ID used by the individual. For example: 2030-03-24	O	-
passport_place_of_issue	[A-Z a-z 0-9 - =!:?_%,()&+.<>/*]	(1,255)	The place of issue of the individual's passport. Mandatory if official_id_type = 'Passport'	C	

merchant_product object

Using this object in the Update merchant API call, you can add, deactivate or update product configuration of a merchant product.

- To add a merchant product, specify **active=true**, **is_update=false**, and all the fields you would send in the [merchant_product](#) object of a **Create merchant** call.
- To deactivate a merchant product, specify **active=false**, **is_update=true**, as well as the **product** field to identify the product.
- To update a merchant product configuration, specify **active=true**, **is_update=true**, the product field to identify the product, and a nested product_configuration object with updated fields.
product_configuration object fields are the same as in create merchant

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
active	[true false]	(4,5)	Specifies whether a merchant product is being added, updated (active=true), or deactivated (active=false).	M	-
is_update	[true false]	(4,5)	Specifies whether to create a new object of this type (is_update=false), or deactivate / edit an existing object (is_update=true). The existing object is identified by its product . To create a new object of this type, send all the fields you would send in the merchant_product object of a Create merchant call.	M	-

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
product	[A-Z a-z 0-9 - =':?_%,()&+.<>:/ *]	(3,80)	The type of product. See Appendix B: Product for the list of all possible products. Note that the partner must have the product in order for the merchant to have it.	M	-
product_configuration	Object		Object that holds the product_configuration details (also referred to as <i>technical setup</i>). In case product configuration for the merchant is similar to the partner's, there is no need to send this Object (configuration is inherited from the partner to the merchant).	O	-

merchant_requirement object

Using this object in the Update merchant API call, you can add, update or cancel a merchant requirement, i.e., a payment channel:

- To add a payment channel, specify **active=true**, **is_update=false**, and all the fields you would send in the merchant_requirement object of a **Create merchant** call
- To update a payment channel, specify **active=true**, **is_update=true**, the **merchant_requirement_id** to identify the payment channel. If the update is for a CP payment channel send also a nested **pos_device** object with updated fields (you can change the number of POS devices and their address).
- To cancel a payment channel, specify **active=false**, **is_update=true**, as well as the **merchant_requirement_id** to identify the payment channel.

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
active	[true false]	(4,5)	Specifies whether a merchant requirement is being added or updated (active=true), or whether a merchant requirement is being cancelled (active=false).	M	M

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
is_update	[true false]	(4,5)	Specifies whether to create a new object of this type (is_update=false), overwrite the values of an existing object (is_update=true), or cancel an existing object (is_update=true). The existing object is identified by its merchant_requirement_id .	M	M
merchant_requirement_id	[A-Z a-z 0-9 - =':?_%,()&+.<> ;/*]	(1,85)	The partner assigned ID for this merchant_requirement object.	M	M
pos_device	Object	-	Object that holds the pos_device details. Must be sent if the payment channel is CP.	C	C

pricing object

- Using this object in the Update merchant API call, you can add or update a merchant pricing for these attributes: discount fee, settlement frequency and maximum transaction value.
- Linking new pricing to existing merchant requirement is done through creation of new merchant requirement with the required pricing identifier.

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
is_update	[true false]	(4,5)	Specifies whether to create a new pricing (is_update=false), or overwrite the values of an existing pricing (is_update=true)	M	
fee_list	object	-	A list object that holds the fee name and value the partner wants to have in this merchant pricing. Send this object in merchant update in order to update fee value in existing pricing, or to create a pricing with new fee value	O	-

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
max_trx_value	[0-9.] Decimal: Max 10 digits + 2 decimal places	(1,13)	The maximum transaction value which is allowed for the merchants in this merchant pricing. Send this parameter to override the maximum transaction value of the fixed pricing. Sending a value different from your fixed pricing requires Shift4's approval, and therefore prolongs the onboarding process. Note: We recommend not pre-populating this field with a generic number for all your merchants, as an inaccurate number can cause issues in the underwriting process.	O	-
merchant_terms_identifier	[A-Z a-z 0-9 -]	(1,10)	Identifier assigned by the partner, and used to link between merchant requirements, merchant pricing and merchant bank accounts.	M	-
partner_terms_identifier	[A-Z a-z 0-9 -]	(9, 10)	The ID of the fixed merchant pricing terms you are using to assign pricing to this merchant. The ID always begins with a leading 'MPS-' and continues with max 6 digits. For example: MPS-660832 NOTE: you receive these IDs as part of your connectivity details before go-live	M	-
settlement_frequency	Possible values: <ul style="list-style-type: none"> • Monthly • Weekly • Daily • Twice a week 	(5,12)	The frequency in which the settlement is paid for the merchant in this merchant pricing.	O	-

registered_address object

Using this object in the Update merchant API call, you can update a registered address.

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
is_update	[true false]	(4,5)	Specifies to update the values of an existing object (is_update=true).	M	both
street	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,255)	The merchant's street.	M	M
house_number	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,255)	The merchant's house number.	M	M
apartment_number	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,255)	The merchant's apartment number.	O	O
city	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,80)	The merchant's city.	M	M
state	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,5)	The merchant's state (for US and Canada merchants).	O	O
country	[A-Z]	(3,3)	The merchant's country, in ISO alpha 3 Code format. For example: GBR	M	M
postcode	[A-Z a-z 0-9 - =':?_%,()&+.<> /*]	(1,11)	The merchant's postal code.	M	M

related_corporate object

Using this object in the Update merchant API call, you can add or update an existing related corporate. The existing object is identified by its **company_registration_number**.

