

PF ABS Web Service Specifications

VALITOR

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PF ABS Web Service Specifications Version History

Date	Author(s)	Version	Description
2013-10-09	Borgar Erlendsson Gunnar Gils Kristinsson Hlynur Jóhannsson	4.0.0	Initial draft
2013-12-06	Gunnar Gils Kristinsson	4.2.0	VolumelInformation changed from being in quarters to annual
2014-07-04	Arnór Barkarson	4.6	PhysicalTerminalInformation object. Terminal ID added.
2014-07-04	Arnór Barkarson	4.6	RegisterPhysicalTerminalInformation service. Change in parameters, TerminalID removed. TerminalID is now part of PhysicalTerminalInformation object.
2015-03-06	Lína Viðarsdóttir	15.2.0	Review and improvements
2015-09-10	Lína Viðarsdóttir	15.11.0	CorporateInformation, Merchant and MerchantCorporateInformation objects reviewed and order of fields fixed.
2015-10-21	Lína Viðarsdóttir	15.11.0	Visa Electron, Maestro and Union pay options removed from the Brand Code table.
2016-08-29	Andrija Sinkovic	16.9.0	Table listing the statuses added. Update function and GetMerchantById function added.
2016-10*-13	Andrija Sinkovic	16.10.0	Website URLs added to CorporateInformation.

Date	Author(s)	Version	Description
2016-12-06	Lína Viðarsdóttir	16.12.0	Government owned entity added to the CompanyLegalForm enumeration. RegisteredOnStockExchange added to CorporateInformation
2017-03-07	Stefan Popov	17.4	Phone country added to phone number CompanyDirector, CorporateInformation, Person
2018-09-19	Lína Viðarsdóttir	18.9	Some fields were incorrectly marked as optional or conditional. CompanyDirector email, CorporateInformation email, CorporateInformation phone.
2021-06-03	Ingvi Steinn Ólafsson	21.6	Updated max length of Phone field from 15 to 20. CompanyDirector, CorporateInformation, Person

ABS Web Service Specifications

This section document describes web services interface provided by Valitor for service providers that will implement Valitor automated boarding system.

Code Tables

Data Types

The following abbreviations are used to describe fields in the messages.

Type	Description
A	Alphabetic characters (A-Z)
ANS	Alphanumeric characters / Special characters (see code S below)
NS	Numeric characters (0-9) / Special characters (see code S below)
AN	Alphanumeric characters
S	UTF-8 compliant string. Control characters and special characters that may compromise data integrity will be filtered out or rejected.
DT	Datetime (yyyy-mm-ddThh:mm:ss)
OB	Nested objects
B	Boolean
I	Integer
D	Decimal
ENU	Enum
LST	List of entities
D	Double
BA	Byte array

Usage Codes

Usage Code	Description
M	Mandatory
O	Optional
C	Conditional

Brands

Brand	Description
M	MasterCard
V	VISA
A	American Express

Error Codes

Category	Error Code	Description
Authentication	101	General authentication error
Authorization	102	General authorization error
Validation	201	General validation error
Business rule	301	Entity not found
	302	User already exists
	310	Invalid business data

Category	Error Code	Description
Unspecified	999	Unspecified

ChargebackType Enumeration

Field
None
Estimate
Historical

CompanyLegalForm Enumeration

Field
SoleTrader
Partnership
PrivateLimitedCompany
PublicLimitedCompany
LimitedLiabilityPartnership
Charity
Government Owned Entity
Other

Statutes - only set by Valitor

Code	Description
10	Pending (waiting for external validation – update functions can be performed)
20	Declined (can be updated)
30	Approved (can be updated)
40	Refer (has passed external validation, waiting for manual approval, can be updated)
50	Withdrawn (can be updated)

Objects

Address

Field	Type	Min	Max	Usage	Description
Street	ANS	1	50	C	Street address, including name/number of building
PostalCode	ANS	1	10	C	Zip or postal code of the address
City	ANS	1	30	C	City name
CountryCode	A	3	3	C	Code for the country of the associate, using the ISO 3166-1 alphabet standard (e.g. "GBR" for United Kingdom)

ChargebackInformation

Field	Type	Min	Max	Usage	Description
ChargebackType	ENU	1	1	O	ChargebackType. None if chargeback percentage is not provided. ChargebackType.Estimated if the chargeback is estimated ChargebackType.Historical if the chargeback is historical. (See ChargebackTypeEnum)

Field	Type	Min	Max	Usage	Description
)
ChargebackPercentage	I	-	-	O	Chargeback percentage
HowWillYouPreventOrFightChargeback	ANS	1	150	O	Description of how you will prevent or protect yourself against chargeback

CompanyDirector (extends Person)

Field	Type	Min	Max	Usage	Description
DateOfBirth	DT	-	-	M	Director's date of birth
Address	OB	1	-	M	Overrides Address in Person. Street, PostalCode, City and CountryCode fields are mandatory for beneficial owners
Phone	NS	1	20	M	Director's telephone number. Overrides usage in Person. Phone number is in format + [country code]/[phone number]. Where forward slash (/) represents separator of country code and telephone number. Country code consists only from digits, while telephone number may contain blank space and slash (-) besides digits
Email	DT	1	60	M	Director's email address.

