

PAYMENT SERVER

Web Services Server to Server Documentation

PAYMENT SERVER

Table of Contents

1	Document History	3
2	Introduction	4
2.1	Contents	4
2.2	Web services	4
2.3	Changes	4
2.4	Methods	5
2.5	Ping	6
2.5.1	Description	6
2.5.2	Web service method call	6
2.6	sendAuthorization (send authorization)	7
2.6.1	Description	7
2.6.2	Web service method call	7
2.7	sendAuthorizationPrepared (send authorization prepared)	9
2.7.1	Description	9
2.7.2	Web service method call	9
2.8	sendReauthorizationPrepared (Send reauthorization prepared)	11
2.8.1	Description	11
2.8.2	Web service method call	11
2.9	sendReauthorization (send reauthorization)	13
2.9.1	Description	13
2.9.2	Web service method call	13
2.10	sendReversalAdvice (Reversal Advice)	15
2.10.1	Description	15
2.10.2	Web service method call	15
2.11	sendCapture (Capture)	16
2.11.1	Description	16
2.11.2	Web service method call	16
2.12	sendCaptureCredit (CaptureCredit)	17
2.12.1	Description	17
2.12.2	Web service method call	17
2.13	sendRecurringAuthorization (Authorization)	18
2.13.1	Description	18
2.13.2	Web service method call	18
2.14	sendRecurringCapture(Capture)	20
2.14.1	Description	20
2.14.2	Web service method call	20
2.15	sendRecurringCaptureCredit (CaptureCredit)	21
2.15.1	Description	21
2.15.2	Web service method call	21
2.16	findOrder	22
2.16.1	Description	22
2.16.2	Web service method call	22
2.17	findOrders	24
2.17.1	Description	24
2.17.2	Web service method call	24
2.18	contactSupport	26
2.18.1	Description	26
2.18.2	Web service method call	26
3	POS codes (POINT OF SERVICE DATA CODE)	27
4	Test cards	27
5	Action Codes	28

PAYMENT SERVER

1 Document History

Revision	Date	Change
1	1 st July 2005	Version 1
2	1 st August 2006	Version 1.1
3	1 st November 2006	Version 1.2
4	31 st January 2007	Version 1.3

PAYMENT SERVER

2 Introduction

2.1 Contents

This instructions manual contains a description of the web services provided by the PBS Payment Server.

2.2 Web services

In the following the web services of the PBS Payment Server are described. The WSDL file to which this document refers can be found at

<https://pay.pbs-international.dk/pipay/services/PBSService?wsdl>

WSDL or Web Services Description Language is an XML format used to describe network services as a set of endpoints operating on messages containing either document-oriented or procedure-oriented information. The operations and messages are described abstractly, and then bound to a concrete network protocol and message format to define an endpoint. Related concrete endpoints are combined into abstract endpoints (services). WSDL is extensible to allow description of endpoints and their messages regardless of what message formats or network protocols are used for communication. Once the user has access to the WSDL, all necessary formats are available.

2.3 Changes

When integrating to the PBS Payment Server using the web services, you should not assume that the described return parameters are the only ones possible. As the system is expanded, additional parameters may be added.

PAYMENT SERVER

2.4 Methods

The following methods are available in the PBS Payment Server:

- **ping**
- **sendAuthorization**
- **sendAuthorizationPrepared** (since 1.2)
- **sendReauthorization** (since 1.2)
- **sendReauthorizationPrepared** (since 1.2)
- **sendReversalAdvice**
- **sendCapture**
- **sendCaptureCredit**
- **sendRecurringAuthorization**
- **sendRecurringCapture**
- **sendRecurringCaptureCredit**
- **findOrder**
- **findOrders**
- **contactSupport**

Each method is described in the following chapters.

PAYMENT SERVER

2.5 Ping

2.5.1 Description

Purpose: To verify that the PBS Payment Gateway is up and running. The function checks each of the separate parts of the PBS Payment Gateway.

2.5.2 Web service method call

METHOD: ping

INPUT MESSAGE:

No input parameters

OUTPUT MESSAGE: pingResponse

Parameter	Description
"pingReturn"	Complex parameter types, see ping (following)
type="tns1:ping"	

ping

Parameter	Description
"value"	String containing date and time of Ping request: e.g. " Aug 24 13:09:35 CEST 2005 "
type="soapenc:string"	

PAYMENT SERVER

2.6 sendAuthorization (send authorization)

2.6.1 Description

Purpose: Executes the first element of a transaction, the authorization process. The amount to be captured is reserved on the cardholder account. The purpose of the authorization is to verify the validity of the card and the availability of the amount in the cardholder's account with the card issuer.

NB: This web service (sendAuthorization) is reserved for mail order and telephone order use. For internet transactions please refer to the Web-shop integration manual.