- To add a *related corporate*, specify **active=true**, **is_update=false**, and all the fields you would send in the *related_corporate* object of a **Create merchant** call.
- To update a *related_corporate*, specify **active=true**, **is_update=true**, the **company_registration_number** to identify the related corporate, and the fields you wish to update from among those listed below.

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
active	[true false]	(4,5)	Specifies whether this corporate is active. To add a new related corporate send 'true'.	M	-
is_update	[true false]	(4,5)	Specifies whether to create a new object of this type (is_update=false), or overwrite the values of an existing object (is_update=true).	M	-
address_line_1	[A-Z a-z 0-9 - =':?_%,()&+.<>;/ *]	(1,255)	The corporate's address line 1	M	-
house_number	[0-9]	(1,3)	The corporate's house number	M	-
city	[A-Z a-z 0-9 - =':?_%,()&+.<>;/ *]	(1,80)	The corporate's city	M	-
State	[A-Z a-z 0-9 - =':?_%,()&+.<>;/ *]	(1,5)	The corporate's state	O	-
country	[A-Z]	(3,3)	The corporate's country, in ISO alpha 3 Code format. For example: GBR	M	-
postal_code	[A-Z a-z 0-9 - =':?_%,()&+.<>;/ *]	(1,11)	The corporate's postal code	M	-
company_registration_number	[A-Z a-z 0-9 -]	(1,80)	The corporate's registration number	M	-
related_corporate	[A-Z a-z 0-9]	(1,255)	company_registration_number of the merchant.	M	-

Merchant Update: Code Examples (Body)

Adding object – merchant_individual

```
{ "is_update": true,
  "merchant_individual": [
    { "first_name": "Spiritual",
      "last_name": "Individual",
      "nationality": "USA",
      "date_of_birth": "1988-07-02",
      "place_of_birth": "DNK",
      "official_id_type": "Passport",
      "official_id_number": "122999",
      "individual_type": "director",
      "city": "Esbjerg",
      "state": "IL",
      "postcode": "6710",
      "country": "DNK",
      "address_line_1": "Sandbakken",
      "address_line_2": "10",
      "holding_percent": "0",
      "passport_place_of_issue": "DNK",
      "active": true,
      "house_number": "412",
      "official_id_expiry_date": "2028-06-19"
    }
  ]
}
```

Modifying merchant_requirement object (changing number of devices)

```
{ "is_update": true,
  "merchant_requirement": [
    { "is_update": true,
      "active": true,
      "merchant_requirement_id": "5",
      "pos_device": {
        "address_line_1": "tes_upd",
        "city": "NEW",
        "country": "ITA",
        "number_of_devices": "15",
        "postcode": "new",
      }
    }
  ]
}
```

```
"state": "CA"
} } ]]
```

Merchant Update: Response Examples

Update succeeded

Sync response (immediate):

```
{"merchant_id": "CEID-0000251426", "crx_request_id": "1af81ad2cab74fc08e248de34e1c9720",
  "original_request_time": "2022-12-20T17:51:28.318", "result": {"response_code": "000",
  "response_description": "Request is successful" }}
```

ASync response (Up to 4 hours), via webhook notification:

```
{"type": "Merchant onboarding API", "event_id": "1af81ad2cab74fc08e248de34e1c9720",
  "event_status_code": "04", "event_status_description": "Merchant was updated successfully for merchant CEID-0000008335", "event_additional_fields": {"operation_type": "Merchant Update" }}
```

Update failed

Sync response (immediate):

```
{"merchant_id": "CEID-0000251426", "crx_request_id": "62b17a987afa4500bebe030d60d3388a",
  "original_request_time": "2022-12-20T17:58:17.646", "result": {"response_code": "012",
  "response_description": "At least one of input parameters is malformed.",
  "response_details": ["merchant_individual[0].first_name parameter is not allowed to update."
  ] }}
```

ASync response (Up to 4 hours), via webhook notification:

```
{"type": "Merchant onboarding API", "event_id": "82b58722fcd647f6a7d51f5e392f7204",
  "event_status_code": "06", "event_status_description": "Merchant was not updated successfully for merchant CEID-0000008335", "event_additional_fields": {"operation_type": "Merchant Update",
  "failure_message": "Related company not exist 33061103, The record you wanted to update does not exist 123456" }}
```

Upload document

Integration URL `https://onboarding.int.sourcepayments.com/rest/setup/merchant/upload/<merchant id>?related=<related>&file_type=<file type>&submitMerchant=<boolean>`

Production URL `https://onboarding.sourcepayments.com/rest/setup/merchant/upload/<merchant id>?related=<related>&file_type=<file type>&submitMerchant =<boolean>`

