

TECHNICAL REFERENCE

PAYONE Platform Channel Client API



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Preface

This document serves as a technical reference for the PAYONE Platform and is exclusively intended for the identified recipient. If you are not the intended recipient or the recipient's representative please notice that the content is protected by copyright and that any form of acknowledgement, publication, duplication or distribution of the contents of this document is illegal.

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History of changes

Changes		
Date	Version	Comments
2012-11-16	1.0	Transaktions-/Sessionstatus-Encoding (ISO-8859-1) documented.
2012-11-16	1.0	userid, accessid extended from 8 to 12 digits
2013-01-03	1.01	new document layout
2013-01-03	1.01	list of iDEAL banks updated
2013-02-27	1.02	Sessionstatus, errata "reverse_cancel" -> "cancel_reversal"
		New countries added to request bankaccountcheck
		Note to currency handling
		Note to IP V4 / IP V6
		New payment types BillSAFE
		New parameters for TransactionStatus "vsettlement"
2013-04-15	1.03	New banks added to EPS bankgrouptype
		New banks added to iDEAL bankgrouptype
		Response to addresscheck: firstname and lastname may be returned
		New errorcode 938
		Parameter "email" is mandatory for payment type BSV
		Table 5.4 added with possible combinations for BankAccountCheck.
2013-05-15	1.04	New errorcode 951
2013-09-11	1.05	Updated error text for error code 3200
2013-11-07	1.06	SEPA-specific extensions
		parameters "iban" / "bic" can be used – even without bankcode / bankaccount
		Please note that API-responses may be extended by new response key/values at any time to provide additional features
2013-11-14	1.07	note added for PMI configuration to enable additional response parameters
		Usage of IBAN / BIC: IBAN/BIC can be used together with bankcountry. If bankcountry is given it must match with IBAN.
		bankcountry is mandatory with bankcode, bankaccount
		PCS-merchants: mandate-identifications must be generated automatically
2013-11-19	1.08	New error code 2012
		Response "bankaccountcheck": parameter "bankcountry" was missing
2013-12-04	1.09	Requests "ManageMandate" and "getfile" are only available with Server API
		Request "authorization" has been copied twice into API-documentation. Duplicate request has been removed.
2013-12-10	1.10	Comments to successurl, changed:
		old: only if not provided in the PMI
		new: only if responsetype=REDIRECT or required by corresponding request
		additional response parameter added for direct debit requests
		Direct Debit Netherlands removed from chapter "1. General"
2014-03-05	1.11	Parameter "mandate_identification" was already included into hash calculation, but was missing in documentation, chapter 3.1.4



Changes		
Date	Version	Comments
		Request "managemandate" has been added to Client-API -> new chapter 3.3 (Administration)
		Request "managemandate" is now available with BBAN (Germany only) and with userid/customerid if BBAN is attached to user
		Response data have been extended by "mandate_dateofsignature"
		Mode "live" / "test" consistently written in lower case.
		BankAccountCheck will return either "INVALID" or "ERROR" in case of invalid data.
		Error messages added and text corrected
2014-03-19	1.12	new error codes 878, 905, 909, 1007, 1367, 1372, 1373
		Parameter "telephonenumber" shortened from 50 to 30 characters
2014-09-05	1.13	new error codes 940, 941, 952, 1337, 1338, 1374, 1375
		Parameter for Klarna (KLV) added
		Parameter "shipping_addressaddition" has been removed as it is not used for any payment type
		Parameter "state" (regions) extended to these countries: US, CA, CN, JP, MX, BR, AR, ID, TH, IN
		Parameter "ecommercemode" was missing for request "authorization"
		Parameter "ecommercemode" was already used in hash-calculation, but this was missing in the documentation
		Documentation for TxStatus has been corrected: "cancellation" -> "cancelation"
		IMPORTANT NOTE: Starting with 2014-12-29 the range of IP-addresses of the PAYONE Platform will be extended!
		• old: 213.178.72.196, 213.178.72.197, 217.70.200.0/24
		• new: 213.178.72.196, 213.178.72.197, 217.70.200.0/24, 185.60.20.0/24
		Please ensure that your systems will be able to accept outgoing and incoming connections to and from all these IP-addresses.
2015-01-12	1.14	New error code 1012 added
		Parameter for Klarna installment (KLS) have been added
		Transaction Status PAYONE -> merchant:
		 new parameter "transaction_status" has been introduced
		(if your systems are not prepared to process new parameters, please contact our PAYONE Technical Support)
		Parameter "api_version" added -> see standard parameter
		only available with api_version >= 3.9:
		New response "pending" added for "preauthorization" / "authorization"
		Request "createaccess" corrected:
		"invoice_deliverydate" removed
		"invoice_deliveryenddate" removed
		it[n], id[n], pr[n], no[n], de[n], va[n], sd[n], ed[n], invoiceid removed
		 id_trail[n], no_trail[n], pr_trail[n], de_trail[n], va_trail[n], ti_trail[n] added



Changes		
Date	Version	Comments
		 id_recurring[n], no_recurring[n], pr_recurring[n], de_recurring[n], va_recurring[n], ti_recurring[n] added
2015-02-25	1.15	Transaction Status PAYONE -> merchant:
		 description added for parameter "notify_version" (in use since January 2015)
		 txaction "failed": description corrected (mistake by copy&paste). -> this txaction is not in use yet.
		Parameter "api_version" added to hash calculation
2015-04-08	1.16	 PCS (PAYONE Collection Service) has been migrated to PPS (PAYONE Payment Service)
		Chapter 1, "please note" chapter supplemented by reference to costs
		 Hash parameter "api_version" was listed at the end of hashed parameters (to indicate new value). Now it has been put into alphabetical order.
2015-06-03	1.17	 Additional support of hash algorithm "sha2-384" (HMAC-SHA-2, 384)
		PMI-setting to enforce usage of "sha2-384"
		(Hash-value of SessionStatus and TransactionStatus still remains with MD5 by now and is subject to change).
		 Transaction Status PAYONE -> merchant, txaction "failed" is used with "Barzahlen" and expired refund.
		 Character set for parameter "id" (product number) has been clearly defined
		 The hash values (key -> chapter, key -> 4.1, 4.2) are currently given as MD5. This currently still remains with MD5 and is subject to change in future to SHA2-384.
2015-06-17	1.18	 Description of "PAYONE hosted-iFrame mode" in chapter 3.1.5. -> PCI DSS V 3.0 SAQ A compliant implementation.
2015-06-29	1.19	Chapter 3.1.5.3 calculation of hash corrected / explained.
2015-07-01	1.20	Chapter 3.1.5.6, additional tips added
		 Chapter 3.1.5, known issue added with old version of framework "prototype"
2015-07-23	1.21	Chapter 3.1.5, typo corrected
		old: new payone.ClientApi.Request()
		o new: new Payone.ClientApi.Request()
2015-08-06	1.22	Parameter "reference" for GPY must be min. 4, max. 20 characters



Changes		
Date	Version	Comments
2015-12-07	1.23	Online-Payment P24 added
		Old IP-addresses for Session-Status and Transaction-Status removed.
		 CreateAccess: Added that "access_expiretime" and "period_unit_trail", "period_length_trail" can not be used. "access_expiretime" should not be used any more.
		AddressCheck Person: added that firstname/lastname are mandatory
		 BankAccountCheck: old: Errorcode 888 (IBAN invalid) was returned with response "ERROR" new: Errorcode 888 (IBAN invalid) is returned with response "INVALID"
		 New error codes 972 and 973 have been added
		 Parameter "bankcode" and "clearing_bankcode" have changed from N8 to AN11
		 Parameter "bankaccount" and "clearing_bankaccount" have changed from AN14 to AN26
		 Added support IP V4/V6 for customers IP-address
		ManageMandate:
		 currently ManageMandate always reponds with "APPROVED" or "ERROR".
		 in future (Q3 2016) ManageMandate will respond with "ERROR" for erroneous requests and may respond with "INVALID" for requests with invalid data responses "APPROVED", "ERROR" and "INVALID" may be used.
2016-01-28	1.24	 itemtype (Parameter "it") now does support "voucher" for PPE (PayPal Express)
		 Additional test data for "consumerscore" and "address check person". Please refer to separate document "PAYONE_Platform_Testdata_EN.pdf"
2016-02-15	1.25	 New SSL-certificates for PAYONE -> https://www.payone.de/en/platform- integration/platform/important-technical-information/ssl-certificates/
2016-02-23	1.26	 Naming changed from "truncated cardpan" to "masked cardpan". Parameter name "truncated cardpan" does remain unchanged.
		In fact "masked cardpan" means display of first six and last four digits while "truncated cardpan" means showing only last four digits.
		 Actually the pseudo card pan is 13 to 16 digits long. In future the pseudo card pan will be 19 digits long. This is already specified by format "N19" and in future the full range of 19 digits will be used.
2016-03-18	1.27	 Check of correct encoding will be enforced. I.e.: If request-encoding is specified with "UTF-8" (Parameter "encoding") and non-matching characters are detected (e.g. "ß" instead of "U+00DF" or "Ö" instead of "U+00D6") the request will be rejected with errorcode=2013.
2016-05-09	1.28	iDEAL: Bunq-Bank added (Parameter "bankgrouptype")
		 Contract/createaccess: Limit (3 years) for trail and recurring period documentated.
		Chapter 3.1.3: Special remarks to usage of not-used parameters.



Changes		
Date	Version	Comments
2016-07-26	1.29	 Additional features for "PAYONE hosted iFrame mode" Config-block for element "cardcvc2" has been extended by array "length" to specify the exact required CVC-length per cardtype response data have been extended by selected "cardtype" and used "cardexpiredate" Attribute "placeholder" can now be set for input fields. Responses for "customermessage" and "errormessage" can now have a maximum length of 1024 characters (previous length was limited to 255 characters). This is required due to special payment methods. American Express Safekey (3-D Secure) is planned for 2016-10-01 China Union Pay / CUP (as credit card) is planned for 2016-10-01 IBAN / BIC / bankcode / bankaccount can be omitted for SOFORTBanking (OBT/PNT) on API-level as they are returned from SOFORT and saved by PAYONE (for later upcoming SEPA-credits in case of refund). only available with api_version >= 3.10: Response for "customermessage" can be more specific in case of error by containing detailed error messages from external payment gateways (e.g. Ratepay,)
2016-07-27	1.30	 Example in chapter "Changing display text for error messages" corrected ("=" instead of ":")
2016-07-28	1.31	 Additional response data "cardtype" and "cardexpiredate" for creditcardcheck have been added at the JSON-sample, but were missing in the creditcardcheck-responsedata.



Changes		
Date	Version	Comments
2016-11-10	1.32	 Parameter "id_trail" and "id_recurring" have been shortened from AN100 to AN32. This is necessary as these values will be used for later usage with parameter "id" in authorization-requests. And there the "id" is limited to AN32.
		 For request "addresscheck" and "consumerscore" new values "UKN" and "PUG", "PNZ", "PNP" have been added for "personstatus" in response data.
		 Codes for "personstatus" have been moved to chapter "Codes"
		 For request "consumerscore" key/value for "divergence" will not be returned in response data – required by german data protection law.
		 Format for request-parameter "bankcode" changed from "AN11" to "N8" (fixed 8) for direct debit requests as only DE is supported with bankcode/bankaccount (BBAN). For international direct debit IBAN is required.
		 Format for request-parameter "bankaccount" changed from "AN26" to "N10" for direct debit requests as only DE is supported with bankcode/bankaccount (BBAN). For international direct debit IBAN is required.
		 Request-parameters "bankbranchcode" and "bankcheckdigit" removed. They were only valid for SEPA-countries and they have moved to IBAN.
		Mistake in documentation in chapter "Responses -> TransactionStatus":
		 "clearing_amount" was described as N7,2 in largest unit (e.g. Euro)
		 but is returned as N10 in smallest unit (e.g. Cent).
		 Sample Code for AJAX mode (chapter 3.1.6) had a mistake:
		 wrong: callback_function_name
		o correct: callbackFunctionName
2016-12-02	1.33	 New error codes for Blacklist (731 to 734)
		 Clarification for usage of Client-API (see 3.1.6, "important note")



Changes		
Date	Version	Comments
2017-02-15	1.34	 Added comments to URLs (successurl, backurl, errorurl) in section "special remark", to email-encoding and whitespaces in values.
		New risk check available from Arvato Infoscore:
		o consumerscoretype IF: Informa-Consumer-Score
		 New risk checks available from Boniversum¹:
		 addresschecktype BB -> postal address check
		 addresschecktype PB -> person address check
		 consumerscoretype CE -> postal address check, person address check, check for special addresses, VERITA Score Premium Ident S; this check will return new "score=U" (for unknown)
		 new response-parameter "addressstatus" added

Edition: 2016-12-15 Technical Reference PAYONE Platform Client API Version 1.34

¹ Available soon



1 General

This technical reference includes detailed descriptions and examples for the communication with the PAYONE Platform.

PAYONE Platform supports the following methods of payment:

Direct debit: Germany, Austria

(ELV: electronic direct debit system)

Credit card: Visa, MasterCard, American Express, JCB, Diners Club, Discover,...

Debit card: Maestro International, Maestro UK, Carte Bleue

Online transfer: Sofortbanking, giropay, eps (electronic payment standards), PostFinance E-Finance,

PostFinance Card, iDEAL, Przelewy24

Transfer: Prepayment (worldwide), open invoice (worldwide), cash on delivery (worldwide)

e-wallets: PayPal

Edition: 2016-12-15

Financing: BillSAFE Invoice (deprecated), Klarna Invoice

PAYONE Platform includes the following optional modules:

Accounting: Detection of incoming payments and overdue accounts that result from return debit notes,

chargebacks and invoices which have not been settled by the specified date.

Contract: Administration of subscriptions and recurring payments

Invoicing: Generating invoices and credit memos

Collect: Automatic recovery of overdue accounts via dunning processes and encashment

Protect: Check of accuracy and evaluation of the submitted customer data

Reporting: Specific export options for all transaction details

Billing: Aggregated billing of individual purchases and subscriptions

The administration of subscriptions (Contract), the creation of invoices (Invoicing) and the dunning processes (Collect) are, depending on the settings, automatically carried out in the background. You can, however, use API to control these procedures.



The communication is based on HTTPS-POST requests (key/value pairs) between the merchant's systems and PAYONE Platform.

The PAYONE Platform and its connected systems are designed for IP addresses Version 4.

This technical reference may include functions that are not activated for your merchant account due to contractual terms. If you have any questions or problems please do not hesitate to contact our service team.

Please note:

Mode "test" / "live":

Basically all API-requests can be used in mode "test" and "live" in the same way. But please note that the processes may differ slightly different in mode "test" and "live". So in mode "test" a lot of downstreamed processes are simulated by the PAYONE Platform and are not forwarded to other service providers.

Please also note that you should not use any live data in mode "test". The PAYONE Platform offers a set of test data to simulate several test cases in payment processing. Please request the document "PAYONE Platform Test procedures and test data".

Attention: Requests in mode "live" are always processed and forwarded to service providers – even if test data are used. By this additional cost may come up (e.g. by post delivery of documents or by chargebacks).

Costs:

Please note that depending on the transaction type used costs may occur in addition to transaction fees. See our List of Prices and Services for details.



1.1 Accounts

Edition: 2016-12-15

The PAYONE Platform includes merchant accounts and what is known as sub accounts. For the settlement of your goods you need at least one sub account to which your payments will be allocated.

Each merchant account can include any number of sub accounts. This combination of merchant and sub accounts offers a multitude of flexible options to the merchant.

The merchant can, for example, allocate marketing campaigns to different sub accounts in order to receive exact statistics concerning all transactions, accesses, revenues, subscriptions and purchases generated through the corresponding marketing campaign. The merchant can thus easily measure and analyse the success of his marketing campaigns with just one merchant account.

This combination of merchant and sub accounts can also be used for multilevel marketing platforms (partner programs) or resellers.



1.2 Payment portals

In order to carry out payment processes via the PAYONE Platform, you must first create a payment portal. All settings regarding payment processes and debtor management are anchored in the payment portals. All payment processes are conducted via the different payment portals.

The PAYONE Platform has two different versions of payment portals: "Access" and "Shop".

The fundamental difference between the two payment portal versions is the following: In the "Access" version you need to set up orders/contract templates and the PAYONE Platform can handle the access management for you. You can define how long or how often your customers have access to your products and services after a successful payment process. In the same manner, subscriptions are supported by the PAYONE Platform payment portals of the version "Access".

"Access" payment portals are thus specifically useful for accounting digital products or services which will grant your customer access for a specific period of time determined by you or if the PAYONE Platform is to manage a subscription.

In payment portals of the version "Shop" a one-time settlement occurs. In this case it is not necessary to set up offers because the products and services that are to be settled are dynamically submitted to the PAYONE Platform. It is therefore possible to settle actual as well as digital products and services.

Versions:

"Access" version: Time-based settlement

(settlement of digital products and services for a specific period of time, such as

memberships or subscriptions)

"Shop" version: Product /event-based settlement

(one-time settlement of actual or digital products and services)



1.3 Debtor accounts

With each initialisation of a payment process the PAYONE Platform sets up a debtor account and opens up a payment process in this account.

Each payment process includes a unique PAYONE payment process ID (txid). An individual balance is kept for each payment process. A payment process usually includes an invoice and, where applicable, several credit memos. All payments or return debit notes are automatically allocated to the corresponding payment process. Once a payment request is settled, the balance is reduced by the corresponding amount. In the case of return debit notes or chargebacks the balance is increased by the amount of the return debit notes.

During each booking the master data/payment data for the customer is saved. Each customer (debtor) is assigned a PAYONE debtor ID (userid) by the PAYONE Platform. If you enter the PAYONE debtor ID assigned by the PAYONE Platform (userid) for follow-up bookings for the same debtor, the booking will automatically be assigned to the same debtor.

The second option is to use your own customer ID (customerid). If you use the same customer ID (customerid) for two different bookings, the bookings will also be allocated to the same internal debtor by the PAYONE Platform.

Advantage:

All payment processes by the same debtor are managed automatically internally. Among other things, this makes it possible to synchronise the booking, dunning and encashment processes by combining several open requests for one debtor within one process. In addition, the payment processes or the master data/ payment data for one debtor can easily be administered.

By storing customer data in the PAYONE Platform it is moreover possible to initiate follow-up bookings for a customer without needing to submit the customer data. It is therefore not necessary for the merchant to store e.g. credit card information.

Attention:

When follow-up bookings for the same customer (debtor) (same userid or customerid) are carried out, the debtor's master data is updated / overwritten with the current values.



1.4 Invoicing

Edition: 2016-12-15

The PAYONE Platform can automatically generate invoices and credit memos for you and send these, e.g. as PDF documents, to your customer via email or post.

With the "Access" version the description provided in the offer you have generated is automatically used as the invoice item.

With the "Shop" version you have the possibility to supply the PAYONE Platform with your complete shopping cart including article number, quantity, description, price and VAT. These positions are automatically used as invoice items.

You can create the invoices according to your specifications.

Once the invoice is activated and the invoice/credit memo has been successfully carried out, an invoice/credit memo in your design is automatically created by the PAYONE Platform and sent to the customer as a PDF document via email or post. Afterwards you can download the invoices sent at any time in the PMI (PAYONE Merchant Interface).

For configuration of the PAYONE Platform invoicing module please contact the PAYONE merchant service.



1.5 Dunning processes and encashment

At your request the PAYONE Platform will carry out commercial dunning processes as well as the transfer to encashment. Within the dunning process, the customer will receive up to three reminders (e.g. via email, post) with requests for payment. If the dunning process is without success, the case can be transferred to an external encashment agency. All reminders that have been sent can be viewed via PMI (PAYONE Merchant Interface).

If an invoice is not settled by the specified date or in the case of return debit notes and chargebacks (credit card) the case is automatically transferred to the PAYONE Platform's internal dunning.

In the reminders, the customer receives an overview of all outstanding requests and of any additional fees that may have resulted. The email includes all data relevant for payment and the customer is therefore able to settle all outstanding requests by credit transfer straight away. The incoming payments are automatically assigned to the outstanding request by the PAYONE debtor management system. If the dunning procedure is without success, the case is transferred to an encashment agency.

The merchant is supplied with all outstanding requests via the TransactionStatus (see chapter 4.2). In the same manner the TransactionStatus transmits the settlement of every outstanding request. The customer is optionally provided with a confirmation mail acknowledging the settlement of the outstanding request.

For configuration of the PAYONE Platform Collect module please contact the PAYONE Merchant Service.



1.6 Administration of subscriptions

With the help of the Contract module the PAYONE Platform manages subscriptions and recurring payments. Terms, prices and dependencies can be defined freely within the PMI (PAYONE Merchant Interface), which means that complex order models can be displayed as well.

In order for subscriptions to be managed automatically via the PAYONE Platform, you must first provide the key details of the subscription in the PMI (PAYONE Merchant Interface). For this purpose, create a payment portal of the type "Access" and corresponding offers (templates) for the different subscriptions (see chapter 2.1). Here, you can define terms, prices, etc. for the subscription.

To initialise a subscription use the corresponding order ID (template) and a "createaccess" request. If the first booking is successful, a subscription will be created for the customer using the template.

All bookings created by the administration of subscriptions via the TransactionStatus (see chapter 4.2) are submitted to the merchant. If Invoicing is active, the customer will automatically receive an invoice with each booking.

For configuration of the PAYONE Platform Contract module please contact the PAYONE merchant service.



2 Payment portals

Edition: 2016-12-15

Payment portal version "Access"

2.1.1 Creating a payment portal of the version "Access"

In order to invoice your products and services with access management or administration of subscriptions via PAYONE, you must first create at least one payment portal of the version "Access".

Options	
Portal name:	General description of the payment portal.
URL:	URL on which your products or services you wish to settle via this payment portal are to be found.
Sender email:	Email-address that is used for emails to end customers



2.1.2 Adding an offer to a payment portal

Options initial term

Name: Will be used as article description for the creation of invoices.

Login time: Defines the duration for the initial contract term.

(Days/months/years)

Do not exceed a duration of 36 months / 3 years.

Price: Price for the initial contract term.

Options follow-up term / repeat term

Automatic renewal: Activate this check box to activate repeat terms. If you activate this

option, the subscription will be renewed until it is actively terminated.

Name: Will be used as article description for the creation of invoices.

Repeat cycle: Defines the duration of the repeat cycle. (Days/months/years).

Do not exceed a duration of 36 months / 3 years.

Price: Price of the repeat cycle

Currency: The currency applies for both the initial term and the repeat term.

VAT tax rate: The VAT tax rate applies for both the initial term and the repeat term.



2.1.3 Extended options of the payment portal

Options

SessionStatus URL: Status changes for an open session (access) are transmitted to this URL

via HTTP request. (see chapter 4.1)

If you are using the SessionControl script, enter the

corresponding URL here.

TransactionStatus URL: Status changes for a payment process are transmitted to this URL via

HTTP request. (see chapter 4.2)

Key: This key is transmitted to the API/ SessionStatus/ TransactionStatus

URL as an MD5 or SHA2-384 hash value with every call.

Attention: The hash value has to be given in lower case.

Purpose: Purpose used for this offer



2.2 Payment portal version "Shop"

2.2.1 Creating a payment portal of the version "Shop"

In order for the PAYONE System to be able to handle the payments for one or several products at a time, you must first create a payment portal of the version "Shop". Please notice the differences to the payment portal of the version "Access" (see 2.1).

Options	
Shopname:	General description of the shop portal.
URL:	URL on which to find your products you wish to sell here.
TransactionStatus URL:	Status changes for a payment process are transmitted to this URL via HTTP request. (see chapter 4.2)
Key:	This key is transmitted to the API/ SessionStatus/ TransactionStatus URL as an MD5 or SHA2-384 hash value with every call.
	Attention: The hash value has to be given in lower case.



3 Interface definitions

3.1 General

3.1.1 Data transfer

The data transfer is processed directly via an HTTPS-POST or HTTPS-GET request by the browser of the customer.

The data is returned in JSON data format or as parameter in an HTTP redirect.

The requests must be sent to the following URL:

Client API URL: https://secure.pay1.de/client-api/



3.1.2 Standard parameter

With each request the following parameters must always be submitted.

Standard parameter				
Parameter	Required	Format	Comment	
mid	+	N6	Merchant account ID	
portalid	+	N7	Payment portal ID	
api_version ²	+	Default	3.8 Actual API-version (Default if not present)	
			3.9 New API-version from 2015-01-05	
			3.10 New API-version from 2016-06-01	
mode	+	Default	test: Test mode	
			live: Live mode	
request	+	Default	Queries:	
			- creditcardcheck	
			- bankaccountcheck	
		- C 1:		
responsetype	+	Default	- JSON	
			- REDIRECT	
hash	+	AN32 AN96	MD5 hash code (see chapter 3.1.4) SHA2-384 hash code (see chapter 3.1.4)	
successive!				
successurl	0	AN255	URL "payment successful"	
			(only if responsetype=REDIRECT or required by corresponding request)	
errorurl	0	AN255	URL "faulty payment"	
			(only if responsetype=REDIRECT or required by	
			corresponding request)	
encoding	-	Default	ISO 8859-1 (default)	
			UTF-8	

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² New parameter "api_version" should be added to actual implementations as it will be mandatory in future.