Field	Type	Min	Max	Usage	Description
					Overrides usage in person

ContactInformation (extends Person)

Field	Type	Min	Max	Usage	Description
Position	ANS	1	15	O	Contact's position
Fax	ANS	1	250	O	Contact's fax number

CorporateInformation

Field	Type	Min	Max	Usage	Description
CompanyLegalName	ANS	1	50	M	The company legal name
CompanyLegalForm	ENU	1	1	M	The company legal form of the associate or merchant. See CompanyLegalForm enumeration
CompanyRegistrationNumber	ANS	1	15	C	Company registration number. Mandatory if the company legal form of the associate or merchant is PrivateLimitedCompany, PublicLimitedCompany, LimitedLiabilityPartnership or Other.
Email	ANS	1	50	M	Email address of the associate or merchant

Field	Type	Min	Max	Usage	Description
Fax	NS	1	15	O	Fax number of the associate or merchant. Fax number can only contain digits, spaces, minus signs (-) and the plus sign (+). If plus sign is present it must be at the front.
Phone	NS	1	20	M	Telephone number, in the format +[country code]/[phone number], where the forward slash (/) represents the separator of country code and telephone number. The country code must contain only digits, while the telephone number may contain blank space and hyphen(-) as well as digits.
RegisteredOnStockExchange	B	1	1	C	Applicable only if CompanyLegalForm is public Limited company. Default is false.
VatNumber	ANS	1	20	C	If the legal form of the associate or merchant is SoleTrader, Partnership or Charity, the VAT number may be registered.
Website URL	ANS	1	50	O	HTTP address of the

Field	Type	Min	Max	Usage	Description
					associate's or merchant's website
WebsiteURLs	LST	0	-	O	Additional HTTP addresses of the associate's or merchant's website

Merchant

Field	Type	Min	Max	Usage	Description
ID	I	1	-	C	The ID of the merchant. This is only set for merchants that have been registered in the system.
Field		Type	Min	Max	Usage Description
State	S	-	-	C	The merchant application state. If the value is set when registering or updating the merchant application, the value is ignored. This is only set when retrieving an application from the web services. See Statuses .
AssociateID	I	-	-	M	Unique ID of the associate
ChargebackInformation	OB	-	-	M	See ChargebackInformation object
Comment	S	-	1000	O	Comment for this merchant
CompanyDirector	OB	-	-	M	See CompanyDirector

Field	Type	Min	Max	Usage	Description
					object
CompanyRegisteredAddress	OB	-	-	M	See Address object. All fields in the Address object are mandatory.
CorporateInformation	OB	-	-	M	See MerchantCorporateInformation object.
PrimaryContactInformation	OB	-	-	O	See ContactInformation object.
TerminalIDs	LST	0	-	O	Unique IDs of the terminals being registered to the merchant. To enable activation of a merchant, at least one terminalID must be registered
TradingAddresses	LST	0	-	O	List of Address objects. See Address object. If a trading address is registered all fields in the Address object are mandatory.

MerchantCorporateInformation (extends CorporateInformation)

Field	Type	Min	Max	Usage	Description
DateOfIncorporation	DT	-	-	M	Date when the merchant was established
DescriptionOfProductsOrService	S	1	1000	M	Description of

Field	Type	Min	Max	Usage	Description
es					products or services. Mandatory when registering/updating a merchant that is not connected to any dynamic descriptor terminals.
NumberOfEmployees	I	-	-	O	Number of employees
YearsInThisBusiness	I	-	-	O	Number of years the merchant has been in this business.

Person

Title ANS 1 15 O Person's title.

Field	Type	Min	Max	Usage	Description
Title	ANS	1	15	O	Person's title
FirstName	ANS	1	50	M	First name of the person
MiddleName	ANS	1	50	O	Middle name of the person
LastName	ANS	1	50	M	Last name of the person
Address	OB	-	-	M	See Address object
Phone	NS	1	20	M	Telephone

Field	Type	Min	Max	Usage	Description
					number, in the format + [country code]/[phone number], where the forward slash (/) represents the separator of country code and telephone number. The country code must contain only digits, while the telephone number may contain blank space and hyphen(-) as well as digits.
Email	ANS	1	60	M	Person's email address
DateOfBirth	DT	-	-	M	Person's date and year of birth
NumberOfYearsWithinTheCompany	I	-	-	O	Number of years this person has been related to the company

Field	Type	Min	Max	Usage	Description
Fax	S	-	15	O	Fax number for this person. Fax number can only contain digits, spaces, minus signs (-) and the plus sign (+). If plus sign is present it must be at the front.
IdentificationAttachmentID	I	-	-	C	If an identification attachment exists for the company owner, the ID of the identification attachment resides here
Position	S	-	50	O	The position of the person within a company

WEB SERVICES

This section describes all the web services that are available in the PF ABS API.