- Supported files type: PDF, JPEG, JPG, PNG, TIFF
- Maximum size: 8MB

URL Parameters

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
merchant_id	[A-Z a-z 0-9 -]	(15,15)	The merchant ID, as provided in the notification returned to the partner once the merchant creation process is complete. For example: CEID-0000190628	M	-
related	[A-Z a-z 0-9 -]	(1,80)	This parameter relates the uploaded document either to an individual or a corporate that was sent in the merchant create <ul style="list-style-type: none"> • If the uploaded document is related to an individual, specify here the official_id_number from the relevant the merchant_individual object. • If the uploaded document is related to a corporate, specify here the company_registration_number of the relevant corporate from the related_corporate object. 	M	-
file_type	[0-9]	(1,2)	A code specifying the type of file being uploaded. See Appendix F: Onboarding Documents for a list of file types.	M	-

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
submitMerchant	[true false]	(4,5)	<p>This parameter indicates the partner is submitting the merchant and the files to start onboarding process in Shift4.</p> <p>This indication can be sent more than once if additional files for the merchant is required.</p> <p>Send 'true' in this parameter when you sent all relevant documents for the merchant to start onboarding.</p> <p>Otherwise, send 'false'.</p>	0	-

File Upload: Response Examples

file upload succeeded

Sync response (immediate):

```
{
  "merchant_id": "CEID-0000221963",
  "upload_id": "85b9e347ef0048fe927b4121eabe58c6",
  "original_request_time": "2022-10-28T13:43:38.812",
  "result": {
    "response_code": "000",
    "response_description": "File received"
  }
}
```

Sync response (immediate) – with submitMerchant=true:

```
{
  "merchant_id": "CEID-0000221963",
  "upload_id": "85b9e347ef0048fe927b4121eabe58c6",
  "original_request_time": "2022-10-28T13:43:38.812",
  "result": {
    "response_code": "000",
    "response_description": "File received and merchant is submitted"
  }
}
```

ASync response (Up to 4 hours), via webhook notification

```
{
  "type": "File upload result",
  "event_id": "aba90de07e414966b3d258f5d5a8a5b8",
  "event_status_code": "00",
  "event_status_description": "File uploaded successfully for merchant CEID-0000200332.",
  "event_additional_fields": null
}
```

file upload Failed

Sync response (immediate):

```
{"merchant_id": "CEID-0000221963111", "upload_id": "2d7748ae7b3847b1959be5c963192eaa",  
"original_request_time": "2022-11-08T09:26:27.193", "result": {"response_code": "012",  
"response_description": "File type is not supported"}}
```

ASync response (Up to 4 hours), via webhook notification:

```
merchantId=null, partnerId=CEID-0000008335, partnerRequestId=c892cb1e274c4c5caba7a03267d669ea,  
responseCode=01, responseCodeDescription=File upload failed for merchant CEID-0000221960.The record  
you wanted to update does not exist 256178., eventType=File upload result, messageForCustomer=null,  
credonoteRequest=null, credonoteResponse=null
```


Get merchant status

The partner can send an API call to learn what is the current onboarding stage of the merchant.



Note: Once merchant status is changed to “processing”, Shift4 will send a notification about the change.

Integration URL `https://onboarding.int.sourcepayments.com/rest/setup/merchant/<merchant_id>`

Production URL `https://onboarding.sourcepayments.com/rest/setup/merchant/<merchant_id>`

URL Parameters

Parameter Name	Type	Length (min,max)	Description	PSP/S MB	PF
merchant_id	[A-Z a-z 0-9 -]	(15,15)	The merchant ID, as provided in the notification returned to the partner once the merchant creation process is complete. For example: CEID-0000190628	M	-

Response fields

The possible merchant statuses include:

Status	Description
Qualification	Merchant is created (First onboarding status for MOB)
In Pre Approval	Merchant is submitted and is pending review and approval
Qualified	Merchant internal approval process in Shift4 is done
Underwriting	Underwriting phase has started
Contract Management	Contract phase has started
Pending Operation Setup	Setup phase has started
Processing	Merchant’s onboarding is completed and ready to process
Disqualified	Merchant is disqualified due to business considerations
Disconnected	The merchant is no longer processing with Shift4

Status	Description
Closed Lost	The merchant is no longer relevant

Response example

```
{ "result":{
  "response_code": "000",
  "response_description": "Request is successful",
  "response_details": [
    {
      "merchant_id": "CEID-0000250867",
      "merchant_status": "Pending Operation Setup"
    }
  ]
}
```

Get Connectivity details

Production URL https://onboarding.sourcepayments.com/rest/setup/merchant/merchant_connectivity/<merchant d>

URL Parameters

Parameter Name	Type	Length (min,max)	Description	PSP/SMB	PF
merchant_id	[A-Z a-z 0-9 -]	(15,15)	The merchant ID, as provided in the notification returned to the partner once the merchant creation process is complete. For example: CEID-0000190628	M	-

Response fields

The following information for connectivity details are retrieved for each merchant:

Field name	Description
merchant ID	The merchant ID for connectivity details are retrieved
gateway_mid	The gateway MID of this merchant. If the merchant has several gateway_mid all are retrieved.
channel	Specifies whether this GW MID is card present / card not present
descriptor	The descriptor assigned to the merchant by the partner in a Create Merchant call
last_modified_date	Last modification date of the gateway MID or the terminal
secret_key	The secret key of the gateway MID in order to send transactions via the payment API
target_mid	The terminal ID of this gateway MID. If the gateway MID has several terminals all are retrieved
max_transaction_value	Max transaction value allowed for this terminal as was set in the onboarding underwriting phase
min_transaction_value	Min transaction value allowed for this terminal as was set in the onboarding underwriting phase
mcc_mc	Approved MC MCC for this GW MID or terminal
mcc_visa	Approved VISA MCC for this GW MID or terminal
Processor	The processor of this terminal's transactions
device_type	The device type of this terminal. Relevant only for card present.