2.6.2 Web service method call

METHOD: sendAuthorization

INPUT MESSAGE: sendAuthorizationRequest

Parameter	Description
"merchantID" type="soapenc:string"	ID to identify the merchant. Assigned to the merchant when created in the PBS Payment Server
"serverFlag" type="soapenc:string"	Marks the transaction to be performed on either the Test Gateway or the Production Gateway. "P" = production, "T" = test.
"accountNumber" type="soapenc:string"	The card number of the payment card (between 11 and 19 digits) dependent on the card type.
"cardVerificationCode" type="soapenc:string"	Card verification code (CVC/CVV).
"amount" type="soapenc:string"	Amount in minor unit - e.g. 100 for DKK 1.-
"currencyCode" type="soapenc:string"	Currency codes as in ISO4217.
"expirationDate" type="soapenc:string"	The date of expiry of the card, specified as MMY, e.g. 0612 for June, year 2012
"acquirerReferenceData" type="soapenc:string"	Merchant's reference, order number, used for the authorization. (max. 20 characters – digits and letters allowed).
"functionCode" type="soapenc:string"	Indication of type of amount: <ul style="list-style-type: none">"100", exact amount"101", estimated amount (when total amount is unknown due to e.g. cost and freight) *) <p>*) Note that the captured amount may normally NOT exceed the authorized amount. If the captured amount is higher than the authorized amount, the card issuer may charge back the exceeding amount.</p>
"reasonCode" type="soapenc:string"	Indication of transaction type: <ul style="list-style-type: none">"0000", normal transaction"1511", merchant suspicious of fraud
"pointOfServiceDataCode" type="soapenc:string"	Indication of transaction origin. See chapter 3 for values.
"processingCode" type="soapenc:string"	Indication of type of purchase: <ul style="list-style-type: none">"000000", goods or services"150000", quasi-cash
"recurring" type="xsd:boolean"	Flag to indicate whether or not the transaction should be created as a recurring transaction (i.e. subscription orders)

PAYMENT SERVER

OUTPUT MESSAGE:

sendAuthorizationResponse

Parameter	Description
"sendAuthorizationReturn"	Complex parameter type, see send_authorization (below)
type="tns1:send_authorization"	

send_authorization:

Parameter	Description
"actionCode"	Response code from PBS indicating the status of the transaction and which action must be taken by the merchant.
type="soapenc:string"	A list of action codes can be found in chapter 5.
"amount"	Authorized amount.
type="soapenc:string"	
"approvalCode"	If "actionCode" is "000", "060", "061", "063", "900" or "901", the authorization is approved and an approval code of 6 characters is generated and sent to the merchant.
type="soapenc:string"	If the authorization is declined, the "approvalCode" will contain spaces.
"exp"	Card expiration date MMY
type="soapenc:string"	
"cardType"	Card type presented as a numeric value:
type="soapenc:string"	0 = Dankort 2 = eDankort 3 = Visa 5 = Visa Electron 6 = MasterCard 7 = JCB 9 = Maestro 15 = American Express 16 = Diners
"cardID"	The first 6 digits of the card number
type="soapenc:string"	
"failed"	TRUE if the authorization is declined, FALSE if the authorization is approved.
type="xsd:Boolean"	
"gatewayResponseCode"	Gateway status returned from PBS, indicating 1 of 5 possible values. Response code 000 = OK. If another code is returned, the text will explain the reason for the error code.
type="xsd:int"	
"partlyApproved"	TRUE if the transaction is partly authorized (an amount smaller than the requested amount has been authorized).
type="xsd:boolean"	FALSE if the full amount is authorized.

PAYMENT SERVER

2.7 sendAuthorizationPrepared (send authorization prepared)

2.7.1 Description

Purpose: Executes the first element of a transaction, the authorization process but is different from the sendAuthorization method in the fact that this method is to be used if the transaction is expected to be reauthorized later without knowing the amount to be reauthorized or disallowing a change in the amount. This method saves the amount to actually be reauthorized and performs an authorization of the amount 0 (zero). To reauthorize the transaction the sendReauthorizationPrepared method should be used which will use the amount saved by this method.

NB: This web service (sendAuthorizationPrepared) is reserved for mail order and telephone order use. For internet transactions please refer to the Web-shop integration manual.

2.7.2 Web service method call

METHOD: sendAuthorizationPrepared
INPUT MESSAGE: sendAuthorizationPreparedRequest

Parameter	Description
"merchantID"	ID to identify the merchant. Assigned to the merchant when created in the PBS Payment Server
type="soapenc:string"	
"serverFlag"	Marks the transaction to be performed on either the Test Gateway or the Production Gateway. "P" = production, "T" = test.
type="soapenc:string"	
"accountNumber"	The card number of the payment card (between 11 and 19 digits) dependent on the card type.
type="soapenc:string"	
"cardVerificationCode"	Card verification code (CVC/CVV).
type="soapenc:string"	
"amount"	Amount in minor unit - e.g. 100 for DKK 1.-
type="soapenc:string"	
"currencyCode"	Currency codes as in ISO4217.
type="soapenc:string"	
"expirationDate"	The date of expiry of the card, specified as MMY, e.g. 0612 for June, year 2012
type="soapenc:string"	
"acquirerReferenceData"	Merchant's reference, order number, used for the authorization. (max. 20 characters – digits and letters allowed).
type="soapenc:string"	
"functionCode"	Indication of type of amount:
type="soapenc:string"	<ul style="list-style-type: none">"100", exact amount"101", estimated amount (when total amount is unknown due to e.g. cost and freight) *)
	*) Note that the captured amount may normally NOT exceed the authorized amount. If the captured amount is higher than the authorized amount, the card issuer may charge back the exceeding amount.
"reasonCode"	Indication of transaction type:
type="soapenc:string"	<ul style="list-style-type: none">"0000", normal transaction"1511", merchant suspicious of fraud
"pointOfServiceDataCode"	Indication of transaction origin. See chapter 3 for values.
type="soapenc:string"	
"processingCode"	Indication of type of purchase:

PAYMENT SERVER

type="soapenc:string"	<ul style="list-style-type: none">• "000000", goods or services• "150000", quasi-cash
"prepared" type="xsd:boolean"	Flag to indicate whether or not the transaction should be prepared meaning a pre-authorization to later be re-authorized.
"recurring" type="xsd:boolean"	Flag to indicate whether or not the transaction should be created as a recurring transaction (i.e. subscription orders)

OUTPUT MESSAGE:

sendAuthorizationPreparedResponse

Parameter	Description
"sendAuthorizationReturn"	Complex parameter type, see send_authorization (below)
type="tns1:send_authorization"	

send_authorization:

Parameter	Description
"actionCode" type="soapenc:string"	Response code from PBS indicating the status of the transaction and which action must be taken by the merchant. A list of action codes can be found in chapter 5.
"amount" type="soapenc:string"	Authorized amount.
"approvalCode" type="soapenc:string"	If "actionCode" is "000", "060", "061", "063", "900" or "901", the authorization is approved and an approval code of 6 characters is generated and sent to the merchant. If the authorization is declined, the "approvalCode" will contain spaces.
"exp" type="soapenc:string"	Card expiration date MMY
"cardType" type="soapenc:string"	Card type presented as a numeric value: 0 = Dankort 2 = eDankort 3 = Visa 5 = Visa Electron 6 = MasterCard 7 = JCB 9 = Maestro 15 = American Express 16 = Diners
"cardID" type="soapenc:string"	The first 6 digits of the card number
"failed" type="xsd:Boolean"	TRUE if the authorization is declined, FALSE if the authorization is approved.
"gatewayResponseCode" type="xsd:int"	Gateway status returned from PBS, indicating 1 of 5 possible values. Response code 000 = OK. If another code is returned, the text will explain the reason for the error code.
"partlyApproved" type="xsd:boolean"	TRUE if the transaction is partly authorized (an amount smaller than the requested amount has been authorized). FALSE if the full amount is authorized.

PAYMENT SERVER

2.8 sendReauthorizationPrepared (Send reauthorization prepared)

2.8.1 Description

Purpose: Reauthorizes a previously pre-authorized transaction. This method is only to be used in conjunction with sendAuthorizationPrepared which will save the amount to be authorized by this method.

NB: This web service (sendReauthorizationPrepared) is reserved for mail order and telephone order use. For internet transactions please refer to the Web-shop integration manual.

2.8.2 Web service method call

METHOD: sendReauthorizationPrepared

INPUT MESSAGE: sendReauthorizationPreparedRequest

Parameter	Description
"merchantID"	ID to identify the merchant. Assigned to the merchant when created in the PBS Payment Server
type="soapenc:string"	
"acquirerReferenceData"	Merchant's reference, order number, used for the authorization. (max. 20 characters – digits and letters allowed).
type="soapenc:string"	

OUTPUT MESSAGE: sendReauthorizationPreparedResponse

Parameter	Description
"sendAuthorizationReturn"	Complex parameter type, see send_authorization (below)
type="tns1:send_authorization"	

send_authorization:

Parameter	Description
"actionCode"	Response code from PBS indicating the status of the transaction and which action must be taken by the merchant. A list of action codes can be found in chapter 5.
type="soapenc:string"	
"amount"	Authorized amount.
type="soapenc:string"	
"approvalCode"	If "actionCode" is "000","060","061","063","900" or "901", the authorization is approved and an approval code of 6 characters is generated and sent to the merchant. If the authorization is declined, the "approvalCode" will contain spaces.
type="soapenc:string"	
"exp"	Card expiration date MMY
type="soapenc:string"	
"cardType"	Card type presented as a numeric value: 0 = Dankort 2 = eDankort 3 = Visa
type="soapenc:string"	

PAYMENT SERVER

	5 = Visa Electron 6 = MasterCard 7 = JCB 9 = Maestro 15 = American Express 16 = Diners
"cardID"	The first 6 digits of the card number
type="soapenc:string"	
"failed"	TRUE if the authorization is declined, FALSE if the authorization is approved.
type="xsd:Boolean"	
"gatewayResponseCode"	Gateway status returned from PBS, indicating 1 of 5 possible values. Response code 000 = OK. If another code is returned, the text will explain the reason for the error code.
type="xsd:int"	
"partlyApproved"	TRUE if the transaction is partly authorized (an amount smaller than the requested amount has been authorized).
type="xsd:boolean"	FALSE if the full amount is authorized.

