

Smart Data Reference Guide

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About this Guide

This guide serves as a reference to the format and contents of the reports generated and delivered via the Computop Smart Data product.

Intended Audience

This document is intended for technical personnel who will be retrieving and parsing reports generated by the Computop Smart Data system.

Data Formats

Format	Description
a	Alphabetic
as	Alphabetic 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-DDThh:mm:ss)

Definitions

Payment/ Transaction	Please note that the terms payment and transaction are used interchangeably throughout this document. A payment respectively a transaction may encompass a number of operational activities.
	During a transaction lifecycle, the state of a transaction will change, depending on the performed action. These actions may include authorization, capture, sale, cancel and refund. A transaction is thereby defined as a sequence of actions.
Action	An action is an operation that changes the status of a payment when performed successfully.
Job	In the context of Computop Smart Data a job contains a set of general information about the report layout, filter options and data fields.
Task	A task is the actual representation of a job with an assigned execution time.

Product Overview

Computop Smart Data is an automated service designed to create one or more predefined reports that are made available in a merchant's FTP account for retrieval. The service enables merchants to schedule periodic reports according to their individual needs.

Smart Data reports are delivered as delimited text files (CSV) with a standard set of data fields by default. Merchants however may customize their reports by choosing the fields from the standard set they would like have included. Data records may encompass transactions between one day and maximum one year prior to the report date. Please note that real-time data are not supported through this product.

For individual setup and configuration please contact [Computop Helpdesk](#).

Report Filter

The following filter options are available:

- MerchantID
- Company
- Currency
- Payment Method
- Payment Status
- Card Brand
- Action
- Successful transactions only
- Unsuccessfull transactions only
- Only transactions with specific Code/s,
- Only transactions without specific Code/s

Please note that all filter options may contain multiple values.

Report Schedule

Smart Data reports can be setup according to the following options:

Once-off Report

- Given time period between two dates

Periodic Reports

- Daily
- Weekly (weekday of delivery at merchant's discretion)
- Monthly (on 1st, 2nd, 3rd, ... each month)

File Layout

Computop Smart Data reports are created as plain text files in CSV format. Currently comma, tab and colon are supported delimiters to separate values (please contact [Computop Helpdesk](#) for individual setup). The default delimiter is colon unless specified otherwise.

Each file will contain an initial header row and zero or more data rows. A header row will consist of a separated list of the individual field names, as defined in this document, in the specified order. The field names of the header row are currently available in English and German. The data rows will consist of a separated list of the data field values that contain characters encoded in UTF-8.

Security

For security reasons all files are PGP encrypted and transferred via SFTP.

File Names

The file names are assigned according to the following convention: ComputopSmartData_[JobID]_[TaskID]_[YYYYMMDD_hhmmss].CSV.pgp

The individual name elements are described in the table below.

#	Element	Format	Example
1	Prefix	a17	ComputopSmartData
2	JobID	n..10	Internal job identifier
3	TaskID	n..10	Internal task identifier

4	Timestamp	an15	YYYYMMDD_hhmmss
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A valid file name example is: ComputopSmartData_12_789_20160320_023609.CSV.pgp

Data Records and Field Description

Each record represents an operation/action that has been performed on a payment. Regularly a payment will consist of multiple operation records. Available data fields are listed in the table below. Individual data fields can be omitted on request.

#	Parameter	Format	Description
01	PaymentID	an..32	Payment identifier generated by Paygate
02	MerchantID	an..20	Merchant identifier assigned by Computop
03	Payment Date	ans19	Timestamp of payment creation time: DD.MM.YYYY hh:mm:ss
04	TransID	ans..64	Transaction identifier assigned by the merchant on payment level
05	RefNr	ans..30	Supplementary transaction identifier assigned by merchant on payment level
06	Amount Auth	n..10	Authorized amount in its smallest unit of transaction currency
07	Amount Cap	n..10	Captured amount in its smallest unit of transaction currency
08	Amount Cred	n..10	Refunded amount in its smallest unit of transaction currency
09	Currency	a3	ISO 4217 three-letter currency code
10	Payment Status	a..30	Transaction status with one of the following values: <ul style="list-style-type: none"> · AUTHORIZED · CANCELED · CAPTURE_REQUEST · CREDIT_REQUEST · FAILED · OK · PENDING · SUCCESS Please note that the above listed status values are not exhaustive and may vary depending on the payment method.
11	Payment Method	ans..64	Payment method (e.g. Barzahlen, Card, PayPal etc.)
12	Payment Type	ans..64	Payment type (e.g., 3X, 4X, etc..)
13	Card Brand	a..22	Card scheme (e.g. Visa, MasterCard, Maestro etc.)
14	Country of Origin Card A2	a..2	Country of origin according to BIN/IIN (2 characters or n/a, e.g. DE)
15	Country of Origin Card A3	a..3	Country of origin according to BIN/IIN (3 characters or n/a, e.g. DEU)
16	Country of Origin Card N3	an..3	Country of origin according to BIN/IIN (3 digits or n/a, e.g. 276)
17	Card Number	an..19	Masked card number
18	Card Token	n..19	Card token generated by Paygate
19	SchemeReferenceID	ans..64	Unique transaction identifier provided from the card scheme
20	Expiry date	n6	Credit card's expiry date in the format yyyyMM, e.g. 202005
21	Approval code	an6	Authorisation code of the transaction
22	Cardholder Name	ans..60	Name of cardholder
23	CardType	ans..64	Card type, e.g. Credit, Debit, Prepaid,...
24	Category (Card)	ans..64	Credit card category, e.g. Standard, Business,...
25	SubBrand	a..22	CardBrand2 or Sub-Brand
26	BIN	n6..11	Bank Identification Number
27	TerminalID	an7..8	ID of the terminal
28	POS TerminalID	an..12	ID of the physical terminal (device)
29	CardAcceptorID	n5..12	Contract partner number

30	Acquirer Name	an..5	Acquirer shortcode
31	IBAN	an..30	International Bank Account Number
32	BIC	an..11	ISO 9362 Business Identifier Code
33	User Data	ans..256	Custom merchant data that are included in the response and that might get conveyed to the subsequent processing host depending on the acquirer and custom arrangements
34	OrderDesc	an..768	Order description
35	ActionID	an..64	Unique action identifier assigned by Paygate
36	Payment Action	a..30	<p>Specifies the action performed on the payment:</p> <ul style="list-style-type: none"> · AUTHENTICATE: authentication for a payment · AUTHORIZE: authorize of a payment · CAPTURE: capture of an authorized payment · CREDIT: credit of a payment · SALE: authorize and capture of a payment · CHARGEBACK: chargeback of a previously made payment <p>For chargebacks it depends on acquirer whether they are notified in EPA and can be attributed to a payment process.</p>
37	Action Date	ans19	Timestamp of the action: DD.MM.YYYY hh:mm:ss
38	Reference number (Transaction)	ans..30	Additional Transactions-ID from the merchant on action level
39	Card holder information 1 (Transaction)	ans..64	Text printed on the customer's credit card bill alongside the payee
40	Card holder information 2 (Transaction)	ans..64	Text printed on the customer's credit card bill alongside the payee
41	Response Code	n8	Paygate response code
42	Action Status	a..50	Status received on the performed action
43	Action Amount	n..10	Operation amount in its smallest unit of transaction currency
44	Code Description	an..1024	Error code description
45	EPA date (transaction)	ans..19	Timestamp when EPA file has been processed
46	EPA status (transaction)	a..3	Status of EPA processing
47	CustomerInfo	ans..1024	Additional customer data provided by merchant (KVP parameter)