Field name	Description
device_street	The device street of this terminal. Relevant only for card present.
device_city	The device city of this terminal. Relevant only for card present.
device_country	The device country of this terminal. Relevant only for card present.
transaction_currencies	Allowed transaction currencies as were set in the fixed MPS
allowed_card_schemes	Allowed card schemes currencies as were set in the fixed MPS
allowed_operations	Allowed operations as were set in product_configuration
skin_id	The selected Skin of the payment page for HPP code product
static_key	HPP Static key provided during onboarding for HPP code product

Response example

```
{ "crx_request_id": "489d8dd0d4064a7cb7e42ca4089cc43a",
  "original_request_time": "2023-01-25T07:45:50.739",
  "result": {
    "response_code": "000",
    "response_description": "Request is successful",
    "response_details": [
      {
        "merchant_id": "CEID-0000251508",
        "details": [
          {
            "gateway_mid": "10029503",
            "channel": "Card Present",
            "descriptor": "Faustino Lviv",
            "last_modified_date": "2022-12-26 12:40:17",
            "secret_key": "1672058313251atc8ojj",
            "Terminals": [
              {
                "target_mid": "R0000052",
                "card_present": true,
                "last_modified_date": "2022-12-26 12:40:17",
                "max_transaction_value": 2500,
                "min_transaction_value": 0,
                "mcc_mc": "5999",
                "mcc_visa": "5999",
                "processor": "CREDORAX",
                "device_type": "Ingenico iCT250",
                "device_street": "Ruska street",
                "device_city": "Lviv",
                "device_country": "United States",
                "transaction_currencies": [
                  "EUR",
```

```
    "DKK",
    "CZK",
    "SEK",
    "NOK"
  ],
  "allowed_card_schemes": [
    "MasterCard",
    "Visa"
  ]
},
{
  "target_mid": "R0000053",
  "card_present": true,
  "last_modified_date": "2022-12-26 12:40:17",
  "max_transaction_value": 2500,
  "min_transaction_value": 0,
  "mcc_mc": "5999",
  "mcc_visa": "5999",
  "processor": "CREDORAX",
  "device_type": "Ingenico iCT250",
  "device_street": "Ruska street",
  "device_city": "Lviv",
  "device_country": "United States",
  "transaction_currencies": [
    "EUR",
    "DKK",
    "CZK",
    "SEK",
    "NOK"
  ],
  "allowed_card_schemes": [
    "MasterCard",
    "Visa"
  ]
},
}
]
}
]
```

Appendix A: HMAC-SHA512 Request Signature

Every API request is associated with a package signature sent as an authorization header in order to ensure the authenticity of data transfer. This package signature, in turn, is calculated on a newline separated list of values using HMAC-SHA512 with the requestor's unique secret key.

The header template is:

```
Authorization: HMAC-SHA512 Credential=<clientId>, Signature=<HMAC- SHA512 in hex>
```

Step 1: Calculating the Signature

- To calculate the signature, you need the following information:
 - Request type: for create or update it is POST, for get_status it is GET
 - Link where the request will be sent
 - Date – the same date as in the [Date header](#), for example: `Fri, 26 Aug 2022 12:14:30 GMT`
 - JSON of the request. **Make sure to remove spaces and newlines in JSON.**
- Combine all these elements into a single string, with each component written from the next line, for example:

```
POST
https://onboarding.sourcepayments.com/setup/merchant/
Fri, 26 Aug 2022 12:14:30 GMT
{"is_update":true,"merchant_requirement":[{"is_update":true,"active":true,"merchant_requirement_id":"5","pos_device":{"address_line_1":"tes_upd","city":"NEW","country":"ITA","number_of_devices":"15","postcode":"new","state":"CA"}]}
```

- Apply the HMAC-SHA512 hashing algorithm to the JSON body of the request and the merchant's secret key.

The result of applying HMAC-SHA512 to the request body and secret should look like this:

```
3464b92a69578ece8fd422cc355c7e4cf3948770065e19dc517c97b51f1f5192f180c920b02449e1ad47
34420dea9eac8f51952a880f53e18a453db6308ad50f
```

Step 2: Create the Authorization header

The authorization header template is:

```
Authorization: HMAC-SHA512 Credential=<your_partner_id>, Signature=<HMAC- SHA512 in hex>
```

For example, if:

- Your partner ID is `CEID-0000190325`, and
- The signature calculated in Step 1 is:
`3464b92a69578ece8fd422cc355c7e4cf3948770065e19dc517c97b51f1f5192f180c920b02449e1ad4734420dea9eac8f51952a880f53e18a453db6308ad50f`.