PAYMENT SERVER

2.9 sendReauthorization (send reauthorization)

2.9.1 Description

Purpose: Reauthorizes a transaction previously authorized with an amount of 0 (zero).

NB: This web service (sendReauthorization) is reserved for mail order and telephone order use. For internet transactions please refer to the Web-shop integration manual.

2.9.2 Web service method call

METHOD: sendReauthorization

INPUT MESSAGE: sendReauthorizationRequest

Parameter	Description
"merchantID"	ID to identify the merchant. Assigned to the merchant when created in the PBS Payment Server
type="soapenc:string"	
"amount"	Amount in minor unit - e.g. 100 for DKK 1.-
type="soapenc:string"	
"acquirerReferenceData"	Merchant's reference, order number, used for the authorization. (max. 20 characters – digits and letters allowed).
type="soapenc:string"	

OUTPUT MESSAGE: sendReauthorizationResponse

Parameter	Description
"sendAuthorizationReturn"	Complex parameter type, see send_authorization (below)
type="tns1:send_authorization"	

send_authorization:

Parameter	Description
"actionCode"	Response code from PBS indicating the status of the transaction and which action must be taken by the merchant. A list of action codes can be found in chapter 5.
type="soapenc:string"	
"amount"	Authorized amount.
type="soapenc:string"	
"approvalCode"	If "actionCode" is "000","060","061","063","900" or "901", the authorization is approved and an approval code of 6 characters is generated and sent to the merchant. If the authorization is declined, the "approvalCode" will contain spaces.
type="soapenc:string"	
"exp"	Card expiration date MMY
type="soapenc:string"	
"cardType"	Card type presented as a numeric value: 0 = Dankort 2 = eDankort 3 = Visa
type="soapenc:string"	

PAYMENT SERVER

	5 = Visa Electron 6 = MasterCard 7 = JCB 9 = Maestro 15 = American Express 16 = Diners
"cardID"	The first 6 digits of the card number
type="soapenc:string"	
"failed"	TRUE if the authorization is declined, FALSE if the authorization is approved.
type="xsd:Boolean"	
"gatewayResponseCode"	Gateway status returned from PBS, indicating 1 of 5 possible values. Response code 000 = OK. If another code is returned, the text will explain the reason for the error code.
type="xsd:int"	
"partlyApproved"	TRUE if the transaction is partly authorized (an amount smaller than the requested amount has been authorized).
type="xsd:boolean"	FALSE if the full amount is authorized.

PAYMENT SERVER

The following web services are applicable to all transaction types.

2.10 sendReversalAdvice (Reversal Advice)

2.10.1 Description

Purpose: Cancellation of an authorization. The reservation of the authorized amount on the cardholder account is cancelled.

2.10.2 Web service method call

METHOD: sendReversalAdvice
INPUT MESSAGE: sendReversalAdviceRequest

Parameter	Description
"merchantID"	ID to identify the merchant. Assigned to the merchant when created in the PBS Payment Server
type="soapenc:string"	
"password"	Password required for reversal advice
type="soapenc:string"	
"orderid"	Merchant's reference, order number, used for the authorization. (max. 20 characters – digits and letters allowed).
type="soapenc:string"	
"reasonCode"	Indication of transaction type for use by recipient (PBS). There are 4 options
type="soapenc:string"	
	<ul style="list-style-type: none">• "4000", customer cancellation• "4001", unspecified, no action taken• "4002", suspected malfunction• "4004", completed partially

OUTPUT MESSAGE: sendAuthorizationResponse

Parameter	Description
"sendReversalAdviceReturn"	Complex parameter type, see send_reversaladvice (below)
type="tns1:send_reversaladvice"	

send_reversaladvice:

Parameter	Description
"actionCode"	Response code from PBS indicating status of transaction and which action the merchant must take. If "actionCode" is "000", "060", "061", "063", "900" or "901", the reversal advice is approved. A list of actions codes can be found in chapter 5.
type="soapenc:string"	
"failed"	TRUE if the reversal advice failed, FALSE if the reversal advice succeeded.
type="xsd:boolean"	
"gatewayResponseCode"	Gateway status returned from PBS, indicating 1 of 5 possible values. Response code 000 = OK. If another code is returned, the text will explain the reason for the error code.
type="xsd:int"	

PAYMENT SERVER

2.11 sendCapture (Capture)

2.11.1 Description

Purpose: Executes the second element of a transaction, the capture process. When the goods are shipped to the customer, the authorized amount is captured, i.e. deposited with the acquirer for settlement.

2.11.2 Web service method call

METHOD: sendCapture
INPUT MESSAGE: sendCaptureRequest

Parameter	Description
"merchantID"	ID to identify the merchant. Assigned to the merchant when created in the PBS Payment Server
type="soapenc:string"	
"orderid"	Merchant's reference, order number, used for the authorization. (max. 20 characters – digits and letters allowed).
type="soapenc:string"	
"amount"	Amount in minor unit - ex. 100 for DKK 1,-
type="soapenc:string"	
"functionCode"	Indication of type of amount: <ul style="list-style-type: none">"201", Previously approved authorization, same amount"202", Previously approved authorization, different amount *)
type="soapenc:string"	
	*) Note that the captured amount may normally NOT exceed the authorized amount. If the captured amount is higher than the authorized amount, the card issuer may charge back the exceeding amount.