3.1.3 Special remark

- All information described as "Unixtimestamp" refers to coordinated universal time (UTC) and is hence not subject to changing from daylight saving time to standard time.
- Only use key-value-pairs which are filled with meaningful data. All parameters that are not required for a request must not be used. Do not use dummy-values (like "-" or "x") and do not use empty values. E.g.:
 - request "updateuser" does not require a parameter "clearingtype" nor "currency".
 Do not send e.g. "clearingtype=" or "clearingtype=-", ...
 - request "getinvoice" does not require a parameter "amount" nor "language".
 -> Do not send e.g. "amount=" or "amount=0", ...
 - o request "preauthorization" with "clearingtype=cc" (creditcard) does not require bankdata.
 - -> Do not send e.g. "bankcountry=", "bankcountry=x", "iban=" or "iban=x", ...
 - Do not use dummy values like "birthdate=00000000" or "birthdate=19700101"
 -> then do not send parameter "birthdate" at all.
- Use correct encoding: You may specifiy two different encodings (ISO 8859-1 or UTF-8). Please set
 the encoding you really use and don't mix them up. This may lead to denied requests or to
 misinterpreted data.
- URLs (like successurl, errorurl, backurl) should not contain special characters (e.g. "+") as they can be mis-interpretated sometimes.
 e.g.: "+" (plus) is converted to " " (space) with service SOFORT-Überweisung (SB/PNT)
- PAYONE API does not modify any given data. Please ensure that e.g. whitespace characters (leading, trailing of in between (for IBAN, BIC, PAN/PPAN)) are removed before sending data to PAYONE.
- URLs and E-Mail-addresses with non-latin-characters have to be translated to ASCII using Punycode before passing to PAYONE API as PAYONE does not modify any given data.



3.1.4 Calculation of the HASH value

The hash value protects the request parameters from changes by the customer, e.g. price changes.

The hash value is calculated from the request parameters and a secret key using the hash function hash("md5", \$data) or hash_hmac("sha2-384", \$data, \$key). Any parameter values to be protected are concatenated in alphabetical order. Finally the key will be attached to the string and the hash value is calculated.

Parameters are sorted by their name. It does not matter in which order they are used in the request URL. See below table for the parameters to be protected.

You can assign the key to be used in the PMI (PAYONE Merchant Interface). Do not pass this key to third parties in any case. You can also choose the desired hash algorithm in the PMI:

PMI, configuration, payment portals, hash calculation			
PMI-Selection	Meaning		
md5 (actual method)	PAYONE platform expects hash value as md5		
	(md5 is compromised and should be replaced by sha2-384)		
	for compatibility reason this is currently default.		
sha2-384 (recommended	PAYONE platform expects hash value as sha2-384		
method)	(if you want to use sha2-384 hash values this option has to be activated)		
md5_or_sha2-384 (during	PAYONE platform accepts both hash calculations (md5 and sha2-384)		
migration)	(this option should only be use for migration from md5 to sha2-384)		

The following parameter values must be included in the HASH value:

Parameter im HASH				
access_aboperiod	document_date	period_length_trail		
access_aboprice	due_time	period_unit_recurring		
access_canceltime	eci	period_unit_trail		
access_expiretime	ecommercemode	portalid		
access_period	encoding	pr[x]		
access_price	errorurl	pr_recurring[x]		
access_starttime	exiturl	pr_trail[x]		
access_vat	getusertoken	productid		
accesscode	id[x]	reference		
accessname	id_recurring[x]	request		



addresschecktype	id_trail[x]	responsetype
aid	invoice_deliverydate	settleaccount
amount	invoice_deliveryenddate	settleperiod
amount_recurring	invoice_deliverymode	settletime
amount_trail	invoiceappendix	storecarddata
api_version	invoiceid	successurl
backurl	it[x]	ti[x]
booking_date	mandate_identification	ti_recurring[x]
checktype	mid	ti_trail[x]
clearingtype	mode	userid
consumerscoretype	narrative_text	va[x]
currency	no[x]	va_recurring[x]
customerid	no_recurring[x]	va_trail[x]
de[x] ³	no_trail[x]	vaccountname
de_recurring[x]	param	vreference
de_trail[x]	period_length_recurring	

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 $^{^{3}}$ [x] always means that all elements of the given array have to be part of the hash.



Attention:

PAYONE Platform expects the calculated hash value converted to lower case; e.g. 87dbc7c369b85b7a699adff1a2b27bab ("md5") or d0ff16426ec9071cfe12c4440738875f...caf28c5ac9abb52b5d ("sha2-384").

An example in PHP:

```
$request="authorization";
                           // Request
$portalid=2000001;
                           // Portal ID
$mid=10001;
                          // Merchant Account ID
                    // Sub Account ID
$aid=10002;
$key="secret";
                           // Key (configurable in the payment portal)
$responsetype="REDIRECT";
                           // Response type
$id[1]="123-345"
                           // Your item no.
$pr[1]=5900;
                           // Price in cent
$no[1]=1;
                           // Amount
$de[1]="Puma Outdoor";
$va[1]=19:
                           // Item description
                           // Percentage of value added tax (option)
$va[1]=19;
$amount=round($pr[1]*$no[1]);// Total
// usage of md5-hash
// select "md5" in PMI-portal-settings
// \hash=md5(\aid . \amount . \currency . \customerid . \de[1] .
//
         [1] . [1] . [no[1] . [no[1] . [no[1] . [no[1] . [no[1] . [no[1] .
//
         $request . $responsetype . $va[1] .
         $key); // Parameters in sorted order + key
//
// usage of sha2-384-hash
// select "sha2-384" in PMI-portal-settings
$hash=hash hmac("sha384", $aid .
         $amount .
         $currency
         $customerid .
         $de[1] .
         $id[1] .
         $mid .
         $no[1]
         $portalid .
         $pr[1] .
         $reference .
         $request .
         $responsetype .
         $va[1], // Parameters in sorted order
         $key); // $key is an individual parameter !
```

Attention:

The PAYONE Platform expects the hash value in small letters.

Please pay attention that for "sha2-384" the portal key is not part of parameters for hash-function, but a separate parameter passed to hash-function "hash hmac".



3.1.5 PAYONE hosted-iFrame mode (credit card data, PCI DSS)

With the PAYONE hosted-iFrame mode you have the flexibility with design of integration and an easy PCI DSS certification with level SAQ A. The basic requirements to be eligible with SAQ A^4 are:

- Your company accepts only card-not-present (e-commerce or mail/telephone-order) transactions;
- All payment acceptance and processing are entirely outsourced to PCI DSS validated third-party service providers;
- Your company has no direct control of the manner in which cardholder data is captured, processed, transmitted, or stored;
- Your company does not electronically store, process, or transmit any cardholder data on your systems or premises, but relies entirely on a third party(s) to handle all these functions;
- Your company has confirmed that all third party(s) handling acceptance, storage, processing, and/or transmission of cardholder data are PCI DSS compliant; and
- Your company retains only paper reports or receipts with cardholder data, and these documents are not received electronically.

and

• The entirety of all payment pages delivered to the consumer's browser originates directly from a third-party PCI DSS validated service provider(s).

With PAYONE hosted-iFrame mode you will be compliant with all these requirements as the input fields for sensitive credit card data are designed as iframes and are provided by the PCI DSS certified PAYONE platform.

Include the following JavaScript in your HTML page containing the form:

JavaScript URL: https://secure.pay1.de/client-api/js/v1/payone hosted min.js

Remark

This JavaScript includes support of classic Client-API features described in chapter "AJAX mode" and "Redirect mode" (see following chapters) to support bank based payments and the PAYONE hosted iFrame mode.

To use the features of the classic Client-API with the new JavaScript you simply have to change "new PayoneRequest(...)" to "new Payone.ClientApi.Request(...)".

Known issues

There is a known issue with an old version (1.6 or before) of framework "prototype" – please ensure to use the actual version (at least 1.7).

⁴ Please refer to PCI DSS Security Standards listed in <u>SAQ A V3</u> on https://de.pcisecuritystandards.org



3.1.5.1 Brief description

The merchant has to implement:

- A selector for cardtype (see example: <select id="cardtype">)
 Configure your credit card acceptance here with the desired credit card types.
 The selected cardtype has to be passed to the public method "setCardType".
 You may also specify in config.cardtype available cardtypes for selection in a PAYONE iFrame.
- Place a label for each credit card input field and a div-container for the input iframes (see example: <div id="cardpanInput"></div>)
- Optional: place a div-container to display error messages returned from the creditcardcheck (see example: <div id="error"></div>)
- Define an object to configure the design of the iFrames (see example: config =)
 - Optional: Attribute "cardtype" can be configured with allowed cardtypes that are displayed in a PAYONE iFrame.
 - -> Then the cardtype selector in your shop has to be removed.
 - The attributes "cardpan", "cardcvc2", "cardexpirementh", "cardexpireyear" are fixed.
 - The value for attribute "selector" refers to the name of your div-container where the PAYONE iFrame should be rendered.
 - You may specify for each field the type of input (text, password, tel 5 and select (month/year only) using the attribute "type" and a CSS-style using the attribute "style".
 - The value for attribute "error" refers to the name of your div-container where error-messages should be displayed.
 - Pass your currently selected language to the config-object

Once all fields are set you will have to start the public function "iframes.creditCardCheck" which will initiate a creditcardcheck-request. This request will check the entered creditcard details and return a response-object which contains either:

- response.status = "VALID"
- response.pseudocardpan containing the unique pseudocardnumber (Pseudo-PAN)
- response.truncatedcardpan containing the masked creditcard number (masked PAN)
- response.cardtype containing the selected cardtype
- response. cardexpiredate containing the entered expiredate (YYMM)

or

response.status = "INVALID"

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⁵ type "tel" can be used to display a simple, numeric phone keyboard on mobile devices.



- response.errorcode -> please refer to the section "error messages"
- response.errormessage in the specified language

3.1.5.2 Table of config-attributes

These attributes and values are allowed in object "config.fields":

cardtype	cardpan	cardcvc2	cardexpiremonth	cardexpireyear	attribute	value
Х					cardtypes	define possible cardtypes for selection in PAYONE iFrame, e.g. ["V", "M", "A"]
Х	Х	х	Х	Х	selector	name of your div-container, e.g. "cardpan"
	Х	Х	Х	X	size	size of input field in characters, e.g. "20"
	Х	Х	Х	Х	maxlength	maximum length of accepted input, e.g. "20"
		х			length	Array of exact length of accepted input per CC-type e.g.: length: { "A": 4, "V": 3, "M": 3, "J": 0 }
	Х	Х	Х	Х	type	define type of input field:
						"text" input is visible
						"tel" input is visible, simple keyboard is displayed on mobile devices
						"password" input is masked
						"select" display selection/drop-down with possible values (only valid for month and year)
x	x	x	x	x	style	CSS style properties, e.g. "font-size: 1em; border: 1px solid #000; background: white; color: red; width: 145px; height: 70px; font-family: 'Courier'; font-style: italic; font-weight: bold; text-align: center; letter-spacing: 2px;" Remark:
						 You may use any CSS style property except "url".
						 If "url" is used the style will be ignored as PCI DSS does not allow external ressources.
						These characters must not be used: "\", "/", "?", "<" and ">"
Х	Х	Х	х	х	iframe.height	size
x	x	x	x	х	iframe.width	size, e.g.: iframe: { height: "25px", width: "250px" }



These attributes and values are allowed in object "config.defaultStyle":

attribute	value
input	CSS style properties for input fields, e.g. "font-size: 1em; border: 1px solid #000; width: 175px;"
select	CSS style properties for select fields, e.g. "font-size: 1em; border: 1px solid #000;"
iframe.height	size in pixel
iframe.width	size in pixel, e.g.: iframe: { height: "25px", width: "250px" }



3.1.5.3 Table of request-attributes

These attributes and values are allowed in object "request":

attribute	value		
request	fixed value: 'creditcardcheck'		
responsetype	fixed value: 'JSON'		
storecarddata	fixed value: 'yes'		
mode	mode for transactions, either 'live' or 'test'		
encoding	your encoding, either 'ISO-8859-1' or 'UTF-8'		
mid	your Merchant ID		
aid	your Account ID		
portalid	your Portal ID		
hash	MD5 or sha2_384 hash over request values (alphabetical order) plus portal key in your PMI portal configuration.		
	 e.g.: aid: '10002', // your AID encoding: 'UTF-8', // desired encoding mid: '10001', // your MID mode: 'live', // desired mode portalid: '2000002', // your Portalld request: 'creditcardcheck', // fixed value responsetype: 'JSON', // fixed value storecarddata: 'yes', // fixed value PMI Portal key: '123456' MD5('10002UTF-810001live2000002creditcardcheckJSONyes123456') =5c4014cebeb361d9e186fd42c810b9b1 or hash_hmac("sha384", "10002UTF-810001live2000002creditcardcheckJSONyes", "123456") =1cf456bf692453613ebb992a3fb859cc347ddc7e94e2ca764efbe8b0089de6964ab1266df0831e59de89dc5291070fe7 		



3.1.5.4 Simple example (cardtype selected in PAYONE iFrame)

This example will show how to configure PAYONE hosted-iFrame mode with cardtype selection in a PAYONE iFrame.

Simply change:

- config.fields.cardtypes to your cardtypes you'd like to process
- config.fields.*.style to your CSS layout
- request.*-fields to your mid, aid, portalid, mode, encoding and hash value

and finally

initiate a preauthorization / authorization via received "pseudocardpan".

```
<head lang="en">
    <meta charset="UTF-8">
    <title>Simple example for PAYONE hosted-iFrame mode</title>
    <style type="text/css" media="screen, projection">
           margin: 0;
           padding: 0;
       body {
           background: #FFF;
            color: #000;
            font: 0.9em "Helvetica";
       fieldset {
           padding: 1em;
            border: 1px solid #000;
           width: 275px;
           margin: 10px;
       label {
           margin-right: 10px;
            float: left;
           width: 80px;
           padding-top: 0.3em;
           text-align: right;
        input, select{
           font-size: 1em;
           border: 1px solid #000;
           padding: 0.1em;
       select {
           margin-right: 10px;
       input, .inputIframe, select {
           display: block;
           margin-bottom: 10px;
       input {
           width: 175px;
        #paymentsubmit {
            float: right;
           width: auto;
           padding: 5px;
           margin-bottom: 0px;
           margin-right: 10px;
        #errorOutput {
            text-align: center;
            color: #ff0000;
            display: block;
```



```
</head>
<body>
<script type="text/javascript" src="https://secure.payl.de/client-api/js/v1/payone hosted min.js"></script>
<form name="paymentform" action="" method="post">
     <fieldset>
         <input type="hidden" name="pseudocardpan" id="pseudocardpan">
<input type="hidden" name="truncatedcardpan" id="truncatedcardpan">
         <!-- place your input fields -->
          <label for="cardtypeInput">Card type:</label>
         <span id="cardtype" class="inputIframe"></span>
         <label for="cardpanInput">Cardpan:</label>
<span id="cardpan" class="inputIframe"></span>
         <label for="cvcInput">CVC:</label>
<span id="cardcvc2" class="inputIframe"></span>
         <label for="expireInput">Expire Date:</label>
         <span id="expireInput" class="inputIframe">
<span id="cardexpireInput" class="inputIframe">
<span id="cardexpiremonth"></span>
               <span id="cardexpireyear"></span>
         </span>
         <label for="firstnameInput">Firstname:</label>
<input id="firstname" type="text" name="firstname" value="">
          <label for="lastnameInput">Lastname:</label>
         <input id="lastname" type="text" name="lastname" value="">
         <div id="errorOutput"></div>
         <input id="paymentsubmit" type="button" value="Submit" onclick="check();">
     </fieldset>
</form>
<div id="paymentform"></div>
<script>
    var request, config;
     config = {
         fields: {
              cardtype: {
                                                             // put name of your div-container here
// define possible cardtypes in PAYONE iFrame
                   selector: "cardtype",
                   cardtypes: ["V", "M", "A"]
               cardpan: {
                   selector: "cardpan",
                                                                 // put name of your div-container here // text (default), password, tel \,
                   type: "text", // text (de style: "font-size: 1em; border: 1px solid #000;"
              cardcvc2: {
                   selector: "cardcvc2",
                                                                // put name of your div-container here
                   type: "password", // select(de style: "font-size: lem; border: lpx solid #000;",
                                                                 // select(default), text, password, tel
                   size: "4",
                   cardexpiremonth: {
                                                                // put name of your div-container here
// select(default), text, password, tel
                   selector: "cardexpiremonth",
                   type: "select", size: "2",
                   maxlength: "2",
                   iframe: {
                       width: "50px"
                   }
              cardexpireyear: {
    selector: "cardexpireyear",
                                                                // put name of your div-container here
// select(default), text, password, tel
                   type: "select",
                   iframe: {
                       width: "80px"
                   }
              }
         defaultStyle: {
               input: "font-size: 1em; border: 1px solid #000; width: 175px;",
               select: "font-size: 1em; border: 1px solid #000;",
               iframe: {
                   height: "33px",
width: "180px"
```



```
error: "errorOutput",
                                                                 \ensuremath{//} area to display error-messages (optional)
                                                                 // Language to display error-messages
// (default: Payone.ClientApi.Language.en)
         language: Payone.ClientApi.Language.de
    request = {
         request: 'creditcardcheck',
                                                                 // fixed value
         responsetype: 'JSON',
                                                                // fixed value
         mode: 'live',
mid: '10001',
aid: '10002',
                                                                 // desired mode
                                                                // desired mode
// your MID
// your AID
// your PortalId
// desired encoding
         portalid: '2000002', encoding: 'UTF-8',
         storecarddata: 'yes',
                                                                 // fixed value
         // hash calculated over your request-parameter-values (alphabetical request-order) plus PMI portal
key
         // hash:
'lcf456bf692453613ebb992a3fb859cc347ddc7e94e2ca764efbe8b0089de6964ab1266df0831e59de89dc5291070fe7'
         hash: '5c4014cebeb361d9e186fd42c810b9b1'
                                                                // see Chapter 3.1.5.3
     var iframes = new Payone.ClientApi.HostedIFrames(config, request);
                                                                // Function called by submitting PAY-button \,
     function check() {
         if (iframes.isComplete()) {
              iframes.creditCardCheck('checkCallback');// Perform "CreditCardCheck" to create and get a
                                                                 // PseudoCardPan; then call your function
"checkCallback"
         } else {
              console.debug("not complete");
         }
    }
     function checkCallback(response) {
         console.debug(response);
if (response.status === "VALID") {
              document.getElementById("pseudocardpan").value = response.pseudocardpan;
document.getElementById("truncatedcardpan").value = response.truncatedcardpan;
              document.paymentform.submit();
     }
</script>
</body>
</html>
```



3.1.5.5 Simple example (cardtype set by shop-system)

This example will show how to configure PAYONE hosted-iFrame mode with cardtype selection in your shop / website

Simply change:

- config.fields.*.style to your CSS layout
- request.*-fields to your mid, aid, portalid, mode, encoding and hash value

and set

your selected credit card type via public method "setCardType"

and finally

• initiate a preauthorization / authorization via received "pseudocardpan".

```
<html>
<head lang="en">
    <meta charset="UTF-8">
    <title>Simple example for PAYONE hosted-iFrame mode</title>
    <style type="text/css" media="screen, projection">
            margin: 0;
            padding: 0;
        body {
            background: #FFF;
            color: #000;
font: 0.9em "Helvetica";
        fieldset {
            padding: 1em;
            border: 1px solid #000; width: 275px;
            margin: 10px;
            margin-right: 10px;
            float: left;
            width: 80px;
            padding-top: 0.3em;
            text-align: right;
        input, select{
            font-size: 1em;
            border: 1px solid #000;
            padding: 0.1em;
        select {
            margin-right: 10px;
        input, .inputIframe, select {
            display: block;
            margin-bottom: 10px;
            width: 175px;
        #paymentsubmit {
            float: right;
            width: auto;
            padding: 5px;
            margin-bottom: 0px;
            margin-right: 10px;
        #errorOutput {
            text-align: center;
            color: #ff0000;
```



```
display: block;
    </style>
</head>
<body>
<script type="text/javascript" src="https://secure.payl.de/client-api/js/v1/payone_hosted_min.js"></script>
<form name="paymentform" action="" method="post">
    <fieldset>
        <input type="hidden" name="pseudocardpan" id="pseudocardpan">
<input type="hidden" name="truncatedcardpan" id="truncatedcardpan">
        <!-- configure your cardtype-selection here --> <label for="cardtypeInput">Card type</label>
        <option value="M">Mastercard</option>
             <option value="A">Amex</option>
         </select>
        <label for="cardpanInput">Cardpan:</label>
        <span class="inputIframe" id="cardpan"></span>
         <label for="cvcInput">CVC:</label>
        <span id="cardcvc2" class="inputIframe"></span>
         <label for="expireInput">Expire Date:</label>
         <span id="expireInput" class="inputIframe">
             <span id="cardexpiremonth"></span>
             <span id="cardexpireyear"></span>
         </span>
         <label for="firstname">Firstname:
         <input id="firstname" type="text" name="firstname" value="">
        <label for="lastname">Lastname:<input id="lastname" type="text" name="lastname" value="">
         <div id="errorOutput"></div>
         <input id="paymentsubmit" type="button" value="Submit" onclick="check();">
    </fieldset>
</form>
<div id="paymentform"></div>
<script>
    var request, config;
    config = {
        fields: {
             cardpan: {
                                                           // put name of your div-container here
// text (default), password, tel
                 selector: "cardpan",
                  type: "text",
                 style: "font-size: 1em; border: 1px solid #000;"
             cardcvc2: {
                                                           // put name of your div-container here
// select(default), text, password, tel
                 selector: "cardcvc2",
                 type: "password",
                 style: "font-size: 1em; border: 1px solid #000;", size: "4",
                 cardexpiremonth: {
                 selector: "cardexpiremonth",
type: "select",
size: "2",
                                                          // put name of your div-container here
// select(default), text, password, tel
                 maxlength: "2",
                 iframe: {
                      width: "50px"
             }.
             cardexpireyear: {
                 selector: "cardexpireyear",
                                                          // put name of your div-container here
                  type: "select",
                                                           // select(default), text, password, tel
                 iframe: {
                      width: "80px"
                 }
             }
         defaultStyle: {
             input: "font-size: 1em; border: 1px solid #000; width: 175px;", select: "font-size: 1em; border: 1px solid #000;",
             iframe: {
```



```
height: "33px"
                  width: "180px"
         error: "errorOutput",
                                                               // area to display error-messages (optional)
         language: Payone.ClientApi.Language.de
                                                               // Language to display error-messages
                                                               // (default: Payone.ClientApi.Language.en)
    };
    request = {
         request: 'creditcardcheck',
                                                               // fixed value
                                                               // fixed value
// desired mode
         responsetype: 'JSON',
         mode: 'live',
mid: '10001',
aid: '10002',
                                                              // your MID
// your AID
         portalid: '2000002',
encoding: 'UTF-8',
storecarddata: 'yes',
                                                              // your PortalId
// desired encoding
                                                               // fixed value
         // hash calculated over your request-parameter-values (alphabetical request-order) plus PMI portal
key
         // hash:
\verb|'1cf456bf692453613ebb992a3fb859cc347ddc7e94e2ca764efbe8b0089de6964ab1266df0831e59de89dc5291070fe7'|
        hash: '5c4014cebeb361d9e186fd42c810b9b1'
                                                            // see Chapter 3.1.5.3
    var iframes = new Payone.ClientApi.HostedIFrames(config, request);
    document.getElementById('cardtype').onchange = function () {
       iframes.setCardType(this.value);
                                                              // on change: set new type of credit card to process
    function check() {
                                                              // Function called by submitting PAY-button
         if (iframes.isComplete()) {
              iframes.creditCardCheck('checkCallback'); // Perform "CreditCardCheck" to create and get a
                                                               // PseudoCardPan; then call your function
"checkCallback"
         } else {
             console.debug("not complete");
    function checkCallback(response) {
         console.debug(response);
if (response.status === "VALID") {
    document.getElementById("pseudocardpan").value = response.pseudocardpan;
    document.getElementById("truncatedcardpan").value = response.truncatedcardpan;
              document.paymentform.submit();
    }
</script>
</body>
</html>
```



3.1.5.6 Additional tips

3.1.5.6.1 Changing display text for month drop down

To change the display text in month selection drop down just add this code block just before initiating the iFrames via "new Payone.ClientApi.HostedIFrames (config, request)" in your shop:

```
Payone.ClientApi.Language.de.months.month1 = "Januar";
Payone.ClientApi.Language.de.months.month2 = "Februar";
Payone.ClientApi.Language.de.months.month3 = "März";
...
Payone.ClientApi.Language.en.months.month1 = "January";
Payone.ClientApi.Language.en.months.month2 = "February";
Payone.ClientApi.Language.en.months.month3 = "March";
...
```

Please pay attention to replace "en" by your desired language. Further languages can be added.

3.1.5.6.2 Changing display text for error messages

To change the display text for error messages add this code block just before initiating the iFrames via "new Payone.ClientApi.HostedIFrames (config, request)" in your shop:

```
Payone.ClientApi.Language.en.invalidCardpan = "your error text";
Payone.ClientApi.Language.en.invalidCvc = "your error text";
Payone.ClientApi.Language.en.invalidPanForCardtype = "your error text";
Payone.ClientApi.Language.en.invalidCardtype = "your error text";
Payone.ClientApi.Language.en.invalidExpireDate = "your error text";
Payone.ClientApi.Language.en.invalidIssueNumber = "your error text";
Payone.ClientApi.Language.en.transactionRejected = "your error text";
...
other languages if desired
```

Please pay attention to replace "en" by your desired language. Further languages can be added.

3.1.5.6.3 Specifying placeholder text for input fields

A placeholder text can be specified per input field (type "text", "password" and "tel"). Therefore add this block just before initiating the iFrames via "new Payone.ClientApi.HostedIFrames (config, request)" in your shop:

```
Payone.ClientApi.Language.de.placeholders.cardpan = 'Kartennummer';
Payone.ClientApi.Language.de.placeholders.cvc = 'CVC';
...
Payone.ClientApi.Language.en.placeholders.cardpan = 'Cardnumber';
Payone.ClientApi.Language.en.placeholders.cvc = 'CVC';
...
```

Please pay attention to replace "en" by your desired language. Further languages can be added.



