



# Debtor Management Ideal

Integration Guide

Version 6.2.2

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## Document history

Date	Name	Change
04.10.2016	Peter Posse	First version based on Paygate Manual 6.10
31.03.2017	Peter Posse	PayType PD added, AddrStreetNr optional

# ABOUT DEBTOR MANAGEMENT IDEAL

## General information about Debtor Management Ideal

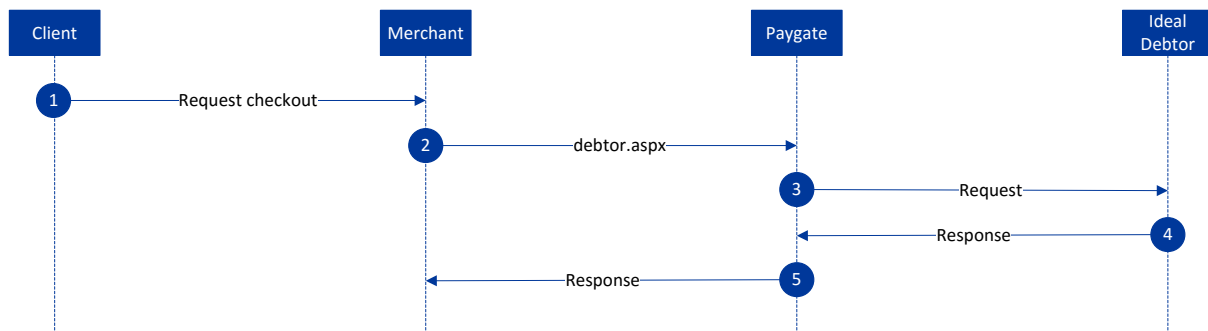
Computop Paygate offers together with a partner/third party service provider a complete debtor management system to merchants. Via Computop merchants can maintain debtor accounts and provide information about payment status of all payment methods to the service provider to ensure account checking and traceability.



The Paygate offers individually scalable solutions for financial and debtor accountings - including the downstream processes such as logistics, dunnings or debt collection.

Further information can be found on the webpage of Ideal Debtor Management (<http://www.ideal-fullservice.de/debitoren-und-forderungsmanagement.html>).

## Process flow chart



Ideal debtor management process flow

# PAYGATE INTERFACE

## Definitions

Data formats:

Format	Description
a	alphabetical
as	alphabetical with special characters
n	numeric
an	alphanumeric
ans	alphanumeric with special characters
ns	numeric with special characters
bool	boolean expression (true or false)
3	fixed length with 3 digits/characters
..3	variable length with maximum 3 digits/characters
enum	enumeration of allowed values
dtm	ISODateTime (YYYY-MM-DDDhh:mm:ss)

Abbreviations:

Abbreviation	Description
CND	condition
M	mandatory
O	optional
C	conditional

## Create debtors

To create a debtor via a Server-to-Server connection, go to the following URL:

<https://www.computop-paygate.com/debtor.aspx>

**Notice:** For security reasons, Paygate rejects all payment requests with formatting errors. Therefore please use the correct data type for each parameter.

The following table describes the transfer parameters to be encrypted:

Parameter	Format	CND	Description
MerchantID	ans..30	M	MerchantID, assigned by Computop This parameter is to be passed in plain language.

<b>TransID</b>	ans..20	M	TransactionID which should be unique for each payment
<b>Currency</b>	a3	M	Currency, three digits DIN / ISO 4217
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>EventToken</b>	a2	M	Abbreviation of the action to be done: <MD> for ManageDebtor
<b>Master data</b>			
<b>Salutation</b>	ans..50	O	Salutation
<b>FirstName</b>	ans..50	M	First name of the customer
<b>LastName</b>	ans..50	M	Last name of the customer
<b>AddrStreet</b>	ans..45	M	Street name
<b>AddrStreetNr</b>	ans..5	O	Street number
<b>AddrAddition</b>	ans..50	O	Address c/o
<b>AddrZip</b>	ans..10	O	Postcode
<b>AddrCity</b>	ans..45	O	City
<b>AddrCountryCode</b>	a2	O	Two characters country code according to ISO 3166
<b>TaxID</b>	ans1	M	value added tax key / tax area
<b>DebtorID</b>	ans..10	M	debtor number
<b>Custgroup</b>	ans..4	O	Customer group
<b>AccOwner</b>	ans..30	O	Account holder
<b>AccBank</b>	ans..40	O	Name of the bank
<b>BIC</b>	ans..11	O	BIC
<b>IBAN</b>	ans..34	O	IBAN
<b>Email</b>	ans..50	O	E-mail address
<b>Phone</b>	ans..20	O	Telephone number
<b>CustomerID</b>	n..10	M	Customer number