OUTPUT MESSAGE: sendCaptureResponse

Parameter	Description
"sendCaptureReturn"	Complex parameter type, see send_capture (below)
type="tns1:send_capture"	

send_capture:

Parameter	Description
"actionCode"	Response code from PBS indicating the status of the transaction and which action must be taken by the merchant.
type="soapenc:string"	
	If "actionCode" is "000","060","061","063","900" or "901", the capture is approved.
	A list of action codes can be found in chapter 5.
"failed"	TRUE if the capture failed, FALSE if the capture succeeded.
type="xsd:boolean"	
"gatewayResponseCode"	Gateway status returned from PBS, indicating 1 of 5 possible values. Response code 000 = OK. If another code is returned, the text will explain the reason for the error code.
type="xsd:int"	

PAYMENT SERVER

2.12 sendCaptureCredit (CaptureCredit)

2.12.1 Description

Purpose: Cancels a successful capture and transfers the amount to the cardholder's account.

2.12.2 Web service method call

METHOD: sendCaptureCredit
INPUT MESSAGE: sendCaptureCreditRequest

Parameter	Description
"merchantID"	ID to identify the merchant. Assigned to the merchant when created in the PBS Payment Server.
Type="soapenc:string"	
"password"	Password required for capture credit
Type="soapenc:string"	
"orderid"	Merchants reference, order number, used for the authorization. (max. 20 chars – digits and letters allowed).
Type="soapenc:string"	
"amount"	Amount in minor unit - ex. 100 for DKK 1,-
type="soapenc:string"	

OUTPUT MESSAGE: sendCaptureCreditResponse

Parameter	Description
"sendCaptureCreditReturn"	Complex parameter type, see send_capturecredit (Following)
type="tns1:send_capturecredit"	

send_capturecredit:

Parameter	Description
"actionCode"	Response code from PBS indicating the status of the transaction and which action must be taken by the merchant.
type="soapenc:string"	If "actionCode" is "000", "060", "061", "063", "900" or "901", the capture credit is approved. A list of action codes can be found in chapter 5.
"failed"	TRUE if the capture credit failed, FALSE if the capture credit succeeded.
type="xsd:boolean"	
"gatewayResponseCode"	Gateway status returned from PBS, indicating 1 of 5 possible values.
type="xsd:int"	Response code 000 = OK. If another code is returned, the text will explain the reason for the error code.

PAYMENT SERVER

2.13 sendRecurringAuthorization (Authorization)

2.13.1 Description

Purpose: Executes the first element of a transaction, the authorization process, when the order concerns a subscription (RecurringAuthorization).

This method is used after the authorization has been performed as a normal authorization (the sendAuthorization method) with the "recurring" flag set to TRUE. This method verifies that the card is still valid and reserves the amount in the cardholder's account to be captured at the time of delivery of the goods/services (RecurringCapture).

2.13.2 Web service method call

METHOD: sendRecurringAuthorization

INPUT MESSAGE: sendRecurringAuthorizationRequest

Parameter	Description
"merchantID" type="soapenc:string"	ID to identify the merchant. Assigned to the merchant when created in the PBS Payment Server
"subscriptionid" type="soapenc:string"	Merchant's reference, subscription number, used for the authorization (max. 20 characters – digits and letters allowed).
"orderid" type="soapenc:string"	Merchant's reference, order number, used for the authorization (max. 20 characters – digits and letters allowed).
"amount" type="soapenc:string"	Amount in minor unit - e.g. 100 for DKK 1,-
"functionCode" type="soapenc:string"	Indication of type of amount: <ul style="list-style-type: none">• "100", exact amount• "101", estimated amount (when total amount is unknown due to e.g. cost and freight) *) <p>*) Note that capture may normally NOT exceed the authorized amount. If the captured amount is higher than the authorized amount, the card issuer may charge back the exceeding amount.</p>
"reasonCode" type="soapenc:string"	Indication of transaction type: <ul style="list-style-type: none">• "0000", normal transaction• "1511", merchant suspicious of fraud
"processingCode" type="soapenc:string"	Indication of type of purchase: <ul style="list-style-type: none">• "000000", goods or services• "150000", quasi-cash

OUTPUT MESSAGE: sendRecurringAuthorizationResponse

Parameter	Description
"sendRecurringAuthorizationReturn" type="tns1:send_authorization"	Complex parameter type, see send_authorization (below)

PAYMENT SERVER

send_authorization:

Parameter	Description
"actionCode"	Response code from PBS indicating the status of the transaction and which action must be taken by the merchant.
type="soapenc:string"	A list of action codes can be found in chapter 5.
"amount"	Authorized amount.
type="soapenc:string"	
"approvalCode"	If "actionCode" is "000", "060", "061", "063", "900" or "901", the authorization is approved and an approval code of 6 characters is sent to the merchant.
type="soapenc:string"	If the authorization is declined the "approvalCode" will contain spaces.
"failed"	TRUE if the authorization is declined, FALSE if the authorization is approved.
type="xsd:boolean"	
"gatewayResponseCode"	Gateway status returned from PBS, indicating 1 of 5 possible values.
type="xsd:int"	Response code 000 = OK. If another code is returned, the text will explain the reason for the error code.
"partlyApproved"	TRUE if the transaction is partly authorized (an amount smaller than the requested amount has been authorized).
type="xsd:boolean"	FALSE if the full amount is authorized.