3.1.6 AJAX mode

In AJAX mode, values entered in a form can be checked and processed directly without reloading the web page. In order to enable this, two JavaScripts are required: one JavaScript inside the form and one JavaScript hosted by PAYONE. The second JavaScript is required because JavaScript does not allow cross-domain access. Checking and processing the data via AJAX should take place before the form is sent to the shop.

Include the following JavaScript in your HTML page containing the form:

AJAX JavaScript URL: https://secure.pay1.de/client-api/js/ajax.js

Remark

Payment data should not come into touch with your system. This is very important with credit card data. Certification according to the PCI standard is not necessary only if the card data does not come into touch with your systems. Sensible payment data should be removed from the form after checking and processing via the client API (see below) in order to not have contact with your systems. Any other data can be queried in preceding steps.

Important note

This mode is also known as "direct post". The input fields are placed on the merchant payment page and not provided by PAYONE. Therefore the merchant needs to comply with PCI DSS SAQ A-EP certification **if the full creditcard number (PAN) is processed** (using the pseudocardnumber with "direct post" (e.g. to ask the customer for CVC) is fine).

To be SAQ A compliant PAYONE recommends implementation of the PAYONE hosted-iFrame-solution when processing the full original creditcard number (PAN).



JavaScript/AJAX code example

```
var data = {
      request : 'creditcardcheck',
      responsetype : 'REDIRECT',
                                         // JSON or REDIRECT available
      mode : 'live',
      mid: '10000',
      aid: '10001',
      portalid : '2000000',
      encoding : 'UTF-8',
      storecarddata : 'yes',
      hash: '19062005567ca72601cc9d031f9a94b1',
      cardholder : document.Testform.cardholder.value,
      cardpan : document.Testform.cardpan.value,
      cardtype : document.Testform.cardtype.value,
      cardexpiremonth : document.Testform.cardexpiremonth.value,
      cardexpireyear : document.Testform.cardexpireyear.value,
      cardcvc2 : document.Testform.cardcvc2.value,
      language : 'en'
var options = {
      return_type : 'object',
      callbackFunctionName: 'processPayoneResponse'
function processPayoneResponse(response) {
      if (response.get('status') == 'VALID') {
             document.Testform.cardpan.value='';
             document.Testform.cardcvc2.value='';
      document.Testform.pseudocardpan.value=response.get('pseudocardpan')
             document.Testform.submit();
      }
      else {
             alert(response.get('customermessage'));
      }
}
var request = new PayoneRequest(data, options);
request.checkAndStore();
```

JSON response example

```
"status" : "ERROR",
  "errorcode" : "1078",
  "errormessage" : "Parameter {cardpan} incorrect or missing",
  "customermessage" : "Invalid cardpan. Please check the information on the card.",
}
```



3.1.7 Redirect mode

Form inputs are sent directly to the client API when working in redirect mode. The client API processes the request and forwards the user to a specific page of the online shop, depending on the result. The client API itself does not produce any output.

Redirect URLs

Success URL The customer is forwarded to this URL if the query was successful. (e.g. if the payment was

successful or if the address check was positive)

Error URL The customer is forwarded to this URL if the query was not successful. (e.g. if the payment

was denied or if the address check was negative)

Response data are attached to the URL as GET parameters and can be processed by you.

The end customer is directly forwarded to the "redirecturl" if provided in the PAYONE Platform response. After that, the end customer is send back to your success URL or error URL.

Remark

Payment data should not come into touch with your system. This is very important with credit card data. Certification according to the PCI standard is not necessary only if the card data does not come into touch with your systems. Sensible payment data should be sent directly from the form to the client API and should not be forwarded trough your systems (see below). Any other data can be queried in preceding steps.

Important note

This mode is also known as "direct post". The input fields are placed on the merchant payment page and not provided by PAYONE. Therefore the merchant needs to comply with PCI DSS SAQ A-EP certification. To be SAQ A compliant PAYONE recommends implementation of the PAYONE hosted-iFrame-solution.



HTML example

```
<form action="https://secure.pay1.de/client-api/" method="POST">
<input type="hidden" name="portalid" value="2000000">
<input type="hidden" name="aid" value="10000">
<input type="hidden" name="mode" value="test">
<input type="hidden" name="request" value="bankaccountcheck">
<input type="hidden"</pre>
 name="successurl" value="http://www.yoursite.com/success.php">
<input type="hidden"</pre>
 name="errorurl" value="http://www.yoursite.com/error.php">
<input type="hidden" name="hash" value="70eaec2a33fa1b4674c0b1ge5e982966">
<input type="hidden" name="responsetype" value="REDIRECT">
<input type="hidden" name="language" value="en">
<input type="hidden" name="bankcountry" value="DE">
Account number
  <input type="text" name="bankaccount">
<t.r>
 Sort code
 <input type="text" name="bankcode">
<input type="submit" value="Buy now!">
</form>
```

Redirect example

 $\label{lem:http://www.yoursite.com/error.php?status=ERROR&errocode=1083&errormessage=Parameter+%7Bbankaccount%7D+incorrect+or+missing&customermessage=Invalid+account+number.+Please+check+the+information+on+the+card.$



3.2 Payment

3.2.1 Initiating payment reservation (preauthorization)

With the "preauthorization" request the transmitted amount is reserved. According to the type of payment, specific functions are carried out.

This option is only available in the "Shop" option.

Credit card data is verified and stored.

The amount is reserved on the customer's card

Debit payment Account data is verified and stored.

Online Bank Transfer Account data is verified

Online transfer session is initialised

Amount will be charged to the account directly after payment is completed

e-wallet E-wallet session is initialised

Amount is reserved after the payment has been completed

Prepayment Data is stored

Payment process is initialised

Invoice Data is stored

Payment process is initialised

Cash on delivery Data is stored

Payment process is initialised

Financing Payment type BillSAFE requires item data, billing and delivery address need to be

identical.

PAYONE Business

No receivable is entered upon this request.



Parameter	Required	Format	Comment
aid	+	N6	Sub account ID
clearingtype	+	Default	elv Debit payment
			cc Credit card
			rec Invoice
			vor Prepayment
			cod Cash on delivery
			sb Online Bank Transfer
			wlt e-wallet
			fnc Financing
reference	+	AN20	Merchant reference number for the payment process.
			(Permitted symbols: 0-9, a-z, A-Z, .,-,_,/)
			special limits / restrictions:
			GPY min./max: AN 416
amount	+	N7	Total amount (in smallest currency unit! e.g. cent)
currency	+	Default	Currency (ISO 4217)
param	-	AN1255	Individual parameter
narrative_text	-	AN181	Dynamic text element on account statements
			(3 lines with 27 characters each) and credit card statements.
Parameter (personal dat	a)		
customerid	-	AN120	Merchant's customer ID
			(Permitted symbols: 0-9, a-z, A-Z, .,-,/)
userid	-	N612	Debtor ID (PAYONE)
			userid must already exist and mode (test/live) must must match.
			If userid is used then personal data are loaded automatically.
salutation	-	AN110	Title (e.g. "Mr.", "Mrs.", "company")
title	-	AN120	Title (e.g. "Dr", "Prof.")
firstname	0	AN150	First name (optional if company is used)
			Mandatory for payment type KLV, KLS
lastname	+	AN250	Surname
company	-	AN250	Company
street	-	AN150	Street number and name
			(required: at least one character)
			Mandatory for payment type KLV, KLS
addressaddition	-	AN150	Address line 2 (e.g. "7 th floor", "c/o Maier")
			Mandatory for payment type KLV, KLS NL
zip	_	AN210	Postcode



Parameter	Required	Format	Comment
city	-	AN250	City
			Mandatory for payment type KLV, KLS
country	+	Default	Country (ISO 3166)
state	-	Default	State (ISO 3166-2 subdivisions)
			(only if country=US, CA, CN, JP, MX, BR, AR, ID, TH, IN)
email	-	AN50	Email address
			Mandatory for payment type BSV, KLV, KLS
telephonenumber	-	AN30	Telephone number
birthday	-	N8	Date of birth (YYYYMMDD)
			Mandatory for payment type KLV, , KLS
language	-	Default	Language indicator (ISO 639)
			Mandatory for payment type KLV, KLS
			KLV, KLS support sv, nb (norwegian), fi, da, de, nl
vatid	-	AN50	VAT identification number
gender	-	Default	f=female, m=male
			Mandatory for payment type KLV, KLS DE, NL, AT
personalid	-	AN32	Person specific numbers or characters
			Mandatory for payment type KLV, KLS SE, FI, DK, NO Format/allowed characters: A-Z, a-z, 0-9, +/()
ip	-	AN39	Customer's IP-V4-address (123.123.123.123) or IP-V6-address
			Mandatory for payment type KLV, KLS
Parameter (delivery data)	1	
shipping_firstname	-	AN50	First name
shipping_lastname	-	AN50	Surname
shipping_company	-	AN50	Company
shipping_street	-	AN150	Street number and name (required: at least one character)
shipping_zip	-	AN210	Postcode
shipping_city	-	AN250	City
shipping_state	-	Default	State (ISO 3166-2 subdivisions)
			(only if country=US, CA, CN, JP, MX, BR, AR, ID, TH, IN)
			Mandatory for PPE if shipping_country listed above
shipping_country	-	Default	Country (ISO 3166)
Parameter (debit paymer	nt)		
iban	0	AN35	International Bank Account Number
			Only capital letters, no spaces
			If both (BBAN and IBAN) are submitted, IBAN is splitted into BBAN and processed.
bic	0	AN11	Bank Identifier Code



Parameter	Required	Format	Comment
			Only capital letters, no spaces
bankcountry	0	Default	Account type/ country
			For use with BBAN: DE
			Mandatory with bankcode, bankaccount
			Optional with iban/bic as bankcountry will be determined by iban
bankaccount	О	N10	Account number (BBAN)
			DE only: IBAN/BIC can be calculated by PAYONE platform automatically given by bankcode/bankaccount
bankcode	О	N8	Sort code (BBAN) (only in DE)
			DE only: IBAN/BIC can be calculated by PAYONE platform automatically given by bankcode/bankaccount (BBAN)
bankaccountholder	0	AN35	Account holder
mandate_identification	0	AN35	Can be used to enforce a merchant specific mandate identification. The mandate_identification must be unique. Allowed characters: A-Z a-z 0-9 + ()
			If the mandate_identification is not set PAYONE will create a unique mandate identification (pattern: PO-nnnnnnnnnn).
			PPS: This parameter must not be used!
Parameter (online transfer)		
onlinebanktransfertype	+	Default	PNT Sofortbanking (DE, AT, CH, NL)
			GPY giropay (DE)
			EPS eps – online transfer (AT)
			PFF PostFinance E-Finance (CH)
			PFC PostFinance Card (CH)
			IDL iDEAL (NL)
			P24 Przelewy24 (PL)
bankcountry	+	Default	Account type/ country (DE, AT, CH, NL, PL)
bankaccount ⁶	0	N10	Account number (giropay & Sofortbanking only) DE only: IBAN/BIC can be calculated by PAYONE

⁶ Can be omitted for OBT/PNT (Sofortbanking) from 2016-10-01 on as bank data are received from SOFORT and stored for later credits (processed as SEPA-credit).



Request "preauthorization"				
Parameter	Required	Format	Comment	
bankcode ⁵	0	N8	Sort code (giropay & Sofortbanking only) DE only: IBAN/BIC can be calculated by PAYONE	
bankgrouptype	0	Default	Bank Group (see chapter 5)	
			(eps & iDEAL only)	
iban ⁵	0	AN35	International Bank Account Number	
			Only capital letters, no spaces	
			If both (BBAN and IBAN) are submitted, IBAN is splitted into BBAN and processed.	
bic ⁵	0	AN11	Bank Identifier Code	
			Only capital letters, no spaces	
successurl	0	AN255	URL "payment successful"	
			(only if responsetype=REDIRECT or required by corresponding request)	
errorurl	0	AN255	URL "faulty payment"	
			(only if responsetype=REDIRECT or required by corresponding request)	
backurl	0	AN255	URL "Back" or "Cancel"	
			(only if responsetype=REDIRECT or required by corresponding request)	
		1	I .	



Parameter	Required	Format	Comment
Parameter (e-wallet)			
wallettype	+	Default	Wallet provider
			PPE: PayPal Express
successurl	0	AN255	URL "payment successful"
			(only if responsetype=REDIRECT or required by corresponding request)
errorurl	О	AN255	URL "payment faulty"
			(only if responsetype=REDIRECT or required by corresponding request)
backurl	О	AN255	URL "Back" or "Cancel"
			(only if responsetype=REDIRECT or required by corresponding request)
it[n]	0	Default	For PPE: Item type
			goods Goods
			shipment Shipping charges
			handling Handling fee
id[n]	О	AN32	Product number, order number, etc.
			Permitted symbols: 0-9 a-z A-Z ()[]{} +#/:
pr[n]	0	N8	Unit price
			(in smallest currency unit! e.g. cent)
no[n]	0	N3	Quantity
de[n]	0	AN255	Description (on invoice)
			For PPE maximum 127 characters are allowed.
va[n]	0	N4	VAT rate (% or bp)
			value < 100 = percent
			value > 99 = basis points (e.g. 1900 = 19%)
Parameter (cash on deli	very)	1	
shippingprovider	+	Default	Shipping company
			DHL: DHL, Germany
			BRT: Bartolini, Italy
Parameter (credit card)	,	•	
cardpan	+	N19	Card number
cardtype	+	Default	Card type
			V Visa
			M MasterCard
			A American Express
			D Diners
			J JCB
			O Maestro International
			C Discover



Parameter	Required	Format	Comment
			B Carte Bleue
			P China Union Pay ⁷
cardexpiredate	+	N4	Expiry date YYMM
cardcvc2	0	N4	Credit verification number (CVC)
cardissuenumber	-	N2	Card issue number (only Maestro UK cards)
cardholder	-	AN50	Card holder
ecommercemode	-	Default	Credit card transaction type:
			internet eCommerce Transaction (SSL secured)
			3dsecure 3-D Secure transaction (can be enabled alternatively in the risk settings)
			moto Mail or telephone order transaction
successurl	О	AN255	URL "payment successful"
			(only if 3-D secure has been activated)
errorurl	О	AN255	URL "faulty payment"
			(only if 3-D secure has been activated)
Parameter (credit card v	with pseudo card n	umber)	
pseudocardpan	+	N19	Pseudo card number
			(This card number can be submitted alternatively to the rest of the card data)
Parameter (Financing)			
financingtype	+	Default	Financing type
			BSV BillSAFE Invoice
			KLV Klarna Invoice
			KLS Klarna Installment
it[n]	+	Default	For BSV / KLV / KLS: Item type
			goods Goods
			shipment Shipping charges
			handling Handling fee
			voucher Voucher / discount
			Note:
			Item type "handling" only available after assignment by BillSAFE.
id[n]	+	AN32	Product number, order number, etc.
			Permitted symbols:
			0-9 a-z A-Z ()[]{} +#/:

 $^{^{\}rm 7}$ China Union Pay is under preparation and is expected to be available by 2016-10-01



Parameter	Required	Format	Comment
pr[n]	+	N8	Unit price
			(in smallest currency unit! e.g. cent)
no[n]	+	N3	Quantity
de[n]	+	AN255	Description (on invoice)
			Note:
			For BSV maximum 100 characters are allowed
va[n]	-	N4	VAT rate (% or bp)
			value < 100 = percent
			value > 99 = basis points (e.g. 1900 = 19%)
			Mandatory for payment type KLV, KLS
Key	1	1	1
Nx	Numeric va	alue (x chara	acters maximum)
ANx	Alphanumeric value (x characters maximum)		

Response "preauthoriz	ation"		
Parameter	Required	Format	Comment
status	+	Default	APPROVED / REDIRECT / ERROR / PENDING
Parameter (APPROVED)		
txid	+	N12	Payment process ID (PAYONE)
userid	+	N12	Debtor ID (PAYONE)
Parameter (PENDING)8	(currently only sup	ported for K	KLV/KLS)
txid	+	N12	Payment process ID (PAYONE)
userid	+	N12	Debtor ID (PAYONE)
Parameter (REDIRECT)	(3-D Secure/online	transfer/e-w	vallet)
txid	+	N12	Payment process ID (PAYONE)
userid	+	N12	Debtor ID (PAYONE)
redirecturl	+	AN255	Redirect URL
Parameter (ERROR)			
errorcode	+	N6	Error number
errormessage	+	AN1024	Error message for the merchant

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⁸ New response value – only available with "api_version=3.9". Indicates that a payment process is pending at external payment processor. If "api_version=3.8" or not present then "APPROVED" is returned for compatibility.



customermessage	-	AN1024	Error message for the end customer
			(Language selection is based on the end
			customer's language, "language")
			With "api_version>=3.10" you may get more
			detailed error messages from the external
			payment processor (e.g. Ratepay)
Parameter (credit card – if A\	/S has been	ordered ⁹)	
protect_result_avs	-	A1	AVS return value, see chapter 5.3
Parameter (Prepayment/cash	on delivery	')	
clearing_bankaccountholder	+	AN35	Recipient bank account holder
clearing_bankcountry	+	Default	Recipient account type/ country
			(e.g. DE, AT, etc.)
clearing_bankaccount	+	AN26	Recipient account number
clearing_bankcode	0	AN11	Recipient sort code
clearing_bankiban	-	AN35	Recipient IBAN
clearing_bankbic	-	AN11	Recipient BIC
clearing_bankcity	-	AN50	Recipient city or bank
clearing_bankname	-	AN50	Recipient bank name
Parameter (direct debit ¹⁰)			
mandate_identification	-	AN35	used mandate_identification for debit payment
mandate_dateofsignature	-	N10	date when mandate has been created
			(format YYYYMMDD)
creditor_identifier	-	AN35	used CID for debit payment
creditor_name	-	AN35	as recorded in PAYONE Platform
creditor_street	-	AN35	as recorded in PAYONE Platform
creditor_zip	-	AN10	as recorded in PAYONE Platform
creditor_city	-	AN50	as recorded in PAYONE Platform
creditor_country	-	Default	Country (ISO 3166)
creditor_email	-	AN50	as recorded in PAYONE Platform

⁹ AVS (Address Verification System) is currently only supported for American Express

¹⁰ Parameter "mandate_identification" will not be provided currently to prevent declined requests by merchant systems that do not expect these key/values by now. Parameter has to be enabled in PMI, Configuration, Payment portals, General: "Additional response-data" for mode test and live.



3.2.2 Initiating payment process (authorization)

With the "authorization" request the payment process is initiated. According to the type of payment, specific functions are carried out.

This request is <u>only</u> available in the "Shop" version.

Credit card Card data is verified

Card is charged immediately

Debit payment Account data is verified

Debit payment is carried out

Online transfer session is initialised

Amount will be charged to the account directly after payment is completed

e-wallet E-wallet session is initialised

Amount will be charged to the account directly after payment is completed

Prepayment Not supported by this request!

Invoice Payment process is initialised

PAYONE Business

The request is booked to the transaction account immediately after the successful payment. The time of payment therefore depends on the type of payment. The only exception is the invoice - in this case the request is booked immediately independent of the payment.

The TransactionStatus informs you about the status of the requests. The TransactionStatus communicates, among other things, incoming payments when using the payment type invoice/prepayment and return debit notes or chargebacks if applicable (see chapter 4.2).

Module invoicing

For invoicing via PAYONE Platform you must submit all items that shall appear on the invoice. To do so, submit the parameters id[n], pr[n], no[n], de[n], va[n]. Start with item n=1. For all following articles use n=2, n=3, and so on. Accordingly, id[2], pr[2], no[2], de[2], va[2] are the parameters for item 2, and so on.

Attention: If a parameter is missing, the whole item will not be considered!



Parameter	Required	Format	Comment
aid	+	N6	Sub account ID
clearingtype	+	Default	elv Debit payment
			cc Credit card
			rec Invoice
			cod Cash on delivery
			sb Online Bank Transfer
			wlt e-wallet
			fnc Financing
reference	+	AN20	Merchant reference number for the payment
			process
			(Permitted symbols: 0-9, a-z, A-Z, .,-,_,/)
			special limits / restrictions:
			GPY min./max: AN 416
amount	+	N7	Total amount in cent
			(in smallest currency unit! e.g. cent)
currency	+	Default	Currency (ISO 4217)
param	-	AN1255	Individual parameter
narrative_text	-	AN181	Dynamic text element on account statements
			(3 lines with 27 characters each) and credit card statements.
Parameter (PAYONE Busines	ss)		
document_date	-	N8	Document date (YYYYMMDD)
booking_date	-	N8	booking date (YYYYMMDD)
due_time	-	N11	Due date (Unixtimestamp)
			meaning by clearingtype:
			rec due time of the invoice; needed to start dunning run
			elv debit will be initiated on this date.
			Please pay attention that 5 or 2 days
			are added to the due_time – depending on FIRST or RECURRENT
			debit.
Parameter (BillSAFE, module	e Invoicing)		I
invoiceid	_	AN20	Merchant's invoice number
invoice deliverymode	_	Default	M Post
			P PDF (via email)
invoice_deliverydate	-	N8	Delivery date (YYYYMMDD)
invoice_deliveryenddate	_	N8	Delivery period end date (YYYYMMDD)
invoiceappendix	-	AN255	Dynamic text on the invoice
it[n]	+	Default	For BSV / KLV / KLS: Item type
ıt[n]		_ = = = = = = = = = = = = = = = = = = =	goods Goods



Parameter	Required	Format	Comment
			shipment Shipping charges
			handling Handling fee
			voucher Voucher / discount
			Note:
			Item type "handling" only available after assignment by BillSAFE.
id[n]	+	AN32	Product number, order number, etc.
			Permitted symbols: 0-9 a-z A-Z ()[]{} +#/:
pr[n]	+	N8	Unit price
			(in smallest currency unit! e.g. cent)
no[n]	+	N3	Quantity
de[n]	+	AN255	Description (on invoice)
			For BSV maximum 100 characters are processed.
			For PPE maximum 127 characters are processed.
va[n]	-	N4	VAT rate (% or bp)
			Mandatory for payment type KLV, KLS
sd[n]	-	N8	Delivery date (YYYYMMDD)
ed[n]	-	N.8	Delivery period end date (YYYYMMDD)
Parameter (personal data)		
customerid	-	AN120	Merchant's customer ID
			(Permitted symbols: 0-9, a-z, A-Z, .,-,_,/)
userid	-	N612	Debtor ID (PAYONE)
			userid must already exist and mode (test/live) must must match.
			If userid is used then personal data are loaded automatically.
salutation	-	AN110	Title (e.g. "Mr", "Mrs", "company")
title	-	AN120	Title (e.g. "Dr", "Prof.")
firstname	0	AN150	First name (optional if company is used)
			Mandatory for payment type KLV, KLS
lastname	+	AN250	Surname
company	-	AN250	Company
street	-	AN150	Street number and name (required: at least one character)
			Mandatory for payment type KLV, KLS
addressaddition	-	AN150	Address line 2 (e.g. "7 th floor", "c/o Maier")
			Mandatory for payment type KLV, KLS in NL
zip	-	AN210	Postcode
			Mandatory for payment type KLV, KLS
city	_	AN250	City



Parameter	Required	Format	Comment
			Mandatory for payment type KLV, KLS
state	-	Default	State (ISO 3166-2 subdivisions)
			(only if country=US, CA, CN, JP, MX, BR, AR, ID, TH, IN)
country	+	Default	Country (ISO 3166)
email	-	AN50	Email address
			Mandatory for payment type BSV, KLV
telephonenumber	-	AN30	Telephone number
			Mandatory for payment type KLV, KLS
birthday	-	N8	Date of birth (YYYYMMDD)
			Mandatory for payment type KLV, KLS
language	-	Default	Language indicator (ISO 639)
			Mandatory for payment type KLV, KLS
			KLV, KLS support sv, nb (norwegian), fi, da, de, nl
vatid	-	AN50	VAT identification number
gender	-	Default	f=female, m=male
			Mandatory for payment type KLV, KLS DE, NL, AT
personalid	-	AN32	Person specific numbers or characters
			Mandatory for payment type KLV, KLS SE, FI, DK, NO Format/allowed characters: A-Z, a-z, 0-9, +/()
ip	-	AN39	Customer's IP-V4-address (123.123.123.123) or IP-V6-address
			Mandatory for payment type KLV, KLS
Parameter (delivery data)		
shipping_firstname	-	AN50	First name
shipping_lastname	-	AN50	Surname
shipping_company	-	AN50	Company
shipping_street	-	AN150	Street number and name (required: at least one character)
shipping_zip	-	AN210	Postcode
shipping_city	-	AN250	City
shipping_state	-	Default	State (ISO 3166-2 subdivisions)
			(only if country=US, CA, CN, JP, MX, BR, AR, ID, TH, IN)
			Mandatory for PPE if shipping_country listed abov
shipping_country	-	Default	Country (ISO 3166)
Parameter (debit paymen	nt)		
iban	О	AN35	International Bank Account Number
			Only capital letters, no spaces
			If both (BBAN and IBAN) are submitted, IBAN is splitted into BBAN and processed.