Error Handling

All the web services return a soap fault, both in the case of an unexpected error and a known error. The soap fault contains a faultstring tag containing a generic message that specifies what kind of an error was thrown, e.g. "Authorization Error", "Validation Error" or "Business rule error". The detail tag of the soap fault will however contain both an error code and a more detailed message, e.g. "303" – "Pan not found"

For a list of all error codes and messages see **Error codes**.

SOAP Fault Example

```
<s:Envelope
xmlns:s="http://schemas.xmlsoap.org/soap/envelope/">
  <s:Body>
    <s:Fault>
      <faultcode>s:Client</faultcode>
      <faultstringxml:lang="is-IS">Business Rule Error</faultstring>
      <detail>
        <FaultDetails
xmlns="http://schemas.datacontract.org/2004/07/Valitor.ABS.Service.WCF.ServiceProviders.ErrorHandling"xmlns:i="http://www.w3.org/2001/XMLSchema-instance">
          <ErrorCode>303</ErrorCode>
          <ErrorMessage>Pan not found</ErrorMessage>
        </FaultDetails>
```

```

    </detail>
  </s:Fault>
</s:Body>
</s:Envelope>

```

MerchantWS

This service includes methods for service providers to access merchant related services in the Valitor automated boarding system.

Register

This service is used to register a new merchant.

Method Name	Register									
Return Type	RegisterMerchantResponse	(see RegisterMerchantResponse object)								
		Parameters								
Field	Type									
Merchant	OB	<table border="1"> <thead> <tr> <th>Min</th> <th>Max</th> <th>Usage</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>-</td> <td>-</td> <td>Information about the merchant itself. See Merchant object</td> </tr> </tbody> </table>	Min	Max	Usage	Description	-	-	-	Information about the merchant itself. See Merchant object
Min	Max	Usage	Description							
-	-	-	Information about the merchant itself. See Merchant object							

Update

This service is used to update the given merchant.

Method Name	Update									
Return Type	UpdateMerchantResponse	(see UpdateMerchantResponse object)								
		Parameters								
Field	Type									
Merchant	OB	<table border="1"> <thead> <tr> <th>Min</th> <th>Max</th> <th>Usage</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>-</td> <td>-</td> <td>Information about the merchant itself. See</td> </tr> </tbody> </table>	Min	Max	Usage	Description	-	-	-	Information about the merchant itself. See
Min	Max	Usage	Description							
-	-	-	Information about the merchant itself. See							

Method Name	Update	
Return Type	UpdateMerchantResponse	(see UpdateMerchantResponse object)
		Parameters
		Merchant object

GetMerchantByID

This service is used to retrieve a single merchant based on a given ID parameter.

Method Name	Update									
Return Type	UpdateMerchantResponse	(see UpdateMerchantResponse object)								
		Parameters								
Field	Type									
ID	I	<table border="0"> <tr> <td>Min</td> <td>Max</td> <td>Usage</td> <td>Description</td> </tr> <tr> <td>-</td> <td>-</td> <td>M</td> <td>Returns the merchant with the given ID. Value must be larger than zero or exception will be thrown.</td> </tr> </table>	Min	Max	Usage	Description	-	-	M	Returns the merchant with the given ID. Value must be larger than zero or exception will be thrown.
Min	Max	Usage	Description							
-	-	M	Returns the merchant with the given ID. Value must be larger than zero or exception will be thrown.							

Response Objects

This section contains the web service response objects for Merchants.

RegisterMerchantResponse

Field	Type	Description
MerchantID	I	Unique ID of the merchant.
ResponseDateTime	DT	Service provider local time.

UpdateMerchantResponse

Field	Type	Description
MerchantID	I	Unique ID of the merchant that was updated.
ResponseDateTime	DT	Service provider local time.

GetMerchantResponse

Field	Type	Description
Merchant	OB	The merchant being retrieved. See Merchant object.
ResponseDateTime	DT	Service provider local time.

Finding Out More

If you want to know more about how to use any of our products, go to the online help, on <https://support.valitor.com>.

Contacting Valitor

If you have general queries, contact **Customer Support**, on 0808 204 0349. For Republic of Ireland customers, it's +44 808 204 0349

To talk to **Technical Support**, call 0808 204 0347. If you are in the Republic of Ireland, call 01653 3901.

If you would like to speak to one of the **Sales** team, call 0808 204 0343.