PAYMENT SERVER

2.14 sendRecurringCapture(Capture)

2.14.1 Description

Purpose: Executes the second element of a transaction, the capture process (RecurringCapture). When the goods are shipped or services rendered to the customer, the authorized amount is captured, i.e. the transaction is deposited with the acquirer for settlement.

2.14.2 Web service method call

METHOD: sendRecurringCapture

INPUT MESSAGE: sendRecurringCaptureRequest

Parameter	Description
"merchantID"	ID to identify the merchant. Assigned to the merchant when created in the PBS Payment Server.
Type="soapenc:string"	
"orderid"	Merchant's reference, order number, used for the authorization. (max. 20 characters – digits and letters allowed).
Type="soapenc:string"	
"amount"	Amount in minor unit - e.g. 100 for DKK 1,-
type="soapenc:string"	
"functionCode"	Indication of type of amount: <ul style="list-style-type: none">"201", Previously approved authorization, same amount"202", Previously approved authorization, different amount *)
type="soapenc:string"	
	*) Note that capture may normally NOT exceed the authorized amount. If the captured amount is higher than the authorized amount, the card issuer may charge back the exceeding amount.

OUTPUT MESSAGE: sendRecurringCaptureResponse

Parameter	Description
"sendRecurringCaptureReturn"	Complex parameter type, see send_capture (below)
type="tns1:send_capture"	

send_capture:

Parameter	Description
"actionCode"	Response code from PBS indicating the status of the transaction and which action must be taken by the merchant.
type="soapenc:string"	
	If "actionCode" is "000", "060", "061", "063", "900" or "901", the capture is approved.
	A list of action codes can be found in chapter 5.
"failed"	TRUE if the capture is declined, FALSE if the capture is approved.
type="xsd:boolean"	
"gatewayResponseCode"	Gateway status returned from PBS, indicating 1 of 5 possible values. Response code 000 = OK. If another code is returned, the text will explain the reason for the error code.
type="xsd:int"	

PAYMENT SERVER

2.15 sendRecurringCaptureCredit (CaptureCredit)

2.15.1 Description

Purpose: Cancels a successful capture and transfers the amount to the cardholder's account. The maximum amount to be transferred equals the amount previously captured as a recurring capture.

2.15.2 Web service method call

METHOD: sendRecurringCaptureCredit

INPUT MESSAGE: sendRecurringCaptureCreditRequest

Parameter	Description
"merchantID"	ID to identify the merchant. Assigned to the merchant when created in the PBS Payment Server.
type="soapenc:string"	
"password"	Password required for recurring capture credit
type="soapenc:string"	
"orderid"	Merchant's reference, order number, used for the authorization. (max. 20 characters – digits and letters allowed).
type="soapenc:string"	
" amount "	Amount in minor unit - e.g. 100 for DKK 1,-
type="soapenc:string"	

OUTPUT MESSAGE: sendRecurringCaptureCreditResponse

Parameter	Description
"sendRecurringCaptureCreditReturn"	Complex parameter type, see send_capturecredit (following)
type="tns1:send_capturecredit"	

send_capturecredit:

Parameter	Description
"actionCode"	Response code from PBS indicating the status of the transaction and which action must be taken by the merchant. If "actionCode" is "000", "060", "061", "063", "900" or "901", the capture credit is approved. A list of action codes can be found in chapter 5.
type="soapenc:string"	
"failed"	TRUE if the capture credit is declined, FALSE if the capture credit is approved.
type="xsd:boolean"	
"gatewayResponseCode"	Gateway status returned from PBS, indicating 1 of 5 possible values. Response code 000 = OK. If another code is returned, the text will explain the reason for the error code.
type="xsd:int"	

PAYMENT SERVER

2.16 findOrder

2.16.1 Description

Purpose: Find a specific order (transaction) by means of merchantID and order number.