Parameter	Required	Format	Comment
bic	0	AN11	Bank Identifier Code
			Only capital letters, no spaces
bankcountry	0	Default	Account type/ country
			For use with BBAN: DE
			Mandatory with bankcode, bankaccount
			Optional with iban/bic as bankcountry will be determined by iban
bankaccount	0	N10	Account number (BBAN)
			DE only: IBAN/BIC can be calculated by PAYONE platform automatically given by bankcode/bankaccount
bankcode	О	N8	Sort code (BBAN) (only in DE)
			DE only: IBAN/BIC can be calculated by PAYONE platform automatically given by bankcode/bankaccount (BBAN)
bankaccountholder	-	AN35	Account holder
mandate_identification	0	AN35	Can be used to enforce a merchant specific mandate identification. The mandate_identification has to be unique. Allowed characters: A-Z a-z 0-9 + ()
			If the mandate_identification is not set PAYONE will create a unique mandate identification.
			PPS: This parameter must not be used!
Parameter (online transfer)		
onlinebanktransfertype	+	Default	PNT Sofortbanking (DE, AT, CH, NL)
			GPY giropay (DE)
			EPS eps – online transfer (AT)
			PFF PostFinance E-Finance (CH)
			PFC PostFinance Card (CH)
			IDL iDEAL (NL)
			P24 Przelewy24 (PL)
bankcountry	+	Default	Account type/ country
			(DE, AT, CH, NL, PL)
bankaccount ¹¹	0	N10	Account number (giropay & Sofortbanking only) DE only: IBAN/BIC can be calculated by PAYONE

 $^{^{11}}$ Can be omitted for OBT/PNT (Sofortbanking) from 2016-10-01 on as bank data are received from SOFORT and stored for later credits (processed as SEPA-credit).



Parameter	Required	Format	Comment
bankcode ¹⁰	0	N8	Sort code (giropay & Sofortbanking only) DE only: IBAN/BIC can be calculated by PAYONE
bankgrouptype	0	Default	Bank Group (see chapter 5)
			(eps & iDEAL only)
iban ¹⁰	0	AN35	International Bank Account Number
			Only capital letters, no spaces
			If both (BBAN and IBAN) are submitted, IBAN is splitted into BBAN and processed.
bic ¹⁰	0	AN11	Bank Identifier Code
			Only capital letters, no spaces
successurl	0	AN255	URL "payment successful"
			(only if responsetype=REDIRECT or required by corresponding request)
errorurl o	0	AN255	URL "faulty payment"
			(only if responsetype=REDIRECT or required by corresponding request)
backurl o	0	AN255	URL "Back" or "Cancel"
		(only if responsetype=REDIRECT or required by corresponding request)	
Parameter (e-wallet)			
wallettype	+	Default	Wallet provider
			PPE: PayPal Express
successurl	0	AN255	URL "payment successful"
			(only if responsetype=REDIRECT or required by corresponding request)
errorurl	0	AN255	URL "faulty payment"
			(only if responsetype=REDIRECT or required by corresponding request)
backurl	0	AN255	URL "Back" or "Cancel"
			(only if responsetype=REDIRECT or required by corresponding request)
Parameter (cash on deli	very)		
shippingprovider	+	Default	Shipping company
			DHL: DHL, Germany
			BRT: Bartolini, Italy
Parameter (credit card)		1	1
cardpan	+	N19	Card number
cardtype	+	Default	Card type
			V Visa
			M MasterCard
			A American Express



Parameter	Required	Format	Comment	
			D Diners	
			J JCB	
			O Maestro International	
			C Discover	
			B Carte Bleue	
			P China Union Pay ¹²	
cardexpiredate	+	N4	Expiry date YYMM	
cardcvc2	0	N4	Credit verification number (CVC)	
cardissuenumber	-	N2	Card issue number (only Maestro UK cards)	
cardholder	-	AN50	Card holder	
ecommercemode	-	Default	Credit card transaction type:	
			internet eCommerce Transaction (SSL secured)	
			3dsecure 3-D Secure transaction (can be enabled alternatively in the risk settings)	
			moto Mail or telephone order transaction	
successurl	0	AN255	URL "payment successful"	
			(only if responsetype=REDIRECT or required by corresponding request)	
errorurl	0	AN255	URL "faulty payment"	
			(only if responsetype=REDIRECT or required by corresponding request)	
Parameter (credit card v	vith pseudo card n	umber)		
pseudocardpan	+	N19	Pseudo card number	
			(This card number can be submitted alternatively to the rest of the card data)	
Key	I	I.	1	
Nx	Numeric va	alue (x char	acters maximum)	
ANx	A1 1	Alphanumeric value (x characters maximum)		

 $^{^{\}rm 12}$ China Union Pay is under preparation and is expected to be available by 2016-10-01



Response "authorization"			
Parameter	Required	Format	Comment
status	+	Default	APPROVED / REDIRECT / ERROR / PENDING
Parameter (APPROVED)		1	
txid	+	N12	Payment process ID (PAYONE)
userid	+	N12	Debtor ID (PAYONE)
Parameter (PENDING ¹³)			
txid	+	N12	Payment process ID (PAYONE)
userid	+	N12	Debtor ID (PAYONE)
Parameter (REDIRECT) (3-D Se	cure/online t	ransfer/e-w	rallet)
txid	+	N12	Payment process ID (PAYONE)
userid	+	N12	Debtor ID (PAYONE)
redirecturl	+	AN255	Redirect URL
Parameter (ERROR)		1	
errorcode	+	N6	Error number
errormessage	+	AN1024	Error message
customermessage	-	AN1024	Error message for the end customer
			(Language selection is based on the end
			customer's language, "language")
			With "api_version>=3.10" you may get more
			detailed error messages from the external
Parameter (credit card – if AV	'S has been o	rdered ¹⁴)	payment processor (e.g. Ratepay)
	J ilas beeli o		AVC vature value and shouter 5.2
protect_result_avs	. , .	A1	AVS return value, see chapter 5.3
Parameter (prepayment/invo	ice/cash on c	delivery)	
clearing_bankaccountholder	+	AN35	Recipient bank account holder
clearing_bankcountry	+	Default	Recipient account type/ country
			(e.g. DE, AT, etc.)
clearing_bankaccount	+	AN26	Recipient account number
clearing_bankcode	0	AN11	Recipient sort code
clearing_bankiban	-	AN35	Recipient IBAN
clearing_bankbic	-	AN11	Recipient BIC
clearing_bankcity	-	AN50	Recipient city or bank
clearing_bankname	-	AN50	Recipient bank name

Technical Reference PAYONE Platform Client API Version 1.34

¹³ New response value – only available with "api_version=3.9". Indicates that a payment process is pending at external payment processor. If "api_version=3.8" or not present then "APPROVED" is returned for compatibility.

 $^{^{14}}$ AVS (Address Verification System) is currently only supported for American Express



clearing_instructionnote	0	AN200	For BSV: Note to payment handling For KLV, KLS: A URL pointing to a PDF of the invoice (If invoice by post or by e-mail isn't activated). The URL is valid for 30 days.
Parameter (direct debit ¹⁵)		·	
mandate_identification	-	AN35	used mandate_identification for debit payment
mandate_dateofsignature	-	N10	date when mandate has been created
			(format YYYYMMDD)
creditor_identifier	-	AN35	used CID for debit payment
creditor_name	-	AN35	as recorded in PAYONE Platform
creditor_street	-	AN35	as recorded in PAYONE Platform
creditor_zip	-	AN10	as recorded in PAYONE Platform
creditor_city	-	AN50	as recorded in PAYONE Platform
creditor_country	-	Default	Country (ISO 3166)
creditor_email	-	AN50	as recorded in PAYONE Platform
clearing_date	-	N8	only provided if due_time is not specified
clearing_amount	-	N10	only provided if due_time is not specified

¹⁵ Parameters will not be provided currently to prevent declined requests by merchant systems that do not expect these key/values by now. Parameters have to be enabled in PMI, Configuration, Payment portals, General: "Additional responsedata" for mode test and live. Settings will be available by end of November.



3.2.3 Creating a contract (createaccess)

For processing a purchase transaction in connection with session management or with initiating a subscription

This request is only available with the version "Access".

Important notes:

- For the time-based settlement of goods or subscriptions you must first create offers in your merchant area.
- You have the option to submit values that overwrite the settings for the offer used (e.g. price, term, etc.). These optional submitted values will be used for all following periods of this contract. The original offer is not changed.
- If the time at which access is first granted is in the future or the initial term is free of charge, a
 reservation, which will later be cancelled automatically, is carried out. The amount for the
 reservation is one payment unit (e.g. 1 EUR). This procedure is simply used to verify the
 customer's payment data and to check the customer data using risk checks, provided that these
 are active. The first "real" booking will be effected at the start of the first period that requires a
 charge.
- The periods (defined by "period_unit_trail", "period_length_trail", "period_unit_recurring", "period_length_ recurring") are limited to 36 months / 1095 days maximum.



Parameter	Required	Format	Comment
aid	+	N6	Sub account ID
clearingtype	+	Default	elv Debit payment
			cc Credit card
			rec Invoice
reference	+	AN20	Merchant reference number for the payment process.
			(Permitted symbols: 0-9, a-z, A-Z, .,-,_,/)
			special limits / restrictions:
			GPY min/max: AN 416
productid	+	N7	ID for the offer
param	-	AN1255	Individual parameter
			(This parameter is passed on to all follow-up bookings of the same contract)
accessname	-	AN32	Customer's user name
accesscode	-	AN32	Customer's password
access_starttime	-	N11	Access starting date as Unixtimestamp
access_expiretime	-	N11	Expiry date of the initial term as Unixtimestamp (e.g. date of first renewal)
			-> should not be used. Please use "period_unit_trail", "period_length_trail" instead
			-> do not use with "period_unit_trail", "period_length_trail"
access_canceltime	-	N11	Date of cancellation as Unixtimestamp in the future (after this date no further renewals will be carried out)
amount_trail	0	N6	Total amount for initial term
			Must equal the sum (quantity x price) of all items for the initial term.
			(in smallest currency unit! e.g. cent)
			Required when item is submitted.
			Amount can be "0" (e.g. for test period).
period_unit_trail	-	Default	Time unit for initial term, possible values:
_ _			Y Value "length" is in years
			M Value "length" is in months
			D Value "length" is in days
			Do not use with "access_expiretime".
			Do not exceed 3 years / 36 months / 1095 days.
period_length_trail	0	N4	Duration of the initial term. Can only be used in combination with period_unit_trail.
			Required when period_unit_trail is submitted.
			Do not use with "access_expiretime"



Parameter	Required	Format	Comment
amount_recurring	0	N6	Total amount of all items of one period during the subsequent term (in smallest currency unit! e.g. cent) Must equal the sum (quantity x price) of all items during the subsequent term.
			Required when item is submitted. Amount must not be "0".
period_unit_recurring	-	Default	Time unit for subsequent term, possible values: Y Value "length" is in years M Value "length" is in months D Value "length" is in days N No subsequent term given Do not exceed 3 years / 36 months / 1095 days.
period_length_recurring	0	N3	Duration of the subsequent term. Can only be used in combination with period_unit_recurring. Required when period_length_recurring is submitted.
Parameter (Billing)			
vaccountname	+	AN120	ID/name of the merchant's billing account (allowed characters: 0-9, a-z, A-Z, .,-,_/)
settle_period_length	+	N13	Length of the accounting period
settle_period_unit	+	Default	Time unit of the accounting period, possible values: Y Value "length" is in years M Value "length" is in months D Value "length" is in days
settletime	-	N10	Date for the next invoicing Unixtimestamp in the future.
payout_open_balance	-	Default	Credits will be booked on the most recent payment process. yes Amount will be credited immediately (default) no Credited amount will be offset with the subsequent transaction
Parameter (Invoicing)	1	1	
invoice_deliverymode	-	Default	M Post P PDF (via email)
invoiceappendix	-	AN255	Dynamic text on the invoice
id_trail[n]	+	AN32	Item number (initial term) Permitted symbols: 0-9 a-z A-Z ()[]{} +#/:
no_trail[n]	+	N5	Quantity (initial term)



Parameter	Required	Format	Comment
pr_trail[n]	+	N7	Unit price of the item in smallest currency unit (initial term)
de_trail[n]	+	AN255	Description (initial term)
va_trail[n]	-	N4	VAT rate (% or bp) (initial term) value <= 99 = per cent
			value > 99 = basis points (e.g. 1900 = 19%)
ti_trail[n]	-	AN100	Title (initial term)
id_recurring[n]	+	AN32	Item number (subsequent term) Permitted symbols: 0-9 a-z A-Z ()[]{} +#/:
no_recurring[n]	+	N5	Quantity (subsequent term)
pr_recurring[n]	+	N7	Unit price of the item in smallest currency unit (subsequent term)
de_recurring[n]	+	AN255	Description (subsequent term)
va_recurring[n]	-	N4	VAT rate (% or bp) (subsequent term)
			value <= 99 = per cent
			value > 99 = basis points (e.g. 1900 = 19%)
ti_recurring[n]	-	AN100	Title (subsequent term)
Parameter (personal da	ta)		
customerid	-	AN120	Merchant's customer ID
			(Permitted symbols: 0-9, a-z, A-Z, .,-,_,/)
userid	-	N612	Debtor ID (PAYONE)
			userid must already exist and mode (test/live) must must match.
			If userid is used then personal data are loaded automatically.
salutation	-	AN110	Title (e.g. "Mr", "Mrs", "company")
title	-	AN120	Title (e.g. "Dr", "Prof.")
firstname	0	AN150	First name (optional if company is used)
lastname	+	AN250	Surname
company	-	AN250	Company
street	-	AN150	Street number and name (required: at least one character)
addressaddition	-	AN150	Address line 2 (e.g. "7 th floor", "c/o Maier")
zip	-	AN210	Postcode
city	-	AN250	City
country	+	Default	Country (ISO 3166)
email	-	AN50	Email address
			Mandatory for payment type BSV



Parameter	Required	Format	Comment
birthday	-	N8	Date of birth (YYYYMMDD)
language	-	Default	Language indicator (ISO 639)
vatid	_	AN50	VAT ident, number
ip	-	AN39	Customer's IP-V4-address (123.123.123.123) or IP- V6-address
Parameter (debit payment	:)	1	
iban	0	AN35	International Bank Account Number
			Only capital letters, no spaces
			If both (BBAN and IBAN) are submitted, IBAN is splitted into BBAN and processed. BBAN parameters are ignored.
bic	0	AN11	Bank Identifier Code
			Only capital letters, no spaces
bankcountry o	0	Default	Account type/ country
			For use with BBAN: DE
			Mandatory with bankcode, bankaccount
			Optional with iban/bic as bankcountry will be determined by iban
bankaccount	О	N10	Account number (BBAN)
			DE only: IBAN/BIC can be calculated by PAYONE platform automatically given by bankcode/bankaccount
bankcode	0	N8	Sort code (BBAN) (only in DE)
			DE only: IBAN/BIC can be calculated by PAYONE platform automatically given by bankcode/bankaccount (BBAN)
bankaccountholder	-	AN35	Account holder
mandate_identification	0	AN35	Can be used to enforce a merchant specific mandate identification. The mandate_identification has to be unique. Allowed characters: A-Z a-z 0-9 + () If the mandate_identification is not set PAYONE will create an unique mandate identification.
			PPS: This parameter must not be used!
Parameter (credit card)	I	1	
cardpan	+	N19	Card number
cardtype	+	Default	Card type V Visa M MasterCard A American Express D Diners



Parameter	Required	Format	Comment
			O Maestro International
			C Discover
			B Carte Bleue
			P China Union Pay ¹⁶
cardexpiredate	+	N4	Expiry date YYMM
cardcvc2	0	N4	Credit verification number (CVC)
cardissuenumber	-	N2	Card issue number (only Maestro UK cards)
cardholder	-	AN50	Card holder
pseudocardpan	0	N19	Pseudo card number
			(This card number can be submitted alternatively to the rest of the card data)
Key	1	ı	
Nx	Numeric v	alue (x char	acters maximum)
ANx	Alphanumeric value (x characters maximum)		

^{* 3-}D Secure protection is only available for the first payment. Access for this may not be in the future.

Response "createaccess"			
Parameter	Required	Format	Comment
status	+	Default	APPROVED / ERROR
Parameter (APPROVED)		1	
txid	+	N12	Payment process ID (PAYONE)
userid	+	N12	Debtor ID (PAYONE)
accessid	+	N12	Access ID (PAYONE)
Parameter (ERROR)		1	
errorcode	+	N6	Error number
errormessage	+	AN1024	Error message
customermessage	-	AN1024	Error message for the end customer
			(Language selection is based on the end customer's language, "language")

 $^{^{16}}$ China Union Pay is under preparation and is expected to be available by 2016-10-01





3.2.4 Initiating payment process on a virtual account (vauthorization)

For booking a request on a virtual account.

PAYONE Platform can automatically initiate a settlement to settle the balance of the account.

This option is available in the "Shop" and "Access" option.



Parameter	Required	Format	Comment
aid	+	N6	Sub account ID
clearingtype	+	Default	elv Debit payment
			cc Credit card
			rec Invoice
vreference	+	AN20	Merchant's transaction reference number
			(Permitted symbols: 0-9, a-z, A-Z, .,-,/)
vaccountname	+	AN120	ID/name of the merchant's billing account
			(Permitted symbols: 0-9, a-z, A-Z, .,-,_,/)
amount	+	N7	Total amount (in smallest currency unit! e.g. cent)
currency	+	Default	Currency (ISO 4217)
settle_period_length	+	N13	Length of the accounting period
settle_period_unit	+	Default	Time unit of the accounting period, possible values:
			Y: Value in years
			M: Value in months
			D: Value in days
settletime	-	N10	Date of the next automatic invoice (Unixtimestamp)
payout_open_balance	-	Default	Credits will be booked on the most recent paymen process.
			yes: Amount will be credited immediately
			no: Credited amount will be offset with the subsequent transaction
			default: Value given with request for "createaccess"
param	-	AN1255	Individual parameter
Parameter (Invoicing)			
invoice_deliverymode		Default	M Post
5.55_45.1761 ; 111046			P PDF (via email)
			N no delivery
id[n]	+	AN32	Product number, order number, etc.
			Permitted symbols:
			0-9 a-z A-Z ()[]{} +#/:
pr[n]	+	N8	Unit price (in smallest currency unit! e.g. cent)
no[n]	+	N3	Quantity
de[n]	+	AN255	Description (on invoice)
va[n]	-	N4	VAT rate (% or bp)
Parameter (personal data)	1	
customerid	-	AN120	Merchant's customer ID
			(Permitted symbols: 0-9, a-z, A-Z, .,-,_,/)



Request "vauthorization"			
Parameter	Required	Format	Comment
userid	-	N612	Debtor ID (PAYONE)
			userid must already exist and mode (test/live) must must match.
			If userid is used then personal data are loaded automatically.
salutation	-	AN110	Title (e.g. "Mr", "Mrs", "company")
title	-	AN120	Title (e.g. "Dr", "Prof.")
firstname	0	AN150	First name (optional if company is used)
lastname	+	AN250	Surname
company	-	AN250	Company
street	-	AN150	Street number and name (required: at least one character)
addressaddition	-	AN150	Address line 2 (e.g. "7 th floor", "c/o Maier")
zip	-	AN210	Postcode
city	-	AN250	City
country	+	Default	Country (ISO 3166)
email	-	AN50	Email address
			Mandatory for payment type BSV
telephonenumber	-	AN30	Telephone number
birthday	-	N8	Date of birth (YYYYMMDD)
language	-	Default	Language indicator (ISO 639)
vatid	-	AN50	VAT ident. number
ip	-	AN39	Customer's IP-V4-address (123.123.123.123) or IP- V6-address
Parameter (debit payme	nt)		
iban	0	AN35	International Bank Account Number
			If both (BBAN and IBAN) are submitted, IBAN is splitted into BBAN and processed. BBAN parameters are ignored.
bic	0	AN11	Bank Identifier Code
			Only capital letters, no spaces
bankcountry	0	Default	Account type/ country
			For use with BBAN: DE
			Mandatory with bankcode, bankaccount
			Optional with iban/bic as bankcountry will be determined by iban
bankaccount	0	N10	Account number (BBAN)
			DE only: IBAN/BIC can be calculated by PAYONE platform automatically given by bankcode/bankaccount
bankcode	0	N8	Sort code (BBAN) (only in DE)



Parameter	Required	Format	Comment	
			DE only: IBAN/BIC can be calculated by PAYONE platform automatically given by bankcode/bankaccount (BBAN)	
bankaccountholder	-	AN35	Account holder	
mandate_identification	0	AN35	Can be used to enforce a merchant specific mandate identification. The mandate_identification has to be unique. Allowed characters: A-Z a-z 0-9 + ()	
			Only capital letters, no spaces	
			If the mandate_identification is not set PAYONE will create an unique mandate identification.	
			PPS: This parameter must not be used!	
Parameter (credit card)	1			
cardpan	+	N19	Card number	
cardtype	+	Default	Card type	
			V Visa	
			M MasterCard	
			A American Express	
			D Diners	
			J JCB	
			O Maestro International	
			C Discover	
			B Carte Bleue	
			P China Union Pay ¹⁷	
cardexpiredate	+	N4	Expiry date YYMM	
cardcvc2	0	N4	Credit verification number (CVC)	
cardissuenumber	-	N2	Card issue number (only Maestro UK cards)	
cardholder	-	AN50	Card holder	
Кеу	1			
Nx	Numeric va	alue (x char	acters maximum)	
ANx	Alphanum	Alphanumeric value (x characters maximum)		

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 $^{^{17}}$ China Union Pay is under preparation and is expected to be available by 2016-10-01



Response "vauthorization"			
Parameter	Required	Format	Comment
status	+	Default	APPROVED / ERROR
Parameter (APPROVED)		1	1
vxid	+	N12	Reference number on the virtual account
vaid	+	N8	Billing account ID (PAYONE)
userid	+	N12	Debtor ID (PAYONE)
Parameter (ERROR)		1	
errorcode	+	N6	Error number
errormessage	+	AN1024	Error message
customermessage	-	AN1024	Error message for the end customer
			(Language selection is based on the end customer's language, "language")



3.3 Administration

3.3.1 Create a mandate (managemandate)

Create a pending mandate – used for SEPA Direct Debit. Mandate will be activated and persisted by a payment-request (preauthorization / authorization) or by customer management (updateuser) – this request has to follow a "managemandate"-request within 2 hours.

Request "managemandate'			
Parameter	Required	Format	Comment
aid	+	N6	Sub account ID
clearingtype	+	Default	elv Debit payment
mandate_identification	-	AN35	Can be used to enforce a merchant specific mandate identification. The mandate_identification must be unique. Allowed characters: A-Z a-z 0-9 + () If the mandate_identification is not set PAYONE will create an unique mandate identification (pattern: PO-nnnnnnnnnn). PPS: This parameter must not be used!
currency	+	Default	Currency (ISO 4217)
Parameter (personal data)		Belaute	carrettey (130 1217)
customerid	0	AN120 N612	Merchant's customer ID (Permitted symbols: 0-9, a-z, A-Z, .,-,_/) either • existing customerid • or existing userid • or lastname/city/bankcountry/IBAN/BIC must be given Debtor ID (PAYONE) userid must already exist and mode (test/live) must must match.
			If userid is used then personal data are loaded automatically.
lastname	+	AN50	Surname
firstname	-	AN150	First name (optional if company is used)
company	-	AN250	Company
street	-	AN150	Street number and name (required: at least one character)
zip	-	AN210	Postcode
city	0	AN250	City only optional if already recorded at existing customer referenced by userid/customerid
country	+	Default	Country (ISO 3166)
email	0	AN50	Email address
language	-	Default	Language indicator (ISO 639), default="de"



Parameter	Required	Format	Comment
Parameter (bank according particular partic			nced by userid/customerid
bankcountry	+	Default	Account type/ country
			For use with BBAN: DE
			Mandatory with bankcode, bankaccount
			Optional with iban/bic as bankcountry will be determined by iban
bankaccount +	+	N10	Account number (BBAN) (only for DE)
			DE only: IBAN/BIC can be calculated by PAYONE platform automatically given by bankcode/bankaccount
bankcode	+	N8	Sort code (BBAN) (only for DE)
			DE only: IBAN/BIC can be calculated by PAYONE platform automatically given by bankcode/bankaccount (BBAN)
Parameter (bank accor	•	•	•
optional if already reco	rded at existing custo	omer refere	nced by userid/customerid
bankcountry	0	Default	Account type/ country (ISO 3166)
			if not specified it will be determined by IBAN
iban	+	AN35	International Bank Account Number
			Only capital letters and digits, no spaces
			only optional if already recorded at existing customer referenced by userid/customerid
bic	+	AN11	Bank Identifier Code
			Only capital letters and digits, no spaces

Response "managemandate"				
Parameter	Required	Format	Comment	
status	+	Default	APPROVED / ERROR	
Parameter (APPROVED)	1			
mandate_identification	+	AN35	Mandate identification (either taken from request or newly created)	
mandate_status	+	Default	pending: for a new created mandates active: for existing / active mandates	
mandate_text	+	TEXT	Content of mandate text HTML-formatted, URL-encoded	
creditor_identifier	+	AN35	Creditor identifier as recorded at PAYONE	
iban	+	AN35	IBAN	
bic	0	AN11	BIC, if given in request	
Parameter (ERROR) -> actua	al response; will	be always	used for errournous requests	



Parameter (INVALID) -> may be	e used in futi	ure Q3/2016	for invalid data in request
errorcode	+	N6	Error number
errormessage	+	AN1024	Error message for the merchant
customermessage	-	AN1024	Error message for the end customer
			(Language selection is based on the end customer's language, "language")

3.4 Verification / Scoring

3.4.1 Verifying credit cards (creditcardcheck)

The CreditCardCheck checks credit cards for plausibility in real-time.

Additionally, this request offers the possibility to store credit card data. In this case, the response submits what is known as a pseudo card number.