Parameters for creating debtors

The following table describes the result parameters with which the Paygate responds to your system:

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..20	M	Merchant's transaction number
<b>Status</b>	a..50	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm

Response parameters for creating debtors

## Create transaction

With reference to already created debtors you can create transactions and prepayments and reverse them if necessary.

To create a transaction, please enter the following URL:

<https://www.computop-paygate.com/debtor.aspx>

**Notice:** For security reasons, Paygate rejects all payment requests with formatting errors. Therefore please use the correct data type for each parameter.

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
<b>MerchantID</b>	ans..30	M	MerchantID, assigned by Computop
<b>TransID</b>	ans..20	M	TransactionID which should be unique for each payment
<b>RefNr</b>	ns..30	M	Reference to payment, e.g. invoice number, can be same as document number (OP-number)
<b>Amount</b>	n..12	M	Amount in the smallest currency unit (e.g. EUR Cent) Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
<b>Currency</b>	a3	M	Currency, three digits DIN / ISO 4217
<b>AmountClass</b>	ans..1024	O	Assignment of net amounts (max. 11 digits in smallest currency unit) of a tax code (3 digits) to proceed codes (max. 10 digits) separated by “;”. Further assignments are separated by “+”. Example: 4500000000;2235;101+4400000000;1595;002 Proceed code 4500000000; Amount 22,35€; tax code 101
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>EventToken</b>	a2	M	Abbreviation of the action to be done: <OC> for Open Position Create
<b>PayType</b>	ans..3	M	<CC>= credit card <EDD>= direct debit (ELV) <SO>= directEbanking <PP>= PayPal <GP>= Giropay <PD>= PayDirekt <SK>= cheque <BP>= BillPay <COD>= cash on delivery <RG>= Invoice
<b>DebitorID</b>	ans..10	M	debtor number
<b>CustomerID</b>	n..10	M	Customer number
<b>ShopID</b>	ans..2	M	accounting area, e.g. 01 for shop A – will be assigned for each client
<b>PayTerm</b>	ans..3	O	payment term
<b>InvoiceDate</b>	n6	O	Invoice date in the format DDMMYY: OP_Valuta date, if invoice is due at a later time
<b>NetAmount</b>	n..11	M	Net amount in own currency
<b>TaxCode1</b>	n..3	M	Tax code 1: 101 for 19% domestic tax
<b>NetAmount1</b>	n..11	M	Net amount for tax code 1
<b>TaxAmount1</b>	n..11	M	Tax amount for tax code 1

<b>TaxCode2</b>	n..3	M	Tax code 2: 002 for 7% domestic tax
<b>NetAmount2</b>	n..11	M	Net amount for tax code 2
<b>TaxAmount2</b>	n..11	M	Tax amount for tax code 2
<b>TaxCode3</b>	n..3	M	Tax code 3: 000 for 0% domestic tax
<b>NetAmount3</b>	n..11	M	Net amount for tax code 3
<b>TaxAmount3</b>	n..11	M	Tax amount for tax code 3

Parameters for creating transactions

The following table describes the Paygate response parameters:

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..20	M	Merchant's transaction number
<b>Status</b>	a..50	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm

Response parameters for creating transactions

## Create payment with prepayment

To create a prepayment, please enter the following URL:

<https://www.computop-paygate.com/debtor.aspx>

**Notice:** For security reasons, Paygate rejects all payment requests with formatting errors. Therefore please use the correct data type for each parameter.

