Smart Data Guide

About this Guide

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

Intended Audience

This document is intended for technical personnel who will be retrieving and parsing reports generated by the 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
dttm	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 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

Smart Data is an automated service designed to create one or more predefined reports that are made available in a merchant's FTP account or via back-Office 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 .

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

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 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 or available in the Back-Office.

> ⓘ The files will be automatically deleted from the Axepta sFTP server after 14 days.
>
> The reconciliation file is generated only when transactions are processed.

File Names

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

The individual name elements are described in the table below.

#	Element	Format	Example
1	Prefix	a17	SmartData
2	JobID	n..10	Internal job identifier
3	TaskID	n..10	Internal task identifier
4	Timestamp	an15	YYYYMMDD_hhmmss

A valid file name example is: SmartData_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
02	MerchantID	an..20	Merchant identifier assigned by
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: · 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	Card Brand	a..22	Card scheme (e.g. Visa, MasterCard, Maestro etc.)
13	Country of Origin Card A2	a..2	Country of origin according to BIN/IIN (2 characters or n/a, e.g. DE)
14	Country of Origin Card A3	a..3	Country of origin according to BIN/IIN (3 characters or n/a, e.g. DEU)
15	Country of Origin Card N3	an..3	Country of origin according to BIN/IIN (3 digits or n/a, e.g. 276)
16	Card Number	an..19	Masked card number
17	Card Token	n..19	Card token generated by
18	Expiry date	n6	Credit card's expiry date in the format yyyyMM, e.g. 202005
19	Approval code	an6	Authorisation code of the transaction
20	Cardholder Name	ans..60	Name of cardholder
21	CardType	ans..64	Card type, e.g. Credit, Debit, Prepaid,...
22	Category (Card)	ans..64	Credit card category, e.g. Standard, Business,...
23	SubBrand	a..22	CardBrand2 or Sub-Brand
24	BIN	n6..11	Bank Identification Number
25	TerminalID	an8	ID of the terminal

26	CardAcceptorID	n5..12	Contract partner number
27	Acquirer Name	an3	Acquirer shortcode
28	IBAN	an..30	International Bank Account Number
29	BIC	an..11	ISO 9362 Business Identifier Code
30	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
31	OrderDesc	an..768	Order description
32	ActionID	an..64	Unique action identifier assigned by
33	Payment Action	a..30	Specifies the action performed on the payment
34	Action Date	ans19	Timestamp of the action: DD.MM.YYYY hh:mm:ss
35	Reference number (Transaction)	ans..30	Additional Transactions-ID from the merchant on action level
36	Card holder information 1 (Transaction)	ans..64	Text printed on the customer's credit card bill alongside the payee
37	Card holder information 2 (Transaction)	ans..64	Text printed on the customer's credit card bill alongside the payee
38	Response Code	n8	response code
39	Action Status	a..50	Status received on the performed action
40	Action Amount	n..10	Operation amount in its smallest unit of transaction currency
41	Code Description	an..1024	Error code description