Request "creditcardcheck"			
Parameter	Required	Format	Comment
aid	+	N6	Sub account ID
cardpan	+	N19	Card number
cardtype	+	Default	Card type
			V Visa
			M MasterCard
			A American Express
			D Diners
			J JCB
			O Maestro International
			C Discover
			B Carte Bleue
			P China Union Pay
cardexpiredate	+	N4	Expiry date YYMM
cardcvc2	0	N4	Credit verification number (CVC)
cardissuenumber	-	N2	Card issue number (only Maestro UK cards)
storecarddata	-	Default	no: Card data is not stored
			yes: Card data is stored, a pseudo card number is returned
language	-	Default	Language indicator (ISO 639)
Кеу			
Nx	Numeric v	alue (x char	acters maximum)
ANx	Alphanum	eric value (>	characters maximum)



Response "creditcardcheck"			
Parameter	Required	Format	Comment
status	+	Default	VALID = card number valid
			INVALID = card number invalid
			ERROR = request faulty
Parameter (VALID)	,		
pseudocardpan	0	N19	Pseudo card number
			(is returned if storecarddata=yes)
truncatedcardpan	0	AN19	Masked cardpan, i.e. 411111xxxxxxx1111
			(is returned if storecarddata=yes)
cardtype	0	Default	Cardtype selected by consumer
cardexpiredate	0	N4	Card expiredate selected by consumer in YYMM
Parameter (INVALID)	1	1	
errorcode	+	N6	Error number
errormessage	+	AN1024	Error message
customermessage	-	AN1024	Error message for the end customer
			(Language selection is based on the end customer's language, "language")
Parameter (ERROR)	-	1	
errorcode	+	N6	Error number
errormessage	+	AN1024	Error message
customermessage	-	AN1024	Error message for the end customer
			(Language selection is based on the end customer's language, "language")



3.4.2 Account verification (bankaccountcheck)

The BankAccountCheck checks the plausibility of German account details according to the current check digit algorithms and carries out a POS blacklist inquiry if required.

Parameter	Required	Format	Comment	
aid	+	N6	Sub account ID	
checktype	-	Default	0 = regular check (default)	
			1 = check against POS blacklist (only DE)	
language	-	Default	Language indicator (ISO 639)	
Check of international	bank account	1		
bankcountry	0	Default	Account type/ country	
			Optional with iban/bic as bankcountry will be determined by iban	
iban	+	AN35	IBAN ^{18, 19}	
			Only capital letters and digits, no spaces	
			If both (BBAN and IBAN) are submitted, IBAN is splitted into BBAN and processed. BBAN parameters are ignored.	
bic	+	AN11	BIC	
			Only capital letters and digits, no spaces	
Check of national bank	account	1		
bankcountry	+	Default	"DE" only	
bankaccount	+	N10	Account number 20	
bankcode	+	N8	Sort code	
Key	1	1		
Nx	Numeric v	alue (x char	acters maximum)	
ANx	Alphanum	Alphanumeric value (x characters maximum)		

¹⁸ IBAN / BIC will be validated. It's not checked whether IBAN and BBAN (Bankcode/Bankaccount) refer to the same account.

¹⁹ For Germany IBAN, BIC will be converted into bankcode, bankaccount automatically

 $^{^{20}}$ For Germany bankcode, bankaccount will be converted into IBAN, BIC automatically



Parameter	Required	Format	Comment
status	+	Default	VALID = account details valid
			INVALID / ERROR = account details invalid
			BLOCKED = account details found on blacklist (checktype=1 only)
			ERROR = request faulty
Parameter (VALID)		1	
bankcountry	0	Default	Account type/ country (ISO-3166)
			Please find available checks in chapter 5.4
bankcode	0	AN11	Sort code in standardised country format (if standardisation is supported)
bankaccount	0	AN26	Sort Account number in standardised country format (if standardisation is supported)
bankbranchcode	О	N5	Branch code
bankcheckdigit	О	AN2	Check digit
iban	О	AN35	IBAN ²¹
bic	О	AN11	BIC
Parameter (INVALID)			
errorcode	+	N6	Error number
errormessage	+	AN1024	Error message
customermessage	-	AN1024	Error message for the end customer
			(Language selection is based on the end customer's language, "language")
Parameter (ERROR)	1	1	
errorcode	+	N6	Error number
errormessage	+	AN1024	Error message
customermessage	-	AN1024	Error message for the end customer
Ü			(Language selection is based on the end customer's language, "language")

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²¹ Parameters will not be provided currently to prevent declined requests by merchant systems that do not expect these key/values by now. Parameters have to be enabled in PMI, Configuration, Payment portals, General: "Additional responsedata" for mode test and live.



3.4.3 Address verification (addresscheck)

Verification and correction of address details.

The verification of the address is carried out to minimize the risk of non-payment and to correct the entered address information. Deviations in the address details are corrected automatically.

For best results please provide "streetname" and "streetnumber" in separate fields. If not possible you can use "street" only.

For "addresscheck person" first-/last name is obviously mandatory. Gender and birthdate are optional but recommended for best results.

Parameter	Required	Format	Comment
aid	+	N6	Sub account ID
	-		
addresschecktype	+	Default	PAYONE-Services
			BA Addresscheck Basic
			PE Addresscheck Person
			Boniversum-Services ²²
			BB Addresscheck Basic
			PB Addresscheck Person
firstname	0	AN150	First name (required for "Addresscheck Person")
lastname	0	AN250	Surname (required for "Addresscheck Person")
company	-	AN250	Company
street	0	AN150	Street number and name (required if "streetname" and "streetnumber" not submitted) (required: at least one character)
streetname	0	AN50	Street name
			(required if "street" not submitted)
streetnumber	0	AN5	Street number
			(required if "street" not submitted)
zip	+	AN210	Postcode
city	+	AN250	City
state	0	Default	State (ISO 3166-2 subdivisions)
			(only if country=US, CA, CN, JP, MX, BR, AR, ID, TH, IN)
country	+	AN3	Country (ISO 3166)
			Check "BB", "PB": only "DE" supported
birthday	-	N8	Date of birth (YYYYMMDD)
telephonenumber	-	AN30	Telephone number (0049123456789)

²² Available soon



gender	-	Default	f=female, m=male
language	-	Default	Language indicator (ISO 639)
Key			
Nx	Numeric valu	ie (x characte	rs maximum)
ANx	Alphanumeri	c value (x cha	aracters maximum)

	De muin-		
Parameter	Require d	Format	Comment
status	+	Default	VALID = address valid
			INVALID = address invalid
			ERROR = error
Parameter (VALID)			
secstatus	+	N2	10 = address correct
			20 = address could be corrected
personstatus	+	Default	Person address check result; details see code list
			("Parameters for address check person returns")
firstname	-	AN50	Return of firstname (corrected if applicablce)
lastname	-	AN50	Return of lastname (corrected if applicable)
street	+	AN50	Return of street + street no. (corrected if applicable)
streetname	-	AN50	Return of street name (corrected if applicable)
streetnumber	-	AN5	Return of street name (corrected if applicable)
zip	+	AN10	Return of postal code (corrected if applicable)
city	+	AN50	Return of city (corrected if applicable)
Parameter (INVALID)			
secstatus	+	N2	30 = address could not be corrected
errorcode	+	N6	Error number
errormessage	+	AN1024	Error message
customermessage	-	AN1024	Error message for the end customer
			(Language selection is based on the end customer's language, "language")
Parameter (ERROR)		I	1
errorcode	+	N6	Error number
errormessage	+	AN1024	Error message
customermessage	-	AN1024	Error message for the end customer
			(Language selection is based on the end customer's language, "language")



3.4.4 Verification of creditworthiness (consumerscore)

Checking customer data for any existing adverse criteria.

The customer check is carried out to determine the risk of non-payment of demands against customers. With the help of consumer information (adverse criteria) a score value is determined which you can use to assess the creditworthiness of the customers, get a realistic picture of the risk of non-payment and offer the corresponding types of payment.

For best results please provide "streetname" and "streetnumber" in separate fields. If not possible you can use "street" only.

For "consumerscore" first-/last name is obviously mandatory. Gender and birthdate are optional but recommended for best results.

Request "consumerso	ore"		
Parameter	Required	Format	Comment
aid	+	N6	Sub account ID
addresschecktype	+	Default	PAYONE-Services
			BA Addresscheck Basic
			PE Addresscheck Person
			NO Do not carry out address check
			Boniversum-Services ²³ – can only be combined with consumerscoretype "CE"
			PB Addresscheck Person
consumerscoretype	+	Default	Arvato Infoscore Services – can only be combined with addresschecktype "NO", "BA", "PE"
			IH Infoscore (hard criteria)
			IA Infoscore (all criteria)
			IB Infoscore (all criteria + bonus score)
			IF Infoscore (all criteria + bonus score) + Informa- Consumer-Score
			Boniversum Services – can only be combined with addresschecktype "PB"
			CE Boniversum VERITA Score including special addresses (status-codes AS1AS8)

²³ Available soon



Request "consumersco	ore"		
Parameter	Required	Format	Comment
firstname	+	AN150	First name
lastname	+	AN250	Surname
company	-	AN250	Company
street	+	AN150	Street number and name (required if "streetname" and "streetnumber" not submitted) (required: at least one character)
streetname	О	AN50	Street name (required if "street" not submitted)
streetnumber	О	AN5	Street number (required if "street" not submitted)
zip	+	AN210	Postcode
city	+	AN250	City
country	+	Default	Country (ISO 3166) , actually only "DE" supported
birthday	-	N8	Date of birth (YYYYMMDD)
telephonenumber	-	AN30	Telephone number (0049123456789)
gender	-	Default	f=female, m=male
language	-	Default	Language indicator (ISO 639)
Кеу			
Nx	Numeric val	ue (x charact	ers maximum)
ANx	Alphanume	ric value (x ch	naracters maximum)



Parameter	Required	Format	Comment
status	+	Default	VALID address valid
status		Delaale	INVALID address invalid
			ERROR error
Parameter (VALID)			Liner Crist
secstatus	0	N2	Only provided for addresschecktype BA/PE
300314143		112	10 = address correct
			20 = address could be corrected
score	+	Default	G "green", high degree of creditworthiness
			Y "yellow", average degree of creditworthiness
			R "red", low degree of creditworthiness
			U Unknown
scorevalue	-	N4	Arvato Infoscore: 100-990
			The higher the value, the higher the degree of creditworthiness
			Boniversum VERITA Score: 0-6000
			The higher the value, the lower the degree of creditworthiness
secscore	-	AN9	Negative criteria; details see code list ("Parameters for Consumerscore returns")
			only provided for consumerscoretype "IA", "IB", "IH" and "IF"
personstatus	+	Default	Person address check result; details see code list ("Parameters for address check person returns")
addressstatus	-	Default	Person address check result; details see code list ("Consumerscore Boniversum VERITA score - addressstatus")
			Only available with "CE" and "PB" and only if special addresses indicated.
firstname	+	AN50	Return of first name (corrected if applicable)
lastname	+	AN50	Return of surname (corrected if applicable)
street	+	AN50	Return of street + street no. (corrected if applicable)
streetname	-	AN50	Return of street name (corrected if applicable)
streetnumber	-	AN5	Return of street number (corrected if applicable)
zip	+	AN10	Return of postal code. (corrected if applicable)
city	+	AN50	Return of city. (corrected if applicable)
Parameter (INVALID)		-I	
secstatus	+	N2	30 = address could not be corrected
errorcode	+	N6	Error number
errormessage	+	AN1024	Error message
customermessage	-	AN1024	Error message for the end customer
			(Language selection is based on the end customer's language, "language")



Response "consumersco	ore"		
Parameter (ERROR)			
errorcode	+	N6	Error number
errormessage	+	AN1024	Error message
customermessage	-	AN1024	Error message for the end customer
			(Language selection is based on the end customer's language, "language")



4 Responses

Edition: 2016-12-15

4.1 Parameter for SessionStatus query

According to the configuration of your payment portal you will receive access status changes for accesses to your premium sector. You will only receive these status messages with payment portals of the "Access" version. You can use them to protect your premium sector or to receive information about a subscription. The data is submitted to the URL specified in the merchant area. The data transfer is based on simple HTTP-POST request (key/value pairs).

The SessionStatus is sent from the following IP addresses: 185.60.20.0/24 (i.e. 185.60.20.1 to 185.60.20.254). Please configure your firewall to allow incoming packets from these IP addresses.

HTTP request from F	PAYONE to the m	erchant's	server
Parameter	Required	Format	Comment
key	+	AN32	Key can be selected freely (see options payment portal) as MD5 value (The key hash values is currently given as MD5. This currently still remains with MD5 and is subject to change in future to SHA2-384.)
clearingstyp	+	Default	Type of payment used for this access. elv Debit payment cc Credit card vor Prepayment rec Invoice sb Online bank transfer
serverip	-	Default	payone.de -> this parameter may be removed in future.
accessid[x]	+	N312	Access ID (PAYONE)
action[x]	+	Default	Event, which refers to one customer each. "add", "remove", "abocancel", "renew "cancel_reversal", "lock", "unlock" (see below)
portalid[x]	+	N7	Payment portal ID
productid[x]	+	N7	ID for the offer
expiretime[x]	+	N12	Unix timestamp at which access expires
userid[x]	+	N12	Debtor ID (PAYONE)
customerid[x]	-	AN120	Merchant's customer ID
accessname[x]	-	AN32	Customer's user name
accesscode[x]	-	AN32	Customer's password
ip[x]	-	AN15	Customer IP
param[x]	-	AN15	Individual parameter
Key	х	х	х
Nx	х	х	Numeric value (x characters maximum)
ANx	х	х	Alphanumeric value (x characters maximum)



[x]	Х	Х	In this manner changes for several customers can be
			submitted simultaneously in one request.
			[x] = position number, e.g. [0],[1],)

Important note: Please note that new parameters may be added at any time without previous notice. Therefore, you should use the parameter name for the evaluation and not the sequence, which may be subject to change at any time!

Expected reply to the request:

As a reply to the request, the string "SSOK" is expected. Each request is repeated in a 1-hour cycle until it is answered with "SSOK". This procedure ensures that all requests will be processed by your system. Simply issue the "SSOK" in a script via the "print" command. Make sure that this character string is the first that is printed from this script, e.g. print ("SSOK");

Important:

- Status messages from PAYONE to merchant's server are always ISO-8859-1 encoded.
- No other characters may be issued from this character string, e.g. no HTML code.
- Do not return an error without gathering information about this error.
- Make sure the request is always answered with an SSOK within 48 hours.
- If a specific request shall not be processed, issue an SSOK anyway to prevent the request from interfering with the processing of other requests.
- Without the return of an SSOK you will not receive any further status reports for that subscription.
- The request must be answered with "SSOK" within 10 seconds. This time-out cannot be extended. The answer does only confirm receipt of the SessionStatus, the evaluation can and should follow asynchronously to receiving the answer.



Sequence of events

After the start of the initial term an "add" request is deployed to your system. Different pieces of information about this customer are submitted (see above). After the access has expired, you will receive a "remove" request.

Events (action)

With each access status change you receive a request. Via the "action" variable you receive information about the status of the access.

add

An access portal has been opened.

remove

Access has expired and will not be renewed.

renew

Access was renewed/reduced (e.g. renewal of a subscription).

abocancel

The customer has cancelled the subscription for this access portal.

lock

Access has been blocked.

unlock

Access has been unblocked.

cancel_reversal

The termination of the subscription has been revoked.



4.2 Parameter for the TransactionStatus query

According to the configuration of your payment portal you will receive the data and the status for each payment process via the URL you have submitted. The data transfer is based on simple HTTP-POST request (key/value pairs).

The TransactionStatus is sent from the following IP addresses: 185.60.20.0/24 (i.e. 185.60.20.1 to 185.60.20.254). Please configure your firewall to allow incoming packets from these IP addresses.

Parameter	Required	Format	Comment
key	+	AN32	Payment portal key as MD5 value (The key hash values is currently given as MD5. This currently sti remains with MD5 and is subject to change in future to SHA2-384.)
txaction	+	Default	"appointed", "capture", "paid", "underpaid", "cancelation", "refund", "debit", "reminder", "vauthorization", "vsettlement", "transfer", "invoice", "failed"
			(See explanation below)
transaction_status	-	Default	"completed", "pending"
			new parameter in use from January 2015
notify_version	-	Default	7.3 without "notify_version" and without "transaction_status"
			7.4 with "notify_version" and with "transaction_status" (completed/pending)
			7.5 with txaction "failed" (actually supported for Barzahlen with expired refund; other payment types will follow)
mode	+	Default	test Test mode
			live Live mode
portalid	+	N7	Payment portal ID
aid	+	N6	Sub account ID
clearingtype	+	Default	elv Debit payment
			cc Credit card
			vor Prepayment
			rec Invoice
			cod Cash on delivery
			sb Online bank transfer
			wlt e-Wallet
			fnc Financing
txtime	+	N11	Initiating payment process (Unix timestamp)
currency	+	Default	Currency (ISO 4217)
userid	+	N12	Debtor ID (PAYONE)



Parameter	Required	Format	Comment
customerid	-	AN120	Merchant's customer ID
param	-	AN255	Individual parameter that was, where applicable, submitted while payment was initiated
Parameter (personal data	a)		
Invoice-Address			
firstname	0	AN50	First name (optional if company is used)
lastname	+	AN50	Surname
company	-	AN50	Company
street	-	AN50	Street number and name
zip	-	AN10	Postcode
city	-	AN50	City
country	+	Default	Country (ISO 3166)
Delivery-Address	,	1	
shipping_firstname	-	AN50	First name (optional if company is used)
shipping_lastname	-	AN50	Surname
shipping_company	-	AN50	Company
shipping_street	-	AN50	Street number and name
shipping_zip	-	AN10	Postcode
shipping_city	-	AN50	City
shipping_country	-	Default	Country (ISO 3166)
email	-	AN50	Email address
Parameter for the status	message of a payr	ment proces	ss
txid	+	N12	Payment process ID (PAYONE)
reference	+	AN20	Merchant reference number for the payment process
sequencenumber	+	N2	Sequence number at the time of the event for thi payment process (0n)
price	+	N7,2	Payment request (in largest currency unit! e.g. Euro)
receivable	-	N7,2	Total payment request (in largest currency unit! e.g. Euro); not set for encashment reminder statu information without paid amount
balance	-	N7,2	Balance of transaction account (in largest current unit! e.g. Euro); not set for encashment reminde status information without paid amount
			Negative amount: positive balance
			Positive amount: payment request
failedcause	-	Default	Reason for return debit note or incorrect collection (see chapter 5)
Additional parameter Cor	tract for the state	us message	of a payment process
productid	+	N7	ID for the offer



Parameter	Required	Format	Comment
accessid	+	N312	Access ID
expiretime	-	N12	Unix Timestamp an dem der Zugang abläuft
Additional parameter for payr	nent type de	bit paymen	t
bankcountry	-	Default	Account type/ country
bankaccount	-	AN26	Account number (masked)
bankcode	-	AN11	Sort code
bankaccountholder	-	AN35	Account holder
Additional parameter for pay "due_time" is not specified)	ment type d	ebit payme	nt (only for authorization with appointed and only i
iban	0	AN35	International Bank Account Number (masked)
bic	0	AN11	Bank Identifier Code
mandate_identification	0	AN35	Used mandate_identification
creditor_identifier	0	AN35	Merchant's creditor identifier
clearing_date	0	N8	clearing date (format YYYYMMDD)
clearing_amount	0	N10	Payment request (in smallest currency unit! e.g. cent)
Additional parameter for payr	nent type cre	edit card	
Additional parameter for payr cardpan	nent type cre	edit card	Card number
			Card number Card type
cardpan	+	N19	
cardpan	+	N19	Card type
cardpan	+	N19	Card type V Visa
cardpan	+	N19	Card type V Visa M MasterCard
cardpan	+	N19	Card type V Visa M MasterCard A American Express
cardpan	+	N19	Card type V Visa M MasterCard A American Express D Diners
cardpan	+	N19	Card type V Visa M MasterCard A American Express D Diners J JCB
cardpan	+	N19	Card type V Visa M MasterCard A American Express D Diners J JCB O Maestro International
cardpan	+	N19	Card type V Visa M MasterCard A American Express D Diners J JCB O Maestro International C Discover
cardpan	+	N19	Card type V Visa M MasterCard A American Express D Diners J JCB O Maestro International C Discover B Carte Bleue
cardpan	+ +	N19 Default	Card type V Visa M MasterCard A American Express D Diners J JCB O Maestro International C Discover B Carte Bleue P China Union Pay ²⁴
cardpan cardtype cardexpiredate	+ -	N19 Default N4 AN35	Card type V Visa M MasterCard A American Express D Diners J JCB O Maestro International C Discover B Carte Bleue P China Union Pay ²⁴ Expiry date YYMM Name of cardholder
cardpan cardtype cardexpiredate cardholder Additional parameter for payr	+ -	N19 Default N4 AN35	Card type V Visa M MasterCard A American Express D Diners J JCB O Maestro International C Discover B Carte Bleue P China Union Pay ²⁴ Expiry date YYMM Name of cardholder
cardpan cardtype cardexpiredate cardholder	+ -	N19 Default N4 AN35	Card type V Visa M MasterCard A American Express D Diners J JCB O Maestro International C Discover B Carte Bleue P China Union Pay ²⁴ Expiry date YYMM Name of cardholder

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 $^{^{24}}$ China Union Pay is under preparation and is expected to be available by 2016-10-01



Parameter	Required	Format	Comment
clearing_bankaccount	-	AN26	Recipient bank account
clearing_bankcode	-	AN11	Recipient sort code
clearing_bankiban	-	AN35	Recipient IBAN
clearing_bankbic	-	AN11	Recipient BIC
clearing_bankcity	-	AN50	Recipient city or bank
clearing_bankname	-	AN50	Recipient bank name
clearing_legalnote	-	AN500	Note to claim assignment
clearing_duedate	-	N8	Due date of payment (format YYYYMMDD)
clearing_reference	-	AN50	Reference
clearing_instructionnote	-	AN200	Note to payment handling
Additional parameter Collect	txaction=ren	ninder) for t	the status message of a payment process
reminderlevel	+	Default	Customer's reminder status
		20.00.0	14: Dunning level 1-4
			5: Encashment
			A: Dunning procedure ended
			S: Dunning procedure begins
			M: Dunning proposal list
			I: Encashment proposal list
			0: Dunning procedure completed
encashment_statuscode	-	AN20	Internal status code of the encashment agency, if
_			provided by the encashment agency.
encashment_statuslongtext	-	AN255	Free text: if the encashment agency has reported long text (detailed information) on the status
Parameter Invoicing (txaction	=invoice)	1	
txid	+	N12	Payment process ID (PAYONE)
reference	+	AN20	Merchant reference number for the payment process
sequencenumber	+	N2	Sequence number at the time of the event for th
		*** ***	payment process (0n)
invoiceid 	+	AN20	Merchant's invoice number
invoice_grossamount	+	N7,2	Gross invoice amount
invoice_date	+	N8	Invoice date (format YYYYMMDD)
invoice_deliverydate	-	N8	Delivery date (format YYYYMMDD)
invoice_deliveryenddate	-	N8	Delivery period end date (format YYYYMMDD)
Parameter Billing (txaction=va	authorization	/vsettlemer	nt)
vaid	+	N8	Billing account ID (module billing)
balance	+	N7,2	Balance of billing account (in largest currency unit e.g. Euro)
			Negative amount: positive balance
			Positive amount: payment request
vreference	+	AN20	Merchant's transaction reference number



Parameter	Required	Format	Comment					
			(This is the reference for the corresponding payment process for a vsettlement)					
vxid	+	N12	Billing account entry ID					
Parameter Billing (txaction	on=vsettlement)	1						
txid	О	N12	Corresponding payment process ID					
sequencenumber	0	N2	Sequence number of settled payment process ID					
settled_vxid[n]	0	N12	Array of settled vxid's starting with n=0.					
		Array will not be sent if more that settled.						
Key	ı	1						
Nx	Numeric v	alue (x char	acters maximum)					
ANx	Alphanum	Alphanumeric value (x characters maximum)						

Important note: Please note that new parameters may be added at any time without previous notice. Therefore, you should use the parameter name for the evaluation and not the sequence, which may be subject to change at any time!



Expected reply to the request:

As a reply to the request, the string "TSOK" is expected. Each request is repeated in a 1 to 6 hour cycle until it is answered with "TSOK". This procedure ensures that all requests will be processed by your system. Simply issue the "TSOK" in a script via the "print" command. Make sure that this character string is the first that is printed from this script, e.g. print ("TSOK");

Important:

- Status messages from PAYONE to merchant's server are always ISO-8859-1 encoded.
- No other characters may be issued from this character string, e.g. no HTML code.
- Do not return an error without gathering information about this error.
- Make sure the request is always answered with a TSOK within 48 hours.
- If a specific request shall not be processed, issue a TSOK anyway to prevent the request from interfering with the processing of other requests.
- Without the return of an TSOK you will not receive any further status reports for that payment process.
- The request must be answered with "TSOK" within 10 seconds. This time-out cannot be extended. The answer does only confirm receipt of the TransactionStatus, the evaluation can and should follow asynchronously to receiving the answer.



4.2.1 List of events (txaction)

With each payment process status change you receive a request. The last event is submitted to you via the parameter "txaction". The status of the request is provided via the balance of the payment process (parameter "balance") and the amount of the request (parameter "receivable").

appointed

Via "appointed" you are informed about the successful initiation of the payment process. This request is affected immediately after the first successful booking.

Important note:

- The new parameter "transaction_status" indicates whether the event "appointed" is pending or completed.
 - -> see list of status (transaction status)

capture

Via "capture" you are informed about the booking of a request or the collection of your reserved amount. The amount of the request (receivable) is increased in this case. If no settlement of balances occurs, the balance changes as well.

paid

Via "paid" you are informed that the booking has been processed by the credit institution or that the customer has paid the invoice in full. The balance for the request in this case is smaller than or equal to zero.

underpaid

Via "underpaid" you are informed about an underpayment. The balance for the request in this case is greater than zero.

cancelation

Via "cancelation" you are informed that a payment process has resulted in a return debit note. In the case of electronic direct debit processes (ELV) insufficient funds in the account may also be the cause. The balance for the request in this case is greater than zero.



refund

Via "refund" you are informed if an amount has been refunded. The amount of the request (receivable) is decreased in this case.

debit

Via "debit" you are informed about the booking of a request/credit for a request. The amount of the request (receivable) changes in this case. If no settlement of balances occurs, the balance changes as well.

transfer

Via "transfer" you are informed if an amount has been transferred. The amount of the open balance (balance) changes in this case.

reminder (Attention: This request must be activated by PAYONE.)