Then the authorization header is:

Authorization: HMAC-SHA512 Credential= CEID-0000190325,

Signature=3464b92a69578ece8fd422cc355c7e4cf3948770065e19dc517c97b51f1f5192f180c920b02449e1ad
4734420dea9eac8f51952a880f53e18a453db6308ad50f

Appendix B: Products

This appendix lists all the possible products that can be specified in the "product" field of the `merchant_product` object:

Product name
3D Secure
3DS Adviser
Account Updater on Demand
Acquiring services
Amex (via Cybersource)
APM Enabler
Apple Pay
Astropay direct
Banorte bank (via Cybersource)
BNP (Via Computop)
Cal (Via Yaad Sarig)
Card present package
Chargeback prevention -Ethoca
Chargeback prevention -RDR
Credorax acquiring
Credorax on behalf
ECP
FirstData
Gateway Services
Google Pay
HPP Code
HPP Form
Isracard (Via Yaad Sarig)
Israeli acquiring - Leumi Card
Israeli Acquiring Processor (Via Yaad Sarig)
LPM Services
Nuvei

Product name
PayByLink
PayPal
Raiffeisen bank (via Cybersource)
Retry optimization
Smart guard
Spanish connectivity (Redsys)
Token
Token Account Updater
TSYS (via Cybersource)
UATP (via Cybersource)
Worldpay

Appendix C: Result Codes

This appendix lists all the possible result codes that can be returned in the “result” object and their corresponding descriptions.

Note: The result description is used for reference and may change from time to time.

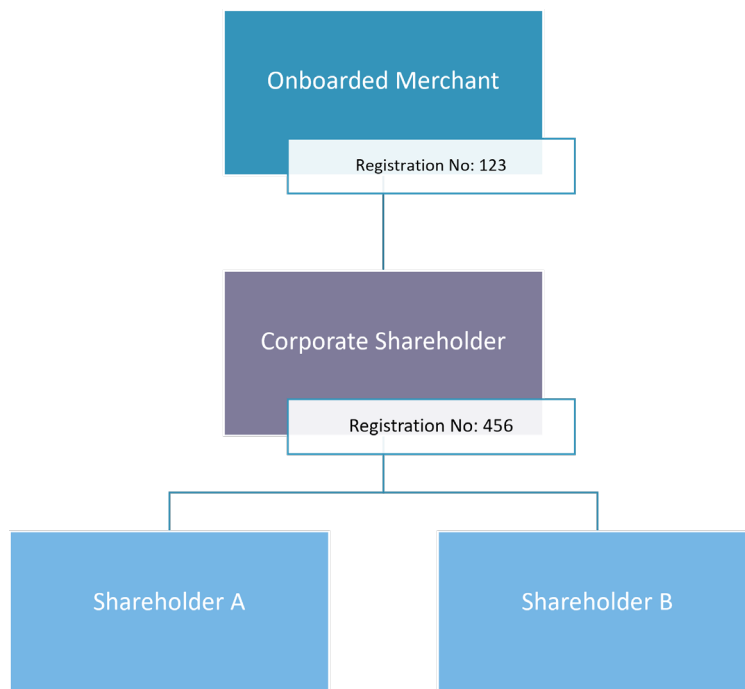
Result Code	Description
000	Request is successful
012	At least one of the following input parameters is malformed
014	At least one of the following input parameters is missing
016	Authentication failed due to invalid authentication credentials
020	Operation not allowed
001	Failure due to a technical reason
007	Credorax request timeout

Appendix D: Related Corporate and Merchant Individual Scenarios

The following figures illustrates scenarios in which both a `related_corporate` object and a `merchant_individual` object are sent.

Scenario 1

In this scenario, the onboarded merchant has a corporate shareholder, which has two natural persons shareholders.



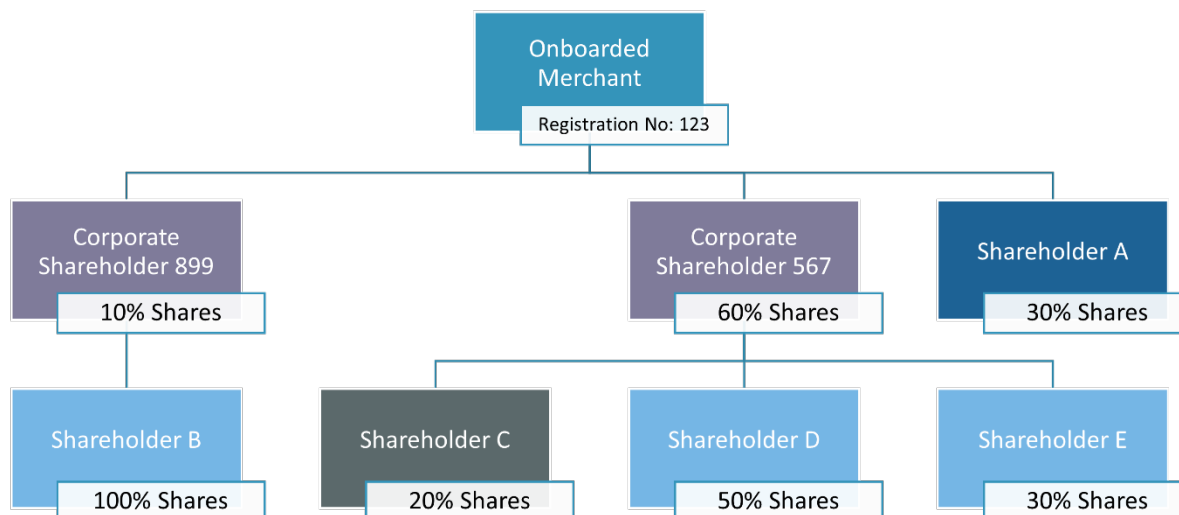
To depict this business structure through the API, send the following:

A <code>related_corporate</code> object for company 123	<ul style="list-style-type: none"> • <code>company_registration_number</code>: 123 • <code>related_corporate</code>: null
A <code>related_corporate</code> object for company 456	<ul style="list-style-type: none"> • <code>company_registration_number</code> : 456 • <code>related_corporate</code>: 123
A <code>merchant_individual</code> object for shareholder A	<ul style="list-style-type: none"> • <code>related_corporate</code>: 456
A <code>merchant_individual</code> object for shareholder B	<ul style="list-style-type: none"> • <code>related_corporate</code>:456

Scenario 2

In this scenario, the onboarded merchant has two corporate shareholders, and one natural person shareholder.

- Shareholder 1 is a natural person identified as beneficial owner, as he has more than 25% of the share.
- Corporate shareholder 899 has only 10% of the shares but needs to be recognized as an owner as it is a legal entity.
- Corporate shareholder 567 has 3 Shareholders:
 - Two (D+E) that are natural persons that are identified as beneficial owners.
 - One (C) who is a natural person that is not a beneficial owner as he has less than 25% of the shares.



To depict this business structure through the API, send the following:

A related_corporate object for company 123	<ul style="list-style-type: none"> • company_registration_number: 123 • related_corporate: null
A related_corporate object for company 899	<ul style="list-style-type: none"> • company_registration_number : 899 • related_corporate: 123
A related_corporate object for company 567	<ul style="list-style-type: none"> • company_registration_number : 456 • related_corporate: 123
A merchant_individual object for shareholder A	related_corporate: 123
A merchant_individual object for shareholder B	related_corporate: 899
A merchant_individual object for shareholder D	related_corporate: 567
A merchant_individual object for shareholder E	related_corporate: 567
<i>No need to send an object for shareholder C, as he has less than 25% percent of the shares.</i>	

Appendix E: Operation codes

This appendix lists all the possible operation codes values that can be specified in the "allowed_operations" field of the product_configuration object.

Operation code
[12] - Use Token - Auth
[13] - Use Token - Capture
[14] - Token Auth Void
[15] - Token Referral Credit
[16] - Block Token
[2] - Authorization
[23] - Create Token with Sale
[24] - Use Token – Recurring Sale
[28] - Create Token - Auth
[29] - Create Token – Capt
[3] – Capture
[301] - Fraud transaction update
[32] - Use Token - Recurring Auth
[33] - Use Token – Recurring Capt
[34] Referral CFT
[35] - Independent CFT
[37] - Create Token independent CFT
[38] - Use token independent CFT
[4] - Authorization Void
[46] - Use Token - Independent Credit
[5] - Referral Credit
[55] - ATC update
[6] - Independent Credit
[7] - Sale Void
[8] - Refund Void
[88] - 3DS only create token
[89] - 3DS only use token

Operation code
[9] - Capture Void
[92] - 3D Secure completion
[96] - versioning
[97] - Use token versioning
[98] - 3D Secure authentication Only

Appendix F: Onboarding Documents

This chapter lists the details for adding onboarding documents as part of the **upload document API request**.

Possible Values for the file_type Parameter

Category	Document Name	Code
Proof of ID	ID	1
Proof of ID	Passport	2
Proof of ID	Shareholder passport	36
Proof of Residency	Utility bill	3
Proof of Residency	Proof of address	13
Proof of Residency	Lease Agreement for Individual	46
Financial Documents	Bank statement	4
Financial Information	Processing history	7
Financial Information	Processing history (including chargebacks)	31
Financial Information	Financial Statements	99
Business Information	Certificate of registration	5
Business Information	Certificate of incorporation	12
Business Information	Register of shareholders	6
Business Information	Register of directors	14
Business Information	License to carry out the business	20
Business Information	License passporting	11
Business Information	Local gaming license	21
Business Information	Partnership agreement	24
Business Information	Parent company agreement	23
Business Information	Deed of trust	10
Business Information	Merchant declaration - Settlement to partner	35
Business Information	Board resolution confirming the settlement account	40
Business Information	Company Guarantee	26
Business Information	Power of attorney	29
Business Information	Source of Wealth	44

Category	Document Name	Code
Compliance Documents	PCI SAQ	9
Compliance Documents	PCI AOC	16
Compliance Documents	Partnership PCI SAQ	27
Compliance Documents	Sole Trader PCI SAQ	28
Compliance Documents	Industry related questionnaire	18
Compliance Documents	Credorax Staged Digital Wallet Questionnaire	19
Compliance Documents	Declaration for merchants offering free trials/samples	33
Compliance Documents	Adult Compliance Assessment	43
Compliance Documents	Compliance assessment questionnaire for website's content	38
Compliance Documents	Enhanced due diligence	15
Compliance Documents	Enhanced due diligence – corporate shareholder	32
Compliance Documents	Certificate of good standing	30
Compliance Documents	Company AML policy	39
Compliance Documents	Visitor Report Form	45
Financial Information	Split by MCC	37
Business Information	Business plan	25
Financial Information	Schematic transaction flow diagram	34

Required Documents

The list below consists of the preliminary list of KYC documents required from the merchant. Additional documents may be needed upon Shift4's review of the merchants.