2.16.2 Web service method call

METHOD: findOrder

INPUT MESSAGE: findOrderRequest

Parameter	Description
"merchantID"	Unique name identifying the merchant in the PBS Payment Server.
type="soapenc:string"	
"password"	Password required for showing order
type="soapenc:string"	
" acquirerReferenceData "	Unique order number assigned by merchant.
type="soapenc:string"	

OUTPUT MESSAGE: findOrderResponse

Parameter	Description
"findOrderReturn"	Complex parameter type, see find_order (below)
type="tns1:find_order"	

PAYMENT SERVER

find_order:

Parameter	Description
"PAN"	Card number (truncated)
type="soapenc:string"	
"acquirerReferenceData"	Unique order number assigned by merchant
type="soapenc:string"	
"authorisationtype"	Integer value indicating authorization type:
type="xsd:int"	<ul style="list-style-type: none">1 = Ecommerce without authentication2 = eDankort3 = 3D-secure
"created"	The time when the order was created
type="xsd:dateTime"	
"currencyCode"	ISO4217 code identifying the currency used (e.g. "DKK" for Danish Kroner)
type="soapenc:string"	
"dateExpiration"	4 digit expiration date (MMYY)
type="soapenc:string"	
"maxCaptureAmount"	Value indicating the maximum amount which can be captured in <i>Major units of currency</i>
type="xsd:double"	
"maxCaptureCreditAmount"	Value indicating the maximum amount which can be credited in <i>Major units of currency</i>
type="xsd:double"	
"recurring"	Flag indicating whether or not this order is recurring (i.e. subscription)
type="xsd:boolean"	
"state"	Transaction status of the order:
type="soapenc:string"	<ul style="list-style-type: none">"A" = Authorized"C" = Captured"R" = Credited"N" = Cancelled

PAYMENT SERVER

2.17 findOrders

2.17.1 Description

Purpose: Searches one or more orders by means of merchantID and order number. The maximum number of transactions that can be listed is 100.

2.17.2 Web service method call

METHOD: findOrders

INPUT MESSAGE: findOrdersRequest

Parameter	Description
"merchantID"	Unique name identifying the merchant in the PBS Payment Server.
type="soapenc:string"	
"password"	Password required for showing orders
type="soapenc:string"	
"serverFlag"	Single letter indicating Test or Production environment search
type="soapenc:string"	<ul style="list-style-type: none">"T" = Test environment"P" = Production environment
"createdAfter"	Return only orders created after this time. Set createdAfter to NULL (xsi:nil="true") to perform an open ended search
type="xsd:dateTime"	
"createdBefore"	Return only orders created before this time. Set createdBefore to NULL (xsi:nil="true") to perform an open-ended search
type="xsd:dateTime"	
"states"	String value created by combining the single letter order states. If for example state is set to value = "AC", only Authorized and Captured transactions will be shown.
type="soapenc:string"	

OUTPUT MESSAGE: findOrdersResponse

Parameter	Description
"findOrderReturn"	Complex parameter type, see find_order (below)
type="impl:ArrayOf_tns1_find_order"	

PAYMENT SERVER

find_order:

Parameter	Description
"PAN"	Card number (truncated)
type="soapenc:string"	
"acquirerReferenceData"	Unique order number assigned by merchant
type="soapenc:string"	
"authorisationtype"	Integer value indicating authorization type:
type="xsd:int"	<ul style="list-style-type: none">• 1 = Ecommerce without authentication• 2 = eDankort• 3 = 3D-secure
"created"	The time when the order was created
type="xsd:dateTime"	
"currencyCode"	ISO4217 code identifying the currency used (e.g. "DKK" for Danish Kroner)
type="soapenc:string"	
"dateExpiration"	4 digit expiration date (MMYY)
type="soapenc:string"	
"maxCaptureAmount"	Value indicating the maximum amount which can be captured in <i>Major units of currency</i>
type="xsd:double"	
"maxCaptureCreditAmount"	Value indicating the maximum amount which can be credited in <i>Major units of currency</i>
type="xsd:double"	
"recurring"	Flag indicating whether or not this order is recurring (i.e. subscription)
type="xsd:boolean"	
"state"	Single letter order state determined from the last successful transaction:
type="soapenc:string"	<ul style="list-style-type: none">• "A" = Authorized• "C" = Captured• "R" = Credited• "N" = Cancelled

PAYMENT SERVER

2.18 contactSupport

2.18.1Description

Purpose: Sends an email to PBS support centre that will subsequently contact the merchant.

2.18.2Web service method call

METHOD: contactSupport
INPUT MESSAGE: contactSupportRequest

Parameter	Description
"merchantID"	Unique name identifying the merchant in the PBS Payment Server
type="soapenc:string"	
"subject"	Subject or nature of problem.
type="soapenc:string"	
"message"	Detailed description of the problem encountered by the merchant. No need to append contact information as this is obtained from the supplied merchantID.
type="soapenc:string"	

OUTPUT MESSAGE: contactSupportResponse

Parameter	Description
"contactSupportReturn"	Complex parameter type, see contact_support (below).
type="tns1:contact_support"	

contact_support:

Parameter	Description
"value"	String containing the value "SUCCESS" indicating that an email has been sent.
type="soapenc:string"	

PAYMENT SERVER

3 POS codes (POINT OF SERVICE DATA CODE)

- Mail order transactions:
 - '100020100110'
- Phone order transactions:
 - '100030100110'
- Recurring transaction:
 - 'K00540K00130'

4 Test cards

The following test card numbers may be used for testing purposes. The card number might either be approved or declined depending on the currently provided action code specified as the last digits of the card number. For the available action codes and meaning see Section 5. Any other card number may be either approved or declined in the test phase.