Via "reminder" you are informed about the current status of the dunning procedure.

vauthorization (Attention: This request must be activated by PAYONE.)

Via "vauthorization" you are informed about a booking affected into a billing account (module billing).

vsettlement (Attention: This request must be activated by PAYONE.)

Via "vsettlement" you are informed about a settlement effected on a particular billing account (module billing).

invoice (Attention: This request must be activated by PAYONE.)

Via "invoice" you are informed that an invoice or a credit voucher has been created.

failed (for future use – not implemented yet.)

Via "failed" you are informed that the booking has finally failed. No further actions are possible.



4.2.2 List of status (transaction_status)

Via "pending" you are informed that the payment transaction is (still) pending at the external payment processor. The following transaction status may be "pending" (again), "completed" (external payment processor completed the actual transaction successfully).

With each payment process status change you receive a request. The last event is submitted to you via the parameter "txaction".

The parameter "transaction_status" is currently introduced with event-txaction "appointed" only. Other event-txaction with parameter "transaction_status" may follow (e.g. "paid", "debit", ...).

Please note:

- The parameter "transaction_status" is optional and not available for all payment transactions ("txaction") and all payment types (as not all payments and processors do support "pending" / "completed").
- It may happen that you will receive two times the same txaction (e.g. "appointed"). First with "pending" and then with "completed".

pending

The event indicated by "txaction" is pending and may change later. i.e. an event "appointed/pending" (txaction/transaction_status) indicates that the payment is pending and in process at the 2nd payment processor.

Another event may follow to inform change of status by txaction e.g. "appointed/completed", "failed/completed".

Also another "appointed/pending" may follow to indicate that transaction is still pending.

completed

Indicates that the event itself has reached final status.

However a new "txaction" (e.g. "paid", "cancelation", ...) may follow to inform of change of status.

The new "txaction" can then be "paid/pending", "paid/completed". ... or "failed/completed".



4.2.3 Explanation of price, balance, receivable

Field	Description
price	Value of the initial claim
balance	 The outstanding balance of this transaction: negative: Customer has a claim against merchant, e.g. merchant received money without effort positive: Merchant has a claim against the customer
receivable	 Account balance for the transaction. With a "preauthorization" the value "receivable" is not set as the merchant did not provide the service yet (e.g. delivering goods). With type of payment "cash In advance" the value "receivable" is not set as the merchant will only provide its service when money has arrived.

4.2.4 Sample: authorization, CC

•		HTTP reque			ONE to th	Comment		
	Seq- No	Time	TX- Action/tran saction_stat e ²⁵	Seq- No	price	balance	receiv- able	
Request authorization CC amount=15061	0	T=0	appointed /complet ed	0	150.61	150.61	150.61	
	0	+4 min	paid	0	150.61	0	150.61	

²⁵ Internal reference: 148021809



4.2.5 Sample: preauthorization/capture, CC

			HTTP reque			ONE to th	Comment	
	Seq- No	Time	TX- Action/tran saction_stat e 26	Seq- No	price	balance	receiv- able	
Request preauthorization CC amount=2950	0	T=0	appointed /complet ed	0	29.50	0.00	0.00	
Request capture	1	+2 hours	paid	1	29.50	0	29.50	

²⁶ Internal reference:



4.2.6 Sample: authorization, ELV with cancelation

Merchant has configured:

- Due time ELV = 7 days
- Fee 1. reminder = 0,00 Euro after 7 days
- Fee 2. reminder = 1,00 Euro after 7 days
- Fee 3. reminder = 2,40 Euro after 7 days
- Encashment transfer = 5,00 Euro after 7 days
- TxStatus without reminder-information

Merchant's request	Merchant's request			est fro		ONE to tl	Comment	
	Seq- No	Time	TX- Action/tran saction_stat e ²⁷	Seq- No	price	balance	receiv- able	
Request authorization ELV amount=4612	0	T=0	appointed /complet ed	0	46.12	46.12	46.12	Merchant initiates payment via SEPA direct debit
		+15 min	paid	0	46.12	0	46.12	PAYONE platform has processed direct debit
		+7 days	cancelatio n	0	46.12	54.72	54.72	PAYONE platform has detected a return debit note initiated by end customer and added bank charges of 8,60 EUR and 0 Euro dunning fee
		+14 days (7+7)	debit	1	46.12	55.72	55.72	PAYONE platform processed dunning note and added 1,00 Euro dunning fee
		+21 days	debit	2	46.12	57.72	57.72	PAYONE platform processed dunning note and added 2,00 Euro dunning fee
		+28 days	debit	3	46.12	62.72	62.72	PAYONE platform processed dunning note and added 5,00 Euro dunning fee

²⁷ Internal reference: 146039593



4.2.7 Sample: preauthorization/capture, REC with credit note

Merchant has configured:

- Due time Invoice = 14 days
- Fee 1. reminder = 0,00 Euro after 3 days
- Fee 2. reminder = 2,00 Euro after 10 days
- Fee 3. reminder = 4,00 Euro after 10 days
- TxStatus without reminder-information

Merchant's request			HTTP reque			ONE to t	Comment	
	Seq- No	Time	TX- Action/tran saction_stat e ²⁸	Seq- No	price	balance	receiv- able	
Request preauthorization REC amount=11500	0	T=0	appointed /complet ed	0	115.00	0.00	0.00	Merchant initiates payment via payment type invoice
Request capture	1	+1 day	capture	1	115.00	115	115	Merchant has delivered ordered items
		+27 days (14+3+ 10)	debit	2	115.00	117	117	PAYONE platform generates reminder document and added 2 Euro dunning fee
		+10 days	debit	3	115.00	121	121	PAYONE platform generates reminder document and added 4 Euro dunning fee
PMI: credit note by 15,00 Euro	4	+13 days	debit	4	115.00	106	106	PAYONE platform processed credit note initiated via PMI

²⁸ Internal reference: 136229273



4.2.8 Sample: preauthorization, WLT (with "pending")

•			HTTP reque merchant's			ONE to th	Comment	
	Seq- No	Time	TX- Action/tran saction_stat e ²⁹	Seq- No	price	balance	receiv- able	
Request authorization WLT amount=1561	0	T=0	appointed /pending	0	15.61	0.00	0.00	
	0	+6 seconds	appointed /complet ed	0	15.61	0	0.00	
	0	+6 min	paid	0	15.61	-15.61	0	

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²⁹ Internal reference: 126353063



5 Codes

5.1 Reasons for return debit notes

Parametername: failedcause

Code	Signification
soc	Insufficient funds
cka	Account expired
uan	Account no. / name not identical, incorrect or savings account
ndd	No direct debit
rcl	Recall ³⁰
obj	Objection ³¹
ret	Return ³²
nelv	Debit cannot be collected
cb	Credit card chargeback
ncc	Credit card cannot be collected

 $^{^{}m 30}$ Recall: The recipient of the payment recalls the direct debit order.

³¹ Objection: The payer objects to the direct debit.

³² Return: The executing bank returns the order (due to insufficient funds, account closure, decease of the account holder, ...).



5.2 Bank groups

Parametername: bankgrouptype

Banks for EPS (Austria) ARZ_OVB Commercial credit cooperatives (Volksbank) ARZ_BAF Bank for doctors and independent professions ARZ_NLH Hypo state bank Lower Austria ARZ_VLH Hypo state bank Voralberg ARZ_BCS Bankhaus Carl Spängler & Co. AG ARZ_HTB Hypo bank Tyrol ARZ_HAA Hypo Alpe Adria ARZ_IKB Investkredit bank ARZ_OAB Österreichische Apothekerbank ARZ_IMB Immobank ARZ_IMB Immobank ARZ_IMB HYPO Investment bank BA_AUS Bank Austria BAWAG_BWG BAWAG BAWAG_PSK PSK Bank BAWAG_SPD Sparda Bank SPARDAT_EBS Erste Bank SPARDAT_BBL Bank Burgenland RAC_RAC Raiffeisen bank HRAC_OOS Hypo bank Styria EPS_CHEL Bankhaus Schelhammer EPS_OBAG Oberank AG EPS_SPDUI Sparda-Bank Linz EPS_SPDUI Sparda-Bank Linz EPS_SPDVI Sparda-Bank Villach EPS_SPDVI Sparda-Bank Linz EPS_VRBB VR-BAR VIIIach EPS_VRBB VR-BAR VIII-ACH EPS_VR	
ARZ_BAF Bank for doctors and independent professions ARZ_NLH Hypo state bank Lower Austria ARZ_VLH Hypo state bank Voralberg ARZ_BCS Bankhaus Carl Spängler & Co. AG ARZ_HTB Hypo bank Tyrol ARZ_HAA Hypo Alpe Adria ARZ_IKB Investkredit bank ARZ_OAB Österreichische Apothekerbank ARZ_IMB Immobank ARZ_IMB Immobank ARZ_GRB Gärtnerbank ARZ_HIB HYPO Investment bank BA_AUS Bank Austria BAWAG_BWG BAWAG BAWAG_ESY easybank BAWAG_SPD Sparda Bank SPARDAT_EBS Erste Bank SPARDAT_BBL Bank Burgenland RAC_RAC Raiffeisen bank HRAC_OOS Hypo bank Upper Austria HYPO bank Styria EPS_SCHEL Bankhaus Schelhammer EPS_OBAG Oberbank AG EPS_SPDUI Sparda-Bank Villach	
ARZ_NLH Hypo state bank Lower Austria ARZ_VLH Hypo state bank Voralberg ARZ_BCS Bankhaus Carl Spängler & Co. AG ARZ_HTB Hypo bank Tyrol ARZ_HAA Hypo Alpe Adria ARZ_IKB Investkredit bank ARZ_OAB Österreichische Apothekerbank ARZ_IMB Immobank ARZ_GRB Gärtnerbank ARZ_HIB HYPO Investment bank BA_AUS Bank Austria BAWAG_BWG BAWAG BAWAG_ESY easybank BAWAG_SPD Sparda Bank SPARDAT_EBS Erste Bank SPARDAT_BBL Bank Burgenland RAC_RAC Raiffeisen bank HRAC_OOS Hypo bank Salzburg HRAC_STM Hypo bank Styria EPS_SCHEL Bankhaus Chellerbank AG EPS_SPDUI Sparda-Bank Villach EPS_SPDUI Sparda-Bank Villach	
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SPARDAT_BBL Bank Burgenland RAC_RAC Raiffeisen bank HRAC_OOS Hypo bank Upper Austria HRAC_SLB Hypo bank Salzburg HRAC_STM Hypo bank Styria EPS_SCHEL Bankhaus Schelhammer EPS_OBAG Oberbank AG EPS_SCHOELLER Schoellerbank AG EPS_SPDLI Sparda-Bank Linz EPS_SPDVI Sparda-Bank Villach	
RAC_RAC Raiffeisen bank HRAC_OOS Hypo bank Upper Austria HRAC_SLB Hypo bank Salzburg HRAC_STM Hypo bank Styria EPS_SCHEL Bankhaus Schelhammer EPS_OBAG Oberbank AG EPS_SCHOELLER Schoellerbank AG EPS_SPDLI Sparda-Bank Linz EPS_SPDVI Sparda-Bank Villach	
HRAC_OOS Hypo bank Upper Austria HRAC_SLB Hypo bank Salzburg HRAC_STM Hypo bank Styria EPS_SCHEL Bankhaus Schelhammer EPS_OBAG Oberbank AG EPS_SCHOELLER Schoellerbank AG EPS_SPDLI Sparda-Bank Linz EPS_SPDVI Sparda-Bank Villach	
HRAC_SLB Hypo bank Salzburg HRAC_STM Hypo bank Styria EPS_SCHEL Bankhaus Schelhammer EPS_OBAG Oberbank AG EPS_SCHOELLER Schoellerbank AG EPS_SPDLI Sparda-Bank Linz EPS_SPDVI Sparda-Bank Villach	
HRAC_STM Hypo bank Styria EPS_SCHEL Bankhaus Schelhammer EPS_OBAG Oberbank AG EPS_SCHOELLER Schoellerbank AG EPS_SPDLI Sparda-Bank Linz EPS_SPDVI Sparda-Bank Villach	
EPS_SCHEL Bankhaus Schelhammer EPS_OBAG Oberbank AG EPS_SCHOELLER Schoellerbank AG EPS_SPDLI Sparda-Bank Linz EPS_SPDVI Sparda-Bank Villach	
EPS_OBAG Oberbank AG EPS_SCHOELLER Schoellerbank AG EPS_SPDLI Sparda-Bank Linz EPS_SPDVI Sparda-Bank Villach	
EPS_SCHOELLER Schoellerbank AG EPS_SPDLI Sparda-Bank Linz EPS_SPDVI Sparda-Bank Villach	
EPS_SPDLI Sparda-Bank Linz EPS_SPDVI Sparda-Bank Villach	
EPS_SPDVI Sparda-Bank Villach	
EPS_VRBB VR-Bank Brunau	
Banks for iDEAL (The Netherlands)	
ABN_AMRO_BANK ABN Amro	
BUNQ_BANK Bunq	
RABOBANK Rabobank	
FRIESLAND_BANK Friesland Bank	
ASN_BANK ASN Bank	
SNS_BANK SNS Bank	
TRIODOS_BANK Triodos Bank	



SNS_REGIO_BANK	SNS Regio Bank
ING_BANK	ING Bank
KNAB_BANK	Knab Bank
VAN_LANSCHOT_BANKIERS	van Lanschot Bank

5.3 Parameters for AVS returns

Parametername: protect_result_avs

Under "street number" any numeric parts of the street name and street number, as well as the postal code of the invoice address are validated, e.g. "Münchhausenstraße 22, 3rd Floor", "D-12345" -> "223" and "12345" are validated.

Code	Signification
Α	Street number is OK, postal code is not OK
F	Street number and postal code are OK
N	Neither street number nor postal code are OK
U	Request is not supported
Z	Street number is not OK, but postal code is OK



5.4 BankAccountCheck (Available countries)

Continious updates of check digit algorithms of Deutsche Bundesbank incl. check of Bankcode and of Österreichischen Nationalbank:

	bank- country	bank- account	bank- code	bank- branch- code	bank- check- digit
Germany (DE)	х	х	х	-	-
Austria (AT)	х	х	х	-	-
Swiss (CH)	Х	Х	х	-	-
Key: x =mandatory, o = optional, - = not	used	1		1	1

In these European countries the bank account will be syntax-checked and also validated with a check digit algorithm:

	bank- country	bank- account	bank- code	bank- branch- code	bank- check- digit
Niederlande (NL)	х	Х	-	-	-
Schweden (SE)	х	Х	0	-	-
Belgien (BE)	х	х	0	-	0
Frankreich (FR)	х	х	х	х	х
Norwegen (NO)	х	х	0	-	-
Polen (PL)	х	Х	0	-	0
Key: x =mandatory, o = optional, - = not	used	•			

In these countries the bank account will be syntax-checked:

	bank- country	bank- account	bank- code	bank- branch- code	bank- check- digit
Denmark (DK)	х	х	0	-	-
Finland (FI)	х	х	0	-	-
Italy (IT)	х	х	0	0	0
Spain (ES)	х	х	0	0	0
United Kingdom (GB)	х	х	х	-	-
Key: x =mandatory, o = optional, - = not	used		1		



5.5 Parameters for address check person returns

5.5.1 AddressCheck PAYONE Services - personstatus

Parametername: personstatus

Code	Signification
NONE	no verification of personal data carried out
PAB	first name & surname unknown
PHB	surname known
PKI	ambiguity in name and address
PNP	address cannot be checked, e.g. fake name used
PNZ	cannot be delivered (any longer)
PPB	the person can be confirmed for this address.
PPF	postal address details incorrect
PPV	person deceased
PUG	postal address details correct but building unknown
PUZ	person has moved, address not corrected
UKN	unknown return values are mapped to UKN



5.5.2 AddressCheck Boniversum Services - personstatus

Parametername: personstatus

mapped to Code	Boniversum internal status	Signification	Signification (DE)
PPF	00	postal address details incorrect	Nicht identifiziert.
PPB	02	the person can be confirmed for this address.	Person identifiziert.
PHB	03	surname known	Haushalt identifiziert.
PAB	05	first name & surname unknown	Gebäude identifiziert.
PPV	06	person deceased	Person verstorben.



5.6 Parameters for Consumerscore returns

5.6.1 Consumerscore arvato Infoscore - secscore

Parametername: secscore

I. "We	eak" negative attributes (Data from collection - ourt):	Weiche Negativmerkmale
IA	Initiation of collection process	Inkasso-Mahnverfahren eingeleitet
AM	Continuation of extrajudicial collection procedures after partial payments or instalments.	Fortlauf des außergerichtlichen Inkasso- Mahnverfahrens nach Teil- bzw. bei Ratenzahlung
IE	Dismissal of extrajudicial collection proceedings du to futility	Einstellung des außergerichtlichen Inkasso- Mahnverfahrens wegen Aussichtslosigkeit

II. "Middle" negative attributes (Data from collection - court):		Mittlere Negativmerkmale	
MB	Payment ordered by the court	Antrag auf Mahnbescheid	
VB	Enforcement order from the court	Antrag auf Vollstreckungsbescheid	
TR	Payment installment plan resulting from court decision	Ratenzahler nach Forderungs-Titulierung	
ZWA	Levy of execution to liquidate personal assets (non real-estate)	Zwangsvollstreckung in das bewegliche Vermögen	
ZWI	Levy of execution to liquidate personal assets (real-estate)	Zwangsvollstreckung in das unbewegliche Vermögen	
FRP	Futile collections attempt	fruchtlose Pfändung	
LP	Garnishment of wages	Lohn- oder sonstige Forderungspfändung aufgrund eines gerichtlichen Pfändungs- und Überweisungsbeschlusses	
UF	Non collectable legally binding payment claim	uneinbringliche, titulierte Forderung	
UBV	Relocation leaving no forwarding address	unbekannt verzogen (unter Hinterlassung von Verbindlichkeiten aus Geld- oder Warenkrediten)	
SU		Suchauftrag zu - unter Hinterlassung von Verbindlichkeiten - unbekannt verzogenen Personen (Adresse über Einwohneramt nicht ermittelbar)	

III. "hard" negative attributes (Data from public lists of debtors / / Bundesanzeiger):		Harte Negativmerkmale	
НВ	Warrant to provide Affidavit	Haftbefehl zur Erzwingung der eidesstattlichen Versicherung	
HV	Execution of warrant to provide Affidavit	Vollstreckung des Haftbefehls zur Erzwingung der EV	
EV	Affidavit or oath of disclosure	eidesstattliche Versicherung ("Offenbarungseid")	
EEV	Amendment to Affidavit	Ergänzung der eidesstattlichen Versicherung	
WEV	Repeated affidavit or oath of disclosure	wiederholte eidesstattliche Versicherung (§ 903 ZPO)	



SVV		Verweigerung der Vermögensauskunft gem. §882c Abs. 1 Nr. 1 ZPO
SAV		erkennbare Aussichtslosigkeit der Vollstreckung gem. §882c Abs. 1 Nr. 2 ZPO
SNZ		Nichtzahler gem. §882c Abs. 1 Nr. 3 ZPO
IVE	Extrajudicial settlement attempt in the course of insolvency proceedings	außergerichtlicher Einigungsversuch im Rahmen des Insolvenzverfahrens
	ard" negative attributes (Data from public lists of rs / / Bundesanzeiger):	Harte Negativmerkmale
ISP	Initiation of debt settlement plan / initiations of insolvency proceedings	Schuldenbereinigungsplan-Verfahren eingeleitet / Antrag auf Eröffnung des Insolvenzverfahrens
IVS	Court ordered preliminary safeguard provisions in the course of insolvency	Anordnung von vorläufigen Sicherungsmaßnahmen im Insolvenzverfahren
IVA	Court ordered revocation of preliminary safeguard provisions in the course of insolvency	Aufhebung von vorläufigen Sicherungsmaßnahmen im Insolvenzverfahren
IBE	Institution of insolvency proceedings / court order	Eröffnung des Insolvenzverfahrens / Beschluss
IBA	Dismissal of insolvency proceedings du to insufficient assets	Abweisung bzw. Einstellung des Insolvenzverfahrens mangels Masse (§ 26 Abs. 2 InsO)
IWP	Reversal of insolvency proceedings / start of period of good conduct	Aufhebung des Insolvenzverfahrens
IRB	Discharge grant of outstanding debts	Erteilung der Restschuldbefreiung
IRV	Discharge denial of outstanding debts	Versagung der Restschuldbefreiung
KON	Dismissal of bankruptcy petitions du to insufficient assets (Prior to 1999)	Abweisung des Antrags auf Eröffnung des Konkurses mangels Masse (§ 107 KO)
KER	Institution of bankruptcy proceedings (Prior to 1999)	Eröffnung des Konkursverfahrens (§ 108 KO)
KEM	Suspension of bankruptcy proceedings due to insufficient assets (Prior to 1999)	Einstellung des Konkursverfahrens mangels Masse (§§ 202, 204 KO)
KAS	Revocation of bankruptcy proceedings (Prior to 1999)	Aufhebung des Konkursverfahrens (nach Schlusstermin) (§ 163 KO)
VGE	Institution of reorganizations proceedings	Eröffnung des Vergleichsverfahrens (§ 11 ff VerglO)
VGA	Institution of reorganizations proceedings	Abweisung des Antrages auf Eröffnung des Vergleichsverfahrens
VEM	Suspension of reorganizations proceedings	Einstellung des Vergleichsverfahrens nach Rücknahme des Vergleichsvorschlages (§ 99 ff VerglO)
VAS	Revocation of reorganizations proceedings	VAS Aufhebung des Vergleichsverfahrens (§ 90 ff VerglO)
GVA	Dismissal of petition to initiate comprehensive execution for insufficient assets	GVA Abweisung des Antrages auf Eröffnung der Gesamtvollstreckung mangels Masse (§ 4 Abs. 2 GesO)
GVE	Commercial Insolvency Arrangement	Eröffnung bzw. Anordnung der Gesamtvollstreckung (§ 5 GesO)
GEM	Commercial Insolvency	Einstellung des Gesamtvollstreckungsverfahrens
GAS	Aborted Commercial Insolvency	Aufhebung des Gesamtvollstreckungsverfahrens





Other		Sonstige Negativmerkmale		
+++	Deceased	verstorben		
AE		Adressermittlung (Person unter der Adresse nicht zustellbar)		
HI		Hinweise zur Person oder Firma		
НА		Risikohinweise zur Adresse (JVA, Obdachlosenunterkunft, o. ä.); TKZ 5		



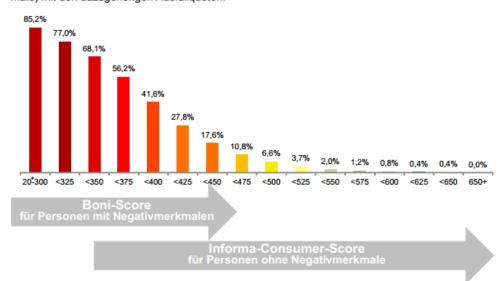
5.6.2 Decision matrix Arvato Infoscore Boni-Score / Informa-Score

Parametername: scorevalue

Hinweise zur Interpretation von Scorewerten

für Bezieher von Boniscore und/oder Scores der Informa-Score-Familie

In der nachstehenden Grafik finden Sie die gültigen Scorewerte des Boni-Score (d.h. Für Personen mit Negativmerkmalen) und für die Informa-Consumer-Scores (für Personen ohne Negativmerkmale) mit den dazugehörigen Ausfallquoten.



Hinweise

- Die beiden Scores sind bezüglich ihrer Ausfallquoten adjustiert.
- Die dargestellte Schlechtenquote ist definiert als Wahrscheinlichkeit für das Auftreten einer Zahlungsstörung innerhalb eines Jahres. Sie kann und soll nur als Anhaltspunkt dienen, da sie je nach Branche, Kundenklientel etc. variiert.

In Ausnahmefällen kann kein gültiger Scorewert gemäß der obigen Tabelle berechnet werden. In diesem Fall ist der Ausgabewert wie folgt zu interpretieren:

Ausgabewert	Bedeutung	Hinweis
0	Kein Score berechenbar	
1**	Postalisch falsch	
2**	Hinweisadresse	Die Ausgabewerte 0-6 stellen keine Aussage zum Zahlungsausfallrisiko
3**	Person verstorben	dar, sondern besagen, dass - aus
4**	Teilnehmeridentcode falsch	unterschiedlichen Gründen - kein Score berechnet werden konnte.
5**	Kein berechtigtes Interesse	SSS-S SSS-SSS-SS WORDEN NOTIFIES.
6**	Business-Sperre	

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5.6.3 Decision matrix Boniversum VERITA score

Decision matrix page 1

	₩	Entsch	neidungsmatrix \	/ERITA	Premium Ident S (Mittle	eres Risiko)	
Adressva	alidierung		Identifizierung		Sonderadressen	Zahlungsart	Kreditlimit Unsichere ZA
Return-Code Seite 11 von Dokument	Return-Code Estauterung Return-Code Estauterung Advessitag Bedautung Sate 11 von 21 der XIII Dekumentation, § 3.3. Saite 13 von 21 der XIIII Dekumentation, § 3.5.1 Saite 17 von 21 der XIIII Dekumentation, § 3.7.		Bedeutung ite 17 von 21 der XML-Dokumentation, § 3.7	Empfehlung	Empfehlung		
03	Attento					Vorkasse Aussteuern bzw. manuelle Prüfung	
01 oder 02	Adresse in Ordnung	06		Person vers	otorben	Vorkasse	
01 oder 02	Adresse in Ordnung	00 bis 05	Person nicht verstorben	S1	Sonderadresse höchstes Risiko		
01 oder 02	Adresse in Ordnung	00 bis 05	Person nicht verstorben	S2	Sonderadresse sehr stark erhöhtes Risiko	Sicher	
01 oder 02	Adresse in Ordnung	00 bis 05	Person nicht verstorben	S3	Sonderadresse stark erhöhtes Risiko		
01 oder 02	Adresse in Ordnung	00 bis 05	Person nicht verstorben	S4	Sonderadresse deutlich erhöhtes Risiko		
01 oder 02	Adresse in Ordnung	00 bis 05	Person nicht verstorben	S5	Sonderadresse spürbar erhöhtes Risiko		25%
01 oder 02	Adresse in Ordnung	00 bis 05	Person nicht verstorben	S6	Sonderadresse mäßig erhöhtes Risiko	Alle	25%
01 oder 02	Adresse in Ordnung	00 bis 05	Person nicht verstorben	S7	Sonderadresse leicht erhöhtes Risiko	Alle	50%
01 oder 02	Adresse in Ordnung	00 bis 05	Person nicht verstorben	S8	Sonderadresse schwach erhöhtes Risiko		50 %
01 oder 02	Adresse in Ordnung	00 bis 05	Person nicht verstorben	Z	keine Sonderadresse	siehe nächste Seite	

³⁴ ©2016 Boniversum: Available in German language only and only an indication. Your business settings may vary.