Authorized Signatory

- Valid Proof of Identity - file code 1 or 2
- Proof of Residential Address (not older than 6 months) - file code 13
- Power of Attorney / Authorization to sign - file code 29

Majority Shareholder / UBO

- Valid Proof of Identity - file code 1 or 2
- Proof of Residential Address (not older than 6 months) - file code 13

Business Activity Documents

- Recent financials - file code 99
- PCI Documents - file code 9
- Business license (if relevant) - file code 20
- Processing history (last 6 months) - file code 7

Settlement

- Bank Statement in the name of the merchant - file code 4

Appendix G: Primary Sector Codes List

Numeric Code	Sector Name
001	Amusement Park or Circus
002	Bowling Alley
003	Café
004	Cleaner
005	Clothing Alterations & Repair
006	Cloud-based software (not games)
007	Computer Repair
008	Courier Services
009	Cruise Line
010	Cyberlockers
011	Dating Services
012	Dentist
013	Digital Goods (general)
014	Doctor (Chiropodist/Podiatrist)
015	Doctor (Cosmetic Surgeon)
016	Doctor (General Practitioner)
017	Doctor (Other)
018	Doctors (Chiropractor)
019	Domain-Registration
020	Dry Cleaners
021	Electrician
022	Electronic Vehicle Charging
023	Electronics Repair (No Sales) - Not Small Appliances
024	Electronics Repair (No Sales) - Small Appliances
025	Estate Agent/Letting Agent
026	Fortune Tellers or Psychics
027	Garage (Body Repair)
028	Garage (Car Repairs/Serviceing)
029	Gardener

Numeric Code	Sector Name
030	Golf Club (Private Members)
031	Golf Course (Public)
032	Health and Fitness Clubs
033	Hotel
034	Insurance Sales/Broker (face-to-face)
035	Insurance Sales/Broker (non face-to-face)
036	Insurance Underwriting
037	Laundry Services
038	Limousine Hire
039	Money Transfer
040	Nightclub
041	Nursing Services
042	Online or Streaming Games
043	Online or Streaming Media
044	Optician
045	Other
046	Painter/Decorator/General Contractor
047	Petrol Station
048	Plumber
049	Professional Sports Club
050	Pub
051	Public Transport - Bus
052	Public Transport - Ferry
053	Public Transport - Railway
054	Restaurant (Sit-down)
055	Restaurant (Takeaway)
056	Retail - Books
057	Retail - Building Materials
058	Retail - Department Store
059	Retail - Florist

Numeric Code	Sector Name
060	Retail - Garden Supplies
061	Retail - Hardware
062	Retail - Jewelry
063	Retail - Newsagent
064	Retail - Paint/Wallpaper
065	Retail - Pharmacy
066	Retail - Alcohol/Off-License
067	Retail - Antique Shops
068	Retail - Bakery
069	Retail - Bridal Wear
070	Retail - Butcher/Sales of Meat Products
071	Retail - Charity Shop
072	Retail - Children and Infant's Clothing & Accessories
073	Retail - Clock and Watch Sales and Repair
074	Retail - Clothing (Men's and Women's but not Children)
075	Retail - Clothing (Men's and Women's including Children)
076	Retail - Computer Peripherals and Software
077	Retail - Computer Software and Games
078	Retail - Dairy Products
079	Retail - Delicatessens
080	Retail - Discount Stores
081	Retail - Electronics Sales & Repair
082	Retail - Fishmonger
083	Retail - Fruit & Vegetables
084	Retail - Furniture
085	Retail - Game, Toy and Hobby Shops
086	Retail - General Store/Supermarket
087	Retail - Health Food/Vitamins and Supplements
088	Retail - Ice Cream/Yoghurt Sales
089	Retail - Lingerie

Numeric Code	Sector Name
090	Retail - Men's and Boy's Clothing & Accessories
091	Retail - Music/DVD store
092	Retail - Office Supplies and Stationery
093	Retail - Other
094	Retail - Other Clothing
095	Retail - Pushchairs, strollers, prams, etc
096	Retail - Riding Apparel (Horses or Motorcycle)
097	Retail - Secondhand Goods (General)
098	Retail - Shoes
099	Retail - Sportswear
100	Retail - Sweets/Snacks/Dried Fruit
101	Retail - Swimwear
102	Retail - Tailors
103	Retail - Tea and Coffee
104	Retail - T-shirts
105	Retail - Wigs, Toupees & Hair Extensions
106	Retail - Women's Accessories
107	Retail - Women's and Girl's Clothing
108	Subscriptions - Magazines etc
109	Subscriptions - Media/Video etc
110	Subscriptions - Other
111	Taxi
112	Travel Agent/Tour Operator
113	Tyre repair
114	Tyre sales
115	Utilities Payments
116	Vehicle respray/paint
117	Vehicle Sales (New and Used)
118	Vehicle Sales (Used only)
119	Veterinarian

Numeric Code	Sector Name
120	Web-hosting
121	Window Cleaner
122	Retail - Bicycle Shop
123	Health and Beauty Spas
124	Retail - Vehicle Parts
125	Retail - Vehicle Accessories & Equipment
126	Retail - Art Dealers and Galleries
127	Retail - Art and Craft Supplies
128	Retail - Fabric and Sewing
129	Caterers
130	Campsites
131	Shoe Repair and Cleaning
132	Hairdresser/Barber

Appendix H – Implementation Guidelines

This chapter lists best practices and guidelines for smooth onboarding and underwriting processes. It outlines what to pay attention to when sending values through the API, and answers some of the most common questions and faults partners come across. Following these guidelines will help make your merchant onboarding process frictionless as possible.