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
<b>MerchantID</b>	ans..30	M	MerchantID, assigned by Computop
<b>TransID</b>	ans..20	M	TransactionID which should be unique for each payment
<b>RefNr</b>	ns..30	M	Reference to payment, e.g. invoice number, can be same as document number (OP-number)
<b>Amount</b>	n..12	M	Amount in the smallest currency unit (e.g. EUR Cent) Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
<b>Currency</b>	a3	M	Currency, three digits DIN / ISO 4217
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm



<b>EventToken</b>	a2	M	Abbreviation of the action to be done: <AN> for creation <ST> for reversal <ZE> for paid <UP> for Update Data Record
<b>CustomerID</b>	n..10	M	Customer number
<b>ShoppingBasket ID</b>	n..18	M	ID of shopping cart
<b>CreationDate</b>	dtm8	M	Creation date of shopping cart in the format YYYYMMDD
<b>DueDate</b>	dtm8	M	Expiration date in the format YYYYMMDD
<b>PayType</b>	ans.3	M	<PRP> = prepayment

Parameters for creating prepayments

The following table describes the Paygate response parameters:

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..20	M	Merchant's transaction number
<b>Status</b>	a..50	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm

Response parameters for creating prepayments

## Reverse transaction

To reverse a transaction, please enter the following URL:

<https://www.computop-paygate.com/debtor.aspx>

**Notice:** For security reasons, Paygate rejects all payment requests with formatting errors. Therefore please use the correct data type for each parameter.

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
<b>MerchantID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>TransID</b>	ans..20	M	TransactionID which should be unique for each payment
<b>Amount</b>	n..12	M	Amount in the smallest currency unit (e.g. EUR Cent) Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).

<b>Currency</b>	a3	M	Currency, three digits DIN / ISO 4217
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>EventToken</b>	a2	M	Abbreviation of the action to be done: <OS> for Open Position Storno

Parameters for reversal of transactions

The following table describes the Paygate response parameters:

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..20	M	Merchant's transaction number
<b>Status</b>	a..50	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm

Response parameters for reversal of transactions

## Credit transaction

To credit a transaction, please enter the following URL:

<https://www.computop-paygate.com/debtor.aspx>

**Notice:** For security reasons, Paygate rejects all payment requests with formatting errors. Therefore please use the correct data type for each parameter.

The following table describes the encrypted payment request parameters:

Parameter	Format	CND	Description
<b>MerchantID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>TransID</b>	ans..20	M	TransactionID which should be unique for each payment
<b>Amount</b>	n..12	M	Amount in the smallest currency unit (e.g. EUR Cent) Please contact the helpdesk, if you want to capture amounts < 100 (smallest currency unit).
<b>Currency</b>	a3	M	Currency, three digits DIN / ISO 4217
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm
<b>EventToken</b>	a2	M	Abbreviation of the action to be done: <CR> for Credit

Parameters for credit of transactions

The following table describes the Paygate response parameters:

Parameter	Format	CND	Description
<b>MID</b>	ans..30	M	MerchantID, assigned by Computop
<b>PayID</b>	an32	M	ID assigned by Paygate for the payment, e.g. for referencing in batch files.
<b>XID</b>	an32	M	ID for all single transactions (authorisation, capture, credit note) for one payment assigned by Paygate
<b>TransID</b>	ans..20	M	Merchant's transaction number
<b>Status</b>	a..50	M	OK or FAILED
<b>Description</b>	ans..1024	M	Further details in the event that payment is rejected. Please do not use the <b>Description</b> but the <b>Code</b> parameter for the transaction status analysis!
<b>Code</b>	n8	M	Error code according to Paygate Response Codes Excel file (part of the software client from <a href="http://www.computop.de/manual">www.computop.de/manual</a> )
<b>MAC</b>	an64	M	Hash Message Authentication Code (HMAC) with SHA-256 algorithm

Response parameters for credit of transactions