Decision matrix page 2

Entscheidungsmatrix VERITA Premium Ident S (Mittleres Risiko)					
	Identifizierung		VERITA Score	Zahlungsart	Kreditlimit Unsichere ZA
Return-Code	Erläuferung Seite 13 von 21 der XML-Dokumentation, § 3.5.1	Scoreklasse Sel	Scorebandbreite te 15 von 21 der XML-Dokumentation, § 3.6.3	Empfehlung	Unsichere ZA Empfehlung
02	Person identifiziert	1 bis 4	Scorewert von 1 bis 29		100%
02	Person identifiziert	5 bis 6	Scorewert von 30 bis 56		75%
02	Person identifiziert	7 bis 8	Scorewert von 57 bis 123	Alle	50%
02	Person identifiziert	9	Scorewert von 124 bis 1000		25%
02	Person identifiziert	Keine	Scorerückgabe bzw. Scorewert = 0		50%
02	Person identifiziert	-1 bis -5	Creditreform-Inkasso oder Negative Pooldaten	Sicher	
02	Person identifiziert	-6	Härtestes Merkmal Gericht	Vorkasse	
03	Haushalt identifiziert	1 bis 2	Scorewert von 1 bis 13		75%
03	Haushalt identifiziert	3 bis 4	Scorewert von 14 bis 29	Alle	50%
03	Haushalt identifiziert	5 bis 6	Scorewert von 30 bis 56		25%
03	Haushalt identifiziert	7 bis 9	Scorewert von 57 bis 1000	Sicher	
03	Haushalt identifiziert	Keine Scorerückgabe bzw. Scorewert = 0			
05	Gebäude identifiziert	1 bis 2	Scorewert von 1 bis 13		75%
05	Gebäude identifiziert	3 bis 4	Scorewert von 14 bis 29	Alle	50%
05	Gebäude identifiziert	5	Scorewert von 30 bis 40		25%
05	Gebäude identifiziert	6 bis 9	Scorewert von 41 bis 1000	Sicher	
05	Gebäude identifiziert	Keine	Scorerückgabe bzw. Scorewert = 0		
00	Nicht identifiziert	1 bis 3	Scorewert von 1 bis 20	Alle	50%
00	Nicht identifiziert	4 bis 5	Scorewert von 21 bis 40	Alle	25%
00	Nicht identifiziert	6 bis 9	Scorewert von 41 bis 1000	St-L	
00	Nicht identifiziert	Sicher Keine Scorerückgabe bzw. Scorewert = 0			



5.6.4 Consumerscore Boniversum VERITA score - scorevalue

Parametername: scorevalue

VERITA Score	Klasse	Scorewerte	Schlechtrate ^(*)
Wenn KEINE	1	1 bis 8	0,7
personenbezogenen Negativmerkmale	2	9 bis 13	1,2
vorliegen	3	14 bis 20	1,7
	4	21 bis 29	2,4
	5	30 bis 40	3,6
	6	41 bis 56	4,9
	7	57 bis 80	6,9
	8	81 bis 123	10,5
	9	124 bis 1000	17,8
	0	Es sind zu w	venige Daten für eine Berechnung vorhanden.
Wenn		Filterwerte	Beschreibung
personenbezogene Negativmerkmale vorliegen	-1	5000	geschlossene Inkassofälle (älter als 2 Jahre), negative Kontoschließungen (älter als 2 Jahre)
	-2	5200	geschlossene titulierte Inkassofälle (älter als 2 Jahre), Ausbuchungen (älter als 2 Jahre), gerichtliches Mahnverfahren (älter als 2 Jahre), erteilte Restschuldbefreiung (1 Jahr oder jünger)
	-3	5400	geschlossene Inkassofälle (2 Jahre alt oder jünger), aktueller Zahlungsrückstand 30/60/90 Tage
	-4	5600	offene kaufmännische Inkassofälle (Mahnsachen), geschlossene titulierte Inkassofälle (2 Jahre alt oder jünger), negative Kontoschließungen (2 Jahre alt oder jünger), Kontofälligstellung (2 Jahre alt oder jünger)
	-5	5800	offene titulierte Inkassofälle (Überwachungssachen), Ausbuchung (2 Jahre alt oder jünger), gerichtliches Mahnverfahren (2 Jahre alt oder jünger)
	-6	6000	Harte Gerichtsmerkmale (Eidesstattliche Versicherung, Nichtabgabe der Vermögens- auskunft, Gläubigerbefriedigung ausgeschlossen oder nach einem Monat nicht nachgewiesen, Haftanordnung, Insolvenz)

VERITA Score	Beschreibung	Ampel- wert	Ampel- beschreibung
1 bis 56	Annehmen. Es liegen keine personenbezogenen Negativmerkmale vor.	03	GRÜN
57 bis 1000	Vorsicht!	02	GELB
5000 bis 6000	Es liegen Negativdaten zu der Person vor.	01	ROT
0	Es sind zu wenig Daten für eine Berechnung vorhanden.	00	Nicht angezeigt

Edition: 2016-12-15 Technical Reference PAYONE Platform Client API Version 1.34

³⁵ ©2016 Boniversum: Available in German language only and only an indication. Your business settings may vary.



5.6.5 Consumerscore Boniversum VERITA score - addressstatus

Parametername: addressstatus

mapped to Code	Boniversum internal status	Signification	Signification (DE)
Special ac	ddresses -> rec	ommended to check addresses manually	
AS1	S1	Prisons, institutions for psychosocial care / addiction, etc., homeless shelters, sheltered facilities for criminals, other homes without recreation and holiday homes, youth hostels, educational centers, youth centers and open house houses	Justizvollzugsanstalten, Stationäre Einrichtungen zur psychosozialen Betreuung/ Suchtbekämpfung u.Ä., Obdachlosenheime, betreute Übergangseinrichtungen für Straftäter, Sonstige Heime (ohne Erholungs- und Ferienheime), Jugendwohnheime, Erziehungsheime, Jugendzentren und Häuser der offenen Tür
AS2	S2	Hospitals, retirement and rehabilitation clinics, nursing homes, nursing homes, disabled workshops, retirement homes; Old people's homes, disabled people's homes, old people's homes	Krankenhäuser, Vorsorge- und Rehabilitationskliniken, Pflegeheime, Altenpflegeheime, Behindertenwerkstätten, Altenheime; Alten- und Behindertenwohnheime, Altenwohnheime
AS3	S3	Games, betting and lotteries, playing halls & operation of game machines, retailing of motor fuels (petrol stations), package shops, packing stations	Spiel-, Wett- und Lotteriewesen, Spielhallen & Betrieb von Spielautomaten, Einzelhandel mit Motorenkraftstoffen (Tankstellen), Paketshops, Packstationen
AS4	S4	Gastronomy, cafés, serving drinks	Gastronomie, Cafés, Ausschank von Getränken
AS5	\$5	Other social work (without housing), placement and transfer of workers	Sonstiges Sozialwesen (ohne Heime), Vermittlung und Überlassung von Arbeitskräften
AS6	S6	Operation of sports facilities, fitness centers	Betrieb von Sportanlagen, Fitnesszentren
AS7	S7	Accommodation, holiday houses and holiday apartments, campsites, amusement and theme parks	Beherbergung, Ferienhäuser und Ferienwohnungen, Campingplätze, Vergnügungs- und Themenparks
AS8	S8	Education, boarding school	Erziehung und Unterricht, Internate



5.7 Error messages

No.	Signification	Activity
1	Card issuer temporarily not available	Please try again later.
2	Authorization declined	Decline purchase
4	Card not approved	Decline purchase
5	Authorization declined	Decline purchase
7	Required CVC code not specified or not valid	Specify/change CVC
12	Transaction invalid	Decline purchase
13	Limit exceeded	Decline purchase
14	Invalid card	Decline purchase
21	Activity not processed	Time for Capture after PreAuthorization has been exceeded (among other things)
30	Format Error in request message (e.g. CVC missing).	exceeded (among other timigs)
31	Invalid card type	Change card type
33	Expiry date invalid, incorrect or in the past	Correct expiry date
34	Manipulation suspected	Decline purchase
43	Card stolen	Decline purchase
56	Card unknown	Decline purchase
62	Card cancelled	Decline purchase
80	Amount no longer available	Reservation period has elapsed. Please repeat
80	Amount no longer available	preauthorization
91	Card issuer temporarily not available	Temporary problem
101	The authorisation has expired.	Restart entire process.
102	Authorisation denied.	
103	Transaction could not be completed successfully.	Customer is to select an alternative method of payment.
104	Customer could not pay.	Transaction rejected.
105	The customer has to be redirected to Wallet Provider in order to	Redirect customer to Wallet Provider
	select a new payment method.	The state of the s
106	The order has expired.	Close order
107		Siese Grad.
108	The transaction has already been completed.	
109	Transaction (credit) denied	The refund was rejected.
110	Problem with mandate of customer at external service provider.	See external Message and contact external service provider or customer.
111	The customer has not yet completed the wallet transaction at the	p. s
111	external payment provider.	
201	The transaction was denied by iDEAL.	
202	The transaction was defined by PostFinance.	
250	SEPA mandate does not exist	Please add SEPA mandate
251	SEPA mandate not confirmed	Please confirm SEPA mandate
252	SEPA mandate parameter not valid or missing	Incorrect SEPA mandate parameter
253	SEPA configuration error	Contact PAYONE please.
254	Request not supported for this SEPA configuration	contact i ATONE picase.
255	SEPA mandate place of confirmation missing	Please add place of SEBA mandate confirmation
	DELY manage hace of communication missing	Please add place of SEPA mandate confirmation



No.	Signification	Activity
301	Amount for this payment method too low	Change amount
303	Capture amount does not match financing amount	Change amount
304	Parameter Token is expired	
305	Customer has not yet completed the transaction	
306	Transaction already has customer payments	
307	Financing Provider does not secure this transaction	Change payment type
308	Parameter {settleaccount{ does not fit to payment type financing	Change value for Parameter {settleaccount}
701	Payment denied after BIN check	Decline purchase
702	Payment was denied because of the BIN country	Decline purchase
703	Payment denied after IP check	Decline purchase
704	Payment was denied because of the IP country	Decline purchase
710	Payment denied after POS check	Decline purchase
721	Payment denied after Velocity IP check	Decline purchase
722	Payment denied after Velocity card number check	Decline purchase
723	Payment denied after Velocity account number check	Decline purchase
724	Payment denied after Velocity e-mail check	Decline purchase
731	Payment rejected by the Blacklist-IP-Check	·
732	Payment rejected by the Blacklist-Cardpan-Check	
733	Payment rejected by the Blacklist-Bankaccount-Check	
734	Payment rejected by the Blacklist-Email-Check	
872	Pseudo card PAN not found	
876	AVS mismatch: The address provided does not match billing	Decline purchase
	address of card holder.	
877	Invalid card number (Luhn check for this PAN incorrect)	Correct card number
878	Invalid card number (syntax check for this PAN incorrect)	Correct card number
879	CVC2 code incorrect length or incorrect syntax	Correct CVC2
880	Card type does not correspond with card number	Select different card type
881	Bank details cannot be used for online banking.	
882	Bank type not supported	Select different bank type
883	The account number is invalid for this sort code	Decline purchase
884	The sort code is invalid	Decline purchase
885	Bank is not supported by giropay	
886	Online transfer type not supported	Select different online transfer type
887	Invalid BIC	
888	Invalid IBAN	
889	Country of the BIC not supported.	
890	Payment declined due to current risk setting	Decline purchase
891	Debtor limit exceeded, payment refused	Decline purchase
892	Country of the account not supported.	
894	account data incomplete: account holder name missing or invalid	Correct the account holder name
895	account data incomplete: street missing or invalid	Correct the street name
896	account data incomplete: zip missing or invalid	Correct the postal code
897	account data incomplete: city missing or invalid	Correct the city name
900	Internal error	Contact PAYONE please.



No.	Signification	Activity
901	Configuration error	Contact PAYONE please.
902	Unknown error with external service provider.	Contact PAYONE please.
903	No connection to external service provider possible (timeout, breakdown)	Contact PAYONE please.
904	Temporary error	Please try again later.
905	Merchant authentication / authorization at service provider failed	Correct authentication data at service provider, please.
906	Refund amount too high	Amount exceeds the original amount or remaining sum too low
907	Sequence no incorrect	Select different sequence number
908	Capture amount too high	Amount exceeds the original amount or remaining sum too low
909	Database connection failed	Contact PAYONE please.
910	Currency does not correspond with the referenced payment process	Change currency
911	Reference number already exists	Change reference number
912	Reference number does not correspond with the referenced payment process	Change reference number
913	Referenced payment process (txid) not found	Enter different txid
915		The connector settings do not allow a refund
916	Amount error	Amount incorrect sign or zero
917	Refund limit exceeded	Please contact PAYONE
918	Upper or lower limit amount exceeded	Please contact PAYONE
919	Limit revenue exceeded	Please contact PAYONE
920	MaxPayoutAmount exceeded	Reduce amount
921	Account balance insufficient	
922	Unknown account	
923	Payment type not available for this currency or card type	Set correct currency, type of payment, type of card, type of account or portalid
924	Test mode not available	Please contact PAYONE
925	Live mode not available	Please contact PAYONE
926	Incorrect mode for the referenced payment process	Change mode (live/test)
927	No refund connector.	Please contact PAYONE
928	Article with itemtype prepaid not allowed in this request	
929	If the request contains articles with itemtype prepaid, the amount must be 0	
930	Connection does not support value of {recurrence}	change {recurrence}
931	Request does not support type of payment	Activity not possible for this type of payment
932	Collection not possible for this type of payment	Activity not possible for this type of payment
933	Multiple partial capture not supported for this method of payment	Change method of payment
934	Multiple partial capture not enabled	Please contact PAYONE
935	Amount for multiple partial capture cannot be 0	
936	Authorisation without incoming payment not possible for this type of payment	



No.	Signification	Activity
937	settleaccount does not fit to capturemode	Change settleaccount or capturemode
938	Voucher is not supported by this payment type	Remove voucher from aticle list
939	The amount of a prepaid article must be negative.	
940	Currency or cardtype not available at external service provider.	Contact external service provider please.
941	Feature referenced Transaction is not enabled at service provider.	Contact service provider and request missing
		feature, please.
944	Amount too small	
945	Amount too high	
950	Desired status change not possible for this payment process	Please try again later.
951	The maximum number of actions for this txid has been reached	
952	The Transaction was already completed.	
960	Target payment process (txid) not found	Transfer not possible
961	No incoming transfer found for this payment process	
962	Transferable amount not available	Amount too big or too small.
970	Operation was cancelled by the user.	
971	The user has not finished his action in given time.	
972	Transaction has expired	
973	Minimum age not reached	
990	Maintenance work	Please try again later.
991	Maintenance work at external service provider.	Please try again later.
1000	Parameter faulty or missing	
1001	Parameter {clearingtype} faulty or missing	
1002	Parameter {param} faulty	
1003	Parameter {reference} faulty or missing	
1004	Parameter {processing_time} faulty	
1005	Parameter {currency} faulty or missing	
1006	Parameter {due_time} faulty	
1007	Parameter {add_paydata} faulty or missing	
1008	Parameter {txid} faulty or missing	
1009	Parameter {sequencenumber} faulty or missing	
1010	Parameter {mode} faulty or missing	
1011	Parameter {workorderid} incorrect or missing	
1012	Parameter {api_version} incorrect or missing	
1013	Parameter {clearingsubtype} incorrect	
1016	Parameter {amount} faulty or missing	
1018	Parameter {max_payout_amount} faulty	
1024	Parameter {booking_date} faulty	Check format
1025	Parameter {document_date} faulty	Check format
1031	Parameter {settleaccount} faulty	
1032	Parameter {capturemode} faulty	
1035	Parameter {transactiontype} faulty or missing	
1036	Parameter {customer_is_present} faulty or missing	
1037	Parameter {recurrence} faulty or missing	
1041	Parameter {successurl} faulty or missing	



No.	Signification	Activity
1042	Parameter {backurl} faulty or missing	
1043	Parameter {errorurl} faulty or missing	
1055	Parameter {financingtype} faulty or missing	
1065	Parameter {onlinebanktransfertype} faulty or missing	
1071	Parameter {xid} faulty or missing	
1072	Parameter {storecarddata} faulty or missing	
1073	Parameter {pseudocardpan} faulty or missing	
1075	Parameter {cardissuenumber} faulty or missing	
1076	Parameter {cardtype} faulty or missing	
1077	Parameter {cardexpiredate} faulty or missing	
1078	Parameter {cardpan} faulty or missing	
1079	Parameter {cardcvc2} faulty or missing	
1080	Parameter {bankaccountholder} faulty or missing	
1081	Parameter {bankbranchcode} faulty or missing	
1082	Parameter {bankcountry} faulty or missing	
1083	Parameter {bankaccount} faulty or missing	
1084	Parameter {bankcode} faulty or missing	
1085	Parameter {bankgrouptype} faulty or missing	
1086	Parameter {bankcheckdigit} faulty or missing	
1087	Parameter {BIC} faulty or missing	
1088	Parameter {IBAN} faulty or missing	
1089	Parameter {elvtype} faulty or missing.	
1090	Parameter {shippingprovider} faulty or missing	
1091	Incomplete or missing bank-data. Define {bankaccount} or {iban}.	
1095	Parameter {wallettype} faulty or missing	
1096	Parameter {cashtype} incorrect or missing	
1100	Parameter {mandate_identification} faulty or missing	
1101	Parameter {mandate_status} faulty or missing	
1102	Parameter {mandate_dateofsignature} faulty or missing	
1103	Parameter {mandate_sequencetype} faulty or missing	
1104	Parameter {mandate_language} faulty or missing	
1110	Parameter {bankaccountholder_firstname} faulty or missing	
1111	Parameter {bankaccountholder_lastname} faulty or missing	
1112	Parameter {bankaccountholder_street} faulty or missing	
1113	Parameter {bankaccountholder_zip} faulty or missing	
1114	Parameter {bankaccountholder_city} faulty or missing	
1115	Parameter {bankaccountholder_country} faulty or missing	
1116	Parameter {bankaccountholder_email} faulty or missing	
1117	Parameter {bankaccountholder_company} faulty or missing	
1201	Parameter {encoding} faulty or missing	
1202	Parameter {request} faulty or missing	
1203	Parameter {mid} faulty or missing	
1204	Parameter {aid} faulty or missing	
1205	Parameter {portalid} faulty or missing	



No.	Signification	Activity
1206	Parameter {key} faulty	
1208	Parameter {responsetype} faulty	
1300	Parameter {customerid} faulty	
1301	Parameter {firstname} faulty or missing	
1302	Parameter {lastname} faulty or missing	
1303	Parameter {company} faulty or missing	
1310	Parameter {userid} faulty	
1311	Parameter {street} faulty or missing	
1312	Parameter {streetnumber} faulty or missing	
1313	Parameter {streetname} faulty or missing	
1314	Parameter {addressaddition} faulty or missing	
1321	Parameter {zip} faulty or missing	
1331	Parameter {city} faulty or missing	
1337	Billing address faulty or missing	
1338	Parameter combination {city} and {state} faulty or missing	
1339	Parameter {state} faulty or missing	State unknown or incorrect state
1340	Parameter {country} faulty or missing	Does not correspond with ISO 3166
1341	Parameter {language} faulty or missing	Does not correspond with ISO 639
1343	Parameter {birthday} faulty or missing	
1344	Parameter {telephonenumber} faulty or missing	
1345	Parameter {personalid} faulty or missing	
1346	Parameter {gender} faulty or missing	
1350	Parameter {email} faulty or missing	
1367	Parameter {shipping_street} faulty or missing	
1368	Parameter {shipping_company} faulty or missing	
1369	Parameter {shipping_state} faulty or missing	Shipping state unkown or wrong country
1370	Parameter {shipping_country} faulty or missing	Shipping country unkown or wrong
1371	Parameter {shipping_addressaddition} faulty or missing	
1372	Parameter {shipping_zip} faulty or missing	
1373	Parameter {shipping_city} faulty or missing	
1374	Parameter combination {shipping_city} and {shipping_state} faulty	
	or missing	
1375	Shipping address faulty or missing	
1380	Parameter {ip} faulty or missing	
1381	Parameter {use_customerdata} faulty or missing	
1390	Parameter {delete_carddata} faulty or missing	
1391	Parameter {delete_bankaccountdata} faulty or missing	
1421	Parameter {exiturl} faulty or missing	
1432	Parameter {checktype} faulty or missing	
1433	Parameter {scoretype} faulty or missing	
1434	Parameter {consumerscoretype} faulty or missing	
1435	Parameter {addresschecktype} faulty or missing	
1471	Parameter {phone_prefix} incorrect or missing	
1472	Parameter {phone_number} incorrect or missing	



No.	Signification	Activity
1473	Parameter {pin} incorrect or missing	
1501	Parameter {reminderlevel} faulty or missing	
1502	Parameter {remindertime} faulty or missing	
1503	Parameter {sendreminder} faulty or missing	
1504	Parameter {failedcause} faulty or missing	
1610	Article list faulty or incomplete	
1611	Parameter {id[n]} faulty or missing	
1612	Parameter {pr[n]} faulty or missing	
1613	Parameter {no[n]} faulty or missing	
1614	Parameter {va[n]} faulty or missing	
1615	Parameter {sd[]} faulty or missing	
1616	Parameter {ed[]} faulty or missing	
1617	Parameter {it[]} faulty or missing	
1618	Gross-amount of an item trespass the maximum	
1631	Parameter {invoice_title} faulty or missing	
1632	Parameter {invoice_deliverymode} faulty or missing	
1633	Parameter {invoice_deliverydate} faulty or missing	
1634	Parameter {invoice_deliveryenddate} faulty or missing	
1650	Parameter {file_reference} faulty or missing	
1651	Parameter {file_type} faulty or missing	
1652	Parameter {file_format} faulty or missing	
1700	Parameter {action} faulty or missing	
1705	Parameter {accessid} faulty or missing	
1706	Parameter {access_price} faulty or missing	
1707	Parameter {access_aboprice} faulty or missing	
1708	Parameter {access_expiretime} faulty or missing	
1709	Parameter {access_period} faulty	
1710	Parameter {access_aboperiod} faulty	
1711	Parameter {access_starttime} faulty or missing	
1712	Parameter {access_canceltime} faulty or missing	
1713	Parameter {access_vat} faulty or missing	
1721	Parameter {productid} faulty or missing	
1723	Parameter {id_trail} incorrect or missing.	
1724	Parameter {no_trail} (quantity) faulty or missing	
1725	Parameter {pr_trail} (price) faulty or missing	
1726	Parameter {de_trail} (description) faulty or missing	
1727	Parameter {va_trail} (VAT rate) faulty or missing	
1728	Parameter {period_unit_trail} faulty or missing	
1729	Parameter {period_length_trail} faulty or missing	
1730	Parameter {id_recurring} incorrect or missing.	
1731	Parameter {no_recurring} (quantity) faulty or missing	
1732	Parameter {pr_recurring} (price) faulty or missing	
1733	Parameter {de_recurring} (description) faulty or missing	
1734	Parameter {va_recurring} (VAT rate) faulty or missing	



No.	Signification	Activity
1735	Parameter {period_unit_recurring} faulty or missing	
1736	Parameter {period_length_recurring} faulty or missing	
1737	No item data found for initial term.	
1738	No item data found for subsequent term.	
1739	Parameter {amount_trail} faulty or missing	
1740	Parameter {amount_recurring} faulty or missing	
1753	The indicated total price of all articles from the initial term did not	
	correspond with the amounts of the individual items.	
1754	The indicated total price of all articles from the subsequent term	
	did not correspond with the amounts of the individual items.	
1755	Incomplete item data for the initial term.	
1756	Incomplete item data for the subsequent term.	
1757	Incomplete time definition for the initial term.	
1758	Incomplete time definition for the subsequent term.	
1759	For more than one item position in the initial term the price cannot	
	be transmitted without items.	
1760	For more than one item position in the subsequent term the price	
	cannot be transmitted without items.	
1761	Parameter {ti_trail} faulty or missing	
1762	Parameter {ti_recurring} faulty or missing	
1810	Parameter {vaccountname} faulty or missing	
1811	Parameter {vreference} faulty or missing	
1813	Parameter {settleperiod} faulty or missing	
1814	Parameter {settletime} faulty or missing	
1815	Parameter {settle_period_unit} faulty or missing	
1816	Parameter {settle_period_length} faulty or missing	
1817	Parameter {payout_open_balance} faulty or missing	
1999	Parameter {ecommercemode} faulty or missing	
2001	Channel not enabled for this payment portal	Contact PAYONE please.
2002	Request not supported by activated channel	Contact PAYONE please.
2003	MerchantID not found or no rights	Change MerchantID
2004	SubAccountID not found or no rights	Change SubAccountID
2005	PortalID not found or no rights	Change PortalID
2006	Key incorrect	Change key
2007	Hash incorrect	Change hash
2008	Invalid request - invalid parameter	
2011	Parameters from different API versions cannot be used	
	simultaneously.	
2012	Parameters conflict in request or do not match	Check parameters and repeat request
2013	API-request contains invalid characters	Check Encoding and do not use control characters.
3000	Function not available	
3001	Parameter getusertoken invalid. Valid values are yes/no	
3002	A user-id or a customer-id must be set.	