Data Alignment

Ensuring alignment between the information transmitted via the API and the accompanying proofing documents is crucial, as it mitigates underwriting complications and expedites the onboarding process significantly. When submitting the Bank account details, merchant individuals' details and business registration information, make sure that the details sent through the API match the supporting documents.

E.g.: The full name of the UBO should be transmitted exactly how it appears in the proof of ID.

Bank Account Guidelines

When sending the bank account for different types of merchants, follow the below guidelines:

Corporate	<ul style="list-style-type: none"> • Must be a business account. • The beneficiary's name must match the registered name of the merchant.
Sole Traders	<ul style="list-style-type: none"> • The bank account can be either business or private account. • The name of the entity registered with us must match the one in the bank account. <p><i>E.g.: If the merchant individual name is the one that appears on the bank statement, this name should appear in the beneficiary details.</i></p>

Merchant Individuals

When sending the merchant individuals for different types of merchants, follow the below guidelines:

Corporate	Fill in the details for all the individuals who are the owners and directors of that this business, to accurately depict the business structure.
Sole Traders	Only one individual is applicable. Refer to the Glossary for more information.
Partnership	<ul style="list-style-type: none"> • At least two individuals from type "partner" need to be sent when the business type is partnership. • Partnership individuals can be only 'authorized signature' or 'partner'.

Related Corporate

It is important to send the `related_corporate` object to accurately depict the merchant's business structure. Shift4's underwriting process is based on the information sent through the API and includes examination of the merchant's business structure. Thus, not sending this object with all the necessary information will cause complications in the underwriting process and will prolong the onboarding process. For more information and examples on this object, refer to [Appendix D – Related Corporate and Merchant Individuals Scenarios](#).

Merchant Unique Values

As part of the underwriting process, we ask for Maximum transaction value (`max_trx_value`) and for the expected monthly turnover (`expected_monthly_turnover`). These numbers should be accurate and reflect the merchant's business genuinely. We recommend to not pre-populate these fields with generic number for all the merchants you onboard, as inaccurate numbers impact our assessment and can cause frictions in the Underwriting and Risk checks.

Change History

Version	Subject/Date	Description
1.5	June 2024	<ul style="list-style-type: none"> • New chapter: API workflows • New notification: When the merchant status changes to processing. See in Get Status and in the API Workflows chapter. • Addition of new business type option: Partnership. Added in: <ul style="list-style-type: none"> ◦ Glossary ◦ business_type ◦ individual_type • All the parameters tables were reorganized by their order in the API call (TBD) • The minimum value in string fields were changed from 0 [0-X] to 1 [1-X] • Addition of fields on 'Create Merchant' flow: <ul style="list-style-type: none"> ◦ On root level: <ul style="list-style-type: none"> • number_of_employees • annual_turnover • balance_sheet_total • maximum_transaction_value • vat_number • support_subscription • free_membership_trials • automatic_billing_after_trial • automatic_recurring_payments • charging_frequency • Addition of new document types to Onboarding Documents (Appendix F): <ul style="list-style-type: none"> ◦ Source of Wealth ◦ Visitor Report Form ◦ Lease Agreement for individual • Requirement Change: beneficiary_address_line_2 field requirement changed to optional • Type change: house_number field changed to string, including letters.

Version	Subject/Date	Description
1.4	February 2024	<ul style="list-style-type: none"> • Addition of SMB Audience and designated fields (tagged SMB) • New object: top_4_countries, on root level of 'create merchant' flow • Addition of Glossary of common terms • Addition of Appendix H – Implementation Guidelines • New fields on 'Create Merchant' flow: <ul style="list-style-type: none"> ○ On the root level: <ul style="list-style-type: none"> • avg_delivery_days • average_transaction_value • primary_payment_channel • purchase_charge_timing • primary_sector <ul style="list-style-type: none"> • New appendix (G) listing the sector and codes. ○ On merchant individual: <ul style="list-style-type: none"> • email_address • Updated the Onboarding documents list. • The code example of 'create merchant' is updated with the new objects and fields. • Change of requirement: Fee list object becomes optional.
1.3 rev 3	November 2023	Rebrand to Shift4
1.3 rev 2	August 2023	Minor changes to merchant_terms_identifier description
1.3 rev 1	August 2023	Added a missing parameter to the merchant_bank_accont object: merchant_terms_identifier
1.3	July 2023	<p>Added pricing management functionality</p> <ul style="list-style-type: none"> • merchant_bank_account object: Change of parameter name from acquiring_pricing_id to partner_terms_identifier • merchant_requirement object: Change of parameter name from acquiring_pricing_id to partner_terms_identifier • New mandatory pricing object
1.2	April 2023	Submit merchant function
1.1	March 2023	<ul style="list-style-type: none"> • Get connectivity API • Appendix F: onboarding documents list • URL field type • Apartment number field type
1.0	January 2023	First Release

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