Authorization (and Capture) is approved.

The date of expiration of all cards is: **date of expiry (mm/YY): 03/10 and CVC/CVV: 741**

Card type	Card number
Visa	4111 0000 0000 0000
MasterCard	5111 0000 0000 0000
JCB	3528 0000 0000 0000
Dankort	5019 0000 0000 0000
Visa/Dankort	4571 0000 0000 0000
Diners Club	3614 000000 0000
American Express	3747 000000 00000

Authorization declined:

The date of expiration of all cards is: **date of expiry (mm/YY): 03/10 and CVC/CVV: 741**

xxx is filled in with the requested action code

Card type	Card number
Visa	4111 0000 0000 0xxx
MasterCard	5111 0000 0000 0xxx
JCB	3528 0000 0000 0xxx
Dankort	5019 0000 0000 0xxx
Visa/Dankort	4571 0000 0000 0xxx
Diners Club	3614 000000 0xxx
American Express	3747 000000 00xxx

PAYMENT SERVER

Capture is declined (authorization is approved):

The date of expiration of all cards is: **date of expiry (mm/YY)**: 03/10 and **CVC/CVV**: 741

xxx is filled in with the requested action code

Card type	Card number
Visa	4111 9000 0000 0xxx
MasterCard	5111 9000 0000 0xxx
JCB	3528 9000 0000 0xxx
Dankort	5019 9000 0000 0xxx
Visa/Dankort	4571 9000 0000 0xxx
Diners Club	3614 900000 0xxx
American Express	3747 900000 00xxx

5 Action Codes

Action Code	Merchant text	Action against cardholder
000	Approved	Approved
001	Honor with identification	Decline
002	Approved for partial amount	Partly Approved
060	Approved	Approved
061	Approved	Approved
063	Approved	Approved
100	Do not honor	Decline
101	Expired Card	Decline/Expired Card
102	Suspected Fraud	Decline
103	Card acceptor contact acquirer	Decline
104	Restricted card	Decline
105	Card Acceptor call Acquirers security department	Decline
106	Allowable pin tries exceeded	Decline
107	Refer to card issuer	Decline
108	Refer to card issuer special conditions	Decline
109	Invalid merchant	Decline
110	Invalid amount	Decline/Amount Error
111	Invalid card number	Decline
112	Pin data required	Decline
113	Unacceptable fee	Decline
114	No account of type requested	Decline
115	Requested function not supported	Decline
116	Not sufficient funds	Decline
117	incorrect pin	Decline
118	No card record	Decline
119	Transaction not permitted to cardholder	Decline/Invalid Transaction
120	Transaction not permitted to terminal	Decline/Invalid Transaction
121	Exceeds withdrawal amount limit	Decline

PAYMENT SERVER

122	Security violation	Decline
123	Exceeds withdrawal frequency limit	Decline
124	Violation of law	Decline
125	Card not effective	Decline
126	Invalid pin block	Decline
127	Pin length error	Decline
128	Pin key synch error	Decline
129	Suspected counterfeit card	Decline
160	Invalid date	Decline
161	Allowable number of pin tries exceeded	Decline
162	Unable to locate previous message	Decline
164	Card entry found, below low range	Decline
165	Pan length not according to table	Decline
167	Match on previous transaction not allowed	Decline
200	Do not honor	Decline
201	Expired card	Decline/Expired Card
202	Suspected fraud	Decline
203	Card acceptor contact acquirer	Decline
204	Restricted card	Decline
205	Card acceptor call acquires security department	Decline
206	Allowable pin tries exceeded	Decline
207	Special conditions	Decline
208	Lost cards	Decline
209	Stolen card	Decline
210	Suspected counterfeit card	Decline
900	Advice acknowledged, no financial liability accepted.	Approved
901	Advice acknowledged, financial liability accepted.	Approved
902	Invalid transaction Decline/Invalid	Transaction
903	Re-enter transaction	Decline
904	Format error	Decline/ System Error
905	Acquirer not supported by switch	Decline/System Error
906	Cut over in process	No Reply
907	Card issuer or switch inoperative	No Reply
908	Transaction destination cannot find routing	Decline
909	System malfunction	Decline/ System Error
910	Card issuer signed off	No Reply
911	Card issuer timed out	No Reply
912	Card issuer unavailable	No Reply
913	Duplicate transmission	Decline/ System Error
914	Not able to trace back to original transaction	Decline
915	Reconciliation cut over or checkpoint error	No Reply
916	MAC incorrect	Decline/System Error

PAYMENT SERVER

917	MAC key sync error	Decline/System Error
918	No communication keys available	Decline/System Error
919	Encryption key error	Decline/System Error
920	Security software/hardware error, try again	System Error
921	Security software/hardware error, no action	System Error
922	Message number out of sequence	System Error
923	Request in progress	System Error
940	Invalid date and time, local transaction	System Error
945	KIR (PBS host) timeout	No Reply
946	PGW error occurred, unspecified	No Reply
950	Violation of business arrangement	Decline/ System Error
984	No valid conversion for a field	Decline/ System Error