The usertoken is not allowed within the current request. The usertoken is not allowed within the currequest. The usertoken is not allowed within the currequest. The user of usertoken and userid is mutt exclusive. The user of usertoken and userid is mutt exclusive. The user of usertoken and userid is mutt exclusive. The user of usertoken has a wrong format. The user of usertoken transmitted is faulty. It should a length of 24chars and should consist alphanumerical characters including the. You are already using the transmitted customer in the desired customer is already present. The customer to create is already present, probably used a token generated by yourself. The customer create is already present, probably used a token generated by yourself. The modes of request and dataset have to me they have been desired. The modes of request and dataset have to me they need to be either test or live. They need to be either test or live. Change customer number Sank data cannot be deleted, order prevailing Sank data cannot be deleted, virtualAccount not balanced Card data cannot be deleted, virtualAccount not balanced Address check not enabled Card data cannot be deleted, virtualAccount not balanced Cancel or continue without address check Cancel or continue without address check Cancel or continue without consumer score check Cancel o	No.	Signification	Activity	
request. The use of usertoken and userid is multi- exclusive. The user of usertoken and userid is multi- exclusive. The usertoken has a wrong format. The usertoken transmitted is faulty, it should it a length of 24chars and should consist alphanumerical characters including the. 3007 The transmitted customerid is not allowed. You are already using the transmitted customer of the desired customer is already present. The customer to create is already present. Probably used a token generated by yourself. The customer identified by the token does exist. 3000 The modes do not match. The modes of request and dataset have to me they need to be either test or live. 2001 Customer not found or insufficient privileges Change customer number 3010 Bank data cannot be deleted, order prevailing 3010 Bank data cannot be deleted, order prevailing 3010 Card data cannot be deleted, VirtualAccount not balanced 3010 Address check not enabled 4010 Address check not enabled 4010 Country not supported Cancel or continue without address check 4011 Address not found 4041 Address not found 4042 Address not found 4052 City ambiguous Address not found 4053 Street not found 4064 Street ambiguous Address correct, however it could not corrected. 4053 Street not found 4054 Street ambiguous Address correct, however it could not corrected. 4055 Wrong post office box number 4056 Street number error 4057 Overseas address 4058 Street invalid 4059 Credit reform, company credit information - no hits 4060 Credit reform, company credit information - no hits 4070 Credit reform, company credit information - no hits 4071 Credit reform, company credit information - no hits 4071 Credit reform, company credit information - too many hits 4071 Continue payment process without 3-D Secure	3003	Usertoken not found.	The usertoken was not found. It is either not present or expired.	
exclusive.	3004	The usertoken is not allowed within the current request.	The usertoken is not allowed within the current request.	
a length of 24chars and should consist alphanumerical characters including the . 3007 The transmitted customerid is not allowed. 3008 The desired customer is already present. 3009 The customer to create is already present. 3009 The customer does not exist. 3010 The modes do not match. 3010 The modes do not match. 3020 Customer not found or insufficient privileges 3030 Bank data cannot be deleted, order prevailing 3030 Bank data cannot be deleted, order prevailing 3030 Card data cannot be deleted, virtualAccount not balanced 3030 Card data cannot be deleted, VirtualAccount not balanced 4001 Address check not enabled 4001 Country not supported 4001 Country not supported 4010 Country not supported 4011 Country not supported 4020 City ambiguous 4032 Street not found 4042 Address not found 4042 City ambiguous 4052 City ambiguous 4053 Street not found 4054 Street ambiguous 4055 Wrong post office box number 4055 Wrong post office box number 4056 Street number error 4057 Change street, post code or city 4058 Street invalid 4061 Consumer score check not enabled 507 Cedit reform, company credit information - too many hits 4080 Merchant does not participate in the 3D Secure procedure 4081 Change query 4080 Merchant does not participate in the 3D Secure procedure 4080 Merchant does not participate in the 3D Secure procedure 4081 Change appending payment process without 3-D Secure	3005	Usertoken and Userid are not to be transmitted simultaniously.	The use of usertoken and userid is mutually exclusive.	
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4200 Merchant does not participate in the 3D Secure procedure Continue payment process without 3-D Secure				
A201 Request is not supported by payment portal type Change payment portal	4200	Request is not supported by payment portal type	Change payment portal	



No.	Signification	Activity
4208	Card does not participate in 3D Secure	Continue payment process
4209	PaRes Check not necessary	Cancel payment process
4210	3D Secure error	Continue payment process without 3-D Secure
4211	PaRasCheck error (status=A).	Continue with 3DS (ECI06)
4212	PaRasCheck error (status=U).	Continue without 3DS (ECI07)
4213	PaRasCheck error (authentication failed).	Cancel
4214	3D Secure transaction requires XID.	Cancel activity
4215	Indicated ECI mode not supported by 3D Secure	Cancel activity
4216	XID not found.	Cancel activity
4217	3D Secure authentication not completed yet	Booking declined
4218	3D Secure authentication failed	Booking declined
4219	Successful 3D Secure authentication required	Booking declined
4302	Check type incorrect	Change check type
4743	Callback: Country not supported	Cancel or continue without callback
4744	Callback: Prefix disabled	Only use local or mobile numbers
4745	Callback: Number incorrect	Area code or base number incorrect
5050	Dunning level cannot be set	Dunning status does not allow setting a new
		dunning level
5052	Error on repeated sending of a reminder.	Please try again later
5054	Dunning date could not be set	
6032	Invoice not found	
6500	File not found	Check reference, format, type
6501	File not unique	Check reference, format, type
6502	Service temporarily unavailable	Please try again later.
7005	Access ID not found or no rights	
7008	Contract expiry date in the past or before the start date	
7011	Contract start date in the past	
7012	Term of contract has already started	
7021	ProductID not found or no rights	
7030	Operation not allowed under current access status.	
7040	The total amount of the items in the initial term equals 0.	
7041	The total amount of the items in the subsequent term equals 0.	
7042	The property {InvoiceAppendix} does not have the correct data	
	type.	
7043	The IP address does not have the correct data type.	
8010	VirtualAccountName already used for another customer	Select different name or select correct customer.
8011	Reference number (virtual account) already exists	Change reference number
8020	Currency does not correspond with the virtual account	Change currency
8030	Portal ID does not correspond with the virtual account.	Change portal ID
8040	Mode does not correspond with the virtual account.	Change mode



5.8 ISO Currencies (ISO 4127)

The PAYONE Platform and its shop modules are optimized for currencies with two decimals. Currencies without or with three decimals can be generally processed with certain limitations – please contact the PAYONE Merchant Service for further information.

E.g.:

Currency	Alpha	Num	Decimals
Euro	EUR	978	2
Australian Dollar	AUD	036	2
Swiss Franc	CHF	756	2
Danish Krone	DKK	208	2
Pound Sterling	GBP	826	2
Norwegian Krone	NOK	578	2
New Zealand Dollar	NZD	554	2
Swedish Krona	SEK	752	2
US Dollar	USD	840	2



5.9 ISO Countries (ISO 3166)

ISO	Country	ISO	Country
AD	Andorra	LA	Lao People's Democratic Republic
AE	United Arab Emirates	LB	Lebanon
AF	Afghanistan	LC	Saint Lucia
AG	Antigua And Barbuda	LI	Liechtenstein
Al	Anguilla	LK	Sri Lanka
AL	Albania	LR	Liberia
AM	Armenia	LS	Lesotho
AN	Netherlands Antilles	LT	Lithuania
AO	Angola	LU	Luxembourg
AQ	Antarctica	LV	Latvia
AR	Argentina	LY	Libyan Arab Jamahiriya
AS	American Samoa	MA	Morocco
AT	Austria	MC	Monaco
AU	Australia	MD	Moldova, Republic Of
AW	Aruba	MG	Madagascar
AZ	Azerbaijan	МН	Marshall Islands
ВА	Bosnia And Herzegowina (Herzegowina)	MK	Republic Of Macedonia (The Former Yugoslav)
ВВ	Barbados	ML	Mali
BD	Bangladesh	MM	Myanmar
BE	Belgium	MN	Mongolia
BF	Burkina Faso	MO	Macau
BG	Bulgaria	MP	Northern Mariana Islands
ВН	Bahrain	MQ	Martinique
ВІ	Burundi	MR	Mauritania
BJ	Benin	MS	Montserrat
BM	Bermuda	MT	Malta
BN	Brunei Darussalam	MU	Mauritius
ВО	Bolivia	MV	Maldives
BR	Brazil	MW	Malawi
BS	Bahamas	MX	Mexico
ВТ	Bhutan	MY	Malaysia
BV	Bouvet Island	MZ	Mozambique
BW	Botswana	NA	Namibia
ВҮ	Belarus	NC	New Caledonia
BZ	Belize	NE	Niger
CA	Canada	NF	Norfolk Island
CC	Cocos (Keeling) Islands	NG	Nigeria



ISO	Country	ISO	Country
CF	Central African Republic	NI	Nicaragua
CG	Congo	NL	Netherlands
СН	Switzerland	NO	Norway
CI	Cote d'Ivoire	NP	Nepal
СК	Cook Islands	NR	Nauru
CL	Chile	NU	Niue
CM	Cameroon	NZ	New Zealand
CN	China	OM	Oman
СО	Colombia	PA	Panama
CR	Costa Rica	PE	Peru
CU	Cuba	PF	French Polynesia
CV	Cape Verde	PG	Papua New Guinea
CX	Christmas Island	PH	Philippines
CY	Cyprus	PK	Pakistan
CZ	Czech Republic	PL	Poland
DE	Germany	PM	St. Pierre And Miquelon
DJ	Djibouti	PN	Pitcairn
DK	Denmark	PR	Puerto Rico
DM	Dominica	PT	Portugal
DO	Dominican Republic	PW	Palau
DZ	Algeria	PY	Paraguay
EC	Ecuador	QA	Qatar
EE	Estonia	RE	Reunion
EG	Egypt	RO	Romania
EH	Western Sahara	RU	Russian Federation
ER	Eritrea	RW	Rwanda
ES	Spain	SA	Saudi Arabia
ET	Ethiopia	SB	Solomon Islands
EU	Europe (SSGFI only)	SC	Seychelles
FI	Finland	SD	Sudan
FJ	Fiji	SE	Sweden
FK	Falkland Islands (Malvinas)	SG	Singapore
FM	Micronesia, Federated States Of	SH	St. Helena
FO	Faroe Islands	SI	Slovenia
FR	France	SJ	Svalbard And Jan Mayen Islands
FX	France, Metropolitan	SK	Slovakia (Slovak Republic)
GA	Gabon	SL	Sierra Leone
GB	United Kingdom (UK)	SM	San Marino
GD	Grenada	SN	Senegal
GE	Georgia	SO	Somalia



ISO	Country	ISO	Country
GF	French Guiana	SR	Suriname
GH	Ghana	ST	Sao Tome And Principe
GI	Gibraltar	SV	El Salvador
GL	Greenland	SY	Syrian Arab Republic
GM	Gambia	SZ	Swaziland
GN	Guinea	TC	Turks And Caicos Islands
GP	Guadeloupe	TD	Chad
GQ	Equatorial Guinea	TF	French Southern Territories
GR	Greece	TG	Togo
GS	South Georgia And The South Sandwich Islands	TH	Thailand
GT	Guatemala	TJ	Tajikistan
GU	Guam	TK	Tokelau
GW	Guinea-Bissau	TM	Turkmenistan
GY	Guyana	TN	Tunisia
НК	Hong Kong	ТО	Tonga
НМ	Heard And Mc Donald Islands	TP	East Timor
HN	Honduras	TR	Turkey
HR	Croatia (local name: Hrvatska)	TT	Trinidad And Tobago
HT	Haiti	TV	Tuvalu
HU	Hungary	TW	Taiwan, Province Of China
ID	Indonesia	TZ	Tanzania, United Republic Of
IE	Ireland	UA	Ukraine
II	International (SSGFI only)	UG	Uganda
IL	Israel	UM	United States Minor Outlying Islands
IN	India	US	United States
Ю	British Indian Ocean Territory	UY	Uruguay
IQ	Iraq	UZ	Uzbekistan
IR	Iran (Islamic Republic Of)	VA	Vatican City State (Holy See)
IS	Iceland	VC	Saint Vincent And The Grenadines
IT	Italy	VE	Venezuela
JM	Jamaica	VG	Virgin Islands (British)
JO	Jordan	VI	Virgin Islands (U.S.)
JP	Japan	VN	Vietnam
KE	Kenya	VU	Vanuatu
KG	Kyrgyzstan	WF	Wallis And Futuna Islands
KH	Cambodia	WS	Samoa
KI	Kiribati	YE	Yemen
KM	Comoros	YT	Mayotte
KN	Saint Kitts And Nevis	YU	Yugoslavia



ISO	Country	ISO	Country
KP	Korea, Democratic People's Republic Of	ZA	South Africa
KR	Korea, Republic Of	ZM	Zambia
KW	Kuwait	ZR	Zaire
KY	Cayman Islands	ZW	Zimbabwe
KZ	Kazakhstan		



5.10 ISO Subdivisions (ISO 3166-2)

These values are used for parameter "state" and "shipping_state" and represent principal subdivisions of a country.

Here a list of a few codes – for complete reference refer to http://en.wikipedia.org/wiki/ISO_3166-2

5.10.1 US-Subdivisions

ISO	Country	ISO	Country
AK	Alaska	MT	Montana
AL	Alabama	NC	North Carolina
AR	Arkansas	ND	North Dakota
AS	American Samoa	NE	Nebraska
AZ	Arizona	NH	New Hampshire
CA	California	NJ	New Jersey
СО	Colorado	NM	New Mexico
СТ	Connecticut	NV	Nevada
DC	District of Columbia	NY	New York
DE	Delaware	ОН	Ohio
FL	Florida	OK	Oklahoma
GA	Georgia	OR	Oregon
GU	Guam	PA	Pennsylvania
HI	Hawaii	PR	Puerto Rico
IA	Iowa	RI	Rhode Island
ID	Idaho	SC	South Carolina
IL	Illinois	SD	South Dakota
IN	Indiana	TN	Tennessee
KS	Kansas	TX	Texas
KY	Kentucky	UM	United States Minor
LA	Louisiana	UT	Utah
MA	Massachusetts	VA	Virginia
MD	Maryland	VI	Virgin Islands, U.S.
ME	Maine	VT	Vermont
MI	Michigan	WA	Washington
MN	Minnesota	WI	Wisconsin
МО	Missouri	WV	West Virginia
MP	Northern Mariana Islands	WY	Wyoming
MS	Mississippi		



5.10.2 CA-Subdivisions

ISO	Country	ISO	Country
AB	Alberta	PE	Prince Edward Island
ВС	British Columbia	QC	Quebec
МВ	Manitoba	SK	Saskatchewan
NB	New Brunswick	NT	Northwest Territories
NL	Newfoundland and Labrador	NU	Nunavut
NS	Nova Scotia	YT	Yukon
ON	Ontario		

5.10.3 MX-Subdivisions

ISO	Country	ISO	Country
BCN	Baja California	MOR	Morelos
DIF	Distrito Federal	NAY	Nayarit
AGU	Aguascalientes	NLE	Nuevo León
BCS	Baja California Sur	OAX	Oaxaca
CAM	Campeche	PUE	Puebla
COA	Coahuila	QUE	Querétaro
COL	Colima	ROO	Quintana Roo
СНР	Chiapas	SLP	San Luis Potosí
СНН	Chihuahua	SIN	Sinaloa
DUR	Durango	SON	Sonora
GUA	Guanajuato	TAB	Tabasco
GRO	Guerrero	TAM	Tamaulipas
HID	Hidalgo	TLA	Tlaxcala
JAL	Jalisco	VER	Veracruz
MEX	México	YUC	Yucatán
MIC	Michoacán	ZAC	Zacatecas



5.10.4 AR-Subdivisions

Code	Country	Code	Country
С	Ciudad Autónoma de Buenos Aires	М	Mendoza
В	Buenos Aires	N	Misiones
K	Catamarca	Q	Neuquén
Н	Chaco	R	Río Negro
U	Chubut	Α	Salta
Х	Córdoba	J	San Juan
W	Corrientes	D	San Luis
E	Entre Ríos	Z	Santa Cruz
Р	Formosa	S	Santa Fe
Υ	Jujuy	G	Santiago del Estero
L	La Pampa	V	Tierra del Fuego
F	La Rioja	Т	Tucumán

5.10.5 BR-Subdivisions

Code	Country		Country
		Code	
		130	
DF	Distrito Federal	РВ	Paraíba
AC	Acre	PR	Paraná
AL	Alagoas	PE	Pernambuco
AP	Amapá	PI	Piauí
AM	Amazonas	RJ	Rio de Janeiro
ВА	Bahia	RN	Rio Grande do Norte
CE	Ceará	RS	Rio Grande do Sul
ES	Espírito Santo	RO	Rondônia
GO	Goiás	RR	Roraima
MA	Maranhão	SC	Santa Catarina
MT	Mato Grosso	SP	São Paulo
MS	Mato Grosso do Sul	SE	Sergipe
MG	Minas Gerais	TO	Tocantins
PA	Pará		



5.10.6 CN-Subdivisions

Code	Country	Code	Country
11	Beijing	43	Hunan
12	Tianjin	44	Guangdong
13	Hebei	45	Guangxi
14	Shanxi	46	Hainan
15	Nei Mongol (mn), (Inner Mongolia)	50	Chongqing
21	Liaoning	51	Sichuan
22	Jilin	52	Guizhou
23	Heilongjiang	53	Yunnan
31	Shanghai	54	Xizang (Tibet)
32	Jiangsu	61	Shaanxi
33	Zhejiang	62	Gansu
34	Anhui	63	Qinghai
35	Fujian	64	Ningxia
36	Jiangxi	65	Xinjiang
37	Shandong	71	Taiwan
41	Henan	91	Hong Kong (en) Xianggang (zh)
42	Hubei	92	Macao (en) Aomen (zh)

5.10.7 ID-Subdivisions

Code	Country	Code	Country
AC	Aceh, Aceh	MA	Maluku, Maluku
ВА	Bali, Bali	MU	Maluku Utara, North Maluku
ВВ	Bangka Belitung, Bangka–Belitung Islands	NB	Nusa Tenggara Barat, West Nusa Tenggara
ВТ	Banten, Banten	NT Nusa Tenggara Timur, East Nusa Tenggara	
BE	Bengkulu, Bengkulu	ı, Bengkulu PA Papua, Papua	
GO	Gorontalo, Gorontalo	Gorontalo PB Papua Barat, West Papua	
JA	Jambi, Jambi	RI	Riau, Riau
JB	Jawa Barat, West Java	SR	Sulawesi Barat, West Sulawesi
JT	Jawa Tengah, Central Java SN		Sulawesi Selatan, South Sulawesi
JI	Jawa Timur, East Java	Jawa Timur, East Java ST Sulawesi Tengah, Central Sulaw	
KB	Kalimantan Baratm, West Kalimantan SG Sulawesi Tenggara, Southeast		Sulawesi Tenggara, Southeast Sulawesi
KS	Kalimantan Selatan, South Kalimantan	SA	Sulawesi Utara, North Sulawesi
KT	Kalimantan Tengah, Central Kalimantan	SB	Sumatera Barat, West Sumatra
KI	Kalimantan Timur, East Kalimantan	SS	Sumatera Selatan, South Sumatra
KU	Kalimantan Utara, North Kalimantan	SU	Sumatera Utara, North Sumatra



Code	Country	Code	Country
KR	Kepulauan Riau, Riau Islands	JK	Jakarta Raya, Jakarta
LA	Lampung, Lampung	YO	Yogyakarta, Yogyakarta

5.10.8 IN-Subdivisions

Code	Country		Code	Country	
AP	Andhra Pradesh		NL	Nagaland	
AR	Arunachal Pradesh		OR	Odisha	
AS	Assam		PB	Punjab	
BR	Bihar		RJ	Rajasthan	
СТ	Chhattisgarh		SK	Sikkim	
GA	Goa		TN	Tamil Nadu	
GJ	Gujarat		TG	Telangana	
HR	Haryana		TR	Tripura	
HP	Himachal Pradesh		UT	Uttarakhand	
JK	Jammu and Kashmir		UP	Uttar Pradesh	
JH	Jharkhand		WB	West Bengal	
KA	Karnataka	AN Andaman and Nicobar Islands		Andaman and Nicobar Islands	
KL	Kerala		СН	Chandigarh	
MP	Madhya Pradesh	DN Dadra and Nagar Haveli		Dadra and Nagar Haveli	
МН	Maharashtra		DD	Daman and Diu	
MN	Manipur		DL	Delhi	
ML	Meghalaya		LD	Lakshadweep	
MZ	Mizoram		PY	Puducherry	



5.10.9 TH-Subdivisions

Code	Country	Code	Country
10	Krung Thep Maha Nakhon [Bangkok]	82	Phangnga
S	Phatthaya	93	Phatthalung
37	Amnat Charoen 56		Phayao
15	Ang Thong	67	Phetchabun
38	Bueng Kan	76	Phetchaburi
31	Buri Ram	66	Phichit
24	Chachoengsao	65	Phitsanulok
18	Chai Nat	54	Phrae
36	Chaiyaphum	14	Phra Nakhon Si Ayutthaya
22	Chanthaburi	83	Phuket
50	Chiang Mai	25	Prachin Buri
57	Chiang Rai	77	Prachuap Khiri Khan
20	Chon Buri	85	Ranong
86	Chumphon	70	Ratchaburi
46	Kalasin	21	Rayong
62	Kamphaeng Phet	45	Roi Et
71	Kanchanaburi	27	Sa Kaeo
40	Khon Kaen	47	Sakon Nakhon
81	1 Krabi		Samut Prakan
52	Lampang		Samut Sakhon
51	Lamphun 75		Samut Songkhram
42	Loei	19	Saraburi
16	Lop Buri	91	Satun
58	Mae Hong Son	17	Sing Buri
44	Maha Sarakham	33	Si Sa Ket
49	Mukdahan	90	Songkhla
26	Nakhon Nayok	64	Sukhothai
73	Nakhon Pathom	72	Suphan Buri
48	Nakhon Phanom	84	Surat Thani
30	Nakhon Ratchasima	32	Surin
60	Nakhon Sawan	63	Tak
80	Nakhon Si Thammarat	92	Trang
55	Nan	23	Trat
96	Narathiwat	34	Ubon Ratchathani
39	Nong Bua Lam Phu	41	Udon Thani
43	Nong Khai	61	Uthai Thani
12	Nonthaburi	53	Uttaradit
13	Pathum Thani	95	Yala



Code	Country	Code	Country
94	Pattani	35	Yasothon



5.11 ISO Languages (ISO 639-1)

List of common ISO 639-1 Codes

ISO	Country	ISO	Country
de	German	lb	Luxembourgish
en	English	lt	Lithuanian
bg	Bulgarian	nl	Dutch
CS	Czech	no	Norwegian
es	Spanish; Castilian	pl	Polish
fi	Finnish	pt	Portuguese
fr	French	ro	Romanian
hr	Croatian	sl	Slovenian
hu	Hungarian	tr	Turkish
ja	Japanese		



6 Glossar

Name	Description
BBAN	Basic Bank Account Number
	Describes the bank account specified by "classic" values:
	countrycode
	bankaccount
	bankcode (where applicable)
	bankbranchcode (where applicable)
	bankcheckdigit (where applicable)
BIN	Bank Identification Number
	Describes the issuing bank of a credit card and is represented by the first six digits of a credit card number (PAN).
CVV	Card Verification Code (aka CVC, "cardcvc2")
	The card verification code is a 3 or 4 digit code and printed on the rear side of the credit card. It must not be stored at any time.
IBAN	International Bank Account Number
	IBAN and BIC specify an international bank account. BIC is planned to be optional within Germany from 2014-02-01 and optional within international bank transfer (in Europe) from 2016-02-01.
masked cardpan	The complete creditcard number must not be logged or displayed at any time.
	The masked creditcard number (masked cardpan) is shown as 6X4 and may be stored or shown to a user, e.g.: 1234 56xx xxxx 1234 or 1234 56xx xxxx1 234
МОТО	Mail Or Telephone Order
	Describes the order process where an operator processes a payment with details for a customer. The customer provides the payment details (credit card details, bank account details) via email or phone.
PAN	Primary account number
	Is the complete credit card number (from 13 to 19 digits) and must not be processed or stored without PCI DSS certification (neither in database nor in log files).
	PAN may only be recorded either encrypted (only with PCI DSS certification) or masked/truncated (max: 6x4).
Payment Process ID	Unique payment process Id assigned to each payment process by PAYONE Platform.
PPS	PAYONE Payment Services
	All payments are processed via PAYONE accounts. Single contract with PAYONE, centralized payout services.
truncated cardpan	The complete creditcard number must not be logged or displayed at any time.
	The truncated creditcard number (truncated cardpan) is shown as X4 and may be stored or shown to a user, e.g.: xxxx xxxx xxxx 1234 or xxxx xxxx xxxx 1234



7 Contact

Do you have questions or do you